REVIEWED
By Mike Buchanan at 2:09 pm, Jun 13, 2024

Groundwater Monitoring Report

Review of the Brahaney Release Site for the 2021 Groundwater Monitoring Report:
Content Satisfactory
1. Continue to conduct groundwater monitoring on a quarterly basis for COCs.
2. Submit the 2024 Annual Report by April 1, 2025.
3. Report trends and plume stability to OCD with recommendations on next phase for remediation.

Brahaney Release Site
33.21341 N, -103.10996 W
Lea County, New Mexico
OCD No. 1RP-2794

Original Preparation Date:
March 28, 2022

Prepared for:

CENTURION PIPELINE L.P.
Attention: Ms. Kimberly Lambert
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Prepared By:

APEX Companies LLC.
505 N. Big Spring Street, Suite 301A
Midland, TX 79701

Apex Project No. CEN21-004

Brahaney Gathering 8-inch Release Site
Annual Groundwater Monitoring Report

Brahaney Gathering
33.21341 N, -103.10996 W
Lea County, New Mexico
OCD No. 1RP-2794

John Faught
Geologist

Aaron R. Sides
Project Manager

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1.0 INTRODUCTION

1.1 Site Description & Background

Apex Companies LLC (Apex) has completed this Annual Groundwater Monitoring Report for the Site located north of Murphy Chapel Road (N 33.31364, W 103.11004), approximately seventeen miles Southwest of Tatum in Lea County, New Mexico S4, T13S, R38E. The purpose of this report is to document the groundwater sampling events conducted in August and December of 2021. A topographic map depicting the location of the Site is included as **Figure 1** and a site vicinity map is included as **Figure 2**.

On February 11, 2011, approximately 20 barrels of sweet crude oil were released from the Centurion Pipeline, L.P. Brahaney Gathering System 8-inch steel transmission pipeline. The release was a result of internal corrosion of the pipeline. The pipeline was immediately shut in and 300-linear feet of the pipeline were replaced on February 12, 2011. No crude was recovered during the emergency response phase of operations. Initial remediation and delineation activities were conducted by B&H Environmental Services on February 16, 2011. Approximately 4,130-cubic yards of spill-impacted soil was excavated from the Site, of which; 225- cubic yards were hauled to Centurion Wasson Station for berm construction, 834-cubic yards hauled to Gandy's Landfarm in New Mexico and 3,200-cubic yards blended on-site with clean fresh material obtained from the Site. Additionally, fresh topsoil was purchased from the landowner to complete backfilling. The excavated area was returned to natural grade and restoration was completed on June 24, 2011. Two monitoring wells (MW-1 and MW-2) were installed after backfilling activities.

On September 25, 2011, approximately 4-5 barrels of sweet crude oil were release from the Brahaney Gathering System caused by internal corrosion in the 8-inch steel transmission pipeline. The pipeline was immediately shut in and the damage pipeline was replaced. Soil from the impacted area, measuring approximately 20-feet long by 8-feet wide, were excavated, sampled, and transported to the Gandy Marly Landfill on September 28, 2011. The excavation was backfilled using soil purchased from the landowner to a depth of 5-feet below ground surface (bgs). A 20-mil liner was subsequently installed and then backfilled to surface. From January 30, 2013, through February 6, 2013, Talon LPE utilized an air rotary rig to advance several boreholes at the Site which were subsequently completed as groundwater monitoring wells MW-3 through MW-6.

1.2 Project Objective

The purpose of this report is to document groundwater monitoring activities conducted at the Brahaney Gathering 8-inch release Site in August and December of 2021.

2.0 SITE CHARACTERIZATION

2.1 Site Hydrogeology

The Brahaney Groundwater sample site is located North of Murphy Chapel Road (N 33.31364, W 103.11004), approximately seventeen miles Southwest of Tatum in Lea County, New Mexico S4, T13S, R38E along Murphy Chapel Rd. which connects to T-141. The Site is located approximately 18 miles west of Plains, Tx and about 28 miles Northeast of Lovington, NM. The Site is surrounded by rangeland that is periodically interrupted by oil and gas facilities.

The Site is located on the Northwestern Shelf of the Permian Basin between the Matador Arch and Pedernales Uplift and is underlain by the Ogallala formation which is Pliocene to Middle Miocene in age. The Ogallala formation consists of poorly consolidated silt, sand, gravel and petrocalcic soils, and ranges from zero to 500 feet thick. Its base lies unconformably on the Triassic Dockum group which is divided into the Santa Rosa sandstone and Chinle formation. Rocks of Cretaceous age were deposited in Lea County but have been almost entirely removed by erosion (Nicholson and Clebsch, 1961).

According to the New Mexico Water Resources Assessment 2001 Plate 3, the regional groundwater gradient in the area is to the southeast and shifts to the southwest towards the Pecos River when transitioning from east to west into the Lower Pecos Valley from the Southern High Plains. The depth to groundwater ranges from approximately 96 to 103 feet below ground surface (bgs).

3.0 REGULATORY GUIDELINES

3.1 Regulatory Information

The site is subject to regulatory oversight by the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD), otherwise known as the NMOCD; and the New Mexico Environment Department (NMED). The NMOCD focuses on remedial regulation of the vadose zone, containing soil and other related subjects, the NMED

focuses on remedial regulation of water and air quality. The NMOCD defines a "Major Release" as "an unauthorized release of a volume, excluding gases, of 25 barrels or more", along with other specifications as stated in [19.15.29.7 NMAC – Rp, 19.15.29.7 NMAC, 8/14/2018]. NMOCD requires remediation and a site assessment to follow, the site assessment should include a characterization [19.15.29.11 NMAC – Rp, 19.15.29.11 NMAC, 8/14/2018] and determine if an abatement plan is required. Abatement is required where TDS concentrations exceed 10,000 mg/l, abatement standards and requirements are listed in [19.15.30 NMAC]. Other COCs and their regulatory limits are shown in Table 1 of [19.15.29.12 NMAC – N, 8/14/2018]. The NMED provides standards for ground water of 10,000 mg/l TDS concentration or less in [20.6.2.3103 NMAC], concentration limits 0.005 mg/l, 1 mg/l, 0.7 mg/l, 0.62 mg/l for Benzene, Toluene, Ethylbenzene, and Total Xylenes respectively are among listed limits.

3.2 Site Ranking

In accordance with the NMOCD's Guidelines for Remediation of Leaks, Spills and Releases, Apex utilized the general site characteristics to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the table below:

Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	**10**
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area <1,000 feet from a water source, or; <200 feet from private domestic water source.	Yes	20	**0**
	No	0	
Distance to Surface Water Body	<200 feet	20	**0**
	200 to 1,000 feet	10	
	>1,000 feet	0	
Total Ranking Score			**10**

Based on the Site characteristics, specifically depth to groundwater, an associated ranking score of ten (10) was determined for the Site. The results of the Site ranking were previously documented in the *Soil Assessment and Remediation Work Plan* Dated Aril 5, 2012.

APEX

The NMOCD's RALs for sites with a total ranking score of 10-19 is 10 milligrams per kilogram (mg/Kg) for benzene, 50 mg/Kg for total BTEX, 1000 mg/Kg for TPH GRO/DRO and 500 mg/kg for Chloride constituents.

4.0 GROUNDWATER SAMPLING PROGRAM

4.1 Groundwater Monitoring

Apex's groundwater sampling program consisted of collecting one (1) groundwater sample from each monitoring well not exhibiting measurable amounts of PSH. The 2021 groundwater sampling events included monitoring wells MW-1 through MW-6.

Before sample collection, Apex gauged depth to fluids in each monitoring well utilizing an interface probe capable of detecting the presence of PSH to the nearest hundredth of a foot. Prior to sample collection, each monitoring well was purged utilizing low-flow sampling techniques.

The groundwater samples were collected from each monitoring well after the groundwater was consistent in color and clarity. Additionally, field parameters for pH, dissolved oxygen (DO), oxidation/reduction potential (ORP), temperature and conductivity were permitted to stabilize. Stabilization was achieved when the concentrations for pH was +/- 0.1 pH units and the values for temperature, ORP and conductivity were within +/- 3% over a period of three consecutive readings.

Groundwater samples were collected and placed in laboratory provided glassware, placed on ice in a cooler, and secured with a custody seal. The sample coolers and completed chain-of-custody forms were relinquished to Pace Analytical in Midland, Texas for standard turn-around times.

Groundwater sample analytical results are presented in **Table 2**.

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5.0 LABORATORY ANALYTICAL METHODS

5.1 Laboratory Analytical Methods

The groundwater samples were submitted for analysis of BTEX utilizing Environmental Protection Agency (EPA) SW-846 Method #8260D, TPH GRO/DRO utilizing EPA SW-846 Method 8015D and Chlorides by EPA Method 300. Laboratory analytical results for the soil and groundwater

samples are summarized in **Table 2**. The executed chain-of-custody form and laboratory data sheets are provided in **Appendix B.**

Sampling equipment was cleaned using an Olaquindox® wash and rinsed with distilled water prior to the beginning of the project, and before the collection of each sample. Groundwater samples were collected and placed in laboratory provided glassware, placed on ice in a cooler to preserve temperatures at 4°C or below, and sealed with custody seal. The sample coolers and completed chain of custody forms were relinquished to Pace Analytical in Midland, Texas for analysis within the holding time required by the analytical method.

6.0 DATA EVALUATION

The NMOCD utilizes the NMWQCC Standards for groundwater assessment and corrective action standards, which apply to groundwater bearing units with total dissolved solids (TDS) concentrations of 10,000 milligrams per liter (mg/L) or less. Apex compared the BTEX, TPH GRO/DRO and Chloride concentrations sample reporting limits (RLs) to the NMWQCC standards. The results of the groundwater sample analysis along with the respective NMWQCC standards are provided in **Table 2**. It should be noted that the NMWQCC has not established a protection limit for TPH GRO/DRO in groundwater.

6.1 Sampling Results

Prior to groundwater sample collection, Apex gauged the depth to fluids in each monitoring well as previously defined in Section 5.4 Groundwater Sampling Program. Groundwater elevation data is presented in **Table 1**. Samples were collected from all wells not containing PSH.

Table 2 presents analytical data for groundwater samples collected during the 2021 groundwater monitoring events.

6.1.1 – August 2021

Total Petroleum Hydrocarbons - Gasoline Range Organics/Diesel Range Organics (TPH GRO/DRO)

TPH was not detected in samples collected from MW-1 and MW-3 through MW-6. MW-2 contained a concentration above the laboratory RDL of 0.110 mg/L during the August 2021 sampling event.

Benzene, Toluene, Ethylbenzene and Xylenes

None of the samples collected from monitoring wells MW-1 through MW-6 exhibited concentrations above laboratory RDLs or NMWQCC limits during the August 2021 sampling event.

Chlorides

None of the samples collected from monitoring wells MW-1 through MW-6 exhibited chloride concentrations above NMWQCC limits during the August 2021 sampling event.

6.1.2 – December 2021

Total Petroleum Hydrocarbons - Gasoline Range Organics/Diesel Range Organics (TPH GRO/DRO)

Samples collected from MW-1 through MW-6 contained DRO concentrations of 0.102 mg/l, 0.155 mg/l, 0.0749 J mg/l, 0.0909 J mg/l, 0.0509 J mg/l and 0.118 mg/l, respectively, exceeding laboratory reported detection limits. Extended range DRO concentrations exceed laboratory reporting limits in MW-1 through MW-6 with concentrations of 0.306 mg/l, 0.179 mg/l, 0.199 mg/l, 0.25 mg/l, 0.176 mg/l and 0.211 mg/l, respectively. Concentrations of GRO were non-detect in monitoring wells MW-1 through MW-5. A concentration of 0.0341 J mg/l was reported in MW-6 during the December sampling event. Additionally, Field blank (FB-01) and Equipment blank (EB-01) collected during the December 2021 sampling event contained concentrations of DRO exceeding laboratory reporting limits.

Benzene, Toluene, Ethylbenzene and Xylenes

None of the samples collected from monitoring wells MW-1 through MW-6 exhibited concentrations above NMWQCC limits during the December 2021 sampling event. Benzene concentrations above laboratory MDLs were reported in MW-3 (0.000247 J mg/l), MW-5 (0.000444 J mg/l) and MW-6 (0.000977 J mg/l). Toluene concentrations above laboratory RDLs were reported in MW-5 (0.00112 mg/l) and MW-6 (0.00196 mg/l). Ethylbenzene concentrations above laboratory MDLs were reported in MW-5 (0.000269 J) and MW-6 (0.00066 J). Xylene concentrations above laboratory MDLs were reported in MW-1 (0.000655 J mg/l), MW-3 (0.000362 J mg/l), MW-5 (0.00115 J mg/l) and MW-6 (0.00378 mg/l) during the December 2021 sampling event.

Chlorides

None of the samples collected from monitoring wells MW-1 through MW-6 exhibited chloride concentrations above NMWQCC limits during the December 2021 sampling event.

7.0 FINDINGS AND CONCLUSIONS

Based on the results of this and previous site investigation activities, the extent of affected groundwater has been delineated at the Site. In addition, none of the groundwater samples reported BTEX, TPH or Chloride concentrations exceeding the NMWQCC standards.

8.0 RECOMMENDATIONS

As part of the corrective action activities, Apex is proposing the following:

- Continued groundwater monitoring, on a quarterly basis, to evaluate and monitor the groundwater plume trends and stability.

9.0 REFERENCES

Nicholson, Alexander and Flesch, Alfred 1961. *Geology and Ground-Water Conditions in Southern Lea County, New Mexico*. Groundwater Report 6. United States Geological Survey

Tables

APEX

TABLE 1
Groundwater Elevations
Brahaney Release Site - Lea County, NM

Monitoring Well ID	Measurement Date	Total Depth (Feet)	Depth to PSH (Feet BTOC)	Depth to Water (Feet BTOC)	PSH Thickness (Feet)
MW-1	8/27/2021	105.76	-	99.52	-
MW-1	12/27/2021	105.76	-	99.73	-
MW-2	8/27/2021	122.02	-	103.11	-
MW-2	12/27/2021	122.02	-	103.35	-
MW-3	8/27/2021	107.45	-	96.96	-
MW-3	12/27/2021	107.45	-	97.25	-
MW-4	8/27/2021	104.05	-	96.98	-
MW-4	12/27/2021	104.05	-	97.60	-
MW-5	8/27/2021	102.86	-	97.35	-
MW-5	12/27/2021	102.86	-	97.22	-
MW-6	8/27/2021	101.61	-	99.22	-
MW-6	12/27/2021	101.61	-	99.48	-

BTOC - Below Top-of-Casing

Table 2
Groundwater Analytical
Brahaney Release Site - Lea County, New Mexico

Well	Sample Date	Chloride	Total Dissolved Solids	Sulfates	Benzene	Ethylbenzene	Toluene	Total Xylenes	GRO	DRO	EXT DRO
NMAC 20.6.2.3103 Standards for Groundwater of 10,000 mg/l TDS Concentration or Less		250.0 mg/l	1000.0 mg/l	600.0 mg/l	0.005 mg/l	0.7 mg/l	1 mg/l	0.62 mg/l	NS	NS	NS
MW-1	8/16/2016	64	-	-	0.002	0.00007	0.0003	< 0.0001	<1.00	<1.00	<1.00
MW-1	5/10/2017	58.8	-	-	< 0.005	0.005	0.005	-	-	-	-
MW-1	12/28/2017	57	-	-	< 0.005	0.005	0.005	< 0.005	-	-	-
MW-1	3/22/2018	56.8	-	-	< 0.005	0.005	0.005	< 0.005	-	-	-
MW-1	6/27/2018	55.3	-	-	< 0.000185	0.00019	0.0005	< 0.0005	-	-	-
MW-1	12/12/2018	57.1	-	-	< 0.000185	0.00019	0.0005	< 0.0005	-	-	-
MW-1	4/16/2019	61	-	-	< 0.000214	0.000146	0.000146	< 0.000192	-	-	-
MW-1	8/27/2021	55.7	544	108	< 0.001	< 0.001	< 0.001	< 0.003	<0.100	<0.100	<0.100
MW-1	12/27/2021	59.3	538	110	< 0.001	< 0.001	< 0.001	0.000655 J	<0.100	**0.102**	**0.306**
MW-2	8/16/2016	60		-	< 0.00008	0.00007	0.00006	< 0.0001	<1.00	<1.00	<1.00
MW-2	5/10/2017	56.3		-	< 0.005	0.005	0.005	-	-	-	-
MW-2	12/28/2017	92.7		-	< 0.005	0.005	0.005	< 0.005	-	-	-
MW-2	3/22/2018	52.4		-	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-
MW-2	6/27/2018	52.1		-	< 0.000185	< 0.00019	< 0.0005	< 0.0005	-	-	-
MW-2	12/12/2018	53.4		-	< 0.000185	< 0.00019	< 0.0005	< 0.0005	-	-	-
MW-2	4/16/2019	57.9		-	< 0.000214	< 0.000146	< 0.000146	< 0.000192	-	-	-
MW-2	8/27/2021	53.5	477	110	< 0.001	< 0.001	< 0.001	< 0.003	<0.100	0.11	<0.100
MW-2	12/27/2021	55.7	481	109	< 0.001	< 0.001	< 0.001	< 0.003	<0.100	**0.155**	**0.179**
MW-3	8/16/2016	64			**0.035**	0.004	0.033	0.016	<1.00	<1.00	<1.00
MW-3	5/10/2017	56.4			**0.0156**	< 0.005	0.00555	-	-	-	-
MW-3	12/28/2017	54.8			< 0.005	< 0.005	< 0.005	< 0.005	-	-	-
MW-3	3/22/2018	55.9			< 0.005	< 0.005	< 0.005	< 0.005	-	-	-
MW-3	6/27/2018	66.3			0.00408	< 0.00019	0.00108	< 0.0005	-	-	-
MW-3	12/12/2018	57.2			0.00272	0.0028	0.00146	< 0.0005	-	-	-
MW-3	4/16/2019	62.6			0.00041 J	< 0.000146	0.00038 J	< 0.000192	-	-	-
MW-3	8/27/2021	61.2	524	111	< 0.001	< 0.001	< 0.001	< 0.003	<0.100	<0.100	<0.100
MW-3	12/27/2021	65.3		119	0.000247 J	< 0.001	< 0.001	0.000362 J	<0.100	**0.0749 J**	**0.199**
MW-4	8/16/2016	64			0.005	0.0008	0.004	0.002	<1.00	<1.00	<1.00
MW-4	5/10/2017	57.4			0.0113	< 0.005	0.00628	-	-	-	-
MW-4	12/28/2017	55.3			< 0.005	< 0.005	< 0.005	< 0.005	-	-	-
MW-4	3/22/2018	54.8			< 0.005	< 0.005	< 0.005	< 0.005	-	-	-
MW-4	6/27/2018	54.6			0.0035	0.00034	0.00235	0.00155	-	-	-
MW-4	12/12/2018	57.4			0.0042	0.0055	0.00297	0.00267	-	-	-
MW-4	4/16/2019	60.7			0.00239	0.00032 J	0.00171	0.00149	-	-	-
MW-4	8/27/2021	62.6	506	112	< 0.001	< 0.001	< 0.001	< 0.003	<0.100	<0.100	<0.100
MW-4	12/27/2021	66.3		109	< 0.001	< 0.001	< 0.001	< 0.003	<0.100	**0.0909 J**	**0.25**
MW-5	8/16/2016	60			0.007	0.001	0.006	0.002	<1.00	<1.00	<1.00
MW-5	5/10/2017	58.3			0.0139	< 0.005	0.00753	-	-	-	-
MW-5	12/28/2017	81			0.00739	< 0.005	< 0.005	< 0.005	-	-	-
MW-5	3/22/2018	57.6			< 0.005	< 0.005	< 0.005	< 0.005	-	-	-
MW-5	6/27/2018	56.6			0.00408	0.00038	0.00256	0.00106	-	-	-
MW-5	12/12/2018	60			0.002	0.0028	0.0014	< 0.0005	-	-	-
MW-5	4/16/2019	63.2			0.00171	0.00021 J	0.00104	0.00087 J	-	-	-
MW-5	8/27/2021	63.9	489	109	< 0.001	< 0.001	< 0.001	< 0.003	<0.100	<0.100	<0.100
MW-5	12/27/2021	64.9		112	0.000444 J	0.000269 J	0.00112	0.00115 J	<0.100	**0.0509 J**	**0.176**
MW-6	8/16/2016	60			0.007	0.0009	0.005	0.002	<1.00	<1.00	<1.00
MW-6	5/10/2017	55.4			< 0.005	< 0.005	< 0.005	-	-	-	-
MW-6	12/28/2017	83.2			0.00642	< 0.005	< 0.005	< 0.005	-	-	-
MW-6	3/22/2018	53.7			< 0.005	< 0.005	< 0.005	< 0.005	-	-	-
MW-6	6/27/2018	54.1			0.00536	0.00026	0.00212	< 0.0005	-	-	-
MW-6	12/12/2018	56.4			0.00514	0.0035	0.00201	0.00176	-	-	-
MW-6	4/16/2019	60.3			0.00044 J	< 0.000146	0.00021 J	< 0.000192	-	-	-
MW-6	8/27/2021	61.2	514	113	< 0.001	< 0.001	< 0.001	< 0.003	<0.100	<0.100	<0.100
MW-6	12/27/2021	64.6		109	0.000977 J	0.00066 J	0.00196	0.00378	**0.0341 J**	**0.118**	**0.211**

NS - Not Specified

TABLE 3
Groundwater Natural Attenuation Parameters
Brahaney Release Site - Lea County, NM

