June 23,

2022

1RP-389

2022 Semi-Annual (January-June) Groundwater Monitoring Report Apache Corporation, State C Tract 13 Lea County, New Mexico

Prepared for:



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LAI Project No: 19-0112-38

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1.0 EXECUTIVE SUMMARY

Larson & Associates, Inc. (LAI) has prepared this report on behalf of the Apache Corporation (Apache) for submittal to the New Mexico Oil Conservation Division (NMOCD) District I in Hobbs and Santa Fe, New Mexico. This report presents 2022 semi-annual (January-June) groundwater monitoring results for the State C Tract 13 (Site) located in Section 36, Range 37 East, Township 21 South, in Lea County, New Mexico. The geodetic position is North 32.43830° and West -103.12155°.

The following activities occurred on March 3, 2022, and May 26, 2022:

- Gauge six (6) monitoring wells (MW-1 through MW-6) and a recovery well (RW-1) for depth to groundwater.
- Purged and sample groundwater from six (6) monitoring wells (MW-1 through MW-6) and a recovery well (RW-1).
- Analyzed groundwater samples BTEX, nitrate, chloride, and total dissolved solids (TDS).

The following observations are documented in this report for March 3, 2022:

- Depth to groundwater ranged from 39.11 (MW-5) to 40.87 (MW-1) feet bgs.
- The groundwater elevation ranged between 3,320.24 feet above mean sea level (MSL) at MW-2 (upgradient) to 3,319.39 feet above MSL at MW-6 (downgradient).
- Groundwater flows northeast towards MW-1, east towards MW-3 and RW-1, and southeast towards MW-4 through MW-6 at gradients between 0.0004 feet per foot (ft/ft) and 0.0017 ft/ft.
- BTEX concentrations were reported below the analytical method reporting limit (RL) and NMWQCC human health standards in all groundwater samples collected on March 3, 2022.
- Nitrate concentrations were reported below the NMWQCC human health standard of 10 mg/L in all groundwater samples collected on March 3, 2022.
- Chloride concentrations were reported above the NMWQCC domestic water quality standard (250 mg/L) in MW-1 (426 mg/L), MW-2 (3,540 mg/L), MW-3 (6,100 mg/L), MW-4 (472 mg/L), and RW-1 (931 mg/L).
- TDS concentrations were reported above the NMWQCC domestic water quality standard (1,000 mg/L) in MW-1 (1,290 mg/L), MW-2 (6,140 mg/L), MW-3 (10,100 mg/L), MW-4 (1,510 mg/L), MW-5 (1,020 mg/L), MW-6 (1,050 mg/L), RW-1 (1,970 mg/L).
- No significant changes in depth to groundwater, groundwater flow conditions and analyte concentrations were observed during the first 2022 quarterly monitoring event on March 3, 2022.

The following observations are documented in this report for May 26, 2022:

- Depth to groundwater ranged from 39.15 feet bgs (MW-5) to 40.87 feet bgs (MW-1).
- Groundwater elevation ranged between 3,320.24 feet above MSL at MW-2 (upgradient) to 3,319.35 feet above MSL at MW-6 (downgradient).
- Groundwater flows northeast towards MW-1, east towards MW-3 and RW-1, and southeast towards MW-4 through MW-6 at gradients between 0.0003 feet per foot (ft/ft) and 0.0017 ft/ft.
- BTEX concentrations were reported below analytical method RL and NMWQCC human health standards in all groundwater samples collected on May 26, 2022.

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- Nitrate concentrations were reported below the NMWQCC human health standard of 10 mg/L in all groundwater samples collected on May 26, 2022.
- Chloride concentrations were reported above the NMWQCC domestic water quality standard (250 mg/L) in groundwater samples from MW-1 (403 mg/L), MW-2 (3,520 mg/L), MW-3 (6,830 mg/L), MW-4 (510 mg/L), and RW-1 (931 mg/L) May 26, 2022.
- TDS concentrations were reported above the NMWQCC domestic water quality standard (1,000 mg/L) in groundwater samples from monitoring wells MW-1 (1,370 mg/L), MW-2 (7,850 mg/L), MW-3 (11,900 mg/L), MW-4 (1,510 mg/L), and RW-1 (2,020 mg/L) May 26, 2022.
- No significant changes in depth to groundwater, groundwater flow conditions and analyte concentrations were observed during the second 2022 quarterly monitoring event on May 26, 2022.

Apache will continue to notify NMOCD at seven (7) working in days in advance of each quarterly groundwater monitoring event and immediately for any significant changes in analyte concentrations in groundwater samples.

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2.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this report on behalf of the Apache Corporation (Apache) to be submitted to the New Mexico Oil Conservation Division (NMOCD) District I in Hobbs and Santa Fe, New Mexico. This report presents 2022 semiannual (January-June) groundwater monitoring results for the State C Tract 13 (Site) located in Section 36, Range 37 East, Township 21 South, in Lea County, New Mexico. The geodetic position is North 32.43830° and West -103.12155°. The Site is the former location of an unlined disposal pit located approximately 215 feet south from the State C Tract 13 tank battery. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

2.1 Background

Between November 19, 2002, and September 10, 2004, Eco Drilling Services, under supervision from Safety & Environmental Solutions, Inc. (SESI), drilled and installed six (6) monitoring wells (MW-1 through MW-6) at the Site. The wells were drilled to 72.21 feet below ground surface (bgs) at MW-1, 57.47 feet bgs (MW-2), 54.71 feet bgs (MW-3), and 55.00 feet bgs (MW-4, MW-5, and MW-6). The wells were completed with 2-inch schedule 40 PVC casing and 0.020-inch slotted screen. Depth to groundwater was gauged between 43.52 feet bgs at MW-4 and 46.33 feet bgs at MW-1. SESI personnel collected groundwater samples from the wells which were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), cations (sodium, calcium, magnesium, and potassium), anions (chloride, sulfate, carbonate, calcium carbonate) and total dissolved solids (TDS). SESI documented the investigation and remediation in the report titled, "Apache Corporation State C. Tract 13 Site Investigation, Section 36, Township 21S, Range 37E, Lea County, New Mexico, March 10, 2003".

On July 21, 2021, Scarborough Drilling Inc. (SDI), under LAI supervision, installed a recovery well (RW-1) southeast (downgradient) from the pit excavation where SESI excavated approximately 1,104 cubic yards of soil to a depth of about fourteen feet bgs. A 40-mil thickness liner was placed in the bottom of the excavation and covered with soil to ground surface. The recovery/test well was drilled to approximately 69.25 feet bgs and completed with five (5) inch non-threaded schedule 40 PVC casing and about 29.55 feet of 0.02-inch factory slotted screen. The screen was positioned above and below the groundwater level observed during drilling. Graded silica sand was placed around the screen to about two (2) feet above the screen. The remaining annulus above the screen was filled to about 1-foot bgs with bentonite chips and hydrated with potable water. Depth to groundwater was gauged at about 40.09 feet bgs. West Companies, Midland, Texas, a State of New Mexico Licensed Profession Land Surveyor (LPS Number 23263) surveyed the monitoring and recovery wells for geodetic position, and ground and top of casing (TOC) elevation. Table 1 presents the monitoring and recovery well locations.

3.0 GROUNDWATER MONITORING

3.1 Depth to Groundwater and Groundwater Potentiometric Surface ElevationOn March 3, 2022, LAI personnel gauged depth to groundwater in monitoring wells MW-1 through MW-6 and recovery well RW-1. Groundwater was measured at 40.87 (MW-1), 39.93 (MW-2), 40.16 (MW-3),

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39.70 (MW-4), 39.11 (MW-5), 40.23 (MW-6), and 39.75 (RW-1) feet bgs. The groundwater potentiometric surface elevation ranged from 3,320.27 at MW-2 (upgradient) to 3,319.39 at MW-6 (downgradient).. An apparent groundwater divide occurs in the area of monitoring well MW-2 that causes groundwater to flow northeast towards MW-1, east towards MW-3 and RW-1, and southeast towards MW-4 through MW-6 at gradients between 0.0004 ft/ft and 0.0017 ft/ft. Table 1 presents the groundwater gauging summary. Figure 3a presents the groundwater potentiometric map for March 3, 2022.

On May 26, 2022, LAI personnel gauged depth to groundwater in monitoring wells MW-1 through MW-6 and recovery well RW-1. Groundwater was measured at 40.87 (MW-1), 39.96 (MW-2), 40.16 (MW-3), 39.75 (MW-4), 39.15 (MW-5), 42.27 (MW-6), and 39.75 (RW-1) feet bgs. The groundwater potentiometric surface elevation ranged between 3,320.09 feet above MSL at MW-2 (upgradient) and 3,319.36 feet above MSL at MW-6 (downgradient). An apparent groundwater divide occurs in the area of monitoring well MW-2 that causes groundwater to flow northeast towards MW-1, east towards MW-3 and RW-1, and southeast towards MW-4 through MW-6 at gradients between 0.0003 ft/ft and 0.0017 ft/ft. Table 1 presents the groundwater gauging summary. Figure 3b presents the groundwater potentiometric map for May 26, 2022.

No significant changes were observed in groundwater depths, potentiometric surface elevations, groundwater flow directions, or groundwater gradients between March 3, 2022, and May 26, 2022.

3.2 Groundwater Samples and Analysis

On March 3, 2022, and May 26, 2022, LAI personnel collected groundwater samples from monitoring wells MW-1 through MW-2 and recovery well RW-1. Notification of the groundwater sampling events was submitted to the NMOCD. During both groundwater monitoring events, groundwater samples from MW-1 and RW-1, were collected using the low stress or low flow method following EPA protocol (EQASOP-GW4, Revision 4, September 19, 2017) where an environmental pump is submerged near the middle of the water column and the well is pumped at a low flow rate until environmental parameters stabilize. The samples were collected from discharge through dedicated disposable Tygon tubing. The tubing was discarded after each use and the pump was thoroughly cleaned with a solution of potable water and laboratory grade detergent (Alconox®) and rinsed with distilled water. Groundwater samples from MW-2 through MW-6 were collected using dedicated disposable polyethylene bailers during both groundwater monitoring events.

The groundwater samples were transferred to labeled laboratory containers, packed in an ice chest filled with ice, and delivered under chain of custody to Eurofins-Xenco Laboratories (Xenco), a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory, located in Midland, Texas. A duplicate sample was collected from MW-1 on March 3, 2022, and from RW-1 on May 26, 2021, for laboratory quality assurance and quality control (QA/QC). Xenco analyzed the samples for BTEX by EPA SW-846 Method SW-8021D, chloride and nitrate by EPA Method 300, and TDS by Method SM 2540C. Table 3 presents the laboratory analytical summary. Appendix A presents the NMOCD communications. Appendix B presents the laboratory reports.

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3.2.1 Organic Analysis

Xenco reported BTEX concentrations below the laboratory analytical reporting limit (RL) and New Mexico Water Quality Control Commission (NMWQCC) human health standards in groundwater samples collected from monitoring wells MW-1 through MW-6 and recovery well RW-1 on March 3, 2022, and May 26, 2022.

3.2.2 Inorganic Analysis

Chloride concentrations in groundwater samples collected on March 3, 2022, were 426 mg/L (MW-1), 3,540 mg/L(MW-2), 6,100 mg/L (MW-3), 472 mg/L (MW-4), and 979 mg/L (RW-1) and exceeded the NMWQCC domestic water quality control standard (250 mg/L). Chloride concentrations in groundwater samples collected from MW-5 (100 mg/L) and MW-6 (117mg/L) were below the NMWQCC domestic water quality control standard.

Chloride concentrations in groundwater samples collected on May 26, 2022, were 403 mg/L (MW-1), 3,520 mg/L (MW-2), 6,830 mg/L, (MW-3), 510 mg/L (MW-4) and 931 mg/L (RW-1) and exceeded the NMWQCC domestic water quality standard (250 mg/L). Chloride concentrations in groundwater samples collected from MW-5 (101 mg/L) and MW-6 (105 mg/L) remained below the NMWQCC domestic water quality standard for chloride. Chloride concentrations in samples collected on May 26, 2022, are consistent with chloride concentrations observed in samples collected on March 3, 2022. Figure 4a presents the chloride concentration map on March 3, 2022. Figure 4b presents the chloride concentration map on May 26, 2022.

TDS concentrations in groundwater samples collected on March 3, 2022, were 1,290 mg/L (MW-1), 6,140 mg/L (MW-2), 10,100 mg/L (MW-3), 1,340 mg/L (MW-4), 1,020 mg/L (MW-5), 1,050 mg/L (MW-6), and 1,970 mg/L (RW-1) and were above the NMWQCC water quality standard for TDS (1,000 mg/L). TDS concentrations in groundwater samples collected on May 26, 2022, were 1,370 mg/L (MW-1), 7,850 mg/L (MW-2), 11,900 mg/L (MW-3), 1,510 mg/L (MW-4), and 2,020 m/L (RW-1). TDS concentrations decreased slightly in samples from MW-5 (968 mg/L) and MW-6 (967 mg/L), on March 3, 2022, and were below the NMWQCC domestic water quality standard in monitoring wells. No significant changes in TDS concentrations were observed in samples collected from MW-1 through MW-4 and RW-1. Figure 5a presents the TDS concentration map on March 3, 2022. Figure 5b presents the TDS concentration map on May 26, 2022.

Xenco reported nitrate concentrations below the NMWQCC human health standard of 10 mg/L in all groundwater samples collected on March 3, 2022, and May 26, 2022.

4.0 CONCLUSIONS

The following observations are made in this report:

 No significant changes were observed in potentiometric surface elevation, flow direction, or gradient between March 3, 2022, and May 26, 2022.

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- BTEX compounds were reported below the analytical method RL and NMWQCC human health standards in samples collected from MW-1 through MW-6 and RW-1 on March 3, 2022, and May 26, 2022.
- Chloride concentrations were reported above NMWQCC domestic water quality standard (250 mg/L) in groundwater samples collected from MW-1 through MW-4 and RW-1 on March 3, 2022, and May 26, 2022.
- Chloride concentrations were reported below the NMWQCC domestic water quality standard for chloride in monitoring wells MW-5 and MW-6 on March 3, 2022, and May 26, 2022.
- TDS concentrations on in all groundwater samples collected on March 3, 2022, were above NMWQCC domestic water quality control standard for TDS (1,000 mg/L).
- TDS concentrations in samples collected from MW-5 and MW-5 on May 26, 2022, decreased slightly and were below the NMWQCC domestic water quality standard for TDS.
- Nitrate concentrations were below analytical RL and NMWQCC human health standards on March 3, 2022, and May 26, 2022.

Apache will continue quarterly monitoring of groundwater in wells MW-1 through MW-6 and RW-1 during 2022 with laboratory analysis of groundwater samples for BTEX, chloride, nitrate, and TDS. Apache will provide the NMOCD with a semiannual and annual groundwater monitoring report.

Notice will be provided to NMOCD in Hobbs and Santa Fe, New Mexico at least 7 working days prior to each groundwater monitoring event. The NMOCD will be notified immediately upon receipt of laboratory analysis with significant increase of analyte concentrations.

Tables

Table 1 1RP-389 Groundwater Gauging Table Apache State C Tract 13 Lea County, New Mexico

		W	ell Information				Groun	dwater Data	
Boring ID	Well Depth	Well Diameter	Surface Elevation	TOC Elevation	Casing Stickup	Date Gauged	Depth to Water	Depth to Water	Groundwater Elevation
	(Feet TOC)	(Inches)	(Feet AMSL)	(Feet AMSL)	(Feet)	0.0/0.7/0.00	(Feet TOC)	(Feet BGS)	(Feet AMSL)
MW-1	72.45	2	3,363.03	3,365.00	2.50	06/05/2019	43.52	41.02	3,321.48
						07/21/2020	43.60	41.10	3,321.40
						07/30/2021	43.70	41.20	3,321.30
						08/10/2021	43.66	41.16	3,321.34
						08/11/2021	43.69	41.19	3,321.31
						03/03/2022	43.37	40.87	3,321.63
						05/06/2022	43.37	40.87	3,321.63
MW-2	45.78	2	3,361.86	3,364.58	2.60	06/5/2019	42.71	40.11	3,321.87
						07/21/2020	42.70	40.10	3,321.88
						07/30/2021	DRY		
						08/10/2021	DRY		
						08/11/2021	DRY		
						03/03/2022	42.53	39.93	3,322.05
						05/26/2022	42.56	39.96	3,322.02
MW-3	45.74	2	3,361.86	3,364.72	2.75	06/05/2019	43.00	40.25	3,321.72
						07/21/2020	43.00	40.25	3,321.72
						07/30/2021	DRY		,
						08/10/2021	DRY		
						08/11/2021	DRY		<u></u>
						03/03/2022	42.91	40.16	3,321.81
						05/05/2022	42.91	40.16	3,321.81
						03/20/2022	72.51	70.10	3,321.01
MW-4	46.42	2	3,361.49	3,364.00	2.62	06/05/2019	42.41	39.79	3,321.59
						07/21/2020	42.10	39.48	3,321.90
						07/30/2021	DRY		

Table 1 1RP-389 Groundwater Gauging Table Apache State C Tract 13 Lea County, New Mexico

		W	ell Information				Groun	dwater Data	
Boring ID	Well Depth (Feet TOC)	Well Diameter (Inches)	Surface Elevation (Feet AMSL)	TOC Elevation (Feet AMSL)	Casing Stickup (Feet)	Date Gauged	Depth to Water (Feet TOC)	Depth to Water (Feet BGS)	Groundwater Elevation (Feet AMSL)
						08/10/2021	DRY		-
						08/11/2021	DRY		
						03/03/2022	42.32	39.70	3,321.68
						05/26/2022	42.37	39.75	3,321.63
MW-5	46.19	2	3,361.73	3,364.77	3.85	06/05/2019	42.98	39.13	3,321.79
						07/20/2020	43.00	39.15	3,321.77
						07/30/2021	43.25	39.40	3,321.52
						08/10/2021	43.20	39.35	3,321.57
						08/11/2021	43.21	39.36	3,321.56
						03/03/2022	42.96	39.11	3,321.81
						05/26/2022	43.00	39.15	3,321.77
MW-6	46.91	2	3,361.42	3,364.32	2.62	06/05/2019	42.88	40.26	3,321.44
						07/20/2020	42.95	40.33	3,321.37
						07/30/2021	43.12	40.50	3,321.20
						08/10/2021	43.06	40.44	3,321.26
						08/11/2021	43.08	40.46	3,321.24
						03/03/2022	42.85	40.23	3,321.47
						05/26/2022	42.89	40.27	3,321.43
RW-1	65.67	8.5	3,361.66	3,364.60	3.00	08/10/2021	43.00	40.00	3,321.60
						08/11/2021	43.09	40.09	3,321.51
						08/19/2021	43.08	40.08	3,321.52
						03/03/2022	42.75	39.75	3,321.85
						05/26/2022	42.75	39.75	3,321.85

Table 1 1RP-389 Groundwater Gauging Table Apache State C Tract 13 Lea County, New Mexico

		We	ell Information		Groundwater Data				
Boring ID	Well Depth	Well Diameter	Surface Elevation	TOC Elevation	Casing Stickup	Date Gauged	Depth to Water	Depth to Water	Groundwater Elevation
	(Feet TOC)	(Inches)	(Feet AMSL)	(Feet AMSL)	(Feet)		(Feet TOC)	(Feet BGS)	(Feet AMSL)

Notes:

TOC: top of casing

AMSL: above mean sea level

Table 2 1RP-389 Groundwater Analytical Data Summary Apache Corp, State C Tract #13 Lea County, New Mexico 19-0112-38

Sample	Collection Date	Benzene	Toluene	Ethylbenzene	Xylenes	Nitrate	Sulfate	Chloride	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
RRAL	•	0.005	0.7	1	0.62	10	600	250	1,000
MW-1	06/05/2019 1	<0.00100	<0.00100	<0.00100	<0.003	1.41		540	
	07/30/2021 2						242	352	1,200
	03/03/2022 2	<0.00200	<0.00200	<0.00200	<0.00400	3.28		426	1,290
	05/26/2022 2	<0.00200	<0.00200	<0.00200	<0.00400	<0.100		403	1,370
MW-2	06/05/2019 1	<0.00100	<0.00100	<0.00100	<0.003	0.314		5,330	
	07/30/2021 2						DRY	DRY	DRY
	03/03/2022 2	<0.00200	<0.00200	<0.00200	<0.00400	<5.00		3,540	6,140
	05/26/2022 2	<0.00200	<0.00200	<0.00200	<0.00400	<0.100		3,520	7,850
MW-3	06/05/2019 1	<0.00100	<0.00100	<0.00100	<0.003	0.0890		4,330	
	07/30/2021 2						DRY	DRY	DRY
	03/03/2022 2	<0.00200	<0.00200	<0.00200	<0.00400	<5.00		6,100	10,100
	05/26/2022 2	<0.00200	<0.00200	<0.00200	<0.00400	<0.100		6,830	11,900
MW-4	06/05/2019 1	<0.00100	<0.00100	<0.00100	<0.003	0.3030		776	
	07/30/2021 2						DRY	DRY	DRY
	03/03/2022 2	<0.00200	<0.00200	<0.00200	<0.00400	3.03		472	1,340
	05/26/2022 2	<0.00200	<0.00200	<0.00200	<0.00400	<0.100		510	1,510
2024 5	06/05/2010 1	<0.00100	<0.00100	<0.00100	<0.003	<0.0900		67.5	
MW-5	06/05/2019 ¹ 07/30/2021 ²	<0.00100	<0.00100	<0.00100	<0.003	<0.0800	 419	67.5 144	
	07/30/2021	 <0.00200	 -0 00200	 <0.00200	<0.00400	- <1.00		100	1,340
			<0.00200						1,020
	05/26/2022 2	<0.00400	<0.00400	<0.00400	<0.00800	<0.100		101	968
MW-6	06/05/2019 1	<0.00100	<0.00100	<0.00100	<0.003	1.42		274	

Table 2 1RP-389 Groundwater Analytical Data Summary Apache Corp, State C Tract #13 Lea County, New Mexico

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Sample	Collection Date	Benzene	Toluene	Ethylbenzene	Xylenes	Nitrate	Sulfate	Chloride	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
RRAL		0.005	0.7	1	0.62	10	600	250	1,000
	07/30/2021 2						438	126	2,330
	03/03/2022 2	<0.00200	<0.00200	<0.00200	<0.00400	1.66		117	1,050
	05/26/2022 2	<0.00200	<0.00200	<0.00200	<0.00400	<0.100		105	967
RW-1	03/03/2022 2	<0.00200	<0.00200	<0.00200	<0.00400	6.19		979	1,970
	05/26/2022 2	<0.00200	<0.00200	<0.00200	<0.00400	<0.100		931	2,020
				QA/QC					
DUP-1 (MW-1)	06/05/2019 1								
DUP-1 (MW-1)	07/30/2021						224	325	1190
DUP-1 (MW-1)	03/03/2022	<0.00200	<0.00200	<0.00200	<0.00400	2.78		407	1330
DUP-1 (RW-1)	05/26/2022	<0.00200	<0.00200	<0.00200	<0.00400	<0.100		966	2,040

Notes:

Values reported in milligrams per liter (mg/L)

Exceeds New Mexico Water Domestic Water Quality Standard

^{1:} analysis performed by Permian Basin Environmental Lab, Midland, Texas by EPA SW-846 Method 6020B (BTEX) and Method 300

²: analysis performed by Eurofins Xenco Laboratories, Midland, Texas by EPA SW-846 Method 6020B (BTEX) and Method 300

<: concentration below analytical reporting limit

^{--:} no data availible

Figures

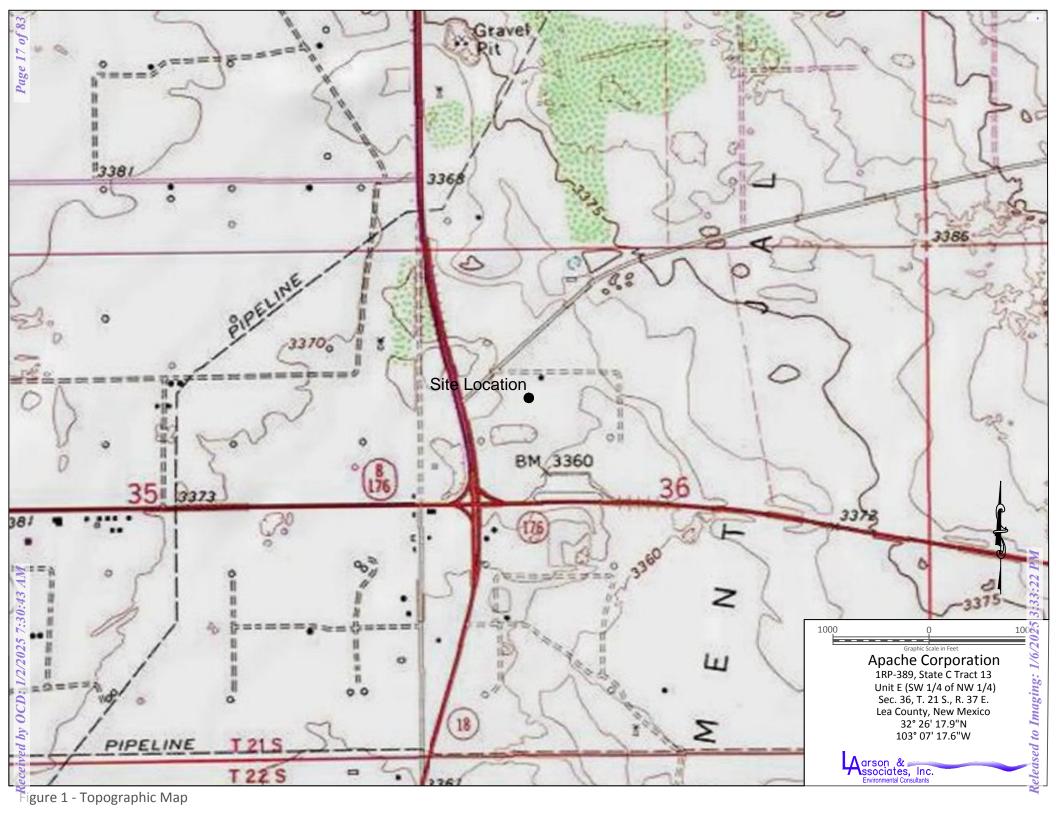
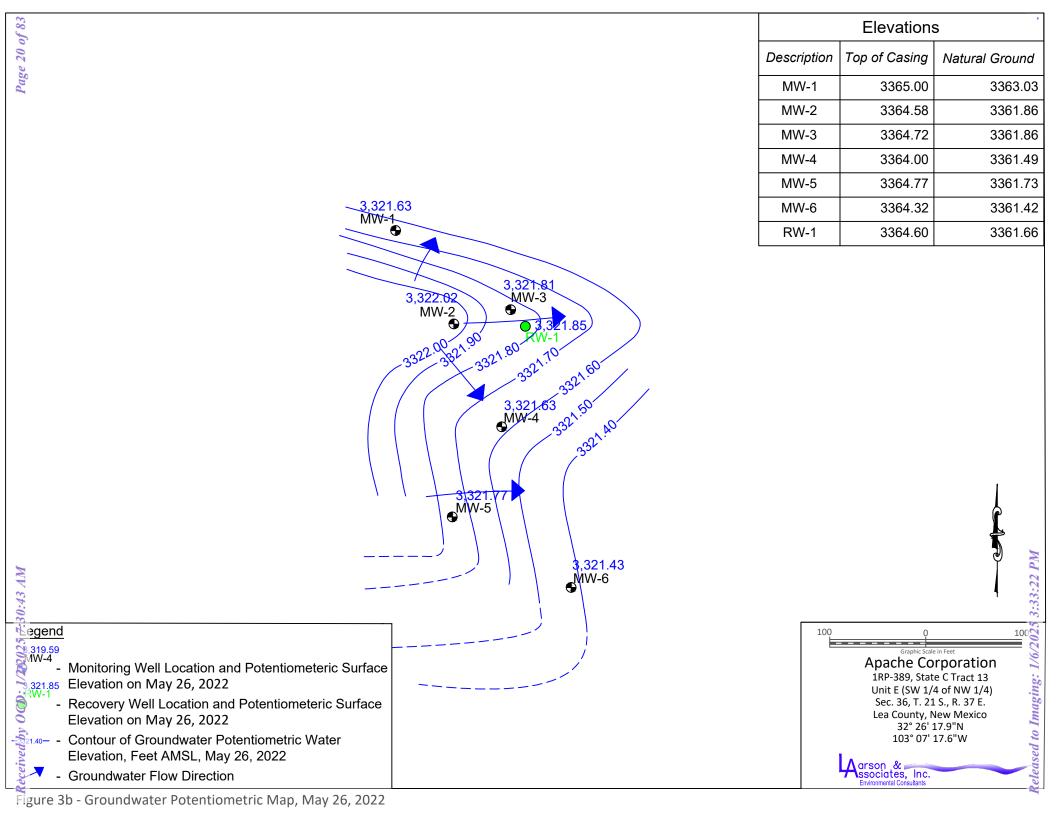




Figure 2 - Aerial Map Showing Monitoring Wells and Recovery Well



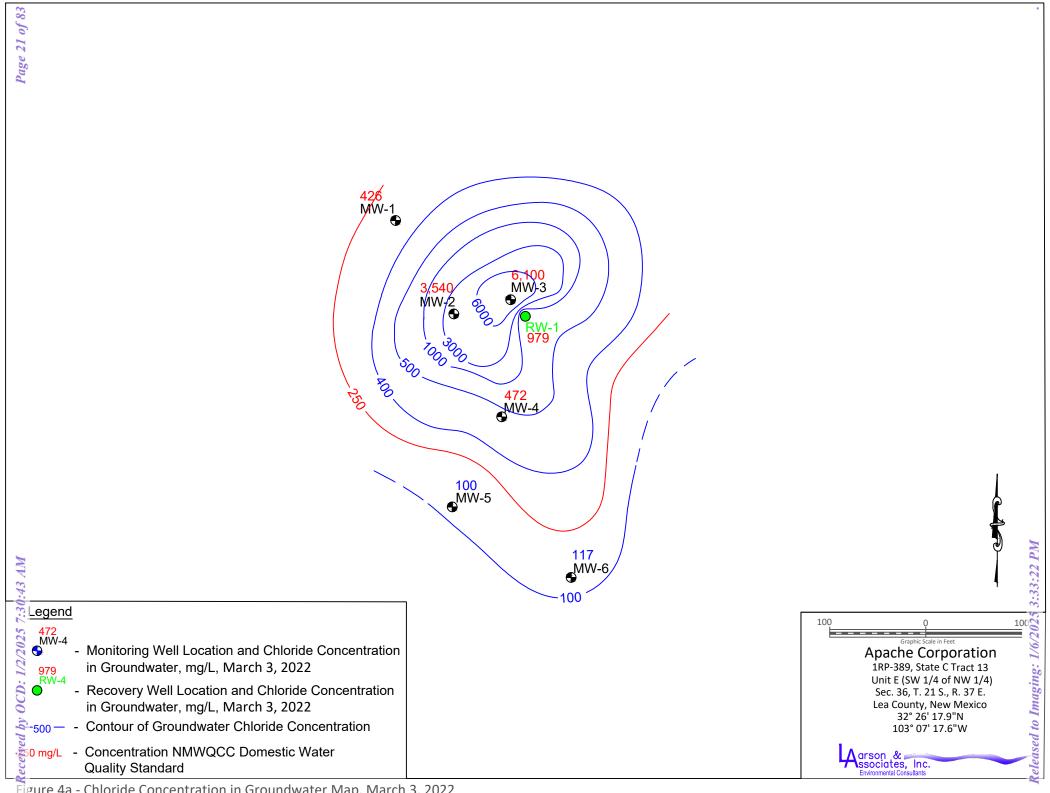


Figure 4a - Chloride Concentration in Groundwater Map, March 3, 2022

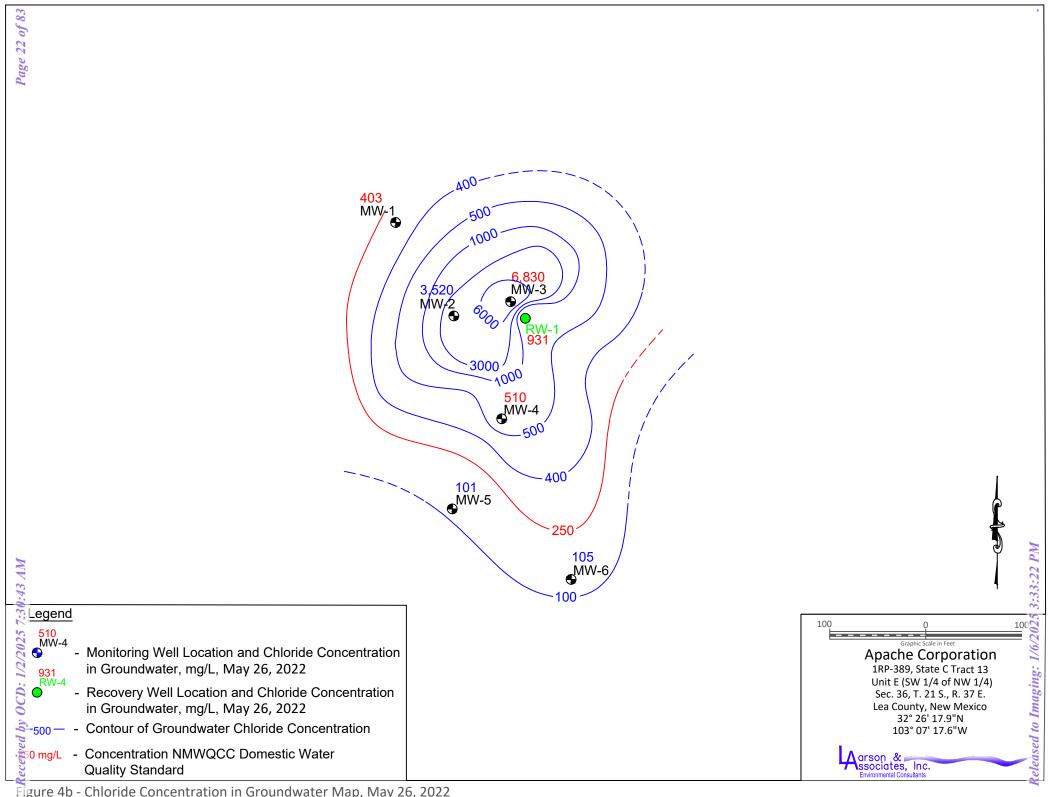
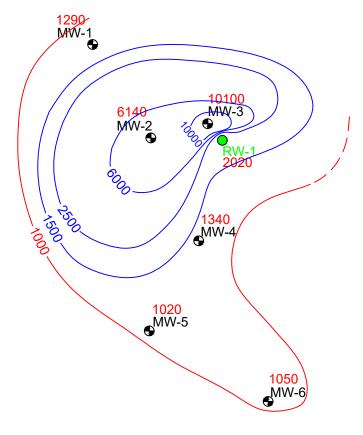