Monitoring Well ID	Measurement Date	Temperature (°Celsius)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (µS/cm)
MW-1	8/27/2021	26.99	7.15	6.65	119.0	784.0
MW-1	12/27/2021	19.20	7.48	4.17	33.8	874.0
MW-2	8/27/2021	27.54	7.47	6.27	95.0	701.0
MW-2	12/27/2021	18.40	7.73	5.38	37.2	735.0
MW-3	8/27/2021	24.05	7.40	4.97	113.0	760.0
MW-3	12/27/2021	18.60	7.73	5.26	35.0	789.0
MW-4	8/27/2021	23.80	7.46	5.90	107.0	753.0
MW-4	12/27/2021	18.40	7.73	5.24	35.9	807.0
MW-5	8/27/2021	27.53	7.50	5.73	108.0	749.0
MW-5	12/27/2021	18.90	7.78	4.90	31.6	769.0
MW-6	8/27/2021	29.50	7.43	4.82	111.0	743.0
MW-6	12/27/2021	18.10	7.70	5.34	38.0	844.0

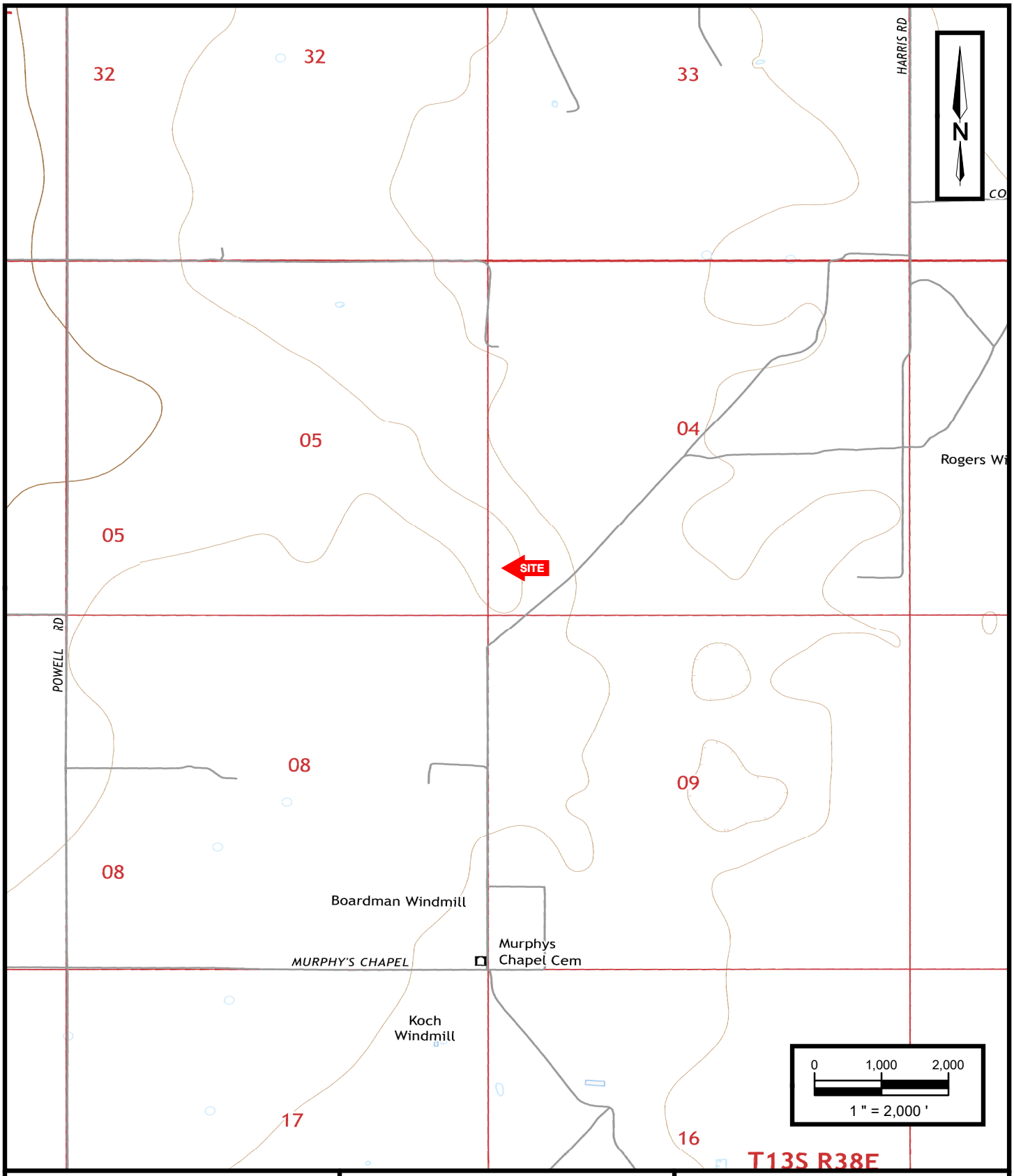
mg/L- milligrams per Liter

mV - millivolts

µS/cm - microsiemens/centimeter

ND-No Data

Figures



Groundwater Monitoring Report
Centurion Pipeline L. P.
Brahaney Release Site
Lea County, NM
33.21341 N, 103.1996 W

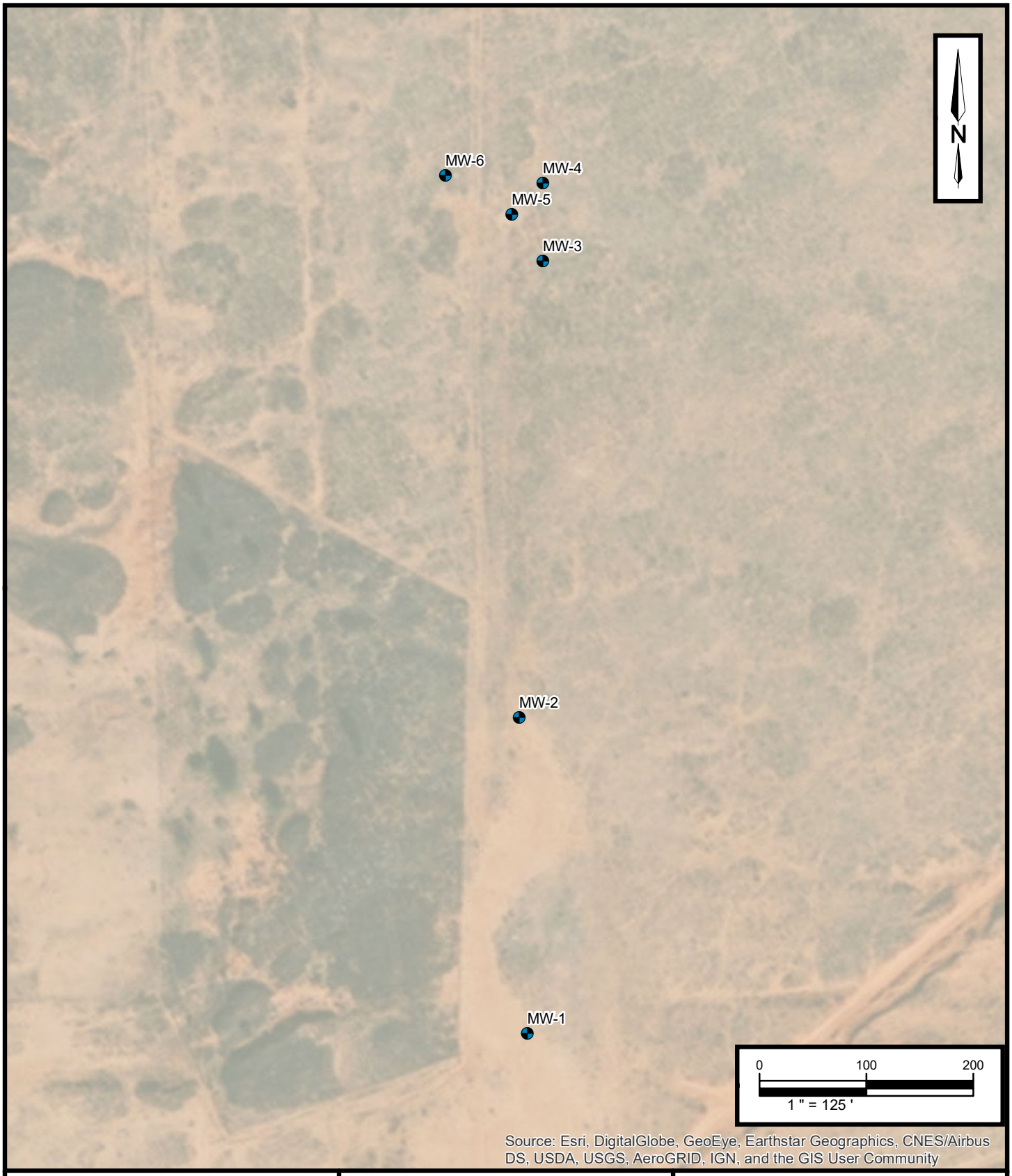
Project No. CEN21-004

Apex Companies, LLC
505 N Big Spring St., Suite 301A
Midland, Texas 79701
Phone: (432) 695-6016
www.apexcos.com

FIGURE 1

Brahaney

C:\Users\aaron.sides\gis\Brahaney\Fig 1 Brahaney.mxd 3/9/2022 GCS North American 1983 Projected Coordinate System



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Apex Companies, LLC
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FIGURE 2

Brahaney

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APPENDIX A

Laboratory Analytical Reports

ANALYTICAL REPORT

September 15, 2021

Apex - Midland, TX

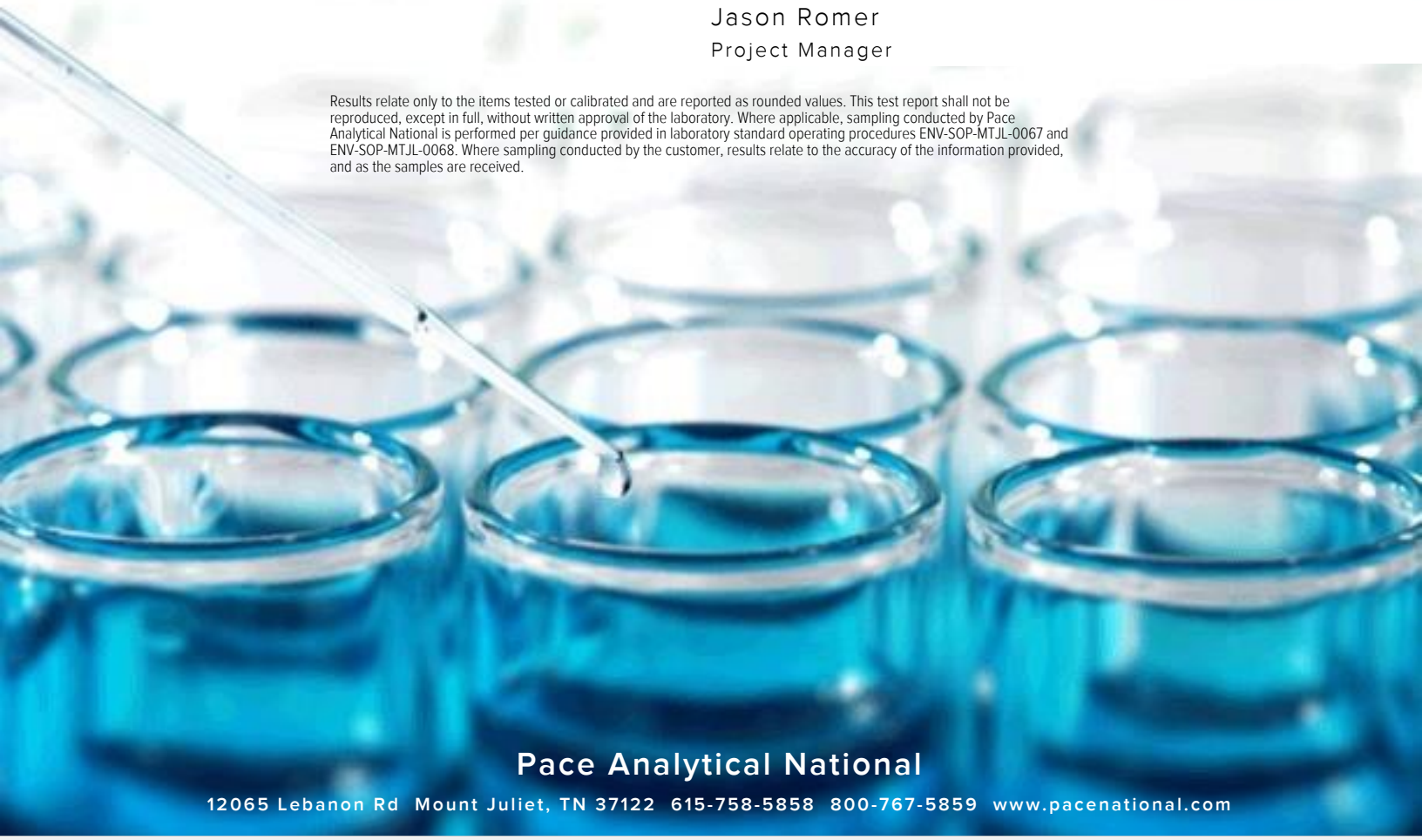
Sample Delivery Group:	L1397223
Samples Received:	08/31/2021
Project Number:	CEN21-004
Description:	Brahaney (South)

Report To: Hank McConnell
505 N. Big Spring Street
Suite 301A
Midland, TX 79701

Entire Report Reviewed By:

Jason Romer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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MW-2 (L1 MW-N) L1397223-01 GW

Collected by: JF/EM
Collected date/time: 08/27/21 11:50
Received date/time: 08/31/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1733150	1	09/01/21 12:45	09/01/21 13:27	VRP	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1733439	5	09/02/21 18:15	09/02/21 18:15	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1736554	1	09/08/21 09:30	09/08/21 09:30	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1736637	1	09/08/21 16:02	09/08/21 16:02	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1735749	1	09/08/21 07:21	09/11/21 18:46	WCR	Mt. Juliet, TN

MW-1 (L1 MW-S) L1397223-02 GW

Collected by: JF/EM
Collected date/time: 08/27/21 13:15
Received date/time: 08/31/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1733150	1	09/01/21 12:45	09/01/21 13:27	VRP	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1733439	5	09/02/21 18:31	09/02/21 18:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1736554	1	09/08/21 09:52	09/08/21 09:52	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1736637	1	09/08/21 16:22	09/08/21 16:22	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1735749	1	09/08/21 07:21	09/11/21 19:06	WCR	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	477		10.0	1	09/01/2021 13:27	WG1733150

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	53.5		5.00	5	09/02/2021 18:15	WG1733439
Sulfate	110		25.0	5	09/02/2021 18:15	WG1733439

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	09/08/2021 09:30	WG1736554
(S) a,a,a-Trifluorotoluene(FID)	*95.1*		*78.0-120*		*09/08/2021 09:30*	WG1736554

Sample Narrative:

L1397223-01 WG1736554: Non-target compounds too high to run at a lower dilution.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	09/08/2021 16:02	WG1736637
Acrolein	ND		0.0500	1	09/08/2021 16:02	WG1736637
Acrylonitrile	ND		0.0100	1	09/08/2021 16:02	WG1736637
Benzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
Bromobenzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
Bromodichloromethane	ND		0.00100	1	09/08/2021 16:02	WG1736637
Bromoform	ND		0.00100	1	09/08/2021 16:02	WG1736637
Bromomethane	ND	C3	0.00500	1	09/08/2021 16:02	WG1736637
n-Butylbenzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
sec-Butylbenzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
tert-Butylbenzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
Carbon tetrachloride	ND		0.00100	1	09/08/2021 16:02	WG1736637
Chlorobenzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
Chlorodibromomethane	ND		0.00100	1	09/08/2021 16:02	WG1736637
Chloroethane	ND		0.00500	1	09/08/2021 16:02	WG1736637
Chloroform	ND		0.00500	1	09/08/2021 16:02	WG1736637
Chloromethane	ND		0.00250	1	09/08/2021 16:02	WG1736637
2-Chlorotoluene	ND		0.00100	1	09/08/2021 16:02	WG1736637
4-Chlorotoluene	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	09/08/2021 16:02	WG1736637
1,2-Dibromoethane	ND		0.00100	1	09/08/2021 16:02	WG1736637
Dibromomethane	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,2-Dichlorobenzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,3-Dichlorobenzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,4-Dichlorobenzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
Dichlorodifluoromethane	ND		0.00500	1	09/08/2021 16:02	WG1736637
1,1-Dichloroethane	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,2-Dichloroethane	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,1-Dichloroethene	ND		0.00100	1	09/08/2021 16:02	WG1736637
cis-1,2-Dichloroethene	ND		0.00100	1	09/08/2021 16:02	WG1736637
trans-1,2-Dichloroethene	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,2-Dichloropropane	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,1-Dichloropropene	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,3-Dichloropropane	ND		0.00100	1	09/08/2021 16:02	WG1736637

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
cis-1,3-Dichloropropene	ND		0.00100	1	09/08/2021 16:02	WG1736637
trans-1,3-Dichloropropene	ND		0.00100	1	09/08/2021 16:02	WG1736637
2,2-Dichloropropane	ND		0.00100	1	09/08/2021 16:02	WG1736637
Di-isopropyl ether	ND		0.00100	1	09/08/2021 16:02	WG1736637
Ethylbenzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
Hexachloro-1,3-butadiene	ND		0.00100	1	09/08/2021 16:02	WG1736637
Isopropylbenzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
p-Isopropyltoluene	ND		0.00100	1	09/08/2021 16:02	WG1736637
2-Butanone (MEK)	ND		0.0100	1	09/08/2021 16:02	WG1736637
Methylene Chloride	ND	J4	0.00500	1	09/08/2021 16:02	WG1736637
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	09/08/2021 16:02	WG1736637
Methyl tert-butyl ether	ND		0.00100	1	09/08/2021 16:02	WG1736637
Naphthalene	ND		0.00500	1	09/08/2021 16:02	WG1736637
n-Propylbenzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
Styrene	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,1,1,2-Tetrachloroethane	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,1,2,2-Tetrachloroethane	ND		0.00100	1	09/08/2021 16:02	WG1736637
Tetrachloroethene	ND		0.00100	1	09/08/2021 16:02	WG1736637
Toluene	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,2,3-Trichlorobenzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,2,4-Trichlorobenzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,1,1-Trichloroethane	ND		0.00100	1	09/08/2021 16:02	WG1736637
1,1,2-Trichloroethane	ND		0.00100	1	09/08/2021 16:02	WG1736637
Trichloroethene	ND		0.00100	1	09/08/2021 16:02	WG1736637
Trichlorofluoromethane	ND		0.00500	1	09/08/2021 16:02	WG1736637
1,2,3-Trichloropropane	ND		0.00250	1	09/08/2021 16:02	WG1736637
1,2,4-Trimethylbenzene	ND	J4	0.00100	1	09/08/2021 16:02	WG1736637
1,3,5-Trimethylbenzene	ND		0.00100	1	09/08/2021 16:02	WG1736637
Vinyl chloride	ND		0.00100	1	09/08/2021 16:02	WG1736637
Xylenes, Total	ND		0.00300	1	09/08/2021 16:02	WG1736637
(S) Toluene-d8	*97.3*		*80.0-120*		*09/08/2021 16:02*	WG1736637
(S) 4-Bromofluorobenzene	*91.9*		*77.0-126*		*09/08/2021 16:02*	WG1736637
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*09/08/2021 16:02*	WG1736637

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.110		0.100	1	09/11/2021 18:46	WG1735749
C28-C40 Oil Range	ND		0.100	1	09/11/2021 18:46	WG1735749
(S) o-Terphenyl	*99.5*		*52.0-156*		*09/11/2021 18:46*	WG1735749

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	544		10.0	1	09/01/2021 13:27	WG1733150

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	55.7		5.00	5	09/02/2021 18:31	WG1733439
Sulfate	108		25.0	5	09/02/2021 18:31	WG1733439

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	09/08/2021 09:52	WG1736554
(S) a,a,a-Trifluorotoluene(FID)	*94.9*		*78.0-120*		*09/08/2021 09:52*	WG1736554

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	09/08/2021 16:22	WG1736637
Acrolein	ND		0.0500	1	09/08/2021 16:22	WG1736637
Acrylonitrile	ND		0.0100	1	09/08/2021 16:22	WG1736637
Benzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
Bromobenzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
Bromodichloromethane	ND		0.00100	1	09/08/2021 16:22	WG1736637
Bromoform	ND		0.00100	1	09/08/2021 16:22	WG1736637
Bromomethane	ND	C3	0.00500	1	09/08/2021 16:22	WG1736637
n-Butylbenzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
sec-Butylbenzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
tert-Butylbenzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
Carbon tetrachloride	ND		0.00100	1	09/08/2021 16:22	WG1736637
Chlorobenzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
Chlorodibromomethane	ND		0.00100	1	09/08/2021 16:22	WG1736637
Chloroethane	ND		0.00500	1	09/08/2021 16:22	WG1736637
Chloroform	ND		0.00500	1	09/08/2021 16:22	WG1736637
Chloromethane	ND		0.00250	1	09/08/2021 16:22	WG1736637
2-Chlorotoluene	ND		0.00100	1	09/08/2021 16:22	WG1736637
4-Chlorotoluene	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	09/08/2021 16:22	WG1736637
1,2-Dibromoethane	ND		0.00100	1	09/08/2021 16:22	WG1736637
Dibromomethane	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,2-Dichlorobenzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,3-Dichlorobenzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,4-Dichlorobenzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
Dichlorodifluoromethane	ND		0.00500	1	09/08/2021 16:22	WG1736637
1,1-Dichloroethane	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,2-Dichloroethane	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,1-Dichloroethene	ND		0.00100	1	09/08/2021 16:22	WG1736637
cis-1,2-Dichloroethene	ND		0.00100	1	09/08/2021 16:22	WG1736637
trans-1,2-Dichloroethene	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,2-Dichloropropane	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,1-Dichloropropene	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,3-Dichloropropane	ND		0.00100	1	09/08/2021 16:22	WG1736637
cis-1,3-Dichloropropene	ND		0.00100	1	09/08/2021 16:22	WG1736637
trans-1,3-Dichloropropene	ND		0.00100	1	09/08/2021 16:22	WG1736637
2,2-Dichloropropane	ND		0.00100	1	09/08/2021 16:22	WG1736637

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Di-isopropyl ether	ND		0.00100	1	09/08/2021 16:22	WG1736637
Ethylbenzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
Hexachloro-1,3-butadiene	ND		0.00100	1	09/08/2021 16:22	WG1736637
Isopropylbenzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
p-Isopropyltoluene	ND		0.00100	1	09/08/2021 16:22	WG1736637
2-Butanone (MEK)	ND		0.0100	1	09/08/2021 16:22	WG1736637
Methylene Chloride	ND	J4	0.00500	1	09/08/2021 16:22	WG1736637
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	09/08/2021 16:22	WG1736637
Methyl tert-butyl ether	ND		0.00100	1	09/08/2021 16:22	WG1736637
Naphthalene	ND		0.00500	1	09/08/2021 16:22	WG1736637
n-Propylbenzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
Styrene	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,1,1,2-Tetrachloroethane	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,1,2,2-Tetrachloroethane	ND		0.00100	1	09/08/2021 16:22	WG1736637
Tetrachloroethene	ND		0.00100	1	09/08/2021 16:22	WG1736637
Toluene	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,2,3-Trichlorobenzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,2,4-Trichlorobenzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,1,1-Trichloroethane	ND		0.00100	1	09/08/2021 16:22	WG1736637
1,1,2-Trichloroethane	ND		0.00100	1	09/08/2021 16:22	WG1736637
Trichloroethene	ND		0.00100	1	09/08/2021 16:22	WG1736637
Trichlorofluoromethane	ND		0.00500	1	09/08/2021 16:22	WG1736637
1,2,3-Trichloropropane	ND		0.00250	1	09/08/2021 16:22	WG1736637
1,2,4-Trimethylbenzene	ND	J4	0.00100	1	09/08/2021 16:22	WG1736637
1,3,5-Trimethylbenzene	ND		0.00100	1	09/08/2021 16:22	WG1736637
Vinyl chloride	ND		0.00100	1	09/08/2021 16:22	WG1736637
Xylenes, Total	ND		0.00300	1	09/08/2021 16:22	WG1736637
(S) Toluene-d8	*97.1*		*80.0-120*		*09/08/2021 16:22*	WG1736637
(S) 4-Bromofluorobenzene	*89.5*		*77.0-126*		*09/08/2021 16:22*	WG1736637
(S) 1,2-Dichloroethane-d4	*113*		*70.0-130*		*09/08/2021 16:22*	WG1736637

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		0.100	1	09/11/2021 19:06	WG1735749
C28-C40 Oil Range	ND		0.100	1	09/11/2021 19:06	WG1735749
(S) o-Terphenyl	*99.5*		*52.0-156*		*09/11/2021 19:06*	WG1735749

Method Blank (MB)

(MB) R3700058-1 09/01/21 13:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1397224-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1397224-06 09/01/21 13:27 • (DUP) R3700058-3 09/01/21 13:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	514	549	1	6.59	J3	5

L1397224-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1397224-07 09/01/21 13:27 • (DUP) R3700058-4 09/01/21 13:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	516	520	1	0.772		5

Laboratory Control Sample (LCS)

(LCS) R3700058-2 09/01/21 13:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8180	93.0	77.4-123	

Method Blank (MB)

(MB) R3700076-1 09/02/21 12:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1397115-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1397115-01 09/02/21 14:48 • (DUP) R3700076-3 09/02/21 15:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	16.3	16.3	1	0.303		20
Sulfate	90.6	90.6	1	0.00927		20

L1397224-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1397224-02 09/02/21 19:03 • (DUP) R3700076-6 09/02/21 19:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	61.2	60.0	5	2.05		20
Sulfate	111	109	5	1.81		20

Laboratory Control Sample (LCS)

(LCS) R3700076-2 09/02/21 12:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.5	98.8	90.0-110	
Sulfate	40.0	40.1	100	90.0-110	

L1397119-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1397119-01 09/02/21 15:20 • (MS) R3700076-4 09/02/21 15:36 • (MSD) R3700076-5 09/02/21 15:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	16.2	66.1	67.2	99.8	102	1	80.0-120			1.62	20
Sulfate	50.0	93.7	136	137	85.5	86.9	1	80.0-120	E	E	0.523	20

L1397224-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1397224-03 09/02/21 19:34 • (MS) R3700076-7 09/02/21 20:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	ND	49.3	97.8	1	80.0-120	
Sulfate	50.0	ND	49.3	98.6	1	80.0-120	

Method Blank (MB)

(MB) R3702482-3 09/08/21 03:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*94.6*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3702482-2 09/08/21 02:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.88	107	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*103*	*78.0-120*	

Method Blank (MB)

(MB) R3701720-4 09/08/21 13:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromobenzene	U		0.000118	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
2-Chlorotoluene	U		0.000106	0.00100
4-Chlorotoluene	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
1,2-Dibromoethane	U		0.000126	0.00100
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
2,2-Dichloropropane	U		0.000161	0.00100
Di-isopropyl ether	U		0.000105	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000490	0.00100

Method Blank (MB)

(MB) R3701720-4 09/08/21 13:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*99.3*			*80.0-120*
(S) 4-Bromofluorobenzene	*92.7*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3701720-1 09/08/21 12:16 • (LCSD) R3701720-2 09/08/21 12:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0333	0.0335	133	134	19.0-160			0.599	27
Acrolein	0.0250	0.0381	0.0398	152	159	10.0-160			4.36	26
Acrylonitrile	0.0250	0.0300	0.0295	120	118	55.0-149			1.68	20
Benzene	0.00500	0.00557	0.00584	111	117	70.0-123			4.73	20
Bromobenzene	0.00500	0.00541	0.00545	108	109	73.0-121			0.737	20
Bromodichloromethane	0.00500	0.00565	0.00575	113	115	75.0-120			1.75	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3701720-1 09/08/21 12:16 • (LCSD) R3701720-2 09/08/21 12:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.00500	0.00499	0.00514	99.8	103	68.0-132			2.96	20
Bromomethane	0.00500	0.00220	0.00258	44.0	51.6	10.0-160			15.9	25
n-Butylbenzene	0.00500	0.00499	0.00530	99.8	106	73.0-125			6.03	20
sec-Butylbenzene	0.00500	0.00510	0.00546	102	109	75.0-125			6.82	20
tert-Butylbenzene	0.00500	0.00494	0.00530	98.8	106	76.0-124			7.03	20
Carbon tetrachloride	0.00500	0.00547	0.00570	109	114	68.0-126			4.12	20
Chlorobenzene	0.00500	0.00520	0.00539	104	108	80.0-121			3.59	20
Chlorodibromomethane	0.00500	0.00512	0.00516	102	103	77.0-125			0.778	20
Chloroethane	0.00500	0.00605	0.00635	121	127	47.0-150			4.84	20
Chloroform	0.00500	0.00558	0.00593	112	119	73.0-120			6.08	20
Chloromethane	0.00500	0.00409	0.00452	81.8	90.4	41.0-142			9.99	20
2-Chlorotoluene	0.00500	0.00523	0.00570	105	114	76.0-123			8.60	20
4-Chlorotoluene	0.00500	0.00532	0.00539	106	108	75.0-122			1.31	20
1,2-Dibromo-3-Chloropropane	0.00500	0.00474	0.00422	94.8	84.4	58.0-134			11.6	20
1,2-Dibromoethane	0.00500	0.00504	0.00497	101	99.4	80.0-122			1.40	20
Dibromomethane	0.00500	0.00537	0.00558	107	112	80.0-120			3.84	20
1,2-Dichlorobenzene	0.00500	0.00536	0.00540	107	108	79.0-121			0.744	20
1,3-Dichlorobenzene	0.00500	0.00513	0.00513	103	103	79.0-120			0.000	20
1,4-Dichlorobenzene	0.00500	0.00506	0.00518	101	104	79.0-120			2.34	20
Dichlorodifluoromethane	0.00500	0.00512	0.00542	102	108	51.0-149			5.69	20
1,1-Dichloroethane	0.00500	0.00600	0.00619	120	124	70.0-126			3.12	20
1,2-Dichloroethane	0.00500	0.00603	0.00593	121	119	70.0-128			1.67	20
1,1-Dichloroethene	0.00500	0.00532	0.00577	106	115	71.0-124			8.12	20
cis-1,2-Dichloroethene	0.00500	0.00540	0.00558	108	112	73.0-120			3.28	20
trans-1,2-Dichloroethene	0.00500	0.00546	0.00559	109	112	73.0-120			2.35	20
1,2-Dichloropropane	0.00500	0.00593	0.00577	119	115	77.0-125			2.74	20
1,1-Dichloropropene	0.00500	0.00557	0.00585	111	117	74.0-126			4.90	20
1,3-Dichloropropane	0.00500	0.00552	0.00553	110	111	80.0-120			0.181	20
cis-1,3-Dichloropropene	0.00500	0.00569	0.00569	114	114	80.0-123			0.000	20
trans-1,3-Dichloropropene	0.00500	0.00533	0.00543	107	109	78.0-124			1.86	20
2,2-Dichloropropane	0.00500	0.00568	0.00598	114	120	58.0-130			5.15	20
Di-isopropyl ether	0.00500	0.00613	0.00610	123	122	58.0-138			0.491	20
Ethylbenzene	0.00500	0.00528	0.00555	106	111	79.0-123			4.99	20
Hexachloro-1,3-butadiene	0.00500	0.00498	0.00572	99.6	114	54.0-138			13.8	20
Isopropylbenzene	0.00500	0.00514	0.00553	103	111	76.0-127			7.31	20
p-Isopropyltoluene	0.00500	0.00527	0.00546	105	109	76.0-125			3.54	20
2-Butanone (MEK)	0.0250	0.0305	0.0306	122	122	44.0-160			0.327	20
Methylene Chloride	0.00500	0.00612	0.00633	122	127	67.0-120	J4	J4	3.37	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0298	0.0296	119	118	68.0-142			0.673	20
Methyl tert-butyl ether	0.00500	0.00571	0.00572	114	114	68.0-125			0.175	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3701720-1 09/08/21 12:16 • (LCSD) R3701720-2 09/08/21 12:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.00500	0.00549	0.00474	110	94.8	54.0-135			14.7	20
n-Propylbenzene	0.00500	0.00517	0.00549	103	110	77.0-124			6.00	20
Styrene	0.00500	0.00493	0.00489	98.6	97.8	73.0-130			0.815	20
1,1,1,2-Tetrachloroethane	0.00500	0.00501	0.00520	100	104	75.0-125			3.72	20
1,1,2,2-Tetrachloroethane	0.00500	0.00547	0.00531	109	106	65.0-130			2.97	20
Tetrachloroethene	0.00500	0.00527	0.00586	105	117	72.0-132			10.6	20
Toluene	0.00500	0.00514	0.00537	103	107	79.0-120			4.38	20
1,2,3-Trichlorobenzene	0.00500	0.00426	0.00467	85.2	93.4	50.0-138			9.18	20
1,2,4-Trichlorobenzene	0.00500	0.00495	0.00517	99.0	103	57.0-137			4.35	20
1,1,1-Trichloroethane	0.00500	0.00547	0.00571	109	114	73.0-124			4.29	20
1,1,2-Trichloroethane	0.00500	0.00509	0.00534	102	107	80.0-120			4.79	20
Trichloroethene	0.00500	0.00588	0.00609	118	122	78.0-124			3.51	20
Trichlorofluoromethane	0.00500	0.00502	0.00535	100	107	59.0-147			6.36	20
1,2,3-Trichloropropane	0.00500	0.00489	0.00481	97.8	96.2	73.0-130			1.65	20
1,2,4-Trimethylbenzene	0.00500	0.00620	0.00576	124	115	76.0-121	J4		7.36	20
1,3,5-Trimethylbenzene	0.00500	0.00586	0.00574	117	115	76.0-122			2.07	20
Vinyl chloride	0.00500	0.00527	0.00546	105	109	67.0-131			3.54	20
Xylenes, Total	0.0150	0.0158	0.0163	105	109	79.0-123			3.12	20
(S) Toluene-d8				*97.7*	*98.0*	*80.0-120*				
(S) 4-Bromofluorobenzene				*96.9*	*96.0*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*107*	*111*	*70.0-130*				

Method Blank (MB)

(MB) R3704295-1 09/11/21 12:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
C10-C28 Diesel Range	U		0.0222	0.100
C28-C40 Oil Range	U		0.0118	0.100
(S) o-Terphenyl	*106*			*52.0-156*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3704295-2 09/11/21 12:38 • (LCSD) R3704295-3 09/11/21 12:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	1.50	1.73	1.70	115	113	50.0-150			1.75	20
(S) o-Terphenyl				*123*	*121*	*52.0-156*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

CHAIN OF CUSTODY RECORD

APEX

Office Location Midland
505 N. Big Spring St. Ste 301A
Midland TX, 79701
Project Manager H.W. McConnell

Laboratory: Pace Analytical
Address: 12065 Lebanon Rd
Mt. Juliet, TN 37122
Contact:
Phone:
PO/SO #: CEN21-004

Sampler's Name: J. Faught, A. Sides
Sampler's Signature: Aaron Sides

Proj. No.: CEN21-004
Project Name: Brahaney (South)

Lab use only
Due Date:
Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5
Page ____ of ____

L-160

L1397223
Lab Sample ID (Lab Use Only)

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Li.	250 ml	Glass Jar	P/O	VOC 8260D	TPH - DRO, GRO, MRO	Chloride 300	TDS, Sulfate 300	
GW	8/27/2021	1150		X	MW-2 (LI MW-N)			7		1		2	X	X	X	X	-01
GW	8/27/2021	1315			MW-1 (LI MW-S)			7				2	X	X	X	X	-02

Sample Receipt Checklist

COC Seal Present/Intact:	Y N	If Applicable	
COC Signed/Accurate:	✓ Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	✓ Y N	Pres.Correct/Check:	Y N
Correct bottles used:	✓ Y N		
Sufficient volume sent:	✓ Y N		
RAD Screen <0.5 mR/hr:	✓ Y N		

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Aaron Sides	8/30/21	1530		8-30-21	15:30
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
				8/31/21	0930

NOTES:
Fed Ex - 1380 7991 3005

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - Sludge; O - Oil
Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other ____

3.2 + 0 = 3.2 Azpl

Pace Analytical®

ANALYTICAL REPORT

September 15, 2021

Apex - Midland, TX

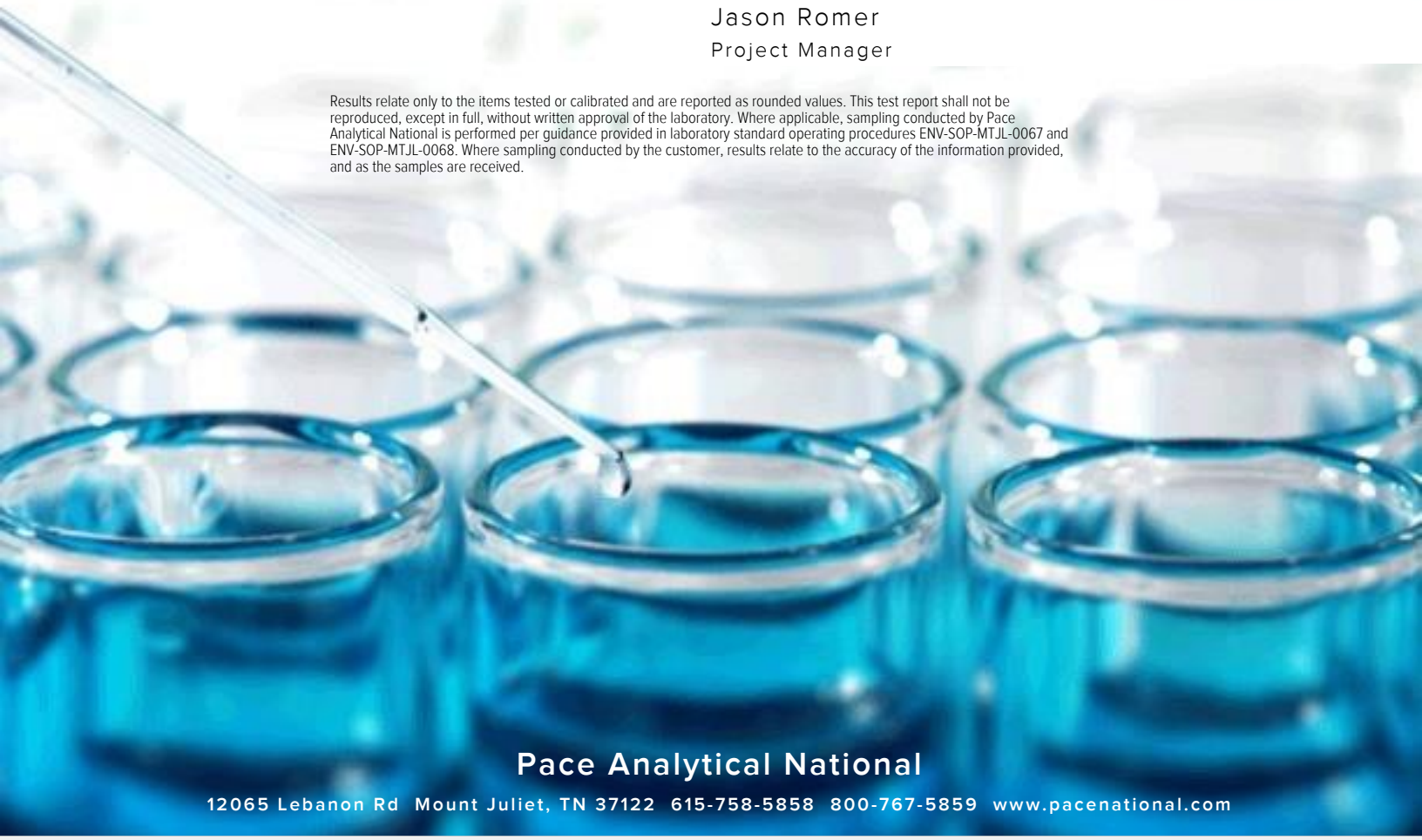
Sample Delivery Group:	L1397224
Samples Received:	08/31/2021
Project Number:	CEN21-004
Description:	Brahaney IRP-2794 (North)

Report To: Hank McConnell
505 N. Big Spring Street
Suite 301A
Midland, TX 79701

Entire Report Reviewed By:

Jason Romer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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MW-5 (L2 MW-1) L1397224-01 GW

Collected by: JF/EM | Collected date/time: 08/27/21 14:35 | Received date/time: 08/31/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1733150	1	09/01/21 12:45	09/01/21 13:27	VRP	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1733439	5	09/02/21 18:47	09/02/21 18:47	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1736216	1	09/08/21 00:46	09/08/21 00:46	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1735460	1	09/05/21 17:27	09/05/21 17:27	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1735749	1	09/08/21 07:21	09/11/21 19:26	WCR	Mt. Juliet, TN

MW-3 (L2 MW-4) L1397224-02 GW

Collected by: JF/EM | Collected date/time: 08/27/21 16:00 | Received date/time: 08/31/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1733150	1	09/01/21 12:45	09/01/21 13:27	VRP	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1733439	5	09/02/21 19:03	09/02/21 19:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1736216	1	09/08/21 01:08	09/08/21 01:08	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1735460	1	09/05/21 17:49	09/05/21 17:49	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1735749	1	09/08/21 07:21	09/11/21 19:46	WCR	Mt. Juliet, TN

EB-01 L1397224-03 GW

Collected by: JF/EM | Collected date/time: 08/27/21 16:05 | Received date/time: 08/31/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1733150	1	09/01/21 12:45	09/01/21 13:27	VRP	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1733439	1	09/02/21 19:34	09/02/21 19:34	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1736216	1	09/08/21 01:30	09/08/21 01:30	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1735460	1	09/05/21 18:10	09/05/21 18:10	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1735749	1	09/08/21 07:21	09/11/21 20:07	WCR	Mt. Juliet, TN

MW-4 (L2 MW-3) L1397224-04 GW

Collected by: JF/EM | Collected date/time: 08/27/21 17:50 | Received date/time: 08/31/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1733150	1	09/01/21 12:45	09/01/21 13:27	VRP	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1733439	5	09/02/21 20:54	09/02/21 20:54	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1736216	1	09/08/21 01:51	09/08/21 01:51	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1735460	1	09/05/21 18:32	09/05/21 18:32	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1735749	1	09/08/21 07:21	09/11/21 20:27	WCR	Mt. Juliet, TN

FB-01 L1397224-05 GW

Collected by: JF/EM | Collected date/time: 08/27/21 18:00 | Received date/time: 08/31/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1733150	1	09/01/21 12:45	09/01/21 13:27	VRP	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1733439	1	09/02/21 21:10	09/02/21 21:10	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1736216	1	09/08/21 02:13	09/08/21 02:13	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1734561	1	09/03/21 16:21	09/03/21 16:21	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1735751	1	09/08/21 07:15	09/12/21 08:35	DMG	Mt. Juliet, TN

MW-6 (L2 MW-2) L1397224-06 GW

Collected by: JF/EM | Collected date/time: 08/27/21 19:25 | Received date/time: 08/31/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1733150	1	09/01/21 12:45	09/01/21 13:27	VRP	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1733439	1	09/02/21 21:26	09/02/21 21:26	ELN	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1733439	5	09/02/21 21:42	09/02/21 21:42	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1736216	1	09/08/21 02:34	09/08/21 02:34	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1735460	1	09/05/21 18:54	09/05/21 18:54	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1735751	1	09/08/21 07:15	09/12/21 09:27	DMG	Mt. Juliet, TN

DUP-01 L1397224-07 GW

Collected by: JF/EM | Collected date/time: 08/27/21 00:00 | Received date/time: 08/31/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1733150	1	09/01/21 12:45	09/01/21 13:27	VRP	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1733439	5	09/02/21 21:58	09/02/21 21:58	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1736216	1	09/08/21 02:56	09/08/21 02:56	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1735460	1	09/05/21 19:15	09/05/21 19:15	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1735751	1	09/08/21 07:15	09/12/21 09:01	DMG	Mt. Juliet, TN