Figure 4b - Chloride Concentration in Groundwater Map, May 26, 2022



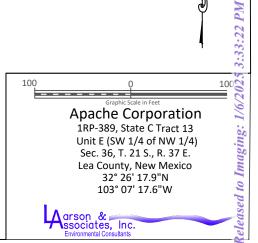




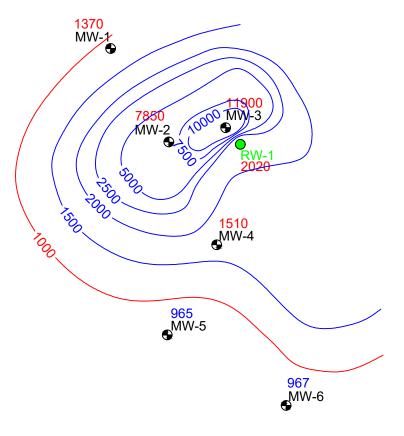
- Monitoring Well Location and TDS Concentration

- Recovery Well Location and TDS Concentration

- Monitoring Well Location and TDS Concentral in Groundwater, mg/L, March 3, 2022
- Recovery Well Location and TDS Concentration in Groundwater, mg/L, March 3, 2022
- Contour of TDS Groundwater Concentration
- NMWQCC Domestic Water Quality Standard











- Monitoring Well Location and TDS Concentration

- Monitoring Well Location and TDS Concentral in Groundwater, mg/L, May 26, 2022
- Recovery Well Location and TDS Concentration in Groundwater, mg/L, May 26, 2022
- Contour of TDS Groundwater Concentration
- NMWQCC Domestic Water Quality Standard - Recovery Well Location and TDS Concentration

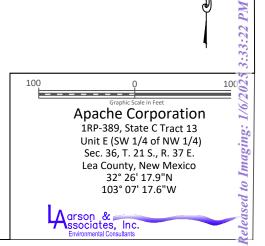


Figure 5b - TDS Concentration in Groundwater, May 26, 2022

Appendix A NMOCD Communications

From: <u>Billings, Bradford, EMNRD</u>

To: Robert Nelson; Bratcher, Mike, EMNRD
Cc: "Larry.Baker@apachecorp.com"; Mark Larson

Subject: RE: [EXTERNAL] Apache Corp. State C Tract #13 (1RP-389 / App #pEJH1214461703) Groundwater Sampling

Notice

Date: Tuesday, March 1, 2022 9:04:17 AM

Attachments: <u>image001.png</u>

Hi,

Thank you for the notice. Please keep this communication and include it in future reporting for the incident.

Bradford Billings EMNRD/OCD

From: Robert Nelson < rnelson@laenvironmental.com>

Sent: Tuesday, March 1, 2022 6:56 AM

To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

Cc: 'Larry.Baker@apachecorp.com' <Larry.Baker@apachecorp.com>; Mark Larson

<Mark@laenvironmental.com>

Subject: [EXTERNAL] Apache Corp. State C Tract #13 (1RP-389 / App #pEJH1214461703)

Groundwater Sampling Notice

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello Mr. Billings and Mr. Bratcher,

This message is submitted to the New Mexico Oil Conservation Division (OCD) on behalf of Apache Corporation to provide notice that personnel from Larson & Associates, Inc. (LAI) will be at the State C Tract #13 (1RP-389 / App # pEJH1214461703) on March 3, 2022, at approximately 9:00 mst for the purpose of collecting groundwater samples from monitoring wells per the OCD approved plan. Please feel free to contact Bruce Baker with Apache at (432) 215-2284 or Larry.Baker@apache.com, Mark Larson at (432) 687-0901 or mark@laenvironmental.com or me if you have any questions.

Thank you,

Robert Nelson
Sr. Geologist
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com

Aarson & ssociates, Inc.

Daniel St. Germain

From: Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us>

Sent: Monday, May 23, 2022 4:21 PM

To: Robert Nelson

Subject: RE: [EXTERNAL] Apache Corp. State C Tract #13 (1RP-389 / App #pEJH1214461703)

Groundwater Sampling Notice

Hello,

Thank you for the notice. Please keep tis communication and include it with associated report(s).

Bradford Billings EMNRD/OCD

From: Robert Nelson < rnelson@laenvironmental.com >

Sent: Monday, May 23, 2022 3:15 PM

To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> **Cc:** 'Larry.Baker@apachecorp.com' <Larry.Baker@apachecorp.com>; Bole, Barrett <Barrett.Bole@apachecorp.com>; Mark Larson <Mark@laenvironmental.com>

Subject: [EXTERNAL] Apache Corp. State C Tract #13 (1RP-389 / App #pEJH1214461703) Groundwater Sampling Notice

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello Mr. Billings and Mr. Bratcher,

This message is submitted to the New Mexico Oil Conservation Division (OCD) on behalf of Apache Corporation to provide notice that personnel from Larson & Associates, Inc. (LAI) will be at the State C Tract #13 (1RP-389 / App # pEJH1214461703) on May 26, 2022, at approximately 9:00 mst for the purpose of collecting groundwater samples from monitoring wells per the OCD approved plan. Please feel free to contact Bruce Baker with Apache at (432) 215-2284 or Larry.Baker@apache.com, Mark Larson at (432) 687-0901 or mark@laenvironmental.com or me if you have any questions.

Thank you,

Robert Nelson Sr. Geologist Office – 432-687-0901 Cell – 432-664-4804

rnelson@laenvironmental.com



Appendix B

Laboratory Reports

Environment Testing America

ANALYTICAL REPORT

Eurofins Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-12042-1

Laboratory Sample Delivery Group: 19-0112-38

Client Project/Site: State C Tract 13

For:

Larson & Associates, Inc. 507 N Marienfeld Suite 202 Midland, Texas 79701

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by: 3/14/2022 5:16:13 PM

Holly Taylor, Project Manager (806)794-1296

holly.taylor@eurofinset.com

.....LINKS

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 1/6/2025 3:33:22 PM

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

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

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Client: Larson & Associates, Inc.

Project/Site: State C Tract 13

Laboratory Job ID: 880-12042-1

SDG: 19-0112-38

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Definitions/Glossary

Client: Larson & Associates, Inc.

Project/Site: State C Tract 13

Job ID: 880-12042-1

SDG: 19-0112-38

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Qualifiers

|--|

OU VOA	
Qualifier	Qualifier Description
*_	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	
Qualifier	Qualifier Description

U Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

DLC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

Decision Level Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.

Project/Site: State C Tract 13

Job ID: 880-12042-1

SDG: 19-0112-38

Job ID: 880-12042-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12042-1

Receipt

The samples were received on 3/4/2022 8:46 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-21209 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) and LCSD were within acceptance limits and therefore, the data has been reported.

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-21209 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-21149/5-A) and (MB 880-21209/39). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-21326 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Larson & Associates, Inc.

Project/Site: State C Tract 13

Job ID: 880-12042-1

SDG: 19-0112-38

Client Sample ID: MW-5 Lab Sample ID: 880-12042-1

Date Collected: 03/03/22 10:40 Matrix: Water
Date Received: 03/04/22 08:46

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			03/08/22 20:19	1
Toluene	<0.00200	U	0.00200	mg/L			03/08/22 20:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/L			03/08/22 20:19	1
m,p-Xylenes	<0.00400	U	0.00400	mg/L			03/08/22 20:19	1
o-Xylene	<0.00200	U	0.00200	mg/L			03/08/22 20:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/L			03/08/22 20:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Bromofluorobenzene (Surr)	85		70 - 130				03/08/22 20:19	1
1,4-Difluorobenzene (Surr)	115		70 - 130				03/08/22 20:19	1
Method: Total BTEX - Total	I BTEX Calcula	tion						
		tion Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	RL	Unit mg/L	<u>D</u> .	Prepared	Analyzed 03/09/22 20:12	Dil Fac
Analyte Total BTEX	<0.00400	Qualifier U			<u> </u>	Prepared		Dil Fac
Analyte Total BTEX Method: 300.0 - Anions, Io	Result <0.00400	Qualifier U			<u>D</u> .	Prepared Prepared		Dil Fac 1 Dil Fac
Analyte Total BTEX Method: 300.0 - Anions, Io Analyte	Result <0.00400	Qualifier U	0.00400	mg/L		•	03/09/22 20:12	1
Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride	Result <0.00400 n Chromatogra Result	Qualifier U	0.00400 RL	mg/L Unit		•	03/09/22 20:12 Analyzed	1 Dil Fac
Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride Nitrate as N	Result <0.00400 n Chromatogra Result 100	Qualifier U phy Qualifier	0.00400 RL 5.00	mg/L Unit mg/L		•	03/09/22 20:12 Analyzed 03/04/22 15:32	1 Dil Fac 10
Analyte Total BTEX Method: 300.0 - Anions, local Analyte Chloride Nitrate as N Nitrite as N	Result <0.00400	Qualifier U phy Qualifier	0.00400 RL 5.00 1.00	mg/L Unit mg/L mg/L		•	03/09/22 20:12 Analyzed 03/04/22 15:32 03/04/22 15:32	1 Dil Fac 10 10
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, lot Analyte Chloride Nitrate as N Nitrite as N General Chemistry Analyte	Result <0.00400	Qualifier U phy Qualifier	0.00400 RL 5.00 1.00	mg/L Unit mg/L mg/L		•	03/09/22 20:12 Analyzed 03/04/22 15:32 03/04/22 15:32	1 Dil Fac 10 10

Client Sample ID: MW-6

Date Collected: 03/03/22 11:00

Lab Sample ID: 880-12042-2

Matrix: Water

Date Received: 03/04/22 08:46

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			03/08/22 20:47	1
Toluene	<0.00200	U	0.00200	mg/L			03/08/22 20:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/L			03/08/22 20:47	1
m,p-Xylenes	<0.00400	U	0.00400	mg/L			03/08/22 20:47	1
o-Xylene	<0.00200	U	0.00200	mg/L			03/08/22 20:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/L			03/08/22 20:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	85		70 - 130				03/08/22 20:47	
1,4-Difluorobenzene (Surr)	117		70 - 130				03/08/22 20:47	1
Method: Total BTEX - Tota	I BTEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/L			03/09/22 20:12	1
Method: 300.0 - Anions, Io	n Chromatogra	phy						
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.00	mg/L			03/04/22 16:39	10
Nitrate as N	1.66		1.00	mg/L			03/04/22 16:39	10
Nitrite as N	<1.00	11	1.00	mg/L			03/04/22 16:39	10

Job ID: 880-12042-1

SDG: 19-0112-38

Client Sample ID: MW-6

Project/Site: State C Tract 13

Client: Larson & Associates, Inc.

Date Collected: 03/03/22 11:00 Date Received: 03/04/22 08:46 Lab Sample ID: 880-12042-2

Matrix: Water

General Chemistry							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1050	50.0	mg/L			03/08/22 16:00	1

Lab Sample ID: 880-12042-3 **Client Sample ID: MW-1**

Date Collected: 03/03/22 11:30 Date Received: 03/04/22 08:46

ap	Sample	ID:	880-12042-3	
			Matrix: Water	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			03/08/22 21:14	1
Toluene	<0.00200	U	0.00200	mg/L			03/08/22 21:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/L			03/08/22 21:14	1
m,p-Xylenes	<0.00400	U	0.00400	mg/L			03/08/22 21:14	1
o-Xylene	<0.00200	U	0.00200	mg/L			03/08/22 21:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/L			03/08/22 21:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				03/08/22 21:14	1
1,4-Difluorobenzene (Surr)	120		70 - 130				03/08/22 21:14	1

Method: Total BTEX - Total BT	EX Calculat	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/L			03/09/22 20:12	1
-								

Method: 300.0 - Anions,	Ion Chromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	426	5.00	mg/L			03/04/22 17:01	10
Nitrate as N	3.28	1.00	mg/L			03/04/22 17:01	10
Nitrite as N	<1.00 U	1.00	mg/L			03/04/22 17:01	10

General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1290		100	mg/L			03/08/22 16:00	1

Client Sample ID: MW-4 Lab Sample ID: 880-12042-4 Date Collected: 03/03/22 12:05 **Matrix: Water**

Date Received: 03/04/22 08:46

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			03/09/22 07:32	1
Toluene	<0.00200	U	0.00200	mg/L			03/09/22 07:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/L			03/09/22 07:32	1
m,p-Xylenes	<0.00400	U	0.00400	mg/L			03/09/22 07:32	1
o-Xylene	<0.00200	U	0.00200	mg/L			03/09/22 07:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/L			03/09/22 07:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114	-	70 - 130		•		03/09/22 07:32	1
1,4-Difluorobenzene (Surr)	78		70 - 130				03/09/22 07:32	1

Job ID: 880-12042-1

Client: Larson & Associates, Inc. Project/Site: State C Tract 13

SDG: 19-0112-38

Client Sample ID: MW-4
Date Collected: 03/03/22 12:05

Lab Sample ID: 880-12042-4

Date Received: 03/04/22 08:46

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/L			03/09/22 20:12	1
Method: 300.0 - Anions, Io	n Chromatogra	phy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	472		5.00	mg/L			03/04/22 18:02	10
Nitrate as N	3.03		1.00	mg/L			03/04/22 18:02	10
Nitrite as N	<1.00	U	1.00	mg/L			03/04/22 18:02	10
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1340		100	mg/L			03/08/22 16:00	1

Client Sample ID: MW-3

Lab Sample ID: 880-12042-5

Date Collected: 03/03/22 12:30 Matrix: Water

Date Received: 03/04/22 08:46

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			03/12/22 03:46	
Toluene	<0.00200	U	0.00200	mg/L			03/12/22 03:46	
Ethylbenzene	<0.00200	U	0.00200	mg/L			03/12/22 03:46	
m,p-Xylenes	<0.00400	U	0.00400	mg/L			03/12/22 03:46	
o-Xylene	<0.00200	U	0.00200	mg/L			03/12/22 03:46	
Xylenes, Total	<0.00400	U	0.00400	mg/L			03/12/22 03:46	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	92		70 - 130		-		03/12/22 03:46	
4-bromonuorobenzene (Sun)								
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total Analyte	Result	Qualifier	70 - 130 RL	Unit mg//	<u>D</u> .	Prepared	03/12/22 03:46 Analyzed 03/09/23 20:13	Dil Fa
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total Analyte Total BTEX	BTEX Calcula Result <0.00400	Qualifier U		Unit mg/L	<u>D</u> .	Prepared		Dil Fa
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, local	BTEX Calcula Result <0.00400 n Chromatogra	Qualifier U	RL 0.00400	mg/L		•	Analyzed 03/09/22 20:12	
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, local	Result Chromatogra Result 	Qualifier U	RL	mg/L Unit	D .	Prepared Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, local	BTEX Calcula Result <0.00400 n Chromatogra	Qualifier U phy Qualifier	RL 	mg/L Unit mg/L		•	Analyzed 03/09/22 20:12 Analyzed	Dil Fa
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, lot Analyte Chloride	Result 	Qualifier U phy Qualifier U	RL 0.00400 RL 25.0	mg/L Unit		•	Analyzed 03/09/22 20:12 Analyzed 03/04/22 18:24	Dil Fa
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, los Analyte Chloride Nitrate as N	Result -0.00400 n Chromatogra Result 6100 <5.00	Qualifier U phy Qualifier U	RL 0.00400 RL 25.0 5.00	mg/L Unit mg/L mg/L		•	Analyzed 03/09/22 20:12 Analyzed 03/04/22 18:24 03/04/22 18:24	Dil Fa
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, lot Analyte Chloride Nitrate as N Nitrite as N	Result 0.00400 n Chromatogra Result 6100 <5.00 <5.00 	Qualifier U phy Qualifier U	RL 0.00400 RL 25.0 5.00	mg/L Unit mg/L mg/L		•	Analyzed 03/09/22 20:12 Analyzed 03/04/22 18:24 03/04/22 18:24	Dil Fa

Client Sample ID: MW-2

Date Collected: 03/03/22 12:45

Lab Sample ID: 880-12042-6

Matrix: Water

Date Received: 03/04/22 08:46

Method: 8021B - Volat	ile Organic Compo	unds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			03/09/22 10:22	1
Toluene	<0.00200	U	0.00200	mg/L			03/09/22 10:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/L			03/09/22 10:22	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-12042-1 SDG: 19-0112-38 Project/Site: State C Tract 13

Client Sample ID: MW-2 Lab Sample ID: 880-12042-6

Date Collected: 03/03/22 12:45 **Matrix: Water** Date Received: 03/04/22 08:46

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00400	U	0.00400	mg/L			03/09/22 10:22	1
o-Xylene	<0.00200	U	0.00200	mg/L			03/09/22 10:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/L			03/09/22 10:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				03/09/22 10:22	1
1,4-Difluorobenzene (Surr)	113		70 - 130				03/09/22 10:22	1
Method: Total BTEX - Tota	I BTEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/L			03/09/22 20:12	1
Method: 300.0 - Anions, Io	n Chromatogra	phy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3540		25.0	mg/L			03/04/22 19:31	50
Nitrate as N	<5.00	U	5.00	mg/L			03/04/22 19:31	50
Nitrite as N	<5.00	U	5.00	mg/L			03/04/22 19:31	50
General Chemistry								
Contorui Chomiculy								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: RW-7 Lab Sample ID: 880-12042-7