TRIP BLANK L1397224-08 GW

Collected by: JF/EM | Collected date/time: 08/27/21 00:00 | Received date/time: 08/31/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1734561	1	09/03/21 16:01	09/03/21 16:01	ADM	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	489		10.0	1	09/01/2021 13:27	WG1733150

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	61.8		5.00	5	09/02/2021 18:47	WG1733439
Sulfate	109		25.0	5	09/02/2021 18:47	WG1733439

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	09/08/2021 00:46	WG1736216
(S) a,a,a-Trifluorotoluene(FID)	*111*		*78.0-120*		*09/08/2021 00:46*	WG1736216

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	09/05/2021 17:27	WG1735460
Acrolein	ND	C3	0.0500	1	09/05/2021 17:27	WG1735460
Acrylonitrile	ND		0.0100	1	09/05/2021 17:27	WG1735460
Benzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
Bromobenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
Bromodichloromethane	ND		0.00100	1	09/05/2021 17:27	WG1735460
Bromoform	ND		0.00100	1	09/05/2021 17:27	WG1735460
Bromomethane	ND	C3	0.00500	1	09/05/2021 17:27	WG1735460
n-Butylbenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
sec-Butylbenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
tert-Butylbenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
Carbon tetrachloride	ND		0.00100	1	09/05/2021 17:27	WG1735460
Chlorobenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
Chlorodibromomethane	ND		0.00100	1	09/05/2021 17:27	WG1735460
Chloroethane	ND	C3	0.00500	1	09/05/2021 17:27	WG1735460
Chloroform	ND		0.00500	1	09/05/2021 17:27	WG1735460
Chloromethane	ND		0.00250	1	09/05/2021 17:27	WG1735460
2-Chlorotoluene	ND		0.00100	1	09/05/2021 17:27	WG1735460
4-Chlorotoluene	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	09/05/2021 17:27	WG1735460
1,2-Dibromoethane	ND		0.00100	1	09/05/2021 17:27	WG1735460
Dibromomethane	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,2-Dichlorobenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,3-Dichlorobenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,4-Dichlorobenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
Dichlorodifluoromethane	ND		0.00500	1	09/05/2021 17:27	WG1735460
1,1-Dichloroethane	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,2-Dichloroethane	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,1-Dichloroethene	ND		0.00100	1	09/05/2021 17:27	WG1735460
cis-1,2-Dichloroethene	ND		0.00100	1	09/05/2021 17:27	WG1735460
trans-1,2-Dichloroethene	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,2-Dichloropropane	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,1-Dichloropropene	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,3-Dichloropropane	ND		0.00100	1	09/05/2021 17:27	WG1735460
cis-1,3-Dichloropropene	ND		0.00100	1	09/05/2021 17:27	WG1735460
trans-1,3-Dichloropropene	ND		0.00100	1	09/05/2021 17:27	WG1735460
2,2-Dichloropropane	ND		0.00100	1	09/05/2021 17:27	WG1735460

MW-3 (L2 MW-1)
Collected date/time: 08/27/21 14:35
L1397224

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Di-isopropyl ether	ND		0.00100	1	09/05/2021 17:27	WG1735460
Ethylbenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
Hexachloro-1,3-butadiene	ND		0.00100	1	09/05/2021 17:27	WG1735460
Isopropylbenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
p-Isopropyltoluene	ND		0.00100	1	09/05/2021 17:27	WG1735460
2-Butanone (MEK)	ND		0.0100	1	09/05/2021 17:27	WG1735460
Methylene Chloride	ND		0.00500	1	09/05/2021 17:27	WG1735460
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	09/05/2021 17:27	WG1735460
Methyl tert-butyl ether	ND		0.00100	1	09/05/2021 17:27	WG1735460
Naphthalene	ND		0.00500	1	09/05/2021 17:27	WG1735460
n-Propylbenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
Styrene	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,1,1,2-Tetrachloroethane	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,1,2,2-Tetrachloroethane	ND		0.00100	1	09/05/2021 17:27	WG1735460
Tetrachloroethene	ND		0.00100	1	09/05/2021 17:27	WG1735460
Toluene	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,2,3-Trichlorobenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,2,4-Trichlorobenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,1,1-Trichloroethane	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,1,2-Trichloroethane	ND		0.00100	1	09/05/2021 17:27	WG1735460
Trichloroethene	ND	J4	0.00100	1	09/05/2021 17:27	WG1735460
Trichlorofluoromethane	ND		0.00500	1	09/05/2021 17:27	WG1735460
1,2,3-Trichloropropane	ND		0.00250	1	09/05/2021 17:27	WG1735460
1,2,4-Trimethylbenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
1,3,5-Trimethylbenzene	ND		0.00100	1	09/05/2021 17:27	WG1735460
Vinyl chloride	ND	C3 J4	0.00100	1	09/05/2021 17:27	WG1735460
Xylenes, Total	ND		0.00300	1	09/05/2021 17:27	WG1735460
(S) Toluene-d8	*108*		*80.0-120*		*09/05/2021 17:27*	WG1735460
(S) 4-Bromofluorobenzene	*111*		*77.0-126*		*09/05/2021 17:27*	WG1735460
(S) 1,2-Dichloroethane-d4	*104*		*70.0-130*		*09/05/2021 17:27*	WG1735460

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		0.100	1	09/11/2021 19:26	WG1735749
C28-C40 Oil Range	ND		0.100	1	09/11/2021 19:26	WG1735749
(S) o-Terphenyl	*100*		*52.0-156*		*09/11/2021 19:26*	WG1735749

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	524		10.0	1	09/01/2021 13:27	WG1733150

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	61.2		5.00	5	09/02/2021 19:03	WG1733439
Sulfate	111		25.0	5	09/02/2021 19:03	WG1733439

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	09/08/2021 01:08	WG1736216
(S) a,a,a-Trifluorotoluene(FID)	*111*		*78.0-120*		*09/08/2021 01:08*	WG1736216

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	09/05/2021 17:49	WG1735460
Acrolein	ND	C3	0.0500	1	09/05/2021 17:49	WG1735460
Acrylonitrile	ND		0.0100	1	09/05/2021 17:49	WG1735460
Benzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
Bromobenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
Bromodichloromethane	ND		0.00100	1	09/05/2021 17:49	WG1735460
Bromoform	ND		0.00100	1	09/05/2021 17:49	WG1735460
Bromomethane	ND	C3	0.00500	1	09/05/2021 17:49	WG1735460
n-Butylbenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
sec-Butylbenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
tert-Butylbenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
Carbon tetrachloride	ND		0.00100	1	09/05/2021 17:49	WG1735460
Chlorobenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
Chlorodibromomethane	ND		0.00100	1	09/05/2021 17:49	WG1735460
Chloroethane	ND	C3	0.00500	1	09/05/2021 17:49	WG1735460
Chloroform	ND		0.00500	1	09/05/2021 17:49	WG1735460
Chloromethane	ND		0.00250	1	09/05/2021 17:49	WG1735460
2-Chlorotoluene	ND		0.00100	1	09/05/2021 17:49	WG1735460
4-Chlorotoluene	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	09/05/2021 17:49	WG1735460
1,2-Dibromoethane	ND		0.00100	1	09/05/2021 17:49	WG1735460
Dibromomethane	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,2-Dichlorobenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,3-Dichlorobenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,4-Dichlorobenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
Dichlorodifluoromethane	ND		0.00500	1	09/05/2021 17:49	WG1735460
1,1-Dichloroethane	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,2-Dichloroethane	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,1-Dichloroethene	ND		0.00100	1	09/05/2021 17:49	WG1735460
cis-1,2-Dichloroethene	ND		0.00100	1	09/05/2021 17:49	WG1735460
trans-1,2-Dichloroethene	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,2-Dichloropropane	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,1-Dichloropropene	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,3-Dichloropropane	ND		0.00100	1	09/05/2021 17:49	WG1735460
cis-1,3-Dichloropropene	ND		0.00100	1	09/05/2021 17:49	WG1735460
trans-1,3-Dichloropropene	ND		0.00100	1	09/05/2021 17:49	WG1735460
2,2-Dichloropropane	ND		0.00100	1	09/05/2021 17:49	WG1735460

MW-3 (L2 MW-4)
Collected date/time: 08/27/21 16:00
L1397224

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Di-isopropyl ether	ND		0.00100	1	09/05/2021 17:49	WG1735460
Ethylbenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
Hexachloro-1,3-butadiene	ND		0.00100	1	09/05/2021 17:49	WG1735460
Isopropylbenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
p-Isopropyltoluene	ND		0.00100	1	09/05/2021 17:49	WG1735460
2-Butanone (MEK)	ND		0.0100	1	09/05/2021 17:49	WG1735460
Methylene Chloride	ND		0.00500	1	09/05/2021 17:49	WG1735460
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	09/05/2021 17:49	WG1735460
Methyl tert-butyl ether	ND		0.00100	1	09/05/2021 17:49	WG1735460
Naphthalene	ND		0.00500	1	09/05/2021 17:49	WG1735460
n-Propylbenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
Styrene	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,1,1,2-Tetrachloroethane	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,1,2,2-Tetrachloroethane	ND		0.00100	1	09/05/2021 17:49	WG1735460
Tetrachloroethene	ND		0.00100	1	09/05/2021 17:49	WG1735460
Toluene	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,2,3-Trichlorobenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,2,4-Trichlorobenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,1,1-Trichloroethane	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,1,2-Trichloroethane	ND		0.00100	1	09/05/2021 17:49	WG1735460
Trichloroethene	ND	J4	0.00100	1	09/05/2021 17:49	WG1735460
Trichlorofluoromethane	ND		0.00500	1	09/05/2021 17:49	WG1735460
1,2,3-Trichloropropane	ND		0.00250	1	09/05/2021 17:49	WG1735460
1,2,4-Trimethylbenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
1,3,5-Trimethylbenzene	ND		0.00100	1	09/05/2021 17:49	WG1735460
Vinyl chloride	ND	C3 J4	0.00100	1	09/05/2021 17:49	WG1735460
Xylenes, Total	ND		0.00300	1	09/05/2021 17:49	WG1735460
(S) Toluene-d8	*110*		*80.0-120*		*09/05/2021 17:49*	WG1735460
(S) 4-Bromofluorobenzene	*110*		*77.0-126*		*09/05/2021 17:49*	WG1735460
(S) 1,2-Dichloroethane-d4	*105*		*70.0-130*		*09/05/2021 17:49*	WG1735460

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		0.100	1	09/11/2021 19:46	WG1735749
C28-C40 Oil Range	ND		0.100	1	09/11/2021 19:46	WG1735749
(S) o-Terphenyl	*98.4*		*52.0-156*		*09/11/2021 19:46*	WG1735749

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	09/01/2021 13:27	WG1733150

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	ND		1.00	1	09/02/2021 19:34	WG1733439
Sulfate	ND		5.00	1	09/02/2021 19:34	WG1733439

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	09/08/2021 01:30	WG1736216
(S) a,a,a-Trifluorotoluene(FID)	*111*		*78.0-120*		*09/08/2021 01:30*	WG1736216

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	09/05/2021 18:10	WG1735460
Acrolein	ND	C3	0.0500	1	09/05/2021 18:10	WG1735460
Acrylonitrile	ND		0.0100	1	09/05/2021 18:10	WG1735460
Benzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
Bromobenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
Bromodichloromethane	ND		0.00100	1	09/05/2021 18:10	WG1735460
Bromoform	ND		0.00100	1	09/05/2021 18:10	WG1735460
Bromomethane	ND	C3	0.00500	1	09/05/2021 18:10	WG1735460
n-Butylbenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
sec-Butylbenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
tert-Butylbenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
Carbon tetrachloride	ND		0.00100	1	09/05/2021 18:10	WG1735460
Chlorobenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
Chlorodibromomethane	ND		0.00100	1	09/05/2021 18:10	WG1735460
Chloroethane	ND	C3	0.00500	1	09/05/2021 18:10	WG1735460
Chloroform	ND		0.00500	1	09/05/2021 18:10	WG1735460
Chloromethane	ND		0.00250	1	09/05/2021 18:10	WG1735460
2-Chlorotoluene	ND		0.00100	1	09/05/2021 18:10	WG1735460
4-Chlorotoluene	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	09/05/2021 18:10	WG1735460
1,2-Dibromoethane	ND		0.00100	1	09/05/2021 18:10	WG1735460
Dibromomethane	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,2-Dichlorobenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,3-Dichlorobenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,4-Dichlorobenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
Dichlorodifluoromethane	ND		0.00500	1	09/05/2021 18:10	WG1735460
1,1-Dichloroethane	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,2-Dichloroethane	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,1-Dichloroethene	ND		0.00100	1	09/05/2021 18:10	WG1735460
cis-1,2-Dichloroethene	ND		0.00100	1	09/05/2021 18:10	WG1735460
trans-1,2-Dichloroethene	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,2-Dichloropropane	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,1-Dichloropropene	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,3-Dichloropropane	ND		0.00100	1	09/05/2021 18:10	WG1735460
cis-1,3-Dichloropropene	ND		0.00100	1	09/05/2021 18:10	WG1735460
trans-1,3-Dichloropropene	ND		0.00100	1	09/05/2021 18:10	WG1735460
2,2-Dichloropropane	ND		0.00100	1	09/05/2021 18:10	WG1735460

LB-01
Collected date/time: 08/27/21 16:05
L1397224

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Di-isopropyl ether	ND		0.00100	1	09/05/2021 18:10	WG1735460
Ethylbenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
Hexachloro-1,3-butadiene	ND		0.00100	1	09/05/2021 18:10	WG1735460
Isopropylbenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
p-Isopropyltoluene	ND		0.00100	1	09/05/2021 18:10	WG1735460
2-Butanone (MEK)	ND		0.0100	1	09/05/2021 18:10	WG1735460
Methylene Chloride	ND		0.00500	1	09/05/2021 18:10	WG1735460
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	09/05/2021 18:10	WG1735460
Methyl tert-butyl ether	ND		0.00100	1	09/05/2021 18:10	WG1735460
Naphthalene	ND		0.00500	1	09/05/2021 18:10	WG1735460
n-Propylbenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
Styrene	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,1,1,2-Tetrachloroethane	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,1,2,2-Tetrachloroethane	ND		0.00100	1	09/05/2021 18:10	WG1735460
Tetrachloroethene	ND		0.00100	1	09/05/2021 18:10	WG1735460
Toluene	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,2,3-Trichlorobenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,2,4-Trichlorobenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,1,1-Trichloroethane	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,1,2-Trichloroethane	ND		0.00100	1	09/05/2021 18:10	WG1735460
Trichloroethene	ND	J4	0.00100	1	09/05/2021 18:10	WG1735460
Trichlorofluoromethane	ND		0.00500	1	09/05/2021 18:10	WG1735460
1,2,3-Trichloropropane	ND		0.00250	1	09/05/2021 18:10	WG1735460
1,2,4-Trimethylbenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
1,3,5-Trimethylbenzene	ND		0.00100	1	09/05/2021 18:10	WG1735460
Vinyl chloride	ND	C3 J4	0.00100	1	09/05/2021 18:10	WG1735460
Xylenes, Total	ND		0.00300	1	09/05/2021 18:10	WG1735460
(S) Toluene-d8	*108*		*80.0-120*		*09/05/2021 18:10*	WG1735460
(S) 4-Bromofluorobenzene	*111*		*77.0-126*		*09/05/2021 18:10*	WG1735460
(S) 1,2-Dichloroethane-d4	*105*		*70.0-130*		*09/05/2021 18:10*	WG1735460

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		0.100	1	09/11/2021 20:07	WG1735749
C28-C40 Oil Range	ND		0.100	1	09/11/2021 20:07	WG1735749
(S) o-Terphenyl	*105*		*52.0-156*		*09/11/2021 20:07*	WG1735749

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	506		10.0	1	09/01/2021 13:27	WG1733150

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	63.9		5.00	5	09/02/2021 20:54	WG1733439
Sulfate	112		25.0	5	09/02/2021 20:54	WG1733439

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	09/08/2021 01:51	WG1736216
(S) a,a,a-Trifluorotoluene(FID)	*111*		*78.0-120*		*09/08/2021 01:51*	WG1736216

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	09/05/2021 18:32	WG1735460
Acrolein	ND	C3	0.0500	1	09/05/2021 18:32	WG1735460
Acrylonitrile	ND		0.0100	1	09/05/2021 18:32	WG1735460
Benzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
Bromobenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
Bromodichloromethane	ND		0.00100	1	09/05/2021 18:32	WG1735460
Bromoform	ND		0.00100	1	09/05/2021 18:32	WG1735460
Bromomethane	ND	C3	0.00500	1	09/05/2021 18:32	WG1735460
n-Butylbenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
sec-Butylbenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
tert-Butylbenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
Carbon tetrachloride	ND		0.00100	1	09/05/2021 18:32	WG1735460
Chlorobenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
Chlorodibromomethane	ND		0.00100	1	09/05/2021 18:32	WG1735460
Chloroethane	ND	C3	0.00500	1	09/05/2021 18:32	WG1735460
Chloroform	ND		0.00500	1	09/05/2021 18:32	WG1735460
Chloromethane	ND		0.00250	1	09/05/2021 18:32	WG1735460
2-Chlorotoluene	ND		0.00100	1	09/05/2021 18:32	WG1735460
4-Chlorotoluene	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	09/05/2021 18:32	WG1735460
1,2-Dibromoethane	ND		0.00100	1	09/05/2021 18:32	WG1735460
Dibromomethane	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,2-Dichlorobenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,3-Dichlorobenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,4-Dichlorobenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
Dichlorodifluoromethane	ND		0.00500	1	09/05/2021 18:32	WG1735460
1,1-Dichloroethane	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,2-Dichloroethane	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,1-Dichloroethene	ND		0.00100	1	09/05/2021 18:32	WG1735460
cis-1,2-Dichloroethene	ND		0.00100	1	09/05/2021 18:32	WG1735460
trans-1,2-Dichloroethene	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,2-Dichloropropane	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,1-Dichloropropene	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,3-Dichloropropane	ND		0.00100	1	09/05/2021 18:32	WG1735460
cis-1,3-Dichloropropene	ND		0.00100	1	09/05/2021 18:32	WG1735460
trans-1,3-Dichloropropene	ND		0.00100	1	09/05/2021 18:32	WG1735460
2,2-Dichloropropane	ND		0.00100	1	09/05/2021 18:32	WG1735460

MW-4 (L2 MW-3)
Collected date/time: 08/27/21 17:50
L1397224

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Di-isopropyl ether	ND		0.00100	1	09/05/2021 18:32	WG1735460
Ethylbenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
Hexachloro-1,3-butadiene	ND		0.00100	1	09/05/2021 18:32	WG1735460
Isopropylbenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
p-Isopropyltoluene	ND		0.00100	1	09/05/2021 18:32	WG1735460
2-Butanone (MEK)	ND		0.0100	1	09/05/2021 18:32	WG1735460
Methylene Chloride	ND		0.00500	1	09/05/2021 18:32	WG1735460
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	09/05/2021 18:32	WG1735460
Methyl tert-butyl ether	ND		0.00100	1	09/05/2021 18:32	WG1735460
Naphthalene	ND		0.00500	1	09/05/2021 18:32	WG1735460
n-Propylbenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
Styrene	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,1,1,2-Tetrachloroethane	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,1,2,2-Tetrachloroethane	ND		0.00100	1	09/05/2021 18:32	WG1735460
Tetrachloroethene	ND		0.00100	1	09/05/2021 18:32	WG1735460
Toluene	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,2,3-Trichlorobenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,2,4-Trichlorobenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,1,1-Trichloroethane	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,1,2-Trichloroethane	ND		0.00100	1	09/05/2021 18:32	WG1735460
Trichloroethene	ND	J4	0.00100	1	09/05/2021 18:32	WG1735460
Trichlorofluoromethane	ND		0.00500	1	09/05/2021 18:32	WG1735460
1,2,3-Trichloropropane	ND		0.00250	1	09/05/2021 18:32	WG1735460
1,2,4-Trimethylbenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
1,3,5-Trimethylbenzene	ND		0.00100	1	09/05/2021 18:32	WG1735460
Vinyl chloride	ND	C3 J4	0.00100	1	09/05/2021 18:32	WG1735460
Xylenes, Total	ND		0.00300	1	09/05/2021 18:32	WG1735460
(S) Toluene-d8	*107*		*80.0-120*		*09/05/2021 18:32*	WG1735460
(S) 4-Bromofluorobenzene	*109*		*77.0-126*		*09/05/2021 18:32*	WG1735460
(S) 1,2-Dichloroethane-d4	*106*		*70.0-130*		*09/05/2021 18:32*	WG1735460

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		0.100	1	09/11/2021 20:27	WG1735749
C28-C40 Oil Range	ND		0.100	1	09/11/2021 20:27	WG1735749
(S) o-Terphenyl	*101*		*52.0-156*		*09/11/2021 20:27*	WG1735749

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	09/01/2021 13:27	WG1733150

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	ND		1.00	1	09/02/2021 21:10	WG1733439
Sulfate	ND		5.00	1	09/02/2021 21:10	WG1733439

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	09/08/2021 02:13	WG1736216
(S) a,a,a-Trifluorotoluene(FID)	*112*		*78.0-120*		*09/08/2021 02:13*	WG1736216

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND	C3	0.0500	1	09/03/2021 16:21	WG1734561
Acrolein	ND	C3	0.0500	1	09/03/2021 16:21	WG1734561
Acrylonitrile	ND	C3 J4	0.0100	1	09/03/2021 16:21	WG1734561
Benzene	ND		0.00100	1	09/03/2021 16:21	WG1734561
Bromobenzene	ND		0.00100	1	09/03/2021 16:21	WG1734561
Bromodichloromethane	ND		0.00100	1	09/03/2021 16:21	WG1734561
Bromoform	ND		0.00100	1	09/03/2021 16:21	WG1734561
Bromomethane	ND		0.00500	1	09/03/2021 16:21	WG1734561
n-Butylbenzene	ND		0.00100	1	09/03/2021 16:21	WG1734561
sec-Butylbenzene	ND		0.00100	1	09/03/2021 16:21	WG1734561
tert-Butylbenzene	ND		0.00100	1	09/03/2021 16:21	WG1734561
Carbon tetrachloride	ND		0.00100	1	09/03/2021 16:21	WG1734561
Chlorobenzene	ND		0.00100	1	09/03/2021 16:21	WG1734561
Chlorodibromomethane	ND		0.00100	1	09/03/2021 16:21	WG1734561
Chloroethane	ND		0.00500	1	09/03/2021 16:21	WG1734561
Chloroform	ND		0.00500	1	09/03/2021 16:21	WG1734561
Chloromethane	ND	C3	0.00250	1	09/03/2021 16:21	WG1734561
2-Chlorotoluene	ND		0.00100	1	09/03/2021 16:21	WG1734561
4-Chlorotoluene	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,2-Dibromo-3-Chloropropane	ND	C3	0.00500	1	09/03/2021 16:21	WG1734561
1,2-Dibromoethane	ND		0.00100	1	09/03/2021 16:21	WG1734561
Dibromomethane	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,2-Dichlorobenzene	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,3-Dichlorobenzene	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,4-Dichlorobenzene	ND	J4	0.00100	1	09/03/2021 16:21	WG1734561
Dichlorodifluoromethane	ND		0.00500	1	09/03/2021 16:21	WG1734561
1,1-Dichloroethane	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,2-Dichloroethane	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,1-Dichloroethene	ND		0.00100	1	09/03/2021 16:21	WG1734561
cis-1,2-Dichloroethene	ND		0.00100	1	09/03/2021 16:21	WG1734561
trans-1,2-Dichloroethene	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,2-Dichloropropane	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,1-Dichloropropene	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,3-Dichloropropane	ND		0.00100	1	09/03/2021 16:21	WG1734561
cis-1,3-Dichloropropene	ND		0.00100	1	09/03/2021 16:21	WG1734561
trans-1,3-Dichloropropene	ND		0.00100	1	09/03/2021 16:21	WG1734561
2,2-Dichloropropane	ND		0.00100	1	09/03/2021 16:21	WG1734561

PB-01
Collected date/time: 08/27/21 18:00
L1397224

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Di-isopropyl ether	ND	C3	0.00100	1	09/03/2021 16:21	WG1734561
Ethylbenzene	ND		0.00100	1	09/03/2021 16:21	WG1734561
Hexachloro-1,3-butadiene	ND		0.00100	1	09/03/2021 16:21	WG1734561
Isopropylbenzene	ND		0.00100	1	09/03/2021 16:21	WG1734561
p-Isopropyltoluene	ND		0.00100	1	09/03/2021 16:21	WG1734561
2-Butanone (MEK)	ND	C3	0.0100	1	09/03/2021 16:21	WG1734561
Methylene Chloride	ND		0.00500	1	09/03/2021 16:21	WG1734561
4-Methyl-2-pentanone (MIBK)	ND	C3 J4	0.0100	1	09/03/2021 16:21	WG1734561
Methyl tert-butyl ether	ND		0.00100	1	09/03/2021 16:21	WG1734561
Naphthalene	ND		0.00500	1	09/03/2021 16:21	WG1734561
n-Propylbenzene	ND		0.00100	1	09/03/2021 16:21	WG1734561
Styrene	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,1,1,2-Tetrachloroethane	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,1,2,2-Tetrachloroethane	ND	C3	0.00100	1	09/03/2021 16:21	WG1734561
Tetrachloroethene	ND		0.00100	1	09/03/2021 16:21	WG1734561
Toluene	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,2,3-Trichlorobenzene	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,2,4-Trichlorobenzene	ND	J4	0.00100	1	09/03/2021 16:21	WG1734561
1,1,1-Trichloroethane	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,1,2-Trichloroethane	ND		0.00100	1	09/03/2021 16:21	WG1734561
Trichloroethene	ND		0.00100	1	09/03/2021 16:21	WG1734561
Trichlorofluoromethane	ND		0.00500	1	09/03/2021 16:21	WG1734561
1,2,3-Trichloropropane	ND		0.00250	1	09/03/2021 16:21	WG1734561
1,2,4-Trimethylbenzene	ND		0.00100	1	09/03/2021 16:21	WG1734561
1,3,5-Trimethylbenzene	ND		0.00100	1	09/03/2021 16:21	WG1734561
Vinyl chloride	ND		0.00100	1	09/03/2021 16:21	WG1734561
Xylenes, Total	ND		0.00300	1	09/03/2021 16:21	WG1734561
(S) Toluene-d8	*103*		*80.0-120*		*09/03/2021 16:21*	WG1734561
(S) 4-Bromofluorobenzene	*87.3*		*77.0-126*		*09/03/2021 16:21*	WG1734561
(S) 1,2-Dichloroethane-d4	*97.2*		*70.0-130*		*09/03/2021 16:21*	WG1734561

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		0.100	1	09/12/2021 08:35	WG1735751
C28-C40 Oil Range	ND		0.100	1	09/12/2021 08:35	WG1735751
(S) o-Terphenyl	*70.0*		*52.0-156*		*09/12/2021 08:35*	WG1735751

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	514	J3	10.0	1	09/01/2021 13:27	WG1733150

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	62.6		1.00	1	09/02/2021 21:26	WG1733439
Sulfate	113		25.0	5	09/02/2021 21:42	WG1733439

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	09/08/2021 02:34	WG1736216
(S) a,a,a-Trifluorotoluene(FID)	*111*		*78.0-120*		*09/08/2021 02:34*	WG1736216

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	09/05/2021 18:54	WG1735460
Acrolein	ND	C3	0.0500	1	09/05/2021 18:54	WG1735460
Acrylonitrile	ND		0.0100	1	09/05/2021 18:54	WG1735460
Benzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
Bromobenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
Bromodichloromethane	ND		0.00100	1	09/05/2021 18:54	WG1735460
Bromoform	ND		0.00100	1	09/05/2021 18:54	WG1735460
Bromomethane	ND	C3	0.00500	1	09/05/2021 18:54	WG1735460
n-Butylbenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
sec-Butylbenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
tert-Butylbenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
Carbon tetrachloride	ND		0.00100	1	09/05/2021 18:54	WG1735460
Chlorobenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
Chlorodibromomethane	ND		0.00100	1	09/05/2021 18:54	WG1735460
Chloroethane	ND	C3	0.00500	1	09/05/2021 18:54	WG1735460
Chloroform	ND		0.00500	1	09/05/2021 18:54	WG1735460
Chloromethane	ND		0.00250	1	09/05/2021 18:54	WG1735460
2-Chlorotoluene	ND		0.00100	1	09/05/2021 18:54	WG1735460
4-Chlorotoluene	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	09/05/2021 18:54	WG1735460
1,2-Dibromoethane	ND		0.00100	1	09/05/2021 18:54	WG1735460
Dibromomethane	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,2-Dichlorobenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,3-Dichlorobenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,4-Dichlorobenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
Dichlorodifluoromethane	ND		0.00500	1	09/05/2021 18:54	WG1735460
1,1-Dichloroethane	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,2-Dichloroethane	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,1-Dichloroethene	ND		0.00100	1	09/05/2021 18:54	WG1735460
cis-1,2-Dichloroethene	ND		0.00100	1	09/05/2021 18:54	WG1735460
trans-1,2-Dichloroethene	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,2-Dichloropropane	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,1-Dichloropropene	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,3-Dichloropropane	ND		0.00100	1	09/05/2021 18:54	WG1735460
cis-1,3-Dichloropropene	ND		0.00100	1	09/05/2021 18:54	WG1735460
trans-1,3-Dichloropropene	ND		0.00100	1	09/05/2021 18:54	WG1735460
2,2-Dichloropropane	ND		0.00100	1	09/05/2021 18:54	WG1735460

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Di-isopropyl ether	ND		0.00100	1	09/05/2021 18:54	WG1735460
Ethylbenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
Hexachloro-1,3-butadiene	ND		0.00100	1	09/05/2021 18:54	WG1735460
Isopropylbenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
p-Isopropyltoluene	ND		0.00100	1	09/05/2021 18:54	WG1735460
2-Butanone (MEK)	ND		0.0100	1	09/05/2021 18:54	WG1735460
Methylene Chloride	ND		0.00500	1	09/05/2021 18:54	WG1735460
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	09/05/2021 18:54	WG1735460
Methyl tert-butyl ether	ND		0.00100	1	09/05/2021 18:54	WG1735460
Naphthalene	ND		0.00500	1	09/05/2021 18:54	WG1735460
n-Propylbenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
Styrene	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,1,1,2-Tetrachloroethane	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,1,2,2-Tetrachloroethane	ND		0.00100	1	09/05/2021 18:54	WG1735460
Tetrachloroethene	ND		0.00100	1	09/05/2021 18:54	WG1735460
Toluene	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,2,3-Trichlorobenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,2,4-Trichlorobenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,1,1-Trichloroethane	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,1,2-Trichloroethane	ND		0.00100	1	09/05/2021 18:54	WG1735460
Trichloroethene	ND	J4	0.00100	1	09/05/2021 18:54	WG1735460
Trichlorofluoromethane	ND		0.00500	1	09/05/2021 18:54	WG1735460
1,2,3-Trichloropropane	ND		0.00250	1	09/05/2021 18:54	WG1735460
1,2,4-Trimethylbenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
1,3,5-Trimethylbenzene	ND		0.00100	1	09/05/2021 18:54	WG1735460
Vinyl chloride	ND	C3 J4	0.00100	1	09/05/2021 18:54	WG1735460
Xylenes, Total	ND		0.00300	1	09/05/2021 18:54	WG1735460
(S) Toluene-d8	*109*		*80.0-120*		*09/05/2021 18:54*	WG1735460
(S) 4-Bromofluorobenzene	*109*		*77.0-126*		*09/05/2021 18:54*	WG1735460
(S) 1,2-Dichloroethane-d4	*106*		*70.0-130*		*09/05/2021 18:54*	WG1735460

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		0.100	1	09/12/2021 09:27	WG1735751
C28-C40 Oil Range	ND		0.100	1	09/12/2021 09:27	WG1735751
(S) o-Terphenyl	*66.3*		*52.0-156*		*09/12/2021 09:27*	WG1735751

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	516		10.0	1	09/01/2021 13:27	WG1733150

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	62.3		5.00	5	09/02/2021 21:58	WG1733439
Sulfate	109		25.0	5	09/02/2021 21:58	WG1733439

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	09/08/2021 02:56	WG1736216
(S) a,a,a-Trifluorotoluene(FID)	*111*		*78.0-120*		*09/08/2021 02:56*	WG1736216

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	09/05/2021 19:15	WG1735460
Acrolein	ND	C3	0.0500	1	09/05/2021 19:15	WG1735460
Acrylonitrile	ND		0.0100	1	09/05/2021 19:15	WG1735460
Benzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
Bromobenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
Bromodichloromethane	ND		0.00100	1	09/05/2021 19:15	WG1735460
Bromoform	ND		0.00100	1	09/05/2021 19:15	WG1735460
Bromomethane	ND	C3	0.00500	1	09/05/2021 19:15	WG1735460
n-Butylbenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
sec-Butylbenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
tert-Butylbenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
Carbon tetrachloride	ND		0.00100	1	09/05/2021 19:15	WG1735460
Chlorobenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
Chlorodibromomethane	ND		0.00100	1	09/05/2021 19:15	WG1735460
Chloroethane	ND	C3	0.00500	1	09/05/2021 19:15	WG1735460
Chloroform	ND		0.00500	1	09/05/2021 19:15	WG1735460
Chloromethane	ND		0.00250	1	09/05/2021 19:15	WG1735460
2-Chlorotoluene	ND		0.00100	1	09/05/2021 19:15	WG1735460
4-Chlorotoluene	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	09/05/2021 19:15	WG1735460
1,2-Dibromoethane	ND		0.00100	1	09/05/2021 19:15	WG1735460
Dibromomethane	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,2-Dichlorobenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,3-Dichlorobenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,4-Dichlorobenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
Dichlorodifluoromethane	ND		0.00500	1	09/05/2021 19:15	WG1735460
1,1-Dichloroethane	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,2-Dichloroethane	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,1-Dichloroethene	ND		0.00100	1	09/05/2021 19:15	WG1735460
cis-1,2-Dichloroethene	ND		0.00100	1	09/05/2021 19:15	WG1735460
trans-1,2-Dichloroethene	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,2-Dichloropropane	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,1-Dichloropropene	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,3-Dichloropropane	ND		0.00100	1	09/05/2021 19:15	WG1735460
cis-1,3-Dichloropropene	ND		0.00100	1	09/05/2021 19:15	WG1735460
trans-1,3-Dichloropropene	ND		0.00100	1	09/05/2021 19:15	WG1735460
2,2-Dichloropropane	ND		0.00100	1	09/05/2021 19:15	WG1735460

DUP-01
Collected date/time: 08/27/21 00:00
L1397224

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Di-isopropyl ether	ND		0.00100	1	09/05/2021 19:15	WG1735460
Ethylbenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
Hexachloro-1,3-butadiene	ND		0.00100	1	09/05/2021 19:15	WG1735460
Isopropylbenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
p-Isopropyltoluene	ND		0.00100	1	09/05/2021 19:15	WG1735460
2-Butanone (MEK)	ND		0.0100	1	09/05/2021 19:15	WG1735460
Methylene Chloride	ND		0.00500	1	09/05/2021 19:15	WG1735460
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	09/05/2021 19:15	WG1735460
Methyl tert-butyl ether	ND		0.00100	1	09/05/2021 19:15	WG1735460
Naphthalene	ND		0.00500	1	09/05/2021 19:15	WG1735460
n-Propylbenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
Styrene	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,1,1,2-Tetrachloroethane	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,1,2,2-Tetrachloroethane	ND		0.00100	1	09/05/2021 19:15	WG1735460
Tetrachloroethene	ND		0.00100	1	09/05/2021 19:15	WG1735460
Toluene	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,2,3-Trichlorobenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,2,4-Trichlorobenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,1,1-Trichloroethane	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,1,2-Trichloroethane	ND		0.00100	1	09/05/2021 19:15	WG1735460
Trichloroethene	ND	J4	0.00100	1	09/05/2021 19:15	WG1735460
Trichlorofluoromethane	ND		0.00500	1	09/05/2021 19:15	WG1735460
1,2,3-Trichloropropane	ND		0.00250	1	09/05/2021 19:15	WG1735460
1,2,4-Trimethylbenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
1,3,5-Trimethylbenzene	ND		0.00100	1	09/05/2021 19:15	WG1735460
Vinyl chloride	ND	C3 J4	0.00100	1	09/05/2021 19:15	WG1735460
Xylenes, Total	ND		0.00300	1	09/05/2021 19:15	WG1735460
(S) Toluene-d8	*110*		*80.0-120*		*09/05/2021 19:15*	WG1735460
(S) 4-Bromofluorobenzene	*111*		*77.0-126*		*09/05/2021 19:15*	WG1735460
(S) 1,2-Dichloroethane-d4	*106*		*70.0-130*		*09/05/2021 19:15*	WG1735460

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		0.100	1	09/12/2021 09:01	WG1735751
C28-C40 Oil Range	ND		0.100	1	09/12/2021 09:01	WG1735751
(S) o-Terphenyl	*66.3*		*52.0-156*		*09/12/2021 09:01*	WG1735751

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Collected date/time: 08/27/21 00:00
L1397224

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND	C3	0.0500	1	09/03/2021 16:01	WG1734561
Acrolein	ND	C3	0.0500	1	09/03/2021 16:01	WG1734561
Acrylonitrile	ND	C3 J4	0.0100	1	09/03/2021 16:01	WG1734561
Benzene	ND		0.00100	1	09/03/2021 16:01	WG1734561
Bromobenzene	ND		0.00100	1	09/03/2021 16:01	WG1734561
Bromodichloromethane	ND		0.00100	1	09/03/2021 16:01	WG1734561
Bromoform	ND		0.00100	1	09/03/2021 16:01	WG1734561
Bromomethane	ND		0.00500	1	09/03/2021 16:01	WG1734561
n-Butylbenzene	ND		0.00100	1	09/03/2021 16:01	WG1734561
sec-Butylbenzene	ND		0.00100	1	09/03/2021 16:01	WG1734561
tert-Butylbenzene	ND		0.00100	1	09/03/2021 16:01	WG1734561
Carbon tetrachloride	ND		0.00100	1	09/03/2021 16:01	WG1734561
Chlorobenzene	ND		0.00100	1	09/03/2021 16:01	WG1734561
Chlorodibromomethane	ND		0.00100	1	09/03/2021 16:01	WG1734561
Chloroethane	ND		0.00500	1	09/03/2021 16:01	WG1734561
Chloroform	ND		0.00500	1	09/03/2021 16:01	WG1734561
Chloromethane	ND	C3	0.00250	1	09/03/2021 16:01	WG1734561
2-Chlorotoluene	ND		0.00100	1	09/03/2021 16:01	WG1734561
4-Chlorotoluene	ND		0.00100	1	09/03/2021 16:01	WG1734561
1,2-Dibromo-3-Chloropropane	ND	C3	0.00500	1	09/03/2021 16:01	WG1734561
1,2-Dibromoethane	ND		0.00100	1	09/03/2021 16:01	WG1734561
Dibromomethane	ND		0.00100	1	09/03/2021 16:01	WG1734561
1,2-Dichlorobenzene	ND		0.00100	1	09/03/2021 16:01	WG1734561
1,3-Dichlorobenzene	ND		0.00100	1	09/03/2021 16:01	WG1734561
1,4-Dichlorobenzene	ND	J4	0.00100	1	09/03/2021 16:01	WG1734561
Dichlorodifluoromethane	ND		0.00500	1	09/03/2021 16:01	WG1734561
1,1-Dichloroethane	ND		0.00100	1	09/03/2021 16:01	WG1734561
1,2-Dichloroethane	ND		0.00100	1	09/03/2021 16:01	WG1734561
1,1-Dichloroethene	ND		0.00100	1	09/03/2021 16:01	WG1734561
cis-1,2-Dichloroethene	ND		0.00100	1	09/03/2021 16:01	WG1734561
trans-1,2-Dichloroethene	ND		0.00100	1	09/03/2021 16:01	WG1734561
1,2-Dichloropropane	ND		0.00100	1	09/03/2021 16:01	WG1734561
1,1-Dichloropropene	ND		0.00100	1	09/03/2021 16:01	WG1734561
1,3-Dichloropropane	ND		0.00100	1	09/03/2021 16:01	WG1734561
cis-1,3-Dichloropropene	ND		0.00100	1	09/03/2021 16:01	WG1734561
trans-1,3-Dichloropropene	ND		0.00100	1	09/03/2021 16:01	WG1734561
2,2-Dichloropropane	ND		0.00100	1	09/03/2021 16:01	WG1734561
Di-isopropyl ether	ND	C3	0.00100	1	09/03/2021 16:01	WG1734561
Ethylbenzene	ND		0.00100	1	09/03/2021 16:01	WG1734561
Hexachloro-1,3-butadiene	ND		0.00100	1	09/03/2021 16:01	WG1734561
Isopropylbenzene	ND		0.00100	1	09/03/2021 16:01	WG1734561
p-Isopropyltoluene	ND		0.00100	1	09/03/2021 16:01	WG1734561
2-Butanone (MEK)	ND	C3	0.0100	1	09/03/2021 16:01	WG1734561
Methylene Chloride	ND		0.00500	1	09/03/2021 16:01	WG1734561
4-Methyl-2-pentanone (MIBK)	ND	C3 J4	0.0100	1	09/03/2021 16:01	WG1734561
Methyl tert-butyl ether	ND		0.00100	1	09/03/2021 16:01	WG1734561
Naphthalene	ND		0.00500	1	09/03/2021 16:01	WG1734561
n-Propylbenzene	ND		0.00100	1	09/03/2021 16:01	WG1734561
Styrene	ND		0.00100	1	09/03/2021 16:01	WG1734561
1,1,1,2-Tetrachloroethane	ND		0.00100	1	09/03/2021 16:01	WG1734561
1,1,2,2-Tetrachloroethane	ND	C3	0.00100	1	09/03/2021 16:01	WG1734561
Tetrachloroethene	ND		0.00100	1	09/03/2021 16:01	WG1734561
Toluene	ND		0.00100	1	09/03/2021 16:01	WG1734561
1,2,3-Trichlorobenzene	ND		0.00100	1	09/03/2021 16:01	WG1734561
1,2,4-Trichlorobenzene	ND	J4	0.00100	1	09/03/2021 16:01	WG1734561
1,1,1-Trichloroethane	ND		0.00100	1	09/03/2021 16:01	WG1734561

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

TRIP BLANK
Collected date/time: 08/27/21 00:00
L1397224

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00100	1	09/03/2021 16:01	WG1734561
Trichloroethene	ND		0.00100	1	09/03/2021 16:01	WG1734561
Trichlorofluoromethane	ND		0.00500	1	09/03/2021 16:01	WG1734561
1,2,3-Trichloropropane	ND		0.00250	1	09/03/2021 16:01	WG1734561
1,2,4-Trimethylbenzene	ND		0.00100	1	09/03/2021 16:01	WG1734561
1,3,5-Trimethylbenzene	ND		0.00100	1	09/03/2021 16:01	WG1734561
Vinyl chloride	ND		0.00100	1	09/03/2021 16:01	WG1734561
Xylenes, Total	ND		0.00300	1	09/03/2021 16:01	WG1734561
(S) Toluene-d8	*103*		*80.0-120*		*09/03/2021 16:01*	WG1734561
(S) 4-Bromofluorobenzene	*88.9*		*77.0-126*		*09/03/2021 16:01*	WG1734561
(S) 1,2-Dichloroethane-d4	*96.7*		*70.0-130*		*09/03/2021 16:01*	WG1734561

Method Blank (MB)