Date Collected: 03/03/22 13:00 **Matrix: Water** Date Received: 03/04/22 08:46

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U *1 *-	0.00200	mg/L			03/10/22 07:57	
Toluene	< 0.00200	U *1 *-	0.00200	mg/L			03/10/22 07:57	
Ethylbenzene	<0.00200	U *1 *-	0.00200	mg/L			03/10/22 07:57	
m,p-Xylenes	<0.00400	U *1 *-	0.00400	mg/L			03/10/22 07:57	
o-Xylene	<0.00200	U *1 *-	0.00200	mg/L			03/10/22 07:57	
Xylenes, Total	<0.00400	U *1 *-	0.00400	mg/L			03/10/22 07:57	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	88		70 - 130		•		03/10/22 07:57	
1,4-Difluorobenzene (Surr)	102		70 - 130				03/10/22 07:57	
·	l BTFX Calcula	tion						
Method: Total BTEX - Tota			RI	Unit	n	Propared	Analyzed	Dil Fa
Method: Total BTEX - Tota		Qualifier	RL 0.00400	Unit mg/L	<u>D</u> .	Prepared	Analyzed 03/09/22 20:12	Dil Fa
Method: Total BTEX - Tota Analyte	Result <0.00400 n Chromatogra	Qualifier U			<u>D</u> .	Prepared Prepared	_ <u></u>	
Method: Total BTEX - Tota Analyte Total BTEX Method: 300.0 - Anions, Io Analyte	Result <0.00400 n Chromatogra	Qualifier U	0.00400	mg/L		•	03/09/22 20:12	Dil Fa
Method: Total BTEX - Tota Analyte Total BTEX Method: 300.0 - Anions, Io Analyte	Result <0.00400 n Chromatogra Result	Qualifier U	0.00400 RL	mg/L Unit		•	03/09/22 20:12 Analyzed	Dil Fa
Method: Total BTEX - Tota Analyte Total BTEX Method: 300.0 - Anions, Io Analyte Chloride	Result <0.00400 n Chromatogra Result 979	Qualifier U uphy Qualifier	0.00400 RL 10.0	mg/L Unit mg/L		•	03/09/22 20:12 Analyzed 03/04/22 19:53	Dil Fa
Method: Total BTEX - Tota Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride Nitrate as N	Result <0.00400	Qualifier U uphy Qualifier	0.00400 RL 10.0 2.00	mg/L Unit mg/L mg/L		•	03/09/22 20:12 Analyzed 03/04/22 19:53 03/04/22 19:53	Dil Fa
Method: Total BTEX - Tota Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride Nitrate as N Nitrite as N	Result <0.00400 n Chromatogra Result 979 6.19 <2.00	Qualifier U uphy Qualifier	0.00400 RL 10.0 2.00	mg/L Unit mg/L mg/L		•	03/09/22 20:12 Analyzed 03/04/22 19:53 03/04/22 19:53	Dil Fa 2 2 2 Dil Fa

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-12042-1 Project/Site: State C Tract 13 SDG: 19-0112-38

Client Sample ID: Dup-1 Lab Sample ID: 880-12042-8

Matrix: Water

Date Collected: 03/03/22 00:00 Date Received: 03/04/22 08:46

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1 *-	0.00200	mg/L			03/10/22 08:24	1
Toluene	<0.00200	U *1 *-	0.00200	mg/L			03/10/22 08:24	1
Ethylbenzene	<0.00200	U *1 *-	0.00200	mg/L			03/10/22 08:24	1
m,p-Xylenes	<0.00400	U *1 *-	0.00400	mg/L			03/10/22 08:24	1
o-Xylene	<0.00200	U *1 *-	0.00200	mg/L			03/10/22 08:24	1
Xylenes, Total	<0.00400	U *1 *-	0.00400	mg/L			03/10/22 08:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				03/10/22 08:24	1
1 1 Differenchemanne (Court	111		70 - 130				03/10/22 08:24	1
		tion	70 - 130				03/10/22 00:24	,
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total Analyte	I BTEX Calcula	tion Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Total	I BTEX Calcula	Qualifier		Unit mg/L	<u>D</u> .	Prepared		Dil Fac
Method: Total BTEX - Total Analyte	I BTEX Calcula Result <0.00400	Qualifier U	RL		<u> </u>	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, lo	I BTEX Calcula Result <0.00400 n Chromatogra	Qualifier U	RL		<u>D</u> .	Prepared Prepared	Analyzed	Dil Fac Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, Io Analyte	I BTEX Calcula Result <0.00400 n Chromatogra	Qualifier U	RL 0.00400	mg/L		•	Analyzed 03/09/22 20:12	1
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride	I BTEX Calcula Result <0.00400 n Chromatogra Result	Qualifier U		mg/L Unit		•	Analyzed 03/09/22 20:12 Analyzed	1 Dil Fac
Method: Total BTEX - Total Analyte Total BTEX	I BTEX Calcula Result <0.00400 n Chromatogra Result 407	Qualifier U phy Qualifier	RL 0.00400 RL 5.00	mg/L Unit mg/L		•	Analyzed 03/09/22 20:12 Analyzed 03/04/22 20:16	1 Dil Fac 10
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride Nitrate as N	I BTEX Calcula Result <0.00400 n Chromatogra Result 407 2.78	Qualifier U phy Qualifier	RL 0.00400	mg/L Unit mg/L mg/L		•	Analyzed 03/09/22 20:12 Analyzed 03/04/22 20:16 03/04/22 20:16	1 Dil Fac 10 10
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride Nitrate as N Nitrite as N	Result <0.00400 n Chromatogra Result 407 2.78 <1.00	Qualifier U phy Qualifier	RL 0.00400	mg/L Unit mg/L mg/L		•	Analyzed 03/09/22 20:12 Analyzed 03/04/22 20:16 03/04/22 20:16	1 Dil Fac 10 10

Surrogate Summary

Client: Larson & Associates, Inc.

Project/Site: State C Tract 13

Job ID: 880-12042-1

SDG: 19-0112-38

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

			Perce	ent Surrogate Recovery (Acceptance Li
		BFB1	DFBZ1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
-11992-A-2 MS	Matrix Spike	80	131 S1+	
-11992-A-2 MSD	Matrix Spike Duplicate	79	118	
-12042-1	MW-5	85	115	
12042-2	MW-6	85	117	
12042-3	MW-1	89	120	
12042-4	MW-4	114	78	
-12042-5	MW-3	92	100	
-12042-6	MW-2	90	113	
12042-7	RW-7	88	102	
12042-8	Dup-1	86	111	
12317-A-1 MS	Matrix Spike	86	111	
12317-A-1 MSD	Matrix Spike Duplicate	29 S1-	123	
2039-A-1 MS	Matrix Spike	77	122	
2039-A-1 MSD	Matrix Spike Duplicate	80	98	
880-21108/3	Lab Control Sample	75	120	
880-21209/34	Lab Control Sample	72	114	
880-21326/34	Lab Control Sample	85	126	
880-21108/4	Lab Control Sample Dup	69 S1-	130	
880-21209/35	Lab Control Sample Dup	87	125	
D 880-21326/35	Lab Control Sample Dup	93	106	
380-21108/8	Method Blank	50 S1-	107	
80-21145/5-A	Method Blank	53 S1-	112	
880-21149/5-A	Method Blank	46 S1-	100	
380-21209/39	Method Blank	51 S1-	108	
880-21326/39	Method Blank	55 S1-	109	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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3

4

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11

12

Client: Larson & Associates, Inc. Job ID: 880-12042-1 Project/Site: State C Tract 13 SDG: 19-0112-38

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21108/8

Matrix: Water

Analysis Batch: 21108

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			03/08/22 12:17	1
Toluene	<0.00200	U	0.00200	mg/L			03/08/22 12:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/L			03/08/22 12:17	1
m,p-Xylenes	<0.00400	U	0.00400	mg/L			03/08/22 12:17	1
o-Xylene	<0.00200	U	0.00200	mg/L			03/08/22 12:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/L			03/08/22 12:17	1

MB MB %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 50 S1-70 - 130 4-Bromofluorobenzene (Surr) 03/08/22 12:17 1,4-Difluorobenzene (Surr) 107 70 - 130 03/08/22 12:17

Lab Sample ID: LCS 880-21108/3

Matrix: Water

Analysis Batch: 21108

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

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 97 70 - 130 0.100 0.09727 mg/L Toluene 0.100 0.07916 79 70 - 130 mg/L Ethylbenzene 0.100 0.08586 mg/L 86 70 - 130 m,p-Xylenes 0.200 0.1748 mg/L 87 70 - 130 o-Xylene 0.100 0.08623 70 - 130 mg/L

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 75 1,4-Difluorobenzene (Surr) 120 70 - 130

Lab Sample ID: LCSD 880-21108/4

Matrix: Water

Analysis Batch: 21108

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09853		mg/L		99	70 - 130	1	20
Toluene	0.100	0.07709		mg/L		77	70 - 130	3	20
Ethylbenzene	0.100	0.09049		mg/L		90	70 - 130	5	20
m,p-Xylenes	0.200	0.1832		mg/L		92	70 - 130	5	20
o-Xylene	0.100	0.08930		mg/L		89	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130
1,4-Difluorobenzene (Surr)	130		70 - 130

Lab Sample ID: 880-11992-A-2 MS

Matrix: Water

Analysis Batch: 21108

Client Sample ID:	Matrix Spike
Prep Ty	/pe: Total/NA

•	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.1083		mg/L		108	70 - 130	
Toluene	<0.00200	U	0.100	0.08896		mg/L		89	70 - 130	

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Lab Sample ID: 880-11992-A-2 MS

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-12042-1 Project/Site: State C Tract 13 SDG: 19-0112-38

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

131 S1+

Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Water

Analysis Batch: 21108

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.100	0.09693		mg/L		97	70 - 130	
m,p-Xylenes	<0.00400	U	0.200	0.1977		mg/L		99	70 - 130	
o-Xylene	<0.00200	U	0.100	0.09580		mg/L		96	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	80		70 - 130							

70 - 130

Lab Sample ID: 880-11992-A-2 MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 21108

1,4-Difluorobenzene (Surr)

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.08841		mg/L		88	70 - 130	20	25
Toluene	<0.00200	U	0.100	0.08291		mg/L		83	70 - 130	7	25
Ethylbenzene	<0.00200	U	0.100	0.09142		mg/L		91	70 - 130	6	25
m,p-Xylenes	<0.00400	U	0.200	0.1859		mg/L		93	70 - 130	6	25
o-Xylene	<0.00200	U	0.100	0.09071		mg/L		91	70 - 130	5	25

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	79		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: MB 880-21145/5-A **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA**

Analysis Batch: 21326

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L		03/10/22 12:54	03/11/22 12:51	1
Toluene	<0.00200	U	0.00200	mg/L		03/10/22 12:54	03/11/22 12:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/L		03/10/22 12:54	03/11/22 12:51	1
m,p-Xylenes	<0.00400	U	0.00400	mg/L		03/10/22 12:54	03/11/22 12:51	1
o-Xylene	<0.00200	U	0.00200	mg/L		03/10/22 12:54	03/11/22 12:51	1
Xylenes, Total	<0.00400	U	0.00400	mg/L		03/10/22 12:54	03/11/22 12:51	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	53	S1-	70 - 130	03/10/22 12:54	03/11/22 12:51	1
1,4-Difluorobenzene (Surr)	112		70 - 130	03/10/22 12:54	03/11/22 12:51	1

Lab Sample ID: MB 880-21149/5-A **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA**

MD MD

Analysis Batch: 21209

	INIB	MB					
Analyte	Result	Qualifier	RL	Unit I	D Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L	03/09/22 08:30	03/09/22 15:28	1
Toluene	<0.00200	U	0.00200	mg/L	03/09/22 08:30	03/09/22 15:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/L	03/09/22 08:30	03/09/22 15:28	1
m,p-Xylenes	<0.00400	U	0.00400	mg/L	03/09/22 08:30	03/09/22 15:28	1
	Benzene Toluene Ethylbenzene	Analyte Result Benzene <0.00200 Toluene <0.00200 Ethylbenzene <0.00200	Analyte Result Qualifier Benzene <0.00200 U Toluene <0.00200 U Ethylbenzene <0.00200 U	Benzene <0.00200	Analyte Result Qualifier RL Unit ID Benzene <0.00200 U 0.00200 mg/L Toluene <0.00200 U 0.00200 mg/L Ethylbenzene <0.00200 U 0.00200 mg/L	Analyte Result Qualifier RL Unit D Prepared Benzene <0.00200 U 0.00200 mg/L 03/09/22 08:30 Toluene <0.00200 U 0.00200 mg/L 03/09/22 08:30 Ethylbenzene <0.00200 U 0.00200 mg/L 03/09/22 08:30	Analyte Result Qualifier RL Unit D Prepared Analyzed Benzene <0.00200 U 0.00200 mg/L 03/09/22 08:30 03/09/22 15:28 Toluene <0.00200 U 0.00200 mg/L 03/09/22 08:30 03/09/22 15:28 Ethylbenzene <0.00200 U 0.00200 mg/L 03/09/22 08:30 03/09/22 15:28

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Prep Batch: 21149

Prep Batch: 21145

Client: Larson & Associates, Inc. Project/Site: State C Tract 13

Job ID: 880-12042-1 SDG: 19-0112-38

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

100

Lab Sample ID: MB 880-21149/5-A

Matrix: Water

Analysis Batch: 21209

Client	Sample	ID: N	lethod	В	lan	k

Prep Type: Total/NA

Prep Batch: 21149

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/L		03/09/22 08:30	03/09/22 15:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/L		03/09/22 08:30	03/09/22 15:28	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	46	S1-	70 - 130			03/09/22 08:30	03/09/22 15:28	1
	o-Xylene Xylenes, Total Surrogate	Analyte Result o-Xylene <0.00200	o-Xylene <0.00200 U Xylenes, Total <0.00400	Analyte Result o-Xylene Qualifier value RL value o-Xylene <0.00200	Analyte Result o-Xylene Qualifier value RL value Unit value value <0.00200 U 0.00200 value	Analyte Result o-Xylene Qualifier o-Xylene RL o-Xylene Unit o-Xylene Dool of o-Xylene Xylenes, Total <0.00400 U 0.00400	Analyte Result o-Xylene Qualifier o-Xylene RL o-Xylene Unit o-Xylene D o-Xylene o-Xylene Co.00200 o-Xylene Unit o-Xylene D o-Xylene o-Xylene D o-Xylene o-Xylene Mg/L o-Xylenes O3/09/22 08:30 Xylenes, Total MB MB MB WB Surrogate YRecovery o-Xylene Limits Prepared	Analyte Result o-Xylene Qualifier RL o-Xylene Unit opening D opening Prepared opening Analyzed opening Xylenes, Total < 0.00400

70 - 130

Client Sample ID: Method Blank

03/09/22 08:30 03/09/22 15:28

Prep Type: Total/NA

Analysis Batch: 21209

Lab Sample ID: MB 880-21209/39

1,4-Difluorobenzene (Surr)

Matrix: Water

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/L 03/10/22 05:16 Toluene 03/10/22 05:16 <0.00200 U 0.00200 mg/L Ethylbenzene <0.00200 U 0.00200 03/10/22 05:16 mg/L m,p-Xylenes <0.00400 U 0.00400 mg/L 03/10/22 05:16 o-Xylene <0.00200 U 0.00200 mg/L 03/10/22 05:16 Xylenes, Total <0.00400 U 0.00400 03/10/22 05:16 mg/L

MB MB Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) S1-70 - 130 03/10/22 05:16 51 1,4-Difluorobenzene (Surr) 108 70 - 130 03/10/22 05:16

Lab Sample ID: LCS 880-21209/34

Matrix: Water

Analysis Batch: 21209

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

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.05586	*_	mg/L		56	70 - 130	
Toluene	0.100	0.05103	*-	mg/L		51	70 - 130	
Ethylbenzene	0.100	0.05596	*-	mg/L		56	70 - 130	
m,p-Xylenes	0.200	0.1148	*_	mg/L		57	70 - 130	
o-Xylene	0.100	0.05962	*_	mg/L		60	70 - 130	

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 72 1,4-Difluorobenzene (Surr) 114 70 - 130

Lab Sample ID: LCSD 880-21209/35

Matrix: Water

Analysis Batch: 21209

Client Sample ID: Lab	Control Sample Dup
	Pren Type: Total/NA

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09619	*1	mg/L		96	70 - 130	53	20
Toluene	0.100	0.08756	*1	mg/L		88	70 - 130	53	20
Ethylbenzene	0.100	0.09130	*1	mg/L		91	70 - 130	48	20
m,p-Xylenes	0.200	0.1871	*1	mg/L		94	70 - 130	48	20
o-Xylene	0.100	0.09391	*1	mg/L		94	70 - 130	45	20

Client: Larson & Associates, Inc. Job ID: 880-12042-1 Project/Site: State C Tract 13 SDG: 19-0112-38

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	125		70 - 130

Lab Sample ID: 890-2039-A-1 MS **Client Sample ID: Matrix Spike Matrix: Water** Prep Type: Total/NA

Analysis Batch: 21209

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *1 *-	0.100	0.1066		mg/L		107	70 - 130	
Toluene	<0.00200	U *1 *-	0.100	0.08202		mg/L		82	70 - 130	
Ethylbenzene	<0.00200	U *1 *-	0.100	0.08373		mg/L		84	70 - 130	
m,p-Xylenes	<0.00400	U *1 *-	0.200	0.1700		mg/L		85	70 - 130	
o-Xylene	<0.00200	U *1 *-	0.100	0.08653		mg/L		87	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 77 1,4-Difluorobenzene (Surr) 70 - 130 122

Lab Sample ID: 890-2039-A-1 MSD

Matrix: Water

Analysis Batch: 21209

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U *1 *-	0.100	0.08971		mg/L		90	70 - 130	17	25
Toluene	<0.00200	U *1 *-	0.100	0.08082		mg/L		81	70 - 130	1	25
Ethylbenzene	<0.00200	U *1 *-	0.100	0.08336		mg/L		83	70 - 130	0	25
m,p-Xylenes	<0.00400	U *1 *-	0.200	0.1706		mg/L		85	70 - 130	0	25
o-Xylene	<0.00200	U *1 *-	0.100	0.08689		mg/L		87	70 - 130	0	25

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 80 70 - 130 1,4-Difluorobenzene (Surr) 98 70 - 130

Lab Sample ID: MB 880-21326/39 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 21326

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			03/12/22 02:52	1
Toluene	<0.00200	U	0.00200	mg/L			03/12/22 02:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/L			03/12/22 02:52	1
m,p-Xylenes	<0.00400	U	0.00400	mg/L			03/12/22 02:52	1
o-Xylene	<0.00200	U	0.00200	mg/L			03/12/22 02:52	1
Xylenes, Total	<0.00400	U	0.00400	mg/L			03/12/22 02:52	1

	MB	MB					
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130	_		03/12/22 02:52	1
1,4-Difluorobenzene (Surr)	109		70 - 130			03/12/22 02:52	1

Lab Sample ID: LCS 880-21326/34

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-12042-1 Project/Site: State C Tract 13 SDG: 19-0112-38

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Matrix: Water Analysis Batch: 21326

	Бріке	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09331		mg/L		93	70 - 130	
Toluene	0.100	0.07824		mg/L		78	70 - 130	
Ethylbenzene	0.100	0.08422		mg/L		84	70 - 130	
m,p-Xylenes	0.200	0.1721		mg/L		86	70 - 130	
o-Xylene	0.100	0.08781		mg/L		88	70 - 130	

LCS LCS Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene (Surr) 85 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 126 **Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 880-21326/35

Matrix: Water Analysis Batch: 21326

,, c.c = a.c = . c= c									
_	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08664		mg/L		87	70 - 130	7	20
Toluene	0.100	0.08284		mg/L		83	70 - 130	6	20
Ethylbenzene	0.100	0.08893		mg/L		89	70 - 130	5	20
m,p-Xylenes	0.200	0.1823		mg/L		91	70 - 130	6	20
o-Xylene	0.100	0.09321		mg/L		93	70 - 130	6	20

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 93 70 - 130 1,4-Difluorobenzene (Surr) 106 70 - 130

Lab Sample ID: 880-12317-A-1 MS **Client Sample ID: Matrix Spike Matrix: Water** Prep Type: Total/NA

Analysis Batch: 21326

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.00629	F1	0.100	0.09463		mg/L		88	70 - 130	
Toluene	<0.00200	U F1 F2	0.100	0.08026		mg/L		80	70 - 130	
Ethylbenzene	<0.00200	U F1 F2	0.100	0.08808		mg/L		88	70 - 130	
m,p-Xylenes	<0.00400	U F1 F2	0.200	0.1783		mg/L		89	70 - 130	
o-Xylene	<0.00200	U F1 F2	0.100	0.09119		mg/L		91	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-12317-A-1 MSD **Client Sample ID: Matrix Spike Duplicate** Prep Type: Total/NA

Matrix: Water Analysis Batch: 21326

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.00629	F1	0.100	0.07369	F1	mg/L		67	70 - 130	25	25
Toluene	<0.00200	U F1 F2	0.100	0.05130	F1 F2	mg/L		51	70 - 130	44	25
Ethylbenzene	<0.00200	U F1 F2	0.100	0.06071	F1 F2	mg/L		61	70 - 130	37	25

Client: Larson & Associates, Inc. Job ID: 880-12042-1 Project/Site: State C Tract 13 SDG: 19-0112-38

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-12317-A-1 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 21326

_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
m,p-Xylenes	<0.00400	U F1 F2	0.200	0.1230	F1 F2	mg/L		61	70 - 130	37	25
o-Xylene	<0.00200	U F1 F2	0.100	0.06326	F1 F2	mg/L		63	70 - 130	36	25

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 29 S1-70 - 130 1,4-Difluorobenzene (Surr) 123 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20891/3 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 20891

MR MR

		1410						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500	mg/L			03/04/22 14:25	1

Lab Sample ID: LCS 880-20891/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA **Matrix: Water**

Analysis Batch: 20891

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 25.0 25.67 mg/L 103 90 - 110

Lab Sample ID: LCSD 880-20891/5 **Client Sample ID: Lab Control Sample Dup Matrix: Water** Prep Type: Total/NA

Analysis Batch: 20891

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	25.0	25.82		mg/L		103	90 - 110		20	

Lab Sample ID: 880-12042-1 MS

Matrix: Water

Analysis Batch: 20891

-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	100		250	358 6		ma/l		103	90 - 110	

Lab Sample ID: 880-12042-1 MSD **Client Sample ID: MW-5** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 20891

•	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	100		250	374.2		mg/L		110	90 - 110	4	20

Lab Sample ID: MB 880-20892/3 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 20892

Released to Imaging: 1/6/2025 3:33:22 PM

•	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.100	U	0.100	mg/L			03/04/22 14:25	1

Eurofins Midland

Client Sample ID: MW-5

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: MW-5

Client Sample ID: MW-5

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-12042-1 Project/Site: State C Tract 13 SDG: 19-0112-38

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-20892/3

Matrix: Water

Analysis Batch: 20892

MB MB

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac 0 100 Nitrite as N <0.100 U mg/L 03/04/22 14:25

Lab Sample ID: LCS 880-20892/4

Matrix: Water

Analysis Batch: 20892

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 5.00 Nitrate as N 5.328 90 - 110 mg/L 107 Nitrite as N 5.00 5.377 mg/L 108 90 - 110

Lab Sample ID: LCSD 880-20892/5

Matrix: Water

Analysis Batch: 20892

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Nitrate as N 5.00 5.359 mg/L 107 90 - 110 20 Nitrite as N 5.00 mg/L 108 90 - 110 20 5.421

Lab Sample ID: 880-12042-1 MS

Matrix: Water

Analysis Batch: 20892

Alialysis Datcii. 20032										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrate as N	1.63		50.0	50.68		mg/L		98	90 - 110	
Nitrite as N	<1.00	U	50.0	52.79		mg/L		106	90 - 110	

Lab Sample ID: 880-12042-1 MSD

Matrix: Water

Analysis Batch: 20892

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate as N	1.63		50.0	54.21		mg/L		105	90 - 110	7	20
Nitrite as N	<1.00	U	50.0	54.51		mg/L		109	90 - 110	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 830-788/1

Matrix: Water

Analysis Batch: 788

	мв мв						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0 U	25.0	mg/L			03/08/22 16:00	1

Lab Sample ID: LCS 830-788/2

Matrix: Water

Analysis Batch: 788

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Dissolved Solids	 1000	1009		mg/L		101	90 - 110	

Eurofins Midland

3/14/2022

Client: Larson & Associates, Inc.

Project/Site: State C Tract 13

Job ID: 880-12042-1

SDG: 19-0112-38

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 830-788/3

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 788

LCSD LCSD **RPD** Spike %Rec. Added Result Qualifier Analyte Unit D %Rec Limits RPD Limit Total Dissolved Solids 1000 1010 mg/L 101 90 - 110 0

Lab Sample ID: 880-12042-7 DU

Client Sample ID: RW-7

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 788

RPD Sample Sample DU DU **Analyte Result Qualifier** Result Qualifier Unit D RPD Limit **Total Dissolved Solids** 1970 1908 3 10 mg/L

Eurofins Midland

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QC Association Summary

Client: Larson & Associates, Inc.

Project/Site: State C Tract 13

Job ID: 880-12042-1

SDG: 19-0112-38

GC VOA

Analy	'SiS	Batc	h:	211	08

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12042-1	MW-5	Total/NA	Water	8021B	
880-12042-2	MW-6	Total/NA	Water	8021B	
880-12042-3	MW-1	Total/NA	Water	8021B	
880-12042-4	MW-4	Total/NA	Water	8021B	
880-12042-6	MW-2	Total/NA	Water	8021B	
MB 880-21108/8	Method Blank	Total/NA	Water	8021B	
LCS 880-21108/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-21108/4	Lab Control Sample Dup	Total/NA	Water	8021B	
880-11992-A-2 MS	Matrix Spike	Total/NA	Water	8021B	
880-11992-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Prep Batch: 21145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21145/5-A	Method Blank	Total/NA	Water	5035	

Prep Batch: 21149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21149/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 21209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12042-7	RW-7	Total/NA	Water	8021B	
880-12042-8	Dup-1	Total/NA	Water	8021B	
MB 880-21149/5-A	Method Blank	Total/NA	Water	8021B	21149
MB 880-21209/39	Method Blank	Total/NA	Water	8021B	
LCS 880-21209/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-21209/35	Lab Control Sample Dup	Total/NA	Water	8021B	
890-2039-A-1 MS	Matrix Spike	Total/NA	Water	8021B	
890-2039-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Analysis Batch: 21270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12042-1	MW-5	Total/NA	Water	Total BTEX	
880-12042-2	MW-6	Total/NA	Water	Total BTEX	
880-12042-3	MW-1	Total/NA	Water	Total BTEX	
880-12042-4	MW-4	Total/NA	Water	Total BTEX	
880-12042-5	MW-3	Total/NA	Water	Total BTEX	
880-12042-6	MW-2	Total/NA	Water	Total BTEX	
880-12042-7	RW-7	Total/NA	Water	Total BTEX	
880-12042-8	Dup-1	Total/NA	Water	Total BTEX	

Analysis Batch: 21326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12042-5	MW-3	Total/NA	Water	8021B	
MB 880-21145/5-A	Method Blank	Total/NA	Water	8021B	21145
MB 880-21326/39	Method Blank	Total/NA	Water	8021B	
LCS 880-21326/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-21326/35	Lab Control Sample Dup	Total/NA	Water	8021B	
880-12317-A-1 MS	Matrix Spike	Total/NA	Water	8021B	
880-12317-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Eurofins Midland

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QC Association Summary

Job ID: 880-12042-1 Client: Larson & Associates, Inc. Project/Site: State C Tract 13 SDG: 19-0112-38

HPLC/IC

Analysis Batch: 20891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12042-1	MW-5	Total/NA	Water	300.0	
880-12042-2	MW-6	Total/NA	Water	300.0	
880-12042-3	MW-1	Total/NA	Water	300.0	
880-12042-4	MW-4	Total/NA	Water	300.0	
880-12042-5	MW-3	Total/NA	Water	300.0	
880-12042-6	MW-2	Total/NA	Water	300.0	
880-12042-7	RW-7	Total/NA	Water	300.0	
880-12042-8	Dup-1	Total/NA	Water	300.0	
MB 880-20891/3	Method Blank	Total/NA	Water	300.0	
LCS 880-20891/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-20891/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-12042-1 MS	MW-5	Total/NA	Water	300.0	
880-12042-1 MSD	MW-5	Total/NA	Water	300.0	

Analysis Batch: 20892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12042-1	MW-5	Total/NA	Water	300.0	
880-12042-2	MW-6	Total/NA	Water	300.0	
880-12042-3	MW-1	Total/NA	Water	300.0	
880-12042-4	MW-4	Total/NA	Water	300.0	
880-12042-5	MW-3	Total/NA	Water	300.0	
880-12042-6	MW-2	Total/NA	Water	300.0	
880-12042-7	RW-7	Total/NA	Water	300.0	
880-12042-8	Dup-1	Total/NA	Water	300.0	
MB 880-20892/3	Method Blank	Total/NA	Water	300.0	
LCS 880-20892/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-20892/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-12042-1 MS	MW-5	Total/NA	Water	300.0	
880-12042-1 MSD	MW-5	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12042-1	MW-5	Total/NA	Water	SM 2540C	
880-12042-2	MW-6	Total/NA	Water	SM 2540C	
880-12042-3	MW-1	Total/NA	Water	SM 2540C	
880-12042-4	MW-4	Total/NA	Water	SM 2540C	
880-12042-5	MW-3	Total/NA	Water	SM 2540C	
880-12042-6	MW-2	Total/NA	Water	SM 2540C	
880-12042-7	RW-7	Total/NA	Water	SM 2540C	
880-12042-8	Dup-1	Total/NA	Water	SM 2540C	
MB 830-788/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 830-788/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 830-788/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-12042-7 DU	RW-7	Total/NA	Water	SM 2540C	

Job ID: 880-12042-1

SDG: 19-0112-38

Client Sample ID: MW-5

Project/Site: State C Tract 13

Client: Larson & Associates, Inc.

Date Collected: 03/03/22 10:40 Date Received: 03/04/22 08:46

Lab Sample ID: 880-12042-1

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21108	03/08/22 20:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21270	03/09/22 20:12	AJ	XEN MID
Total/NA	Analysis	300.0		10			20891	03/04/22 15:32	СН	XEN MID
Total/NA	Analysis	300.0		10			20892	03/04/22 15:32	СН	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	788	03/08/22 16:00	LR	XEN EP

Lab Sample ID: 880-12042-2

Client Sample ID: MW-6 Date Collected: 03/03/22 11:00 **Matrix: Water**

Date Received: 03/04/22 08:46

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21108	03/08/22 20:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21270	03/09/22 20:12	AJ	XEN MID
Total/NA	Analysis	300.0		10			20891	03/04/22 16:39	СН	XEN MID
Total/NA	Analysis	300.0		10			20892	03/04/22 16:39	СН	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	788	03/08/22 16:00	LR	XEN EP

Client Sample ID: MW-1 Lab Sample ID: 880-12042-3 Date Collected: 03/03/22 11:30 **Matrix: Water**

Date Received: 03/04/22 08:46

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21108	03/08/22 21:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21270	03/09/22 20:12	AJ	XEN MID
Total/NA	Analysis	300.0		10			20891	03/04/22 17:01	СН	XEN MID
Total/NA	Analysis	300.0		10			20892	03/04/22 17:01	СН	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	788	03/08/22 16:00	LR	XEN EP

Lab Sample ID: 880-12042-4 Client Sample ID: MW-4 Date Collected: 03/03/22 12:05

Date Received: 03/04/22 08:46

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21108	03/09/22 07:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21270	03/09/22 20:12	AJ	XEN MID
Total/NA	Analysis	300.0		10			20891	03/04/22 18:02	СН	XEN MID
Total/NA	Analysis	300.0		10			20892	03/04/22 18:02	СН	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	788	03/08/22 16:00	LR	XEN EP

Eurofins Midland

Matrix: Water

Lab Chronicle

Client: Larson & Associates, Inc.

Project/Site: State C Tract 13

Job ID: 880-12042-1

SDG: 19-0112-38

Client Sample ID: MW-3

Date Collected: 03/03/22 12:30 Date Received: 03/04/22 08:46 Lab Sample ID: 880-12042-5

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21326	03/12/22 03:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21270	03/09/22 20:12	AJ	XEN MID
Total/NA	Analysis	300.0		50			20891	03/04/22 18:24	СН	XEN MID
Total/NA	Analysis	300.0		50			20892	03/04/22 18:24	СН	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	1000 mL	788	03/08/22 16:00	LR	XEN EP

Client Sample ID: MW-2

Date Collected: 03/03/22 12:45

Lab Sample ID: 880-12042-6

Matrix: Water

Date Received: 03/04/22 08:46

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21108	03/09/22 10:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21270	03/09/22 20:12	AJ	XEN MID
Total/NA	Analysis	300.0		50			20891	03/04/22 19:31	СН	XEN MID
Total/NA	Analysis	300.0		50			20892	03/04/22 19:31	СН	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	1000 mL	788	03/08/22 16:00	LR	XEN EP

Client Sample ID: RW-7

Date Collected: 03/03/22 13:00

Lab Sample ID: 880-12042-7

Matrix: Water

Date Received: 03/04/22 08:46

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21209	03/10/22 07:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21270	03/09/22 20:12	AJ	XEN MID
Total/NA	Analysis	300.0		20			20891	03/04/22 19:53	СН	XEN MID
Total/NA	Analysis	300.0		20			20892	03/04/22 19:53	СН	XEN MID
Total/NA	Analysis	SM 2540C		1	25 mL	1000 mL	788	03/08/22 16:00	LR	XEN EP

Client Sample ID: Dup-1

Date Collected: 03/03/22 00:00

Lab Sample ID: 880-12042-8

Matrix: Water

Date Received: 03/04/22 08:46

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21209	03/10/22 08:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21270	03/09/22 20:12	AJ	XEN MID
Total/NA	Analysis	300.0		10			20891	03/04/22 20:16	СН	XEN MID
Total/NA	Analysis	300.0		10			20892	03/04/22 20:16	СН	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	788	03/08/22 16:00	LR	XEN EP

Laboratory References:

XEN EP = Eurofins El Paso, 200 East Sunset Rd., Suite E, El Paso, TX 79922, TEL (915)585-3443 XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.