(MB) R3700058-1 09/01/21 13:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1397224-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1397224-06 09/01/21 13:27 • (DUP) R3700058-3 09/01/21 13:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	514	549	1	6.59	J3	5

L1397224-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1397224-07 09/01/21 13:27 • (DUP) R3700058-4 09/01/21 13:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	516	520	1	0.772		5

Laboratory Control Sample (LCS)

(LCS) R3700058-2 09/01/21 13:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8180	93.0	77.4-123	

Method Blank (MB)

(MB) R3700076-1 09/02/21 12:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1397115-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1397115-01 09/02/21 14:48 • (DUP) R3700076-3 09/02/21 15:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	16.3	16.3	1	0.303		20
Sulfate	90.6	90.6	1	0.00927		20

L1397224-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1397224-02 09/02/21 19:03 • (DUP) R3700076-6 09/02/21 19:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	61.2	60.0	5	2.05		20
Sulfate	111	109	5	1.81		20

Laboratory Control Sample (LCS)

(LCS) R3700076-2 09/02/21 12:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.5	98.8	90.0-110	
Sulfate	40.0	40.1	100	90.0-110	

L1397119-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1397119-01 09/02/21 15:20 • (MS) R3700076-4 09/02/21 15:36 • (MSD) R3700076-5 09/02/21 15:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	16.2	66.1	67.2	99.8	102	1	80.0-120			1.62	20
Sulfate	50.0	93.7	136	137	85.5	86.9	1	80.0-120	E	E	0.523	20

L1397224-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1397224-03 09/02/21 19:34 • (MS) R3700076-7 09/02/21 20:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	ND	49.3	97.8	1	80.0-120	
Sulfate	50.0	ND	49.3	98.6	1	80.0-120	

Method Blank (MB)

(MB) R3701769-2 09/07/21 20:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*113*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3701769-1 09/07/21 19:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.85	106	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*101*	*78.0-120*	

L1396932-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1396932-06 09/07/21 22:37 • (MS) R3701769-3 09/08/21 04:55 • (MSD) R3701769-4 09/08/21 05:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	5.25	5.08	95.5	92.4	1	10.0-160			3.29	22
(S) a,a,a-Trifluorotoluene(FID)					*102*	*97.4*		*78.0-120*				

Method Blank (MB)

(MB) R3700427-3 09/03/21 12:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromobenzene	U		0.000118	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
2-Chlorotoluene	U		0.000106	0.00100
4-Chlorotoluene	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
1,2-Dibromoethane	U		0.000126	0.00100
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
2,2-Dichloropropane	U		0.000161	0.00100
Di-isopropyl ether	U		0.000105	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000490	0.00100

Method Blank (MB)

(MB) R3700427-3 09/03/21 12:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*89.7*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3700427-1 09/03/21 10:42 • (LCSD) R3700427-2 09/03/21 11:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0168	0.0177	67.2	70.8	19.0-160			5.22	27
Acrolein	0.0250	0.00949	0.0115	38.0	46.0	10.0-160			19.2	26
Acrylonitrile	0.0250	0.0133	0.0130	53.2	52.0	55.0-149	J4	J4	2.28	20
Benzene	0.00500	0.00480	0.00483	96.0	96.6	70.0-123			0.623	20
Bromobenzene	0.00500	0.00410	0.00427	82.0	85.4	73.0-121			4.06	20
Bromodichloromethane	0.00500	0.00481	0.00479	96.2	95.8	75.0-120			0.417	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3700427-1 09/03/21 10:42 • (LCSD) R3700427-2 09/03/21 11:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.00500	0.00402	0.00392	80.4	78.4	68.0-132			2.52	20
Bromomethane	0.00500	0.00592	0.00640	118	128	10.0-160			7.79	25
n-Butylbenzene	0.00500	0.00539	0.00547	108	109	73.0-125			1.47	20
sec-Butylbenzene	0.00500	0.00452	0.00452	90.4	90.4	75.0-125			0.000	20
tert-Butylbenzene	0.00500	0.00421	0.00423	84.2	84.6	76.0-124			0.474	20
Carbon tetrachloride	0.00500	0.00473	0.00465	94.6	93.0	68.0-126			1.71	20
Chlorobenzene	0.00500	0.00543	0.00534	109	107	80.0-121			1.67	20
Chlorodibromomethane	0.00500	0.00499	0.00490	99.8	98.0	77.0-125			1.82	20
Chloroethane	0.00500	0.00518	0.00535	104	107	47.0-150			3.23	20
Chloroform	0.00500	0.00469	0.00471	93.8	94.2	73.0-120			0.426	20
Chloromethane	0.00500	0.00340	0.00352	68.0	70.4	41.0-142			3.47	20
2-Chlorotoluene	0.00500	0.00450	0.00451	90.0	90.2	76.0-123			0.222	20
4-Chlorotoluene	0.00500	0.00418	0.00417	83.6	83.4	75.0-122			0.240	20
1,2-Dibromo-3-Chloropropane	0.00500	0.00321	0.00328	64.2	65.6	58.0-134			2.16	20
1,2-Dibromoethane	0.00500	0.00485	0.00478	97.0	95.6	80.0-122			1.45	20
Dibromomethane	0.00500	0.00489	0.00502	97.8	100	80.0-120			2.62	20
1,2-Dichlorobenzene	0.00500	0.00595	0.00607	119	121	79.0-121			2.00	20
1,3-Dichlorobenzene	0.00500	0.00576	0.00589	115	118	79.0-120			2.23	20
1,4-Dichlorobenzene	0.00500	0.00600	0.00616	120	123	79.0-120		J4	2.63	20
Dichlorodifluoromethane	0.00500	0.00483	0.00482	96.6	96.4	51.0-149			0.207	20
1,1-Dichloroethane	0.00500	0.00417	0.00423	83.4	84.6	70.0-126			1.43	20
1,2-Dichloroethane	0.00500	0.00455	0.00456	91.0	91.2	70.0-128			0.220	20
1,1-Dichloroethene	0.00500	0.00427	0.00428	85.4	85.6	71.0-124			0.234	20
cis-1,2-Dichloroethene	0.00500	0.00460	0.00466	92.0	93.2	73.0-120			1.30	20
trans-1,2-Dichloroethene	0.00500	0.00446	0.00453	89.2	90.6	73.0-120			1.56	20
1,2-Dichloropropane	0.00500	0.00454	0.00450	90.8	90.0	77.0-125			0.885	20
1,1-Dichloropropene	0.00500	0.00485	0.00484	97.0	96.8	74.0-126			0.206	20
1,3-Dichloropropane	0.00500	0.00553	0.00533	111	107	80.0-120			3.68	20
cis-1,3-Dichloropropene	0.00500	0.00479	0.00488	95.8	97.6	80.0-123			1.86	20
trans-1,3-Dichloropropene	0.00500	0.00475	0.00474	95.0	94.8	78.0-124			0.211	20
2,2-Dichloropropane	0.00500	0.00519	0.00546	104	109	58.0-130			5.07	20
Di-isopropyl ether	0.00500	0.00367	0.00364	73.4	72.8	58.0-138			0.821	20
Ethylbenzene	0.00500	0.00548	0.00528	110	106	79.0-123			3.72	20
Hexachloro-1,3-butadiene	0.00500	0.00631	0.00688	126	138	54.0-138			8.64	20
Isopropylbenzene	0.00500	0.00479	0.00479	95.8	95.8	76.0-127			0.000	20
p-Isopropyltoluene	0.00500	0.00499	0.00512	99.8	102	76.0-125			2.57	20
2-Butanone (MEK)	0.0250	0.0148	0.0152	59.2	60.8	44.0-160			2.67	20
Methylene Chloride	0.00500	0.00481	0.00478	96.2	95.6	67.0-120			0.626	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0163	0.0156	65.2	62.4	68.0-142	J4	J4	4.39	20
Methyl tert-butyl ether	0.00500	0.00456	0.00462	91.2	92.4	68.0-125			1.31	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3700427-1 09/03/21 10:42 • (LCSD) R3700427-2 09/03/21 11:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.00500	0.00464	0.00459	92.8	91.8	54.0-135			1.08	20
n-Propylbenzene	0.00500	0.00430	0.00437	86.0	87.4	77.0-124			1.61	20
Styrene	0.00500	0.00482	0.00462	96.4	92.4	73.0-130			4.24	20
1,1,1,2-Tetrachloroethane	0.00500	0.00515	0.00514	103	103	75.0-125			0.194	20
1,1,2,2-Tetrachloroethane	0.00500	0.00360	0.00362	72.0	72.4	65.0-130			0.554	20
Tetrachloroethene	0.00500	0.00540	0.00508	108	102	72.0-132			6.11	20
Toluene	0.00500	0.00513	0.00492	103	98.4	79.0-120			4.18	20
1,2,3-Trichlorobenzene	0.00500	0.00598	0.00691	120	138	50.0-138			14.4	20
1,2,4-Trichlorobenzene	0.00500	0.00632	0.00695	126	139	57.0-137		J4	9.50	20
1,1,1-Trichloroethane	0.00500	0.00477	0.00473	95.4	94.6	73.0-124			0.842	20
1,1,2-Trichloroethane	0.00500	0.00507	0.00484	101	96.8	80.0-120			4.64	20
Trichloroethene	0.00500	0.00511	0.00504	102	101	78.0-124			1.38	20
Trichlorofluoromethane	0.00500	0.00424	0.00467	84.8	93.4	59.0-147			9.65	20
1,2,3-Trichloropropane	0.00500	0.00403	0.00371	80.6	74.2	73.0-130			8.27	20
1,2,4-Trimethylbenzene	0.00500	0.00456	0.00440	91.2	88.0	76.0-121			3.57	20
1,3,5-Trimethylbenzene	0.00500	0.00423	0.00434	84.6	86.8	76.0-122			2.57	20
Vinyl chloride	0.00500	0.00438	0.00498	87.6	99.6	67.0-131			12.8	20
Xylenes, Total	0.0150	0.0151	0.0146	101	97.3	79.0-123			3.37	20
(S) Toluene-d8				*104*	*101*	*80.0-120*				
(S) 4-Bromofluorobenzene				*92.3*	*93.9*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*94.9*	*96.4*	*70.0-130*				

Method Blank (MB)

(MB) R3701116-4 09/05/21 14:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromobenzene	U		0.000118	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
2-Chlorotoluene	U		0.000106	0.00100
4-Chlorotoluene	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
1,2-Dibromoethane	U		0.000126	0.00100
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
2,2-Dichloropropane	U		0.000161	0.00100
Di-isopropyl ether	U		0.000105	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000490	0.00100

Method Blank (MB)

(MB) R3701116-4 09/05/21 14:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*109*			*80.0-120*
(S) 4-Bromofluorobenzene	*111*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3701116-1 09/05/21 13:05 • (LCSD) R3701116-2 09/05/21 13:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0229	0.0229	91.6	91.6	19.0-160			0.000	27
Acrolein	0.0250	0.0181	0.0188	72.4	75.2	10.0-160			3.79	26
Acrylonitrile	0.0250	0.0256	0.0271	102	108	55.0-149			5.69	20
Benzene	0.00500	0.00515	0.00500	103	100	70.0-123			2.96	20
Bromobenzene	0.00500	0.00488	0.00490	97.6	98.0	73.0-121			0.409	20
Bromodichloromethane	0.00500	0.00553	0.00550	111	110	75.0-120			0.544	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3701116-1 09/05/21 13:05 • (LCSD) R3701116-2 09/05/21 13:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.00500	0.00529	0.00514	106	103	68.0-132			2.88	20
Bromomethane	0.00500	0.00149	0.00167	29.8	33.4	10.0-160			11.4	25
n-Butylbenzene	0.00500	0.00445	0.00442	89.0	88.4	73.0-125			0.676	20
sec-Butylbenzene	0.00500	0.00475	0.00459	95.0	91.8	75.0-125			3.43	20
tert-Butylbenzene	0.00500	0.00529	0.00523	106	105	76.0-124			1.14	20
Carbon tetrachloride	0.00500	0.00588	0.00585	118	117	68.0-126			0.512	20
Chlorobenzene	0.00500	0.00527	0.00513	105	103	80.0-121			2.69	20
Chlorodibromomethane	0.00500	0.00559	0.00546	112	109	77.0-125			2.35	20
Chloroethane	0.00500	0.00264	0.00268	52.8	53.6	47.0-150			1.50	20
Chloroform	0.00500	0.00547	0.00538	109	108	73.0-120			1.66	20
Chloromethane	0.00500	0.00502	0.00494	100	98.8	41.0-142			1.61	20
2-Chlorotoluene	0.00500	0.00496	0.00489	99.2	97.8	76.0-123			1.42	20
4-Chlorotoluene	0.00500	0.00528	0.00513	106	103	75.0-122			2.88	20
1,2-Dibromo-3-Chloropropane	0.00500	0.00438	0.00450	87.6	90.0	58.0-134			2.70	20
1,2-Dibromoethane	0.00500	0.00494	0.00490	98.8	98.0	80.0-122			0.813	20
Dibromomethane	0.00500	0.00524	0.00523	105	105	80.0-120			0.191	20
1,2-Dichlorobenzene	0.00500	0.00504	0.00498	101	99.6	79.0-121			1.20	20
1,3-Dichlorobenzene	0.00500	0.00510	0.00510	102	102	79.0-120			0.000	20
1,4-Dichlorobenzene	0.00500	0.00482	0.00486	96.4	97.2	79.0-120			0.826	20
Dichlorodifluoromethane	0.00500	0.00539	0.00505	108	101	51.0-149			6.51	20
1,1-Dichloroethane	0.00500	0.00556	0.00537	111	107	70.0-126			3.48	20
1,2-Dichloroethane	0.00500	0.00517	0.00516	103	103	70.0-128			0.194	20
1,1-Dichloroethene	0.00500	0.00517	0.00495	103	99.0	71.0-124			4.35	20
cis-1,2-Dichloroethene	0.00500	0.00539	0.00519	108	104	73.0-120			3.78	20
trans-1,2-Dichloroethene	0.00500	0.00528	0.00505	106	101	73.0-120			4.45	20
1,2-Dichloropropane	0.00500	0.00564	0.00538	113	108	77.0-125			4.72	20
1,1-Dichloropropene	0.00500	0.00525	0.00515	105	103	74.0-126			1.92	20
1,3-Dichloropropane	0.00500	0.00527	0.00518	105	104	80.0-120			1.72	20
cis-1,3-Dichloropropene	0.00500	0.00539	0.00533	108	107	80.0-123			1.12	20
trans-1,3-Dichloropropene	0.00500	0.00501	0.00488	100	97.6	78.0-124			2.63	20
2,2-Dichloropropane	0.00500	0.00497	0.00500	99.4	100	58.0-130			0.602	20
Di-isopropyl ether	0.00500	0.00575	0.00558	115	112	58.0-138			3.00	20
Ethylbenzene	0.00500	0.00491	0.00477	98.2	95.4	79.0-123			2.89	20
Hexachloro-1,3-butadiene	0.00500	0.00503	0.00510	101	102	54.0-138			1.38	20
Isopropylbenzene	0.00500	0.00519	0.00502	104	100	76.0-127			3.33	20
p-Isopropyltoluene	0.00500	0.00484	0.00466	96.8	93.2	76.0-125			3.79	20
2-Butanone (MEK)	0.0250	0.0257	0.0262	103	105	44.0-160			1.93	20
Methylene Chloride	0.00500	0.00462	0.00449	92.4	89.8	67.0-120			2.85	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0257	0.0260	103	104	68.0-142			1.16	20
Methyl tert-butyl ether	0.00500	0.00521	0.00516	104	103	68.0-125			0.964	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3701116-1 09/05/21 13:05 • (LCSD) R3701116-2 09/05/21 13:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.00500	0.00406	0.00411	81.2	82.2	54.0-135			1.22	20
n-Propylbenzene	0.00500	0.00492	0.00485	98.4	97.0	77.0-124			1.43	20
Styrene	0.00500	0.00506	0.00484	101	96.8	73.0-130			4.44	20
1,1,1,2-Tetrachloroethane	0.00500	0.00564	0.00555	113	111	75.0-125			1.61	20
1,1,2,2-Tetrachloroethane	0.00500	0.00410	0.00425	82.0	85.0	65.0-130			3.59	20
Tetrachloroethene	0.00500	0.00542	0.00530	108	106	72.0-132			2.24	20
Toluene	0.00500	0.00522	0.00508	104	102	79.0-120			2.72	20
1,2,3-Trichlorobenzene	0.00500	0.00474	0.00488	94.8	97.6	50.0-138			2.91	20
1,2,4-Trichlorobenzene	0.00500	0.00484	0.00483	96.8	96.6	57.0-137			0.207	20
1,1,1-Trichloroethane	0.00500	0.00596	0.00580	119	116	73.0-124			2.72	20
1,1,2-Trichloroethane	0.00500	0.00511	0.00496	102	99.2	80.0-120			2.98	20
Trichloroethene	0.00500	0.00627	0.00571	125	114	78.0-124	J4		9.35	20
Trichlorofluoromethane	0.00500	0.00399	0.00392	79.8	78.4	59.0-147			1.77	20
1,2,3-Trichloropropane	0.00500	0.00489	0.00491	97.8	98.2	73.0-130			0.408	20
1,2,4-Trimethylbenzene	0.00500	0.00522	0.00504	104	101	76.0-121			3.51	20
1,3,5-Trimethylbenzene	0.00500	0.00501	0.00495	100	99.0	76.0-122			1.20	20
Vinyl chloride	0.00500	0.00311	0.00299	62.2	59.8	67.0-131	J4	J4	3.93	20
Xylenes, Total	0.0150	0.0155	0.0149	103	99.3	79.0-123			3.95	20
(S) Toluene-d8				*107*	*107*	*80.0-120*				
(S) 4-Bromofluorobenzene				*111*	*110*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*103*	*104*	*70.0-130*				

Method Blank (MB)

(MB) R3704295-1 09/11/21 12:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
C10-C28 Diesel Range	U		0.0222	0.100
C28-C40 Oil Range	U		0.0118	0.100
(S) o-Terphenyl	*106*			*52.0-156*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3704295-2 09/11/21 12:38 • (LCSD) R3704295-3 09/11/21 12:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	1.50	1.73	1.70	115	113	50.0-150			1.75	20
(S) o-Terphenyl				*123*	*121*	*52.0-156*				

Method Blank (MB)

(MB) R3703520-1 09/11/21 17:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
C10-C28 Diesel Range	U		0.0222	0.100
C28-C40 Oil Range	U		0.0118	0.100
(S) o-Terphenyl	*62.5*			*52.0-156*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3703520-2 09/11/21 17:52 • (LCSD) R3703520-3 09/11/21 18:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	1.50	1.53	1.58	102	105	50.0-150			3.22	20
(S) o-Terphenyl				*85.0*	*88.0*	*52.0-156*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

CHAIN OF CUSTODY RECORD

APEX

Office Location Midland
505 N Big Spring St. Ste 301A
Midland Tx 79701
Project Manager H.W. McConnell

Laboratory: Pace Analytical
Address: 12065 Lebanon Rd
Mt. Juliet, TN 37122
Contact:
Phone:
PO/SO #: CEN21-004

Sampler's Name: J. Fought/A. Sides
Sampler's Signature: Aaron Sides

Proj. No.: CEN21-004
Project Name: Brahaney IRP-2794 (North)

ANALYSIS REQUESTED: VOC 8260 d, TPH-DRO, GRO, MRO, Chloride 300, TDS, Sulfate

Lab use only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Page ____ of ____

L1397224

L-159

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
W	8/27/21	1435			MW-5 (L2 MW-1)			7				2	-01
W	8/27/21	1600			MW-3 (L2 MW-4)			7				2	-02
W	8/27/21	1605			EB-01			7				2	-03
W	8/27/21	1750			MW-4 (L2 MW-3)			7				2	-04
W	8/27/21	1800			FB-01			7				2	-05
W	8/27/21	1925			MW-6 (L2 MW-2)			7				2	-06
W	8/27/21	—			DUP-01			7				2	-07
					Trip Blank			1					-08

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Aaron Sides	8/30/21	1530		8-30-21	15:50
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date: 8/31/21	Time: 0930

NOTES: Fed Ex - 1380 7991 3005

Sample Receipt Checklist

COC Seal Present/Intact:	Y N	If Applicable	
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres.Correct/Check:	Y N
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RAD Screen <0.5 mR/hr:	Y N		

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - Sludge; O - Oil
Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