Project/Site: State C Tract 13

Job ID: 880-12042-1
SDG: 19-0112-38

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		ogram	Identification Number	Expiration Date
Texas	NELAP T104704400-21-22		06-30-22	
,	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for wh
The following analyte the agency does not o	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for wh
,	•	ort, but the laboratory is r Matrix	not certified by the governing authority. Analyte	This list may include analytes for wh

Laboratory: Eurofins El Paso

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704221-21-19	04-30-22

Eurofins Midland

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Method Summary

Client: Larson & Associates, Inc. Project/Site: State C Tract 13

Job ID: 880-12042-1 SDG: 19-0112-38

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN EP
5030B	Purge and Trap	SW846	XEN MID

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN EP = Eurofins El Paso, 200 East Sunset Rd., Suite E, El Paso, TX 79922, TEL (915)585-3443 XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc. Project/Site: State C Tract 13

Job ID: 880-12042-1

SDG: 19-0112-38

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-12042-1	MW-5	Water	03/03/22 10:40	03/04/22 08:46
880-12042-2	MW-6	Water	03/03/22 11:00	03/04/22 08:46
880-12042-3	MW-1	Water	03/03/22 11:30	03/04/22 08:46
880-12042-4	MW-4	Water	03/03/22 12:05	03/04/22 08:46
880-12042-5	MW-3	Water	03/03/22 12:30	03/04/22 08:46
880-12042-6	MW-2	Water	03/03/22 12:45	03/04/22 08:46
880-12042-7	RW-7	Water	03/03/22 13:00	03/04/22 08:46
880-12042-8	Dup-1	Water	03/03/22 00:00	03/04/22 08:46

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

1 DAY 🔲 2 DAY 🔲 OTHER 🔲

HAND DELIVERED

CARRIER BILL#

CUSTODY SEALS - DI BROKEN D'INTACT DI NOT USED

NORMAL N

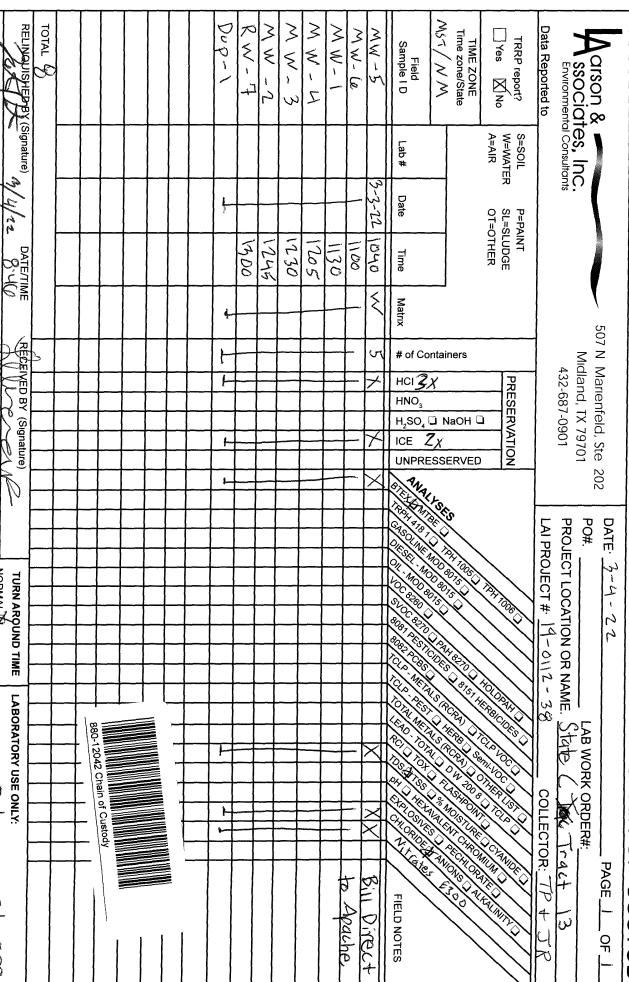
RECEIVING TEMP SAUSS

THERM#

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LABORATORY

RELINQUISHED BY (Signature)



Midland, TX 79701

1211 W. Florida Ave

Eurofins Midland

Environment Testing

Note. Since laboratory accreditations are subject to change. Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC alboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC Dup-1 (880-12042-8) RW-7 (880-12042-7) MW-3 (880-12042-5) MW-4 (880-12042-4) MW-5 (880-12042-1) State, Zip TX, 79922 El Paso Empty Kit Relinquished by: Deliverable Requested: I, II, III, IV, Other (specify) MW-2 (880-12042-6) MW-1 (880-12042-3) Sample Identification - Client ID (Lab ID) Possible Hazard Identification MW-6 (880-12042-2) state c tract 13 915-585-3443(Tel) Phone: 432-704-5440 200 East Sunset Rd. Client Information elinquished by Eurofins Environment Testing South Cente Shipping/Receiving Custody Seals Intact: linquished by nconfirmed linquished by ect Name Yes ∆ No (Sub Contract Lab) Suite E. Custody Seal No 5 Date/Time Date/Time Date/Time Primary Deliverable Rank: 2 WO# TAT Requested (days) Phone Sampler 88000515 3/8/2022 Due Date Requested: Sample Date 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 Mountain 12:05 Date Mountain 12:45 Mountain 13:00 Mountain 12:30 Mountain 11:30 Mountain 11:00 Mountain Mountain Sample (C=comp, G=grab) Sample Preservation Code: Type Company Company Company Matrix Water Water Water Water Water Water Water Water Lab PM: Taylor, Holly holly.taylor@eurofinset.com E-Mail: Fleld Filtered Sample (Yes or No) lime NELAP - Texas Perform MS/MSD (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Monte Special Instructions/QC Requirements Return To Client 2540C_Calcd Received by Cooler Temperature(s) °C and Other Remarks × × \times × × × × × ons Required (See note) Analysis Requested New Mexico State of Origin Carrier Tracking No(s) Method of Shipment Date/Time Date/Time -----Total Number of containers A - HCL
B - NaOH
C - Zn Acetale
C - Zn Acetale
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid J - DI Water K - EDTA L - EDA COC No 880-3943.1 Page 1 of 1 Preservation Codes: 380-12042-1 Special Instructions/Note: . V - MCAA W - pH 4-5 Z - other (sp Q - Na2SO3 R - Na2S2O3 O - ASNAO2 P - Na2O4S T - TSP Dodecahydrate S - H2SO4 N - None other (specify) er: 06 08 2021 Months

Login Sample Receipt Checklist

Job Number: 880-12042-1 Client: Larson & Associates, Inc.

SDG Number: 19-0112-38

Login Number: 12042 **List Source: Eurofins Midland**

List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Eurofins Midland

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Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-12042-1

SDG Number: 19-0112-38

List Source: Eurofins El Paso

List Creation: 03/08/22 10:37 AM

List Number: 2 Creator: Aparicio, Niria

Login Number: 12042

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

Eurofins Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-15252-1

Laboratory Sample Delivery Group: 19-0112-38

Client Project/Site: State C Tract #13

For:

Larson & Associates, Inc. 507 N Marienfeld Suite 202 Midland, Texas 79701

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by: 6/3/2022 2:44:44 PM

Holly Taylor, Project Manager (806)794-1296

Holly.Taylor@et.eurofinsus.com

LINKS

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

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

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Client: Larson & Associates, Inc.

Project/Site: State C Tract #13

Laboratory Job ID: 880-15252-1 SDG: 19-0112-38

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-15252-1 Project/Site: State C Tract #13 SDG: 19-0112-38

Qualifiers

GC VO	Α
Qualifier	

*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualitier	Qualifier Description
Н	Sample was prepped or analyzed beyond the specified holding time

Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.					
n	Listed under the "D" column to designate that the result is reported on a dry weight basis					
%R	Percent Recovery					
CFL	Contains Free Liquid					
CFU	Colony Forming Unit					
CNF	Contains No Free Liquid					
DER	Duplicate Error Ratio (normalized absolute difference)					
Dil Faa	Dilution Forton					

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc. Project/Site: State C Tract #13

Job ID: 880-15252-1

SDG: 19-0112-38

Job ID: 880-15252-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-15252-1

Comments

No additional comments.

Receipt

The samples were received on 5/27/2022 8:54 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.1° C.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 880-26646 recovered outside control limits for the following analytes: MTBE.

Method 8021B: The matrix spike duplicate (MSD) recoveries for analytical batch 880-26723 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: MW-2 (880-15252-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 880-26723 recovered outside control limits for the following analytes: m,p-Xylenes, o-Xylene and Xylenes, Total.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The following sample was analyzed outside of analytical holding time due to no sampling time listed to indicate holding time.: Dup-1 (880-15252-7).

Method 300.0: Reanalysis of the following samples were performed outside of the analytical holding time due to additional ordered analytes requiring dilution.: MW-5 (880-15252-1), MW-6 (880-15252-2), MW-1 (880-15252-3), MW-4 (880-15252-4), MW-3 (880-15252-5), RW-1 (880-15252-6), Dup-1 (880-15252-7) and MW-2 (880-15252-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Eurofins Midland 6/3/2022

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-15252-1 Project/Site: State C Tract #13 SDG: 19-0112-38

Client Sample ID: MW-5 Lab Sample ID: 880-15252-1

Date Collected: 05/26/22 10:05 **Matrix: Water** Date Received: 05/27/22 08:54

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0400	U	0.0400	mg/L			06/02/22 22:42	20
Toluene	<0.0400	U	0.0400	mg/L			06/02/22 22:42	20
Ethylbenzene	<0.0400	U	0.0400	mg/L			06/02/22 22:42	20
m,p-Xylenes	<0.0800	U *1	0.0800	mg/L			06/02/22 22:42	20
o-Xylene	< 0.0400	U *1	0.0400	mg/L			06/02/22 22:42	20
Xylenes, Total	<0.0800	U *1	0.0800	mg/L			06/02/22 22:42	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				06/02/22 22:42	20
1,4-Difluorobenzene (Surr)	98		70 - 130				06/02/22 22:42	20
- 1,4-Dilluolobelizelle (Sull)	90		70 - 130				00/02/22 22.42	20
Method: Total BTEX - Total		tion	70 - 130				00/02/22 22.42	20
- '	l BTEX Calcula	tion Qualifier	70 - 730 RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Total	l BTEX Calcula	Qualifier		Unit mg/L	<u>D</u> .	Prepared		
Method: Total BTEX - Total Analyte	I BTEX Calcula Result <0.0800	Qualifier U	RL		<u>D</u> .	Prepared	Analyzed	
Method: Total BTEX - Total Analyte Total BTEX	I BTEX Calcula Result <0.0800 n Chromatogra	Qualifier U	RL		D .	Prepared Prepared	Analyzed	
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, Io	I BTEX Calcula Result <0.0800 n Chromatogra	Qualifier U	RL 0.0800	mg/L		•	Analyzed 06/02/22 12:45	Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, Io Analyte	I BTEX Calcula Result <0.0800 n Chromatogra Result	Qualifier U phy Qualifier	RL	mg/L Unit		•	Analyzed 06/02/22 12:45 Analyzed	Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, Io Analyte Chloride	I BTEX Calcula Result <0.0800 n Chromatogra Result 101	Qualifier U uphy Qualifier U	RL 0.0800 RL 0.500	mg/L Unit mg/L		•	Analyzed 06/02/22 12:45 Analyzed 05/28/22 03:41	Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride Nitrate as N	I BTEX Calcula Result <0.0800 n Chromatogra Result 101 <0.100	Qualifier U uphy Qualifier U	RL 0.500 0.100	mg/L Unit mg/L mg/L		•	Analyzed 06/02/22 12:45 Analyzed 05/28/22 03:41 05/28/22 03:41	Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride Nitrate as N Nitrite as N	I BTEX Calcula Result <0.0800 n Chromatogra Result 101 <0.100 <0.100	Qualifier U uphy Qualifier U	RL 0.500 0.100	mg/L Unit mg/L mg/L		•	Analyzed 06/02/22 12:45 Analyzed 05/28/22 03:41 05/28/22 03:41	Dil Fac

Lab Sample ID: 880-15252-2 **Client Sample ID: MW-6** Date Collected: 05/26/22 10:20 **Matrix: Water**

Date Received: 05/27/22 08:54

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			06/02/22 08:54	1
Toluene	<0.00200	U	0.00200	mg/L			06/02/22 08:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/L			06/02/22 08:54	1
m,p-Xylenes	<0.00400	U	0.00400	mg/L			06/02/22 08:54	1
o-Xylene	<0.00200	U	0.00200	mg/L			06/02/22 08:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/L			06/02/22 08:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				06/02/22 08:54	1
1,4-Difluorobenzene (Surr)	97		70 - 130				06/02/22 08:54	1
Method: Total BTEX - Total	BTEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/L			06/02/22 12:45	1
Method: 300.0 - Anions, lo	n Chromatogra	phy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		0.500	mg/L			05/28/22 03:52	1
Nitrate as N	<0.100	U	0.100	mg/L			05/28/22 03:52	1
Nitrite as N	< 0.100	U	0.100	mg/L			05/28/22 03:52	1

Job ID: 880-15252-1

Client: Larson & Associates, Inc. Project/Site: State C Tract #13

SDG: 19-0112-38

Client Sample ID: MW-6

Lab Sample ID: 880-15252-2

Date Collected: 05/26/22 10:20 Date Received: 05/27/22 08:54

Matrix: Water

General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	976		50.0	mg/L			05/30/22 10:03	1

RL

0.00200

0.00200

0.00200

0.00400

0.00200

0.00400

Unit

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

D

Prepared

Lab Sample ID: 880-15252-3

Date Collected: 05/26/22 11:00

Client Sample ID: MW-1

Benzene

Toluene

Ethylbenzene

m,p-Xylenes

Xylenes, Total

o-Xylene

Matrix: Water

Dil Fac

Date Received: 05/27/22 08:54

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00400 U

<0.00200 U

<0.00400 U

Dramarad	Amalumad	Dil Foo	
	06/02/22 09:14	1	
	06/02/22 09:14	1	
	06/02/22 09:14	1	
	06/02/22 09:14	1	
	06/02/22 09:14	1	
	06/02/22 09:14	1	

Analyzed

Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	116	70 - 130	_		06/02/22 09:14	
1,4-Difluorobenzene (Surr)	94	70 - 130			06/02/22 09:14	

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/L			06/02/22 12:45	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	403		2.50	mg/L			05/28/22 17:32	5
Nitrate as N	<0.100	U	0.100	mg/L			05/28/22 04:03	1
Nitrite as N	<0.100	U	0.100	mg/L			05/28/22 04:03	1

General Chemistry

Date Received: 05/27/22 08:54

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1370	100	mg/L			05/30/22 10:03	1

Client Sample ID: MW-4 Lab Sample ID: 880-15252-4 Date Collected: 05/26/22 11:40

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200	mg/L			06/02/22 19:56	1
Toluene	<0.00200	U F2 F1	0.00200	mg/L			06/02/22 19:56	1
Ethylbenzene	<0.00200	U F1	0.00200	mg/L			06/02/22 19:56	1
m,p-Xylenes	<0.00400	U F2 F1 *1	0.00400	mg/L			06/02/22 19:56	1
o-Xylene	<0.00200	U F1 *1	0.00200	mg/L			06/02/22 19:56	1
Xylenes, Total	<0.00400	U F1 *1	0.00400	mg/L			06/02/22 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110	- -	70 - 130				06/02/22 19:56	1

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06/02/22 19:56

70 - 130

1,4-Difluorobenzene (Surr)

Job ID: 880-15252-1 SDG: 19-0112-38

Client: Larson & Associates, Inc. Project/Site: State C Tract #13

Client Sample ID: MW-4

Lab Sample ID: 880-15252-4

Matrix: Water

Date Collected: 05/26/22 11:40 Date Received: 05/27/22 08:54

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/L			06/02/22 12:45	1
Method: 300.0 - Anions, Io	n Chromatogra	phy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	510		5.00	mg/L			05/28/22 17:43	10
Nitrate as N	<0.100	U	0.100	mg/L			05/28/22 04:45	1
Nitrite as N	<0.100	U	0.100	mg/L			05/28/22 04:45	1
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1510		100	mg/L			05/30/22 10:03	1