3.2 ± 0 = 3.2 A2BL

Pace Analytical®

ANALYTICAL REPORT

January 10, 2022

Apex - Midland, TX

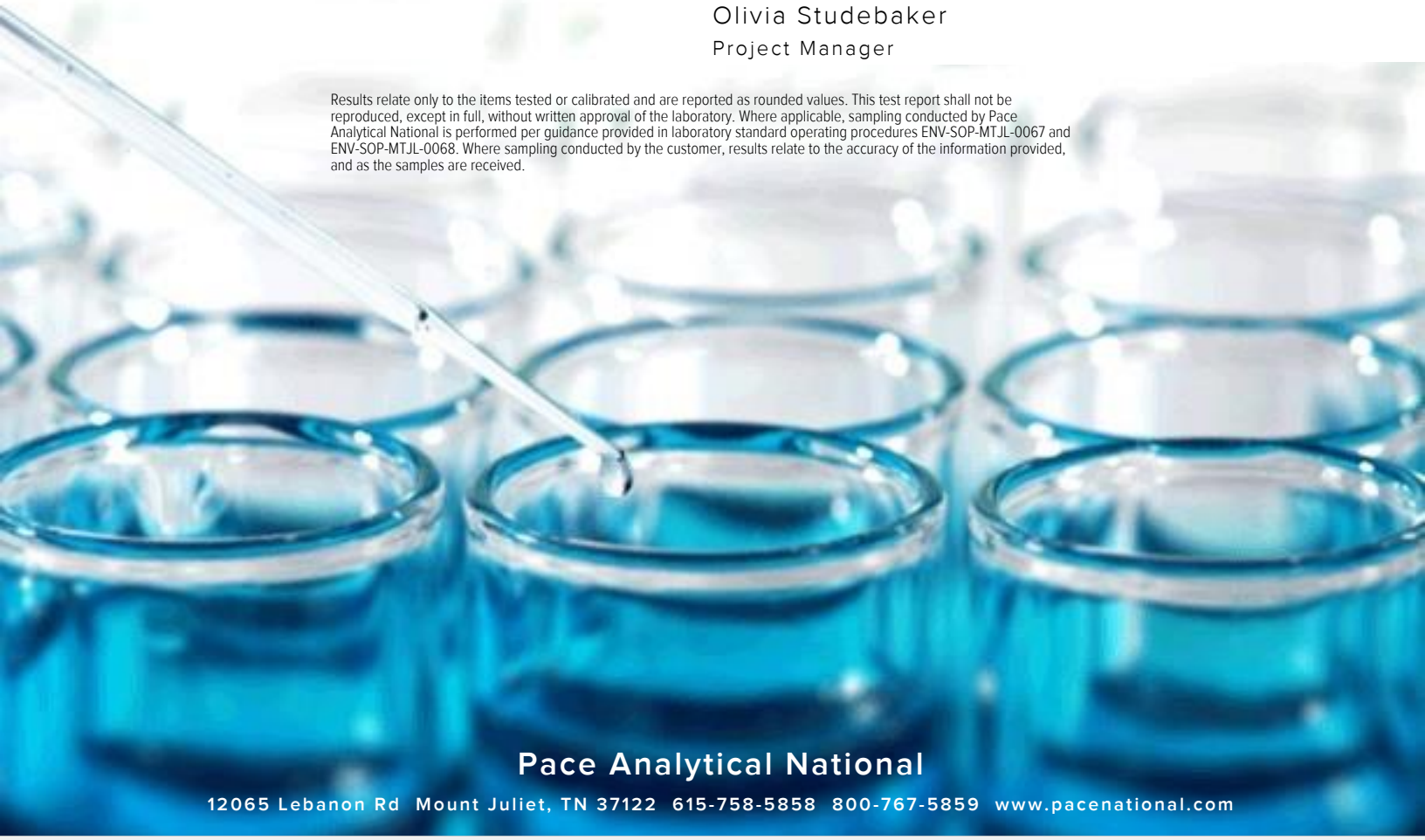
Sample Delivery Group:	L1446285
Samples Received:	12/29/2021
Project Number:	CEN21-004
Description:	Lea, County

Report To: John Faught
505 N. Big Spring Street
Suite 301A
Midland, TX 79701

Entire Report Reviewed By:

Olivia Studebaker
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

MW-1 L1446285-01 GW

Collected by: John Faught | Collected date/time: 12/27/21 08:35 | Received date/time: 12/29/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1796841	1	12/30/21 16:32	12/30/21 16:49	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1798353	1	01/07/22 20:14	01/07/22 20:14	ELN	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1798353	5	01/08/22 02:55	01/08/22 02:55	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1796691	1	12/30/21 14:58	12/30/21 14:58	CAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1796393	1	12/29/21 21:57	12/29/21 21:57	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1796800	1	12/30/21 20:47	12/30/21 20:47	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1796441	1	12/30/21 04:19	12/30/21 14:11	CAG	Mt. Juliet, TN

MW-2 L1446285-02 GW

Collected by: John Faught | Collected date/time: 12/27/21 09:55 | Received date/time: 12/29/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1796674	1	12/30/21 12:59	12/30/21 13:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1798353	1	01/07/22 20:27	01/07/22 20:27	ELN	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1798353	5	01/08/22 03:07	01/08/22 03:07	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1796079	1	12/29/21 16:09	12/29/21 16:09	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1796393	1	12/29/21 22:17	12/29/21 22:17	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1796441	1	12/30/21 04:19	12/30/21 14:40	CAG	Mt. Juliet, TN

TRIP BLANK L1446285-03 GW

Collected by: John Faught | Collected date/time: 12/27/21 00:00 | Received date/time: 12/29/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1796166	1	12/29/21 14:23	12/29/21 14:23	AV	Mt. Juliet, TN

MW-5 L1446285-04 GW

Collected by: John Faught | Collected date/time: 12/27/21 11:10 | Received date/time: 12/29/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1798353	1	01/07/22 20:40	01/07/22 20:40	ELN	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1798353	5	01/08/22 03:20	01/08/22 03:20	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1796079	1	12/29/21 16:32	12/29/21 16:32	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1796393	1	12/29/21 22:38	12/29/21 22:38	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1796441	1	12/30/21 04:19	12/30/21 15:08	CAG	Mt. Juliet, TN

MW-3 L1446285-05 GW

Collected by: John Faught | Collected date/time: 12/27/21 12:25 | Received date/time: 12/29/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1798353	1	01/07/22 21:18	01/07/22 21:18	ELN	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1798353	5	01/08/22 03:33	01/08/22 03:33	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1796079	1	12/29/21 16:55	12/29/21 16:55	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1796166	1	12/29/21 17:47	12/29/21 17:47	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1796437	1	12/30/21 15:06	12/30/21 15:06	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1796441	1	12/30/21 04:19	12/30/21 15:36	CAG	Mt. Juliet, TN

FB-01 L1446285-06 GW

Collected by: John Faught | Collected date/time: 12/27/21 15:31 | Received date/time: 12/29/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1798353	1	01/07/22 21:31	01/07/22 21:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1796079	1	12/29/21 17:19	12/29/21 17:19	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1796166	1	12/29/21 18:07	12/29/21 18:07	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1796441	1	12/30/21 04:19	12/30/21 16:03	CAG	Mt. Juliet, TN

MW-4 L1446285-07 GW

Collected by: John Faught | Collected date/time: 12/27/21 15:45 | Received date/time: 12/29/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1798353	1	01/07/22 21:44	01/07/22 21:44	ELN	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1798353	5	01/07/22 22:14	01/07/22 22:14	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1796079	1	12/29/21 17:42	12/29/21 17:42	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1796166	1	12/29/21 18:28	12/29/21 18:28	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1796441	1	12/30/21 04:19	12/30/21 16:32	CAG	Mt. Juliet, TN

MW-6 L1446285-08 GW

Collected by: John Faught | Collected date/time: 12/27/21 17:00 | Received date/time: 12/29/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1798353	1	01/07/22 22:26	01/07/22 22:26	ELN	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1798353	5	01/07/22 22:39	01/07/22 22:39	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1796079	1	12/29/21 18:05	12/29/21 18:05	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1796166	1	12/29/21 18:48	12/29/21 18:48	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1796441	1	12/30/21 04:19	12/30/21 17:01	CAG	Mt. Juliet, TN

EB-01 L1446285-09 GW

Collected by: John Faught | Collected date/time: 12/27/21 18:00 | Received date/time: 12/29/21 08:00

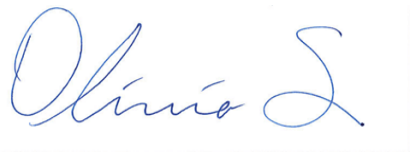
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1798353	1	01/07/22 22:52	01/07/22 22:52	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1796079	1	12/29/21 18:28	12/29/21 18:28	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1796166	1	12/29/21 19:09	12/29/21 19:09	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1796441	1	12/30/21 04:19	12/30/21 17:28	CAG	Mt. Juliet, TN

DUP-01 L1446285-10 GW

Collected by: John Faught | Collected date/time: 12/27/21 00:00 | Received date/time: 12/29/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1798353	1	01/07/22 23:18	01/07/22 23:18	ELN	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1798353	5	01/07/22 23:30	01/07/22 23:30	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1796079	1	12/29/21 18:52	12/29/21 18:52	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1796166	1	12/29/21 19:30	12/29/21 19:30	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1796441	1	12/30/21 04:19	12/30/21 17:57	CAG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Olivia Studebaker
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	538		10.0	1	12/30/2021 16:49	WG1796841

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	59.3		0.379	1.00	1	01/07/2022 20:14	WG1798353
Sulfate	110		2.97	25.0	5	01/08/2022 02:55	WG1798353

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	12/30/2021 14:58	WG1796691
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*12/30/2021 14:58*	WG1796691

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	12/29/2021 21:57	WG1796393
Acrolein	U	C3	0.00254	0.0500	1	12/29/2021 21:57	WG1796393
Acrylonitrile	U		0.000671	0.0100	1	12/29/2021 21:57	WG1796393
Benzene	U		0.0000941	0.00100	1	12/30/2021 20:47	WG1796800
Bromobenzene	U		0.000118	0.00100	1	12/29/2021 21:57	WG1796393
Bromodichloromethane	U		0.000136	0.00100	1	12/29/2021 21:57	WG1796393
Bromoform	U		0.000129	0.00100	1	12/29/2021 21:57	WG1796393
Bromomethane	U		0.000605	0.00500	1	12/29/2021 21:57	WG1796393
n-Butylbenzene	U		0.000157	0.00100	1	12/29/2021 21:57	WG1796393
sec-Butylbenzene	U	C3	0.000125	0.00100	1	12/29/2021 21:57	WG1796393
tert-Butylbenzene	U	C3	0.000127	0.00100	1	12/29/2021 21:57	WG1796393
Carbon tetrachloride	U		0.000128	0.00100	1	12/29/2021 21:57	WG1796393
Chlorobenzene	U		0.000116	0.00100	1	12/29/2021 21:57	WG1796393
Chlorodibromomethane	U		0.000140	0.00100	1	12/29/2021 21:57	WG1796393
Chloroethane	U		0.000192	0.00500	1	12/29/2021 21:57	WG1796393
Chloroform	U		0.000111	0.00500	1	12/29/2021 21:57	WG1796393
Chloromethane	U		0.000960	0.00250	1	12/29/2021 21:57	WG1796393
2-Chlorotoluene	U		0.000106	0.00100	1	12/29/2021 21:57	WG1796393
4-Chlorotoluene	U		0.000114	0.00100	1	12/29/2021 21:57	WG1796393
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	12/29/2021 21:57	WG1796393
1,2-Dibromoethane	U		0.000126	0.00100	1	12/29/2021 21:57	WG1796393
Dibromomethane	U		0.000122	0.00100	1	12/29/2021 21:57	WG1796393
1,2-Dichlorobenzene	U	C3 J4	0.000107	0.00100	1	12/29/2021 21:57	WG1796393
1,3-Dichlorobenzene	U		0.000110	0.00100	1	12/29/2021 21:57	WG1796393
1,4-Dichlorobenzene	U		0.000120	0.00100	1	12/29/2021 21:57	WG1796393
Dichlorodifluoromethane	U		0.000374	0.00500	1	12/29/2021 21:57	WG1796393
1,1-Dichloroethane	U		0.000100	0.00100	1	12/29/2021 21:57	WG1796393
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/29/2021 21:57	WG1796393
1,1-Dichloroethene	U		0.000188	0.00100	1	12/29/2021 21:57	WG1796393
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	12/29/2021 21:57	WG1796393
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	12/29/2021 21:57	WG1796393
1,2-Dichloropropane	U		0.000149	0.00100	1	12/29/2021 21:57	WG1796393
1,1-Dichloropropene	U		0.000142	0.00100	1	12/29/2021 21:57	WG1796393
1,3-Dichloropropane	U		0.000110	0.00100	1	12/29/2021 21:57	WG1796393
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	12/29/2021 21:57	WG1796393
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	12/29/2021 21:57	WG1796393
2,2-Dichloropropane	U		0.000161	0.00100	1	12/29/2021 21:57	WG1796393

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Di-isopropyl ether	U		0.000105	0.00100	1	12/29/2021 21:57	WG1796393
Ethylbenzene	U	C3	0.000137	0.00100	1	12/29/2021 21:57	WG1796393
Hexachloro-1,3-butadiene	U		0.000490	0.00100	1	12/29/2021 21:57	WG1796393
Isopropylbenzene	U		0.000105	0.00100	1	12/29/2021 21:57	WG1796393
p-Isopropyltoluene	U		0.000120	0.00100	1	12/29/2021 21:57	WG1796393
2-Butanone (MEK)	U		0.00119	0.0100	1	12/29/2021 21:57	WG1796393
Methylene Chloride	U		0.000430	0.00500	1	12/29/2021 21:57	WG1796393
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	12/29/2021 21:57	WG1796393
Methyl tert-butyl ether	U		0.000101	0.00100	1	12/29/2021 21:57	WG1796393
Naphthalene	U		0.00100	0.00500	1	12/30/2021 20:47	WG1796800
n-Propylbenzene	U		0.0000993	0.00100	1	12/29/2021 21:57	WG1796393
Styrene	U		0.000118	0.00100	1	12/29/2021 21:57	WG1796393
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	12/29/2021 21:57	WG1796393
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	12/29/2021 21:57	WG1796393
Tetrachloroethene	U		0.000300	0.00100	1	12/29/2021 21:57	WG1796393
Toluene	U		0.000278	0.00100	1	12/29/2021 21:57	WG1796393
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/29/2021 21:57	WG1796393
1,2,4-Trichlorobenzene	U	C3	0.000481	0.00100	1	12/29/2021 21:57	WG1796393
1,1,1-Trichloroethane	U		0.000149	0.00100	1	12/29/2021 21:57	WG1796393
1,1,2-Trichloroethane	U		0.000158	0.00100	1	12/29/2021 21:57	WG1796393
Trichloroethene	U		0.000190	0.00100	1	12/29/2021 21:57	WG1796393
Trichlorofluoromethane	U		0.000160	0.00500	1	12/29/2021 21:57	WG1796393
1,2,3-Trichloropropane	U		0.000237	0.00250	1	12/29/2021 21:57	WG1796393
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/29/2021 21:57	WG1796393
1,3,5-Trimethylbenzene	0.00111		0.000104	0.00100	1	12/29/2021 21:57	WG1796393
Vinyl chloride	U	C3	0.000234	0.00100	1	12/29/2021 21:57	WG1796393
Xylenes, Total	0.000665	J	0.000174	0.00300	1	12/29/2021 21:57	WG1796393
(S) Toluene-d8	*94.8*			*80.0-120*		*12/29/2021 21:57*	WG1796393
(S) Toluene-d8	*98.1*			*80.0-120*		*12/30/2021 20:47*	WG1796800
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*12/29/2021 21:57*	WG1796393
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*12/30/2021 20:47*	WG1796800
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*12/29/2021 21:57*	WG1796393
(S) 1,2-Dichloroethane-d4	*84.1*			*70.0-130*		*12/30/2021 20:47*	WG1796800

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.102		0.0222	0.100	1	12/30/2021 14:11	WG1796441
C28-C36 Motor Oil Range	0.306		0.0118	0.100	1	12/30/2021 14:11	WG1796441
(S) o-Terphenyl	*104*			*52.0-156*		*12/30/2021 14:11*	WG1796441

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	481		10.0	1	12/30/2021 13:55	WG1796674

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	55.7		0.379	1.00	1	01/07/2022 20:27	WG1798353
Sulfate	109		2.97	25.0	5	01/08/2022 03:07	WG1798353

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	12/29/2021 16:09	WG1796079
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*12/29/2021 16:09*	WG1796079

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	12/29/2021 22:17	WG1796393
Acrolein	U	C3	0.00254	0.0500	1	12/29/2021 22:17	WG1796393
Acrylonitrile	U		0.000671	0.0100	1	12/29/2021 22:17	WG1796393
Benzene	U		0.0000941	0.00100	1	12/29/2021 22:17	WG1796393
Bromobenzene	U		0.000118	0.00100	1	12/29/2021 22:17	WG1796393
Bromodichloromethane	U		0.000136	0.00100	1	12/29/2021 22:17	WG1796393
Bromoform	U		0.000129	0.00100	1	12/29/2021 22:17	WG1796393
Bromomethane	U		0.000605	0.00500	1	12/29/2021 22:17	WG1796393
n-Butylbenzene	U		0.000157	0.00100	1	12/29/2021 22:17	WG1796393
sec-Butylbenzene	U	C3	0.000125	0.00100	1	12/29/2021 22:17	WG1796393
tert-Butylbenzene	U	C3	0.000127	0.00100	1	12/29/2021 22:17	WG1796393
Carbon tetrachloride	U		0.000128	0.00100	1	12/29/2021 22:17	WG1796393
Chlorobenzene	U		0.000116	0.00100	1	12/29/2021 22:17	WG1796393
Chlorodibromomethane	U		0.000140	0.00100	1	12/29/2021 22:17	WG1796393
Chloroethane	U		0.000192	0.00500	1	12/29/2021 22:17	WG1796393
Chloroform	U		0.000111	0.00500	1	12/29/2021 22:17	WG1796393
Chloromethane	U		0.000960	0.00250	1	12/29/2021 22:17	WG1796393
2-Chlorotoluene	U		0.000106	0.00100	1	12/29/2021 22:17	WG1796393
4-Chlorotoluene	U		0.000114	0.00100	1	12/29/2021 22:17	WG1796393
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	12/29/2021 22:17	WG1796393
1,2-Dibromoethane	U		0.000126	0.00100	1	12/29/2021 22:17	WG1796393
Dibromomethane	U		0.000122	0.00100	1	12/29/2021 22:17	WG1796393
1,2-Dichlorobenzene	U	C3 J4	0.000107	0.00100	1	12/29/2021 22:17	WG1796393
1,3-Dichlorobenzene	U		0.000110	0.00100	1	12/29/2021 22:17	WG1796393
1,4-Dichlorobenzene	U		0.000120	0.00100	1	12/29/2021 22:17	WG1796393
Dichlorodifluoromethane	U		0.000374	0.00500	1	12/29/2021 22:17	WG1796393
1,1-Dichloroethane	U		0.000100	0.00100	1	12/29/2021 22:17	WG1796393
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/29/2021 22:17	WG1796393
1,1-Dichloroethene	U		0.000188	0.00100	1	12/29/2021 22:17	WG1796393
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	12/29/2021 22:17	WG1796393
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	12/29/2021 22:17	WG1796393
1,2-Dichloropropane	U		0.000149	0.00100	1	12/29/2021 22:17	WG1796393
1,1-Dichloropropene	U		0.000142	0.00100	1	12/29/2021 22:17	WG1796393
1,3-Dichloropropane	U		0.000110	0.00100	1	12/29/2021 22:17	WG1796393
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	12/29/2021 22:17	WG1796393
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	12/29/2021 22:17	WG1796393
2,2-Dichloropropane	U		0.000161	0.00100	1	12/29/2021 22:17	WG1796393

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Di-isopropyl ether	U		0.000105	0.00100	1	12/29/2021 22:17	WG1796393
Ethylbenzene	U	C3	0.000137	0.00100	1	12/29/2021 22:17	WG1796393
Hexachloro-1,3-butadiene	U		0.000490	0.00100	1	12/29/2021 22:17	WG1796393
Isopropylbenzene	U		0.000105	0.00100	1	12/29/2021 22:17	WG1796393
p-Isopropyltoluene	U		0.000120	0.00100	1	12/29/2021 22:17	WG1796393
2-Butanone (MEK)	U		0.00119	0.0100	1	12/29/2021 22:17	WG1796393
Methylene Chloride	U		0.000430	0.00500	1	12/29/2021 22:17	WG1796393
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	12/29/2021 22:17	WG1796393
Methyl tert-butyl ether	U		0.000101	0.00100	1	12/29/2021 22:17	WG1796393
Naphthalene	U		0.00100	0.00500	1	12/29/2021 22:17	WG1796393
n-Propylbenzene	U		0.0000993	0.00100	1	12/29/2021 22:17	WG1796393
Styrene	U		0.000118	0.00100	1	12/29/2021 22:17	WG1796393
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	12/29/2021 22:17	WG1796393
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	12/29/2021 22:17	WG1796393
Tetrachloroethene	U		0.000300	0.00100	1	12/29/2021 22:17	WG1796393
Toluene	U		0.000278	0.00100	1	12/29/2021 22:17	WG1796393
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/29/2021 22:17	WG1796393
1,2,4-Trichlorobenzene	U	C3	0.000481	0.00100	1	12/29/2021 22:17	WG1796393
1,1,1-Trichloroethane	U		0.000149	0.00100	1	12/29/2021 22:17	WG1796393
1,1,2-Trichloroethane	U		0.000158	0.00100	1	12/29/2021 22:17	WG1796393
Trichloroethene	U		0.000190	0.00100	1	12/29/2021 22:17	WG1796393
Trichlorofluoromethane	U		0.000160	0.00500	1	12/29/2021 22:17	WG1796393
1,2,3-Trichloropropane	U		0.000237	0.00250	1	12/29/2021 22:17	WG1796393
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/29/2021 22:17	WG1796393
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/29/2021 22:17	WG1796393
Vinyl chloride	U	C3	0.000234	0.00100	1	12/29/2021 22:17	WG1796393
Xylenes, Total	U		0.000174	0.00300	1	12/29/2021 22:17	WG1796393
(S) Toluene-d8	*96.4*			*80.0-120*		*12/29/2021 22:17*	WG1796393
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*12/29/2021 22:17*	WG1796393
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*12/29/2021 22:17*	WG1796393

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.155		0.0222	0.100	1	12/30/2021 14:40	WG1796441
C28-C36 Motor Oil Range	0.179		0.0118	0.100	1	12/30/2021 14:40	WG1796441
(S) o-Terphenyl	*95.3*			*52.0-156*		*12/30/2021 14:40*	WG1796441