Client Sample ID: MW-3

Date Collected: 05/26/22 12:05

Lab Sample ID: 880-15252-5

Matrix: Water

Date Received: 05/27/22 08:54

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0200	mg/L			06/02/22 22:00	10
Toluene	<0.0200	U	0.0200	mg/L			06/02/22 22:00	10
Ethylbenzene	<0.0200	U	0.0200	mg/L			06/02/22 22:00	10
m,p-Xylenes	<0.0400	U *1	0.0400	mg/L			06/02/22 22:00	10
o-Xylene	< 0.0200	U *1	0.0200	mg/L			06/02/22 22:00	10
Xylenes, Total	<0.0400	U *1	0.0400	mg/L			06/02/22 22:00	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				06/02/22 22:00	10
1,4-Difluorobenzene (Surr)	92		70 - 130				06/02/22 22:00	10
Method: Total BTEX - Tota	I BTEX Calcula			Unit	n	Propared		
Method: Total BTEX - Tota Analyte	I BTEX Calcula Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Tota Analyte Total BTEX	I BTEX Calcula Result <0.0400	Qualifier U		Unit mg/L	<u>D</u>	Prepared		
Method: Total BTEX - Tota Analyte Total BTEX	I BTEX Calcula Result <0.0400 n Chromatogra	Qualifier U	RL		<u>D</u>	Prepared Prepared	Analyzed	
Method: Total BTEX - Tota Analyte Total BTEX Method: 300.0 - Anions, Io	I BTEX Calcula Result <0.0400 n Chromatogra	Qualifier U	RL 0.0400	mg/L		·	Analyzed 06/02/22 12:45	Dil Fac
Method: Total BTEX - Tota Analyte Total BTEX Method: 300.0 - Anions, Io Analyte	I BTEX Calcula Result <0.0400 n Chromatogra Result	Qualifier U phy Qualifier	RL 	mg/L Unit		·	Analyzed 06/02/22 12:45 Analyzed	Dil Fac
Method: Total BTEX - Tota Analyte Total BTEX Method: 300.0 - Anions, Io Analyte Chloride	I BTEX Calcula Result <0.0400 n Chromatogra Result 6830	Qualifier U phy Qualifier U	RL 0.0400 RL 25.0	mg/L Unit mg/L		·	Analyzed 06/02/22 12:45 Analyzed 05/28/22 16:49	Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride Nitrate as N	I BTEX Calcula Result <0.0400 In Chromatogra Result 6830 <0.100	Qualifier U phy Qualifier U	RL 25.0 0.100	mg/L Unit mg/L mg/L		·	Analyzed 06/02/22 12:45 Analyzed 05/28/22 16:49 05/28/22 05:07	Dil Fac Dil Fac 50 1
Method: Total BTEX - Tota Analyte Total BTEX Method: 300.0 - Anions, Io Analyte Chloride Nitrate as N Nitrite as N	BTEX Calcula Result <0.0400	Qualifier U phy Qualifier U	RL 25.0 0.100	mg/L Unit mg/L mg/L		·	Analyzed 06/02/22 12:45 Analyzed 05/28/22 16:49 05/28/22 05:07	Dil Fac Dil Fac 50 1

Client Sample ID: RW-1

Date Collected: 05/26/22 12:30

Lab Sample ID: 880-15252-6

Matrix: Water

Date Received: 05/27/22 08:54

Method: 8021B - Vola	tile Organic Compo	unds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0200	mg/L			06/02/22 22:21	10
Toluene	<0.0200	U	0.0200	mg/L			06/02/22 22:21	10
Ethylbenzene	<0.0200	U	0.0200	mg/L			06/02/22 22:21	10

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Total Dissolved Solids

Client Sample Results

Client: Larson & Associates, Inc.

Project/Site: State C Tract #13

Job ID: 880-15252-1

SDG: 19-0112-38

Client Sample ID: RW-1 Lab Sample ID: 880-15252-6

Date Collected: 05/26/22 12:30 Matrix: Water Date Received: 05/27/22 08:54

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.0400	U *1	0.0400	mg/L			06/02/22 22:21	10
o-Xylene	<0.0200	U *1	0.0200	mg/L			06/02/22 22:21	10
Xylenes, Total	<0.0400	U *1	0.0400	mg/L			06/02/22 22:21	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				06/02/22 22:21	10
1,4-Difluorobenzene (Surr)	95		70 - 130				06/02/22 22:21	10
Analyte Total BTEX	<0.0400	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
. -			0.0400	mg/L			06/02/22 12:45	1
: Method: 300.0 - Anions, Io	on Chromatogra		RL	Unit	D	Prepared	06/02/22 12:45 Analyzed	Dil Fac
Method: 300.0 - Anions, lo Analyte	on Chromatogra	phy		-	<u>D</u> .	Prepared		Dil Fac
Method: 300.0 - Anions, lo Analyte Chloride Nitrate as N	on Chromatogra Result	phy Qualifier	RL	Unit	<u> </u>	Prepared	Analyzed	
Method: 300.0 - Anions, Io Analyte Chloride	on Chromatogra Result 931	Qualifier U	RL 5.00	Unit mg/L	<u>D</u>	Prepared	Analyzed 05/28/22 17:54	10
Method: 300.0 - Anions, Io Analyte Chloride Nitrate as N	on Chromatogra Result 931 <0.100	Qualifier U	RL 5.00 0.100	Unit mg/L mg/L	<u> </u>	Prepared	Analyzed 05/28/22 17:54 05/28/22 05:29	10

Client Sample ID: Dup-1

Date Collected: 05/26/22 00:00

Lab Sample ID: 880-15252-7

Matrix: Water

100

mg/L

Date Collected: 05/26/22 00:00
Date Received: 05/27/22 08:54

2020

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			06/02/22 20:17	1
Toluene	<0.00200	U	0.00200	mg/L			06/02/22 20:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/L			06/02/22 20:17	1
m,p-Xylenes	<0.00400	U *1	0.00400	mg/L			06/02/22 20:17	1
o-Xylene	<0.00200	U *1	0.00200	mg/L			06/02/22 20:17	1
Xylenes, Total	<0.00400	U *1	0.00400	mg/L			06/02/22 20:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130		•		06/02/22 20:17	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/02/22 20:17	1
Method: Total BTEX - Tota	ıl BTEX Calcula	tion						
Method: Total BTEX - Tota Analyte	Result	Qualifier	RL	Unit	<u>D</u> .	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Tota Analyte Total BTEX	<0.00400	Qualifier U	RL	Unit mg/L	<u>D</u> .	Prepared	Analyzed 06/02/22 12:45	Dil Fac
Method: Total BTEX - Tota Analyte Total BTEX Method: 300.0 - Anions, Io	Result <0.00400 on Chromatogra	Qualifier U	0.00400	mg/L		•	06/02/22 12:45	1
Method: Total BTEX - Tota Analyte Total BTEX Method: 300.0 - Anions, Io Analyte	Result <0.00400 on Chromatogra Result	Qualifier U	0.00400 RL	mg/L Unit	<u>D</u> .	Prepared Prepared	06/02/22 12:45 Analyzed	Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, Io Analyte Chloride	Result <0.00400 on Chromatogra Result 966	Qualifier U phy Qualifier	0.00400 RL 5.00	mg/L Unit mg/L		•	06/02/22 12:45 Analyzed 05/28/22 18:05	Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride Nitrate as N	Result <0.00400	Qualifier U uphy Qualifier U U H	0.00400 RL 5.00 0.100	mg/L Unit mg/L mg/L		•	06/02/22 12:45 Analyzed 05/28/22 18:05 05/28/22 05:50	10 10 11 11 11 11 11 11 11 11 11 11 11 1
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, lotal Analyte Chloride Nitrate as N	Result <0.00400 on Chromatogra Result 966	Qualifier U uphy Qualifier U U H	0.00400 RL 5.00	mg/L Unit mg/L		•	06/02/22 12:45 Analyzed 05/28/22 18:05	Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride Nitrate as N Nitrite as N	Result <0.00400	Qualifier U uphy Qualifier U U H	0.00400 RL 5.00 0.100	mg/L Unit mg/L mg/L		•	06/02/22 12:45 Analyzed 05/28/22 18:05 05/28/22 05:50	10 10 11 11 11 11 11 11 11 11 11 11 11 1
Method: Total BTEX - Total Analyte Total BTEX Method: 300.0 - Anions, Io Analyte Chloride	Result <0.00400	Qualifier U uphy Qualifier U U H	0.00400 RL 5.00 0.100	mg/L Unit mg/L mg/L		•	06/02/22 12:45 Analyzed 05/28/22 18:05 05/28/22 05:50	Dil Fac Dil Fac 10 1 Dil Fac

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2

3

4

6

8

10

12

13

05/30/22 10:03

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-15252-1 Project/Site: State C Tract #13 SDG: 19-0112-38

Client Sample ID: MW-2 Lab Sample ID: 880-15252-8

Matrix: Water

Date Collected: 05/26/22 13:00 Date Received: 05/27/22 08:54

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0200	mg/L			06/02/22 21:40	10
Toluene	<0.0200	U	0.0200	mg/L			06/02/22 21:40	10
Ethylbenzene	<0.0200	U	0.0200	mg/L			06/02/22 21:40	10
m,p-Xylenes	<0.0400	U *1	0.0400	mg/L			06/02/22 21:40	10
o-Xylene	<0.0200	U *1	0.0200	mg/L			06/02/22 21:40	10
Xylenes, Total	<0.0400	U *1	0.0400	mg/L			06/02/22 21:40	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130				06/02/22 21:40	10
1,4-Difluorobenzene (Surr)	87		70 - 130				06/02/22 21:40	10
Method: Total BTEX - Total	I DTEV Coloule	tion						
Method: Total BILX - Total	I DIEA Galcula	uon						
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	RL 0.0400	Unit mg/L	D	Prepared	Analyzed 06/02/22 12:45	Dil Fac
Analyte Total BTEX	Result <0.0400	Qualifier U			<u> </u>	Prepared		Dil Fac
Analyte Total BTEX Method: 300.0 - Anions, Io	Result <0.0400	Qualifier U			<u>D</u> .	Prepared Prepared		1
Analyte Total BTEX Method: 300.0 - Anions, Io Analyte	Result <0.0400	Qualifier U	0.0400	mg/L		•	06/02/22 12:45	1
Analyte Total BTEX Method: 300.0 - Anions, Io Analyte Chloride	Result <0.0400 n Chromatogra Result	Qualifier U phy Qualifier	0.0400 RL	mg/L Unit		•	06/02/22 12:45 Analyzed	1 Dil Fac
Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride Nitrate as N	Result <0.0400 n Chromatogra Result 3520	Qualifier U phy Qualifier U	0.0400 RL 25.0	mg/L Unit mg/L		•	06/02/22 12:45 Analyzed 05/28/22 17:00	1 Dil Fac
Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride Nitrate as N Nitrite as N	Result <0.0400	Qualifier U phy Qualifier U	0.0400 RL 25.0 0.100	mg/L mg/L mg/L		•	06/02/22 12:45 Analyzed 05/28/22 17:00 05/28/22 06:12	1 Dil Fac 50 1
Analyte Total BTEX Method: 300.0 - Anions, lo Analyte Chloride Nitrate as N Nitrite as N General Chemistry Analyte	Result <0.0400 n Chromatogra Result 3520 <0.100 <0.100	Qualifier U phy Qualifier U	0.0400 RL 25.0 0.100	mg/L mg/L mg/L		•	06/02/22 12:45 Analyzed 05/28/22 17:00 05/28/22 06:12	Dil Fac 50

Released to Imaging: 1/6/2025 3:33:22 PM

Surrogate Summary

Client: Larson & Associates, Inc.

Project/Site: State C Tract #13

Job ID: 880-15252-1

SDG: 19-0112-38

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

		DED4		nt Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-15197-A-10 MS	Matrix Spike	112	91	
880-15197-A-10 MSD	Matrix Spike Duplicate	100	96	
880-15252-1	MW-5	107	98	
880-15252-2	MW-6	107	97	
880-15252-3	MW-1	116	94	
880-15252-4	MW-4	110	94	
880-15252-4 MS	MW-4	115	97	
880-15252-4 MSD	MW-4	104	104	
880-15252-5	MW-3	123	92	
880-15252-6	RW-1	105	95	
880-15252-7	Dup-1	109	96	
880-15252-8	MW-2	143 S1+	87	
LCS 880-26646/108	Lab Control Sample	116	91	
LCS 880-26723/3	Lab Control Sample	98	97	
LCSD 880-26646/109	Lab Control Sample Dup	112	98	
LCSD 880-26723/4	Lab Control Sample Dup	114	94	
MB 880-26646/113	Method Blank	109	94	
MB 880-26646/82	Method Blank	97	103	
MB 880-26723/8	Method Blank	107	100	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Client: Larson & Associates, Inc. Job ID: 880-15252-1 SDG: 19-0112-38 Project/Site: State C Tract #13

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26646/113

Matrix: Water

Analysis Batch: 26646

Client Samp	ole I	D:	Meth	od	Blan l	K
	Pre	p T	Гуре:	To	tal/N/	4

MB MB Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared Benzene <0.00200 U 0.00200 mg/L 06/02/22 03:23 Toluene <0.00200 U 0.00200 mg/L 06/02/22 03:23 Ethylbenzene <0.00200 U 0.00200 mg/L 06/02/22 03:23 <0.00400 U 0.00400 m,p-Xylenes mg/L 06/02/22 03:23 o-Xylene <0.00200 U 0.00200 mg/L 06/02/22 03:23 Xylenes, Total <0.00400 U 0.00400 mg/L 06/02/22 03:23

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 109 70 - 130 4-Bromofluorobenzene (Surr) 06/02/22 03:23 1,4-Difluorobenzene (Surr) 94 70 - 130 06/02/22 03:23

Lab Sample ID: MB 880-26646/82

Matrix: Water

Analysis Batch: 26646

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

Analyzed

06/01/22 16:41 06/01/22 16:41

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/L 06/01/22 16:41 Toluene 06/01/22 16:41 <0.00200 U 0.00200 mg/L Ethylbenzene <0.00200 U 0.00200 mg/L 06/01/22 16:41 m,p-Xylenes <0.00400 U 0.00400 mg/L 06/01/22 16:41 o-Xylene <0.00200 U 0.00200 06/01/22 16:41 mg/L <0.00400 U 0.00400 Xylenes, Total mg/L 06/01/22 16:41

MR MR

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

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

Client Sample ID: Lab Control Sample Dup

Prepared

Matrix: Water

Lab Sample ID: LCS 880-26646/108

Analysis Batch: 26646

Spike LCS LCS %Rec **Analyte** Added Result Qualifier Unit D %Rec Limits Benzene 0.100 0.08700 mg/L 87 70 - 130 Toluene 0.100 0.09403 mg/L 94 70 - 130 Ethylbenzene 0.100 0.1089 109 70 - 130 mg/L 0.200 0.2238 70 - 130 m,p-Xylenes mg/L 112 o-Xylene 0.100 0.1040 mg/L 104 70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-26646/109

Matrix: Water

Analysis Batch: 26646									
	Spi	ke LCSD	LCSD				%Rec		RPD
Analyte	Add	ed Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.1	0.1043		mg/L	_	104	70 - 130	18	20

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Prep Type: Total/NA

Dil Fac

Client: Larson & Associates, Inc. Job ID: 880-15252-1 Project/Site: State C Tract #13 SDG: 19-0112-38

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-26646/109

Matrix: Water

Analysis Batch: 26646

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Toluene 0.100 0.1018 mg/L 102 70 - 130 8 20 0.100 Ethylbenzene 0.1117 mg/L 112 70 - 130 3 20 m,p-Xylenes 0.200 0.2232 70 - 130 20 mg/L 112 n 0.100 20 o-Xylene 0.1037 mg/L 104 70 - 130 0

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-15197-A-10 MS **Client Sample ID: Matrix Spike**

Matrix: Water

Analysis Batch: 26646

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier D %Rec Limits Unit Benzene <0.00200 U 0.100 0.08661 85 70 - 130 mg/L Toluene <0.00200 U 0.100 0.09196 mg/L 92 70 - 130 Ethylbenzene <0.00200 U 0.100 0.1056 mg/L 106 70 - 130 m,p-Xylenes <0.00400 U 0.200 107 0.2139 mg/L 70 - 130 o-Xylene <0.00200 U 0.100 0.09945 mg/L 99 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-15197-A-10 MSD

Matrix: Water

Analysis Batch: 26646

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09192		mg/L		90	70 - 130	6	25
Toluene	<0.00200	U	0.100	0.08853		mg/L		89	70 - 130	4	25
Ethylbenzene	<0.00200	U	0.100	0.09554		mg/L		96	70 - 130	10	25
m,p-Xylenes	<0.00400	U	0.200	0.1874		mg/L		94	70 - 130	13	25
o-Xylene	<0.00200	U	0.100	0.08709		mg/L		87	70 - 130	13	25

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: MB 880-26723/8

Matrix: Water

Analysis Batch: 26723

Client Sample ID: Method Blank

Prep Type: Total/NA

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			06/02/22 19:35	1
Toluene	<0.00200	U	0.00200	mg/L			06/02/22 19:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/L			06/02/22 19:35	1
m,p-Xylenes	<0.00400	U	0.00400	mg/L			06/02/22 19:35	1

Client: Larson & Associates, Inc. Job ID: 880-15252-1 Project/Site: State C Tract #13 SDG: 19-0112-38

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-26723/8 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 26723

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/L			06/02/22 19:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/L			06/02/22 19:35	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 107 70 - 130 06/02/22 19:35 1,4-Difluorobenzene (Surr) 100 70 - 130 06/02/22 19:35

Lab Sample ID: LCS 880-26723/3

Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA **Analysis Batch: 26723**

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Benzene 0.100 0.09952 mg/L 100 70 - 130 Toluene 0.100 0.09677 97 70 - 130 mg/L Ethylbenzene 0.1048 mg/L 105 70 - 130 0.100 70 - 130 m,p-Xylenes 0.200 0.2023 mg/L 101 o-Xylene 0.100 0.09314 93 70 - 130 mg/L

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 98 70 - 130 1,4-Difluorobenzene (Surr) 97 70 - 130

Lab Sample ID: LCSD 880-26723/4

Matrix: Water

Analysis Batch: 26723

7 many 0.0 = 0.0 m = 0.1 = 0	Spike	LCSD LCSD			%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D %Rec	Limits	RPD	Limit
Benzene	0.100	0.1035	mg/L	103	70 - 130	4	20
Toluene	0.100	0.1107	mg/L	111	70 - 130	13	20
Ethylbenzene	0.100	0.1275	mg/L	127	70 - 130	20	20
m,p-Xylenes	0.200	0.2600 *1	mg/L	130	70 - 130	25	20
o-Xylene	0.100	0.1169 *1	mg/L	117	70 - 130	23	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-15252-4 MS

Matrix: Water

Analysis Batch: 26723

Analysis Butom 20126	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F2 F1	0.100	0.1081		mg/L		108	70 - 130	
Toluene	<0.00200	U F2 F1	0.100	0.1118		mg/L		111	70 - 130	
Ethylbenzene	<0.00200	U F1	0.100	0.1263		mg/L		126	70 - 130	
m,p-Xylenes	<0.00400	U F2 F1 *1	0.200	0.2553		mg/L		128	70 - 130	
o-Xylene	<0.00200	U F1 *1	0.100	0.1154		mg/L		115	70 - 130	

Eurofins Midland

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: MW-4

Prep Type: Total/NA

Client: Larson & Associates, Inc. Job ID: 880-15252-1 Project/Site: State C Tract #13 SDG: 19-0112-38

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-15252-4 MS Client Sample ID: MW-4 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 26723

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-15252-4 MSD Client Sample ID: MW-4 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 26723

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F2 F1	0.100	<0.00200	U F2 F1	mg/L		1	70 - 130	194	25
Toluene	<0.00200	U F2 F1	0.100	<0.00200	U F2 F1	mg/L		0.5	70 - 130	197	25
Ethylbenzene	<0.00200	U F1	0.100	<0.00200	U F1	mg/L		0	70 - 130	NC	25
m,p-Xylenes	<0.00400	U F2 F1 *1	0.200	<0.00400	U F2 F1	mg/L		0.5	70 - 130	198	25
o-Xylene	<0.00200	U F1 *1	0.100	<0.00200	U F1	mg/L		0	70 - 130	NC	25

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 104 70 - 130 1,4-Difluorobenzene (Surr) 104

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26475/3 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 26475

MB MB Analyte Result Qualifier RL Unit Analyzed Dil Fac Prepared Chloride <0.500 U 0.500 05/28/22 02:26 mg/L

Lab Sample ID: LCS 880-26475/4 **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA**

Analysis Batch: 26475

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	25.0	25.55		mg/L		102	90 - 110	

Lab Sample ID: LCSD 880-26475/5 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 26475

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	25.0	25.11		mg/L		100	90 - 110	2	20

Lab Sample ID: 880-15267-A-1 MS **Client Sample ID: Matrix Spike Matrix: Water Prep Type: Total/NA**

Analysis Batch: 26475

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits

Chloride 19.2 25.0 42.92 mg/L 95 90 - 110

Client: Larson & Associates, Inc. Job ID: 880-15252-1 Project/Site: State C Tract #13 SDG: 19-0112-38

Method: 300.0 - Anions, Ion Chromatography (Continued)

MD MD

Lab Sample ID: 880-15267-A-1 MSD

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 26475

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	19.2		25.0	43.61		mg/L		98	90 - 110	2	20	

Lab Sample ID: MB 880-26476/3 **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA**

Analysis Batch: 26476

	1410	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.100	U	0.100	mg/L			05/28/22 02:26	1
Nitrite as N	<0.100	U	0.100	mg/L			05/28/22 02:26	1

Lab Sample ID: LCS 880-26476/4

Matrix: Water

Analysis Batch: 26476

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrate as N	 5.00	4.939		mg/L		99	90 - 110	
Nitrite as N	5.00	5.340		mg/L		107	90 - 110	

Lab Sample ID: LCSD 880-26476/5 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA **Matrix: Water**

Analysis Batch: 26476

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate as N	5.00	4.922		mg/L		98	90 - 110	0	20
Nitrite as N	5.00	5.381		mg/L		108	90 - 110	1	20

Lab Sample ID: 880-15267-A-1 MS **Client Sample ID: Matrix Spike Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 26476

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrate as N	<0.100	U	5.00	5.172		mg/L		103	90 - 110	
Nitrite as N	<0.100	U	5.00	4.854		mg/L		97	90 - 110	

Lab Sample ID: 880-15267-A-1 MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 26476

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate as N	<0.100	U	5.00	4.928		mg/L		99	90 - 110	5	20
Nitrite as N	<0.100	U	5.00	4.894		mg/L		98	90 - 110	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-26517/1 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 26517

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	mg/L			05/30/22 10:03	1

Eurofins Midland

Released to Imaging: 1/6/2025 3:33:22 PM

Client: Larson & Associates, Inc. Job ID: 880-15252-1 Project/Site: State C Tract #13

SDG: 19-0112-38

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 660-26517/2				Cilei	ii Sai	iibie in	: Lab Control Sample
Matrix: Water							Prep Type: Total/NA
Analysis Batch: 26517							
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	1000	1000		mg/L		100	80 - 120

Lab Sample ID: LCSD 880-26517/3			(Client Sa	ample	ID: Lab	Control	Sample	a Dup
Matrix: Water							Prep Ty	pe: Tot	al/NA
Analysis Batch: 26517									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Total Dissabled Calida	4000	4004		/1		400	00 400		40

l	Total Dissolved Solids			1000	1024		mg/L		102	00 - 120	2	10
	Lab Sample ID: 880-15252- Matrix: Water Analysis Batch: 26517	1 DU							Cli	ent Samp Prep Typ		
		Sample	Sample		DU	DU						RPD
	Analyte	Result	Qualifier		Result	Qualifier	Unit	D			RPD	Limit
	Total Dissolved Solids	968			972.0		mg/L				0.4	10

QC Association Summary

Client: Larson & Associates, Inc.

Project/Site: State C Tract #13

Job ID: 880-15252-1

SDG: 19-0112-38

GC VOA

Analysis Batch: 26646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15252-2	MW-6	Total/NA	Water	8021B	
880-15252-3	MW-1	Total/NA	Water	8021B	
MB 880-26646/113	Method Blank	Total/NA	Water	8021B	
MB 880-26646/82	Method Blank	Total/NA	Water	8021B	
LCS 880-26646/108	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-26646/109	Lab Control Sample Dup	Total/NA	Water	8021B	
880-15197-A-10 MS	Matrix Spike	Total/NA	Water	8021B	
880-15197-A-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Analysis Batch: 26723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15252-1	MW-5	Total/NA	Water	8021B	-
880-15252-4	MW-4	Total/NA	Water	8021B	
880-15252-5	MW-3	Total/NA	Water	8021B	
880-15252-6	RW-1	Total/NA	Water	8021B	
880-15252-7	Dup-1	Total/NA	Water	8021B	
880-15252-8	MW-2	Total/NA	Water	8021B	
MB 880-26723/8	Method Blank	Total/NA	Water	8021B	
LCS 880-26723/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-26723/4	Lab Control Sample Dup	Total/NA	Water	8021B	
880-15252-4 MS	MW-4	Total/NA	Water	8021B	
880-15252-4 MSD	MW-4	Total/NA	Water	8021B	

Analysis Batch: 26739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15252-1	MW-5	Total/NA	Water	Total BTEX	
880-15252-2	MW-6	Total/NA	Water	Total BTEX	
880-15252-3	MW-1	Total/NA	Water	Total BTEX	
880-15252-4	MW-4	Total/NA	Water	Total BTEX	
880-15252-5	MW-3	Total/NA	Water	Total BTEX	
880-15252-6	RW-1	Total/NA	Water	Total BTEX	
880-15252-7	Dup-1	Total/NA	Water	Total BTEX	
880-15252-8	MW-2	Total/NA	Water	Total BTEX	

HPLC/IC

Analysis Batch: 26475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15252-1	MW-5	Total/NA	Water	300.0	
880-15252-2	MW-6	Total/NA	Water	300.0	
880-15252-3	MW-1	Total/NA	Water	300.0	
880-15252-4	MW-4	Total/NA	Water	300.0	
880-15252-5	MW-3	Total/NA	Water	300.0	
880-15252-6	RW-1	Total/NA	Water	300.0	
880-15252-7	Dup-1	Total/NA	Water	300.0	
880-15252-8	MW-2	Total/NA	Water	300.0	
MB 880-26475/3	Method Blank	Total/NA	Water	300.0	
LCS 880-26475/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-26475/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-15267-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-15267-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Eurofins Midland

6/3/2022

QC Association Summary

Job ID: 880-15252-1 Client: Larson & Associates, Inc. Project/Site: State C Tract #13 SDG: 19-0112-38

HPLC/IC

Analysis Batch: 26476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15252-1	MW-5	Total/NA	Water	300.0	
880-15252-2	MW-6	Total/NA	Water	300.0	
880-15252-3	MW-1	Total/NA	Water	300.0	
880-15252-4	MW-4	Total/NA	Water	300.0	
880-15252-5	MW-3	Total/NA	Water	300.0	
880-15252-6	RW-1	Total/NA	Water	300.0	
880-15252-7	Dup-1	Total/NA	Water	300.0	
880-15252-8	MW-2	Total/NA	Water	300.0	
MB 880-26476/3	Method Blank	Total/NA	Water	300.0	
LCS 880-26476/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-26476/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-15267-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-15267-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 26517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15252-1	MW-5	Total/NA	Water	SM 2540C	_
880-15252-2	MW-6	Total/NA	Water	SM 2540C	
880-15252-3	MW-1	Total/NA	Water	SM 2540C	
880-15252-4	MW-4	Total/NA	Water	SM 2540C	
880-15252-5	MW-3	Total/NA	Water	SM 2540C	
880-15252-6	RW-1	Total/NA	Water	SM 2540C	
880-15252-7	Dup-1	Total/NA	Water	SM 2540C	
880-15252-8	MW-2	Total/NA	Water	SM 2540C	
MB 880-26517/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-26517/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-26517/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-15252-1 DU	MW-5	Total/NA	Water	SM 2540C	

Job ID: 880-15252-1

SDG: 19-0112-38

Project/Site: State C Tract #13 **Client Sample ID: MW-5**

Client: Larson & Associates, Inc.

Lab Sample ID: 880-15252-1 Date Collected: 05/26/22 10:05 Date Received: 05/27/22 08:54

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		20	5 mL	5 mL	26723	06/02/22 22:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26739	06/02/22 12:45	MR	XEN MID
Total/NA	Analysis	300.0		1			26475	05/28/22 03:41	SC	XEN MID
Total/NA	Analysis	300.0		1			26476	05/28/22 03:41	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	26517	05/30/22 10:03	SC	XEN MID

Client Sample ID: MW-6 Lab Sample ID: 880-15252-2 Date Collected: 05/26/22 10:20

Date Received: 05/27/22 08:54

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	26646	06/02/22 08:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26739	06/02/22 12:45	MR	XEN MID
Total/NA	Analysis	300.0		1			26475	05/28/22 03:52	SC	XEN MID
Total/NA	Analysis	300.0		1			26476	05/28/22 03:52	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	26517	05/30/22 10:03	SC	XEN MID

Client Sample ID: MW-1 Lab Sample ID: 880-15252-3 Date Collected: 05/26/22 11:00 **Matrix: Water**

Date Received: 05/27/22 08:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	26646	06/02/22 09:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26739	06/02/22 12:45	MR	XEN MID
Total/NA	Analysis	300.0		1			26476	05/28/22 04:03	SC	XEN MID
Total/NA	Analysis	300.0		5			26475	05/28/22 17:32	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	26517	05/30/22 10:03	SC	XEN MID

Lab Sample ID: 880-15252-4 **Client Sample ID: MW-4** Date Collected: 05/26/22 11:40

Date Received: 05/27/22 08:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	26723	06/02/22 19:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26739	06/02/22 12:45	MR	XEN MID
Total/NA	Analysis	300.0		1			26476	05/28/22 04:45	SC	XEN MID
Total/NA	Analysis	300.0		10			26475	05/28/22 17:43	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	26517	05/30/22 10:03	SC	XEN MID

Eurofins Midland

Matrix: Water

Client: Larson & Associates, Inc. Job ID: 880-15252-1 Project/Site: State C Tract #13 SDG: 19-0112-38

Client Sample ID: MW-3 Lab Sample ID: 880-15252-5

Date Collected: 05/26/22 12:05 **Matrix: Water** Date Received: 05/27/22 08:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	26723	06/02/22 22:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26739	06/02/22 12:45	MR	XEN MID
Total/NA	Analysis	300.0		1			26476	05/28/22 05:07	SC	XEN MID
Total/NA	Analysis	300.0		50			26475	05/28/22 16:49	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	26517	05/30/22 10:03	SC	XEN MID

Client Sample ID: RW-1 Lab Sample ID: 880-15252-6 Date Collected: 05/26/22 12:30 **Matrix: Water**

Date Received: 05/27/22 08:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	26723	06/02/22 22:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26739	06/02/22 12:45	MR	XEN MID
Total/NA	Analysis	300.0		1			26476	05/28/22 05:29	SC	XEN MID
Total/NA	Analysis	300.0		10			26475	05/28/22 17:54	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	26517	05/30/22 10:03	SC	XEN MID

Client Sample ID: Dup-1 Lab Sample ID: 880-15252-7 Date Collected: 05/26/22 00:00 **Matrix: Water**

Date Received: 05/27/22 08:54

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	26723	06/02/22 20:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26739	06/02/22 12:45	MR	XEN MID
Total/NA	Analysis	300.0		1			26476	05/28/22 05:50	SC	XEN MID
Total/NA	Analysis	300.0		10			26475	05/28/22 18:05	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	26517	05/30/22 10:03	SC	XEN MID

Lab Sample ID: 880-15252-8 Client Sample ID: MW-2 Date Collected: 05/26/22 13:00 **Matrix: Water**

Date Received: 05/27/22 08:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	26723	06/02/22 21:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26739	06/02/22 12:45	MR	XEN MID
Total/NA	Analysis	300.0		1			26476	05/28/22 06:12	SC	XEN MID
Total/NA	Analysis	300.0		50			26475	05/28/22 17:00	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	26517	05/30/22 10:03	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-15252-1 Project/Site: State C Tract #13 SDG: 19-0112-38

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pro	ogram	Identification Number	Expiration Date	
Texas	NE	LAP	T104704400-21-22	06-30-22	
The following analyte	s are included in this repo	rt but the laboratory is r	not certified by the governing authority	This list may include analytes for w	
The following analyte the agency does not	•	rt, but the laboratory is r	not certified by the governing authority.	This list may include analytes for w	
· ,	•	rt, but the laboratory is r Matrix	not certified by the governing authority. Analyte	This list may include analytes for w	

Method Summary

Client: Larson & Associates, Inc. Project/Site: State C Tract #13

Method Description

Total BTEX Calculation

Purge and Trap

Anions, Ion Chromatography

Solids, Total Dissolved (TDS)

Volatile Organic Compounds (GC)

Job ID: 880-15252-1 SDG: 19-0112-38

Protocol	Laboratory
SW846	XEN MID
TAL SOP	XEN MID
MCAWW	XEN MID
SM	XEN MID

XEN MID

SW846

Protocol References:

Method

8021B

300.0

5030B

Total BTEX

SM 2540C

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

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8

9

11

12

Sample Summary

Client: Larson & Associates, Inc. Project/Site: State C Tract #13

Job ID: 880-15252-1

SDG: 19-0112-38

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-15252-1	MW-5	Water	05/26/22 10:05	05/27/22 08:54
880-15252-2	MW-6	Water	05/26/22 10:20	05/27/22 08:54
880-15252-3	MW-1	Water	05/26/22 11:00	05/27/22 08:54
880-15252-4	MW-4	Water	05/26/22 11:40	05/27/22 08:54
880-15252-5	MW-3	Water	05/26/22 12:05	05/27/22 08:54
880-15252-6	RW-1	Water	05/26/22 12:30	05/27/22 08:54
880-15252-7	Dup-1	Water	05/26/22 00:00	05/27/22 08:54
880-15252-8	MW-2	Water	05/26/22 13:00	05/27/22 08:54

TOTAL

RELINQUISHED BY (Stg)nature)

LABORATORY Xenco

RELINQUISHED BY (Signature)

RELINQUISHED BY (Signature)

5/17/12 0854

DATE/TIME

RECEIVED BY

(Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

880-15252 Chain of Custody

RECEIVING TEMP

THERM#

DATE/TIME

REc∉IVED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

2 DAY 🔲 1 DAY NORMAL 2

CUSTODY SEALS - D BROKEN TINTACT NOT USED

OTHER []

HAND DELIVERED CABRIER BILL#

TIME ZONE
Time zone/State

Yes

X No

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FIELD NOTES

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Field Sample I D

Lab#

Date

Time

Matrix

of Containers

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1300

CHAIN-OF-CUSTODY

Released to Imaging: 1/6/2025 3:33:22 PM

Login Sample Receipt Checklist

Job Number: 880-15252-1 Client: Larson & Associates, Inc. SDG Number: 19-0112-38

Login Number: 15252 **List Source: Eurofins Midland**

List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

<6mm (1/4").

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 416262

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	416262
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By		Condition Date
michael.buchanan	2022 Semi Annual (January - June) Groundwater Monitoring Report for Apache Corporation, State C Tract 13 has been accepted for the record. App ID: 416262. This report was not received by Apache until 01.02.2025.	1/6/2025