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	12/29/2021 14:23	WG1796166
Acrolein	U	C3	0.00254	0.0500	1	12/29/2021 14:23	WG1796166
Acrylonitrile	U		0.000671	0.0100	1	12/29/2021 14:23	WG1796166
Benzene	U		0.0000941	0.00100	1	12/29/2021 14:23	WG1796166
Bromobenzene	U		0.000118	0.00100	1	12/29/2021 14:23	WG1796166
Bromodichloromethane	U		0.000136	0.00100	1	12/29/2021 14:23	WG1796166
Bromoform	U		0.000129	0.00100	1	12/29/2021 14:23	WG1796166
Bromomethane	U		0.000605	0.00500	1	12/29/2021 14:23	WG1796166
n-Butylbenzene	U		0.000157	0.00100	1	12/29/2021 14:23	WG1796166
sec-Butylbenzene	U		0.000125	0.00100	1	12/29/2021 14:23	WG1796166
tert-Butylbenzene	U		0.000127	0.00100	1	12/29/2021 14:23	WG1796166
Carbon tetrachloride	U		0.000128	0.00100	1	12/29/2021 14:23	WG1796166
Chlorobenzene	U		0.000116	0.00100	1	12/29/2021 14:23	WG1796166
Chlorodibromomethane	U		0.000140	0.00100	1	12/29/2021 14:23	WG1796166
Chloroethane	U	C3	0.000192	0.00500	1	12/29/2021 14:23	WG1796166
Chloroform	U		0.000111	0.00500	1	12/29/2021 14:23	WG1796166
Chloromethane	U		0.000960	0.00250	1	12/29/2021 14:23	WG1796166
2-Chlorotoluene	U		0.000106	0.00100	1	12/29/2021 14:23	WG1796166
4-Chlorotoluene	U		0.000114	0.00100	1	12/29/2021 14:23	WG1796166
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	12/29/2021 14:23	WG1796166
1,2-Dibromoethane	U		0.000126	0.00100	1	12/29/2021 14:23	WG1796166
Dibromomethane	U		0.000122	0.00100	1	12/29/2021 14:23	WG1796166
1,2-Dichlorobenzene	U		0.000107	0.00100	1	12/29/2021 14:23	WG1796166
1,3-Dichlorobenzene	U		0.000110	0.00100	1	12/29/2021 14:23	WG1796166
1,4-Dichlorobenzene	U		0.000120	0.00100	1	12/29/2021 14:23	WG1796166
Dichlorodifluoromethane	U		0.000374	0.00500	1	12/29/2021 14:23	WG1796166
1,1-Dichloroethane	U		0.000100	0.00100	1	12/29/2021 14:23	WG1796166
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/29/2021 14:23	WG1796166
1,1-Dichloroethene	U		0.000188	0.00100	1	12/29/2021 14:23	WG1796166
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	12/29/2021 14:23	WG1796166
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	12/29/2021 14:23	WG1796166
1,2-Dichloropropane	U		0.000149	0.00100	1	12/29/2021 14:23	WG1796166
1,1-Dichloropropene	U		0.000142	0.00100	1	12/29/2021 14:23	WG1796166
1,3-Dichloropropane	U		0.000110	0.00100	1	12/29/2021 14:23	WG1796166
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	12/29/2021 14:23	WG1796166
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	12/29/2021 14:23	WG1796166
2,2-Dichloropropane	U		0.000161	0.00100	1	12/29/2021 14:23	WG1796166
Di-isopropyl ether	U		0.000105	0.00100	1	12/29/2021 14:23	WG1796166
Ethylbenzene	U		0.000137	0.00100	1	12/29/2021 14:23	WG1796166
Hexachloro-1,3-butadiene	U		0.000490	0.00100	1	12/29/2021 14:23	WG1796166
Isopropylbenzene	U		0.000105	0.00100	1	12/29/2021 14:23	WG1796166
p-Isopropyltoluene	U		0.000120	0.00100	1	12/29/2021 14:23	WG1796166
2-Butanone (MEK)	U		0.00119	0.0100	1	12/29/2021 14:23	WG1796166
Methylene Chloride	U		0.000430	0.00500	1	12/29/2021 14:23	WG1796166
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	12/29/2021 14:23	WG1796166
Methyl tert-butyl ether	U	C3	0.000101	0.00100	1	12/29/2021 14:23	WG1796166
Naphthalene	U		0.00100	0.00500	1	12/29/2021 14:23	WG1796166
n-Propylbenzene	U		0.0000993	0.00100	1	12/29/2021 14:23	WG1796166
Styrene	U		0.000118	0.00100	1	12/29/2021 14:23	WG1796166
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	12/29/2021 14:23	WG1796166
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	12/29/2021 14:23	WG1796166
Tetrachloroethene	U		0.000300	0.00100	1	12/29/2021 14:23	WG1796166
Toluene	U		0.000278	0.00100	1	12/29/2021 14:23	WG1796166
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/29/2021 14:23	WG1796166
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	12/29/2021 14:23	WG1796166
1,1,1-Trichloroethane	U		0.000149	0.00100	1	12/29/2021 14:23	WG1796166

SAMPLE RESULTS - 03

TRIP BLANK
Collected date/time: 12/27/21 00:00

L1446285

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,1,2-Trichloroethane	U		0.000158	0.00100	1	12/29/2021 14:23	WG1796166
Trichloroethene	U	C3	0.000190	0.00100	1	12/29/2021 14:23	WG1796166
Trichlorofluoromethane	U		0.000160	0.00500	1	12/29/2021 14:23	WG1796166
1,2,3-Trichloropropane	U		0.000237	0.00250	1	12/29/2021 14:23	WG1796166
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/29/2021 14:23	WG1796166
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/29/2021 14:23	WG1796166
Vinyl chloride	U	C3	0.000234	0.00100	1	12/29/2021 14:23	WG1796166
Xylenes, Total	U		0.000174	0.00300	1	12/29/2021 14:23	WG1796166
(S) Toluene-d8	*101*			*80.0-120*		*12/29/2021 14:23*	WG1796166
(S) 4-Bromofluorobenzene	*97.5*			*77.0-126*		*12/29/2021 14:23*	WG1796166
(S) 1,2-Dichloroethane-d4	*93.6*			*70.0-130*		*12/29/2021 14:23*	WG1796166

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	64.9		0.379	1.00	1	01/07/2022 20:40	WG1798353
Sulfate	112		2.97	25.0	5	01/08/2022 03:20	WG1798353

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	12/29/2021 16:32	WG1796079
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*12/29/2021 16:32*	WG1796079

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	12/29/2021 22:38	WG1796393
Acrolein	U	C3	0.00254	0.0500	1	12/29/2021 22:38	WG1796393
Acrylonitrile	U		0.000671	0.0100	1	12/29/2021 22:38	WG1796393
Benzene	0.000444	J	0.0000941	0.00100	1	12/29/2021 22:38	WG1796393
Bromobenzene	U		0.000118	0.00100	1	12/29/2021 22:38	WG1796393
Bromodichloromethane	U		0.000136	0.00100	1	12/29/2021 22:38	WG1796393
Bromoform	U		0.000129	0.00100	1	12/29/2021 22:38	WG1796393
Bromomethane	U		0.000605	0.00500	1	12/29/2021 22:38	WG1796393
n-Butylbenzene	U		0.000157	0.00100	1	12/29/2021 22:38	WG1796393
sec-Butylbenzene	U	C3	0.000125	0.00100	1	12/29/2021 22:38	WG1796393
tert-Butylbenzene	U	C3	0.000127	0.00100	1	12/29/2021 22:38	WG1796393
Carbon tetrachloride	U		0.000128	0.00100	1	12/29/2021 22:38	WG1796393
Chlorobenzene	U		0.000116	0.00100	1	12/29/2021 22:38	WG1796393
Chlorodibromomethane	U		0.000140	0.00100	1	12/29/2021 22:38	WG1796393
Chloroethane	U		0.000192	0.00500	1	12/29/2021 22:38	WG1796393
Chloroform	U		0.000111	0.00500	1	12/29/2021 22:38	WG1796393
Chloromethane	U		0.000960	0.00250	1	12/29/2021 22:38	WG1796393
2-Chlorotoluene	U		0.000106	0.00100	1	12/29/2021 22:38	WG1796393
4-Chlorotoluene	U		0.000114	0.00100	1	12/29/2021 22:38	WG1796393
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	12/29/2021 22:38	WG1796393
1,2-Dibromoethane	U		0.000126	0.00100	1	12/29/2021 22:38	WG1796393
Dibromomethane	U		0.000122	0.00100	1	12/29/2021 22:38	WG1796393
1,2-Dichlorobenzene	U	C3 J4	0.000107	0.00100	1	12/29/2021 22:38	WG1796393
1,3-Dichlorobenzene	U		0.000110	0.00100	1	12/29/2021 22:38	WG1796393
1,4-Dichlorobenzene	U		0.000120	0.00100	1	12/29/2021 22:38	WG1796393
Dichlorodifluoromethane	U		0.000374	0.00500	1	12/29/2021 22:38	WG1796393
1,1-Dichloroethane	U		0.000100	0.00100	1	12/29/2021 22:38	WG1796393
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/29/2021 22:38	WG1796393
1,1-Dichloroethene	U		0.000188	0.00100	1	12/29/2021 22:38	WG1796393
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	12/29/2021 22:38	WG1796393
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	12/29/2021 22:38	WG1796393
1,2-Dichloropropane	U		0.000149	0.00100	1	12/29/2021 22:38	WG1796393
1,1-Dichloropropene	U		0.000142	0.00100	1	12/29/2021 22:38	WG1796393
1,3-Dichloropropane	U		0.000110	0.00100	1	12/29/2021 22:38	WG1796393
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	12/29/2021 22:38	WG1796393
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	12/29/2021 22:38	WG1796393
2,2-Dichloropropane	U		0.000161	0.00100	1	12/29/2021 22:38	WG1796393
Di-isopropyl ether	U		0.000105	0.00100	1	12/29/2021 22:38	WG1796393
Ethylbenzene	0.000269	C3 J	0.000137	0.00100	1	12/29/2021 22:38	WG1796393
Hexachloro-1,3-butadiene	U		0.000490	0.00100	1	12/29/2021 22:38	WG1796393
Isopropylbenzene	U		0.000105	0.00100	1	12/29/2021 22:38	WG1796393
p-Isopropyltoluene	U		0.000120	0.00100	1	12/29/2021 22:38	WG1796393

MW-3
Collected date/time: 12/27/21 11:10
L1446285

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.00119	0.0100	1	12/29/2021 22:38	WG1796393
Methylene Chloride	U		0.000430	0.00500	1	12/29/2021 22:38	WG1796393
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	12/29/2021 22:38	WG1796393
Methyl tert-butyl ether	U		0.000101	0.00100	1	12/29/2021 22:38	WG1796393
Naphthalene	U		0.00100	0.00500	1	12/29/2021 22:38	WG1796393
n-Propylbenzene	U		0.0000993	0.00100	1	12/29/2021 22:38	WG1796393
Styrene	U		0.000118	0.00100	1	12/29/2021 22:38	WG1796393
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	12/29/2021 22:38	WG1796393
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	12/29/2021 22:38	WG1796393
Tetrachloroethene	U		0.000300	0.00100	1	12/29/2021 22:38	WG1796393
Toluene	0.00112		0.000278	0.00100	1	12/29/2021 22:38	WG1796393
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/29/2021 22:38	WG1796393
1,2,4-Trichlorobenzene	U	C3	0.000481	0.00100	1	12/29/2021 22:38	WG1796393
1,1,1-Trichloroethane	U		0.000149	0.00100	1	12/29/2021 22:38	WG1796393
1,1,2-Trichloroethane	U		0.000158	0.00100	1	12/29/2021 22:38	WG1796393
Trichloroethene	U		0.000190	0.00100	1	12/29/2021 22:38	WG1796393
Trichlorofluoromethane	U		0.000160	0.00500	1	12/29/2021 22:38	WG1796393
1,2,3-Trichloropropane	U		0.000237	0.00250	1	12/29/2021 22:38	WG1796393
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/29/2021 22:38	WG1796393
1,3,5-Trimethylbenzene	0.000107	J	0.000104	0.00100	1	12/29/2021 22:38	WG1796393
Vinyl chloride	U	C3	0.000234	0.00100	1	12/29/2021 22:38	WG1796393
Xylenes, Total	0.00115	J	0.000174	0.00300	1	12/29/2021 22:38	WG1796393
(S) Toluene-d8	*95.8*			*80.0-120*		*12/29/2021 22:38*	WG1796393
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*12/29/2021 22:38*	WG1796393
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*12/29/2021 22:38*	WG1796393

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.0509	J	0.0222	0.100	1	12/30/2021 15:08	WG1796441
C28-C36 Motor Oil Range	0.176		0.0118	0.100	1	12/30/2021 15:08	WG1796441
(S) o-Terphenyl	*87.9*			*52.0-156*		*12/30/2021 15:08*	WG1796441

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	65.3		0.379	1.00	1	01/07/2022 21:18	WG1798353
Sulfate	119		2.97	25.0	5	01/08/2022 03:33	WG1798353

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	12/29/2021 16:55	WG1796079
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*12/29/2021 16:55*	WG1796079

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	12/29/2021 17:47	WG1796166
Acrolein	U	C3	0.00254	0.0500	1	12/29/2021 17:47	WG1796166
Acrylonitrile	U		0.000671	0.0100	1	12/29/2021 17:47	WG1796166
Benzene	0.000247	J	0.0000941	0.00100	1	12/29/2021 17:47	WG1796166
Bromobenzene	U		0.000118	0.00100	1	12/29/2021 17:47	WG1796166
Bromodichloromethane	U		0.000136	0.00100	1	12/29/2021 17:47	WG1796166
Bromoform	U		0.000129	0.00100	1	12/29/2021 17:47	WG1796166
Bromomethane	U		0.000605	0.00500	1	12/29/2021 17:47	WG1796166
n-Butylbenzene	U		0.000157	0.00100	1	12/29/2021 17:47	WG1796166
sec-Butylbenzene	U		0.000125	0.00100	1	12/29/2021 17:47	WG1796166
tert-Butylbenzene	U		0.000127	0.00100	1	12/29/2021 17:47	WG1796166
Carbon tetrachloride	U		0.000128	0.00100	1	12/29/2021 17:47	WG1796166
Chlorobenzene	U		0.000116	0.00100	1	12/30/2021 15:06	WG1796437
Chlorodibromomethane	U		0.000140	0.00100	1	12/29/2021 17:47	WG1796166
Chloroethane	U	C3	0.000192	0.00500	1	12/29/2021 17:47	WG1796166
Chloroform	U		0.000111	0.00500	1	12/29/2021 17:47	WG1796166
Chloromethane	U		0.000960	0.00250	1	12/29/2021 17:47	WG1796166
2-Chlorotoluene	U		0.000106	0.00100	1	12/29/2021 17:47	WG1796166
4-Chlorotoluene	U		0.000114	0.00100	1	12/29/2021 17:47	WG1796166
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	12/29/2021 17:47	WG1796166
1,2-Dibromoethane	U		0.000126	0.00100	1	12/29/2021 17:47	WG1796166
Dibromomethane	U		0.000122	0.00100	1	12/29/2021 17:47	WG1796166
1,2-Dichlorobenzene	U		0.000107	0.00100	1	12/29/2021 17:47	WG1796166
1,3-Dichlorobenzene	U		0.000110	0.00100	1	12/29/2021 17:47	WG1796166
1,4-Dichlorobenzene	U		0.000120	0.00100	1	12/29/2021 17:47	WG1796166
Dichlorodifluoromethane	U		0.000374	0.00500	1	12/29/2021 17:47	WG1796166
1,1-Dichloroethane	U		0.000100	0.00100	1	12/29/2021 17:47	WG1796166
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/29/2021 17:47	WG1796166
1,1-Dichloroethene	U		0.000188	0.00100	1	12/29/2021 17:47	WG1796166
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	12/29/2021 17:47	WG1796166
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	12/29/2021 17:47	WG1796166
1,2-Dichloropropane	U		0.000149	0.00100	1	12/29/2021 17:47	WG1796166
1,1-Dichloropropene	U		0.000142	0.00100	1	12/29/2021 17:47	WG1796166
1,3-Dichloropropane	U		0.000110	0.00100	1	12/29/2021 17:47	WG1796166
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	12/29/2021 17:47	WG1796166
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	12/29/2021 17:47	WG1796166
2,2-Dichloropropane	U		0.000161	0.00100	1	12/29/2021 17:47	WG1796166
Di-isopropyl ether	U		0.000105	0.00100	1	12/29/2021 17:47	WG1796166
Ethylbenzene	U		0.000137	0.00100	1	12/29/2021 17:47	WG1796166
Hexachloro-1,3-butadiene	U		0.000490	0.00100	1	12/29/2021 17:47	WG1796166
Isopropylbenzene	U		0.000105	0.00100	1	12/29/2021 17:47	WG1796166
p-Isopropyltoluene	U		0.000120	0.00100	1	12/29/2021 17:47	WG1796166

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.00119	0.0100	1	12/29/2021 17:47	WG1796166
Methylene Chloride	U		0.000430	0.00500	1	12/29/2021 17:47	WG1796166
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	12/29/2021 17:47	WG1796166
Methyl tert-butyl ether	U	C3	0.000101	0.00100	1	12/29/2021 17:47	WG1796166
Naphthalene	U		0.00100	0.00500	1	12/29/2021 17:47	WG1796166
n-Propylbenzene	U		0.0000993	0.00100	1	12/29/2021 17:47	WG1796166
Styrene	U		0.000118	0.00100	1	12/29/2021 17:47	WG1796166
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	12/29/2021 17:47	WG1796166
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	12/29/2021 17:47	WG1796166
Tetrachloroethene	U		0.000300	0.00100	1	12/29/2021 17:47	WG1796166
Toluene	U		0.000278	0.00100	1	12/29/2021 17:47	WG1796166
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/29/2021 17:47	WG1796166
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	12/29/2021 17:47	WG1796166
1,1,1-Trichloroethane	U		0.000149	0.00100	1	12/29/2021 17:47	WG1796166
1,1,2-Trichloroethane	U		0.000158	0.00100	1	12/29/2021 17:47	WG1796166
Trichloroethene	U	C3	0.000190	0.00100	1	12/29/2021 17:47	WG1796166
Trichlorofluoromethane	U		0.000160	0.00500	1	12/29/2021 17:47	WG1796166
1,2,3-Trichloropropane	U		0.000237	0.00250	1	12/29/2021 17:47	WG1796166
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/29/2021 17:47	WG1796166
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/29/2021 17:47	WG1796166
Vinyl chloride	U	C3	0.000234	0.00100	1	12/29/2021 17:47	WG1796166
Xylenes, Total	0.000362	J	0.000174	0.00300	1	12/29/2021 17:47	WG1796166
(S) Toluene-d8	*102*			*80.0-120*		*12/29/2021 17:47*	WG1796166
(S) Toluene-d8	*97.3*			*80.0-120*		*12/30/2021 15:06*	WG1796437
(S) 4-Bromofluorobenzene	*95.7*			*77.0-126*		*12/29/2021 17:47*	WG1796166
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*12/30/2021 15:06*	WG1796437
(S) 1,2-Dichloroethane-d4	*88.8*			*70.0-130*		*12/29/2021 17:47*	WG1796166
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*12/30/2021 15:06*	WG1796437

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.0749	J	0.0222	0.100	1	12/30/2021 15:36	WG1796441
C28-C36 Motor Oil Range	0.199		0.0118	0.100	1	12/30/2021 15:36	WG1796441
(S) o-Terphenyl	*92.6*			*52.0-156*		*12/30/2021 15:36*	WG1796441

TB-01
Collected date/time: 12/27/21 15:31
L1446285

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	U		0.379	1.00	1	01/07/2022 21:31	WG1798353
Sulfate	U		0.594	5.00	1	01/07/2022 21:31	WG1798353

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	12/29/2021 17:19	WG1796079
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*12/29/2021 17:19*	WG1796079

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	12/29/2021 18:07	WG1796166
Acrolein	U	C3	0.00254	0.0500	1	12/29/2021 18:07	WG1796166
Acrylonitrile	U		0.000671	0.0100	1	12/29/2021 18:07	WG1796166
Benzene	U		0.0000941	0.00100	1	12/29/2021 18:07	WG1796166
Bromobenzene	U		0.000118	0.00100	1	12/29/2021 18:07	WG1796166
Bromodichloromethane	U		0.000136	0.00100	1	12/29/2021 18:07	WG1796166
Bromoform	U		0.000129	0.00100	1	12/29/2021 18:07	WG1796166
Bromomethane	U		0.000605	0.00500	1	12/29/2021 18:07	WG1796166
n-Butylbenzene	U		0.000157	0.00100	1	12/29/2021 18:07	WG1796166
sec-Butylbenzene	U		0.000125	0.00100	1	12/29/2021 18:07	WG1796166
tert-Butylbenzene	U		0.000127	0.00100	1	12/29/2021 18:07	WG1796166
Carbon tetrachloride	U		0.000128	0.00100	1	12/29/2021 18:07	WG1796166
Chlorobenzene	U		0.000116	0.00100	1	12/29/2021 18:07	WG1796166
Chlorodibromomethane	U		0.000140	0.00100	1	12/29/2021 18:07	WG1796166
Chloroethane	U	C3	0.000192	0.00500	1	12/29/2021 18:07	WG1796166
Chloroform	U		0.000111	0.00500	1	12/29/2021 18:07	WG1796166
Chloromethane	U		0.000960	0.00250	1	12/29/2021 18:07	WG1796166
2-Chlorotoluene	U		0.000106	0.00100	1	12/29/2021 18:07	WG1796166
4-Chlorotoluene	U		0.000114	0.00100	1	12/29/2021 18:07	WG1796166
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	12/29/2021 18:07	WG1796166
1,2-Dibromoethane	U		0.000126	0.00100	1	12/29/2021 18:07	WG1796166
Dibromomethane	U		0.000122	0.00100	1	12/29/2021 18:07	WG1796166
1,2-Dichlorobenzene	U		0.000107	0.00100	1	12/29/2021 18:07	WG1796166
1,3-Dichlorobenzene	U		0.000110	0.00100	1	12/29/2021 18:07	WG1796166
1,4-Dichlorobenzene	U		0.000120	0.00100	1	12/29/2021 18:07	WG1796166
Dichlorodifluoromethane	U		0.000374	0.00500	1	12/29/2021 18:07	WG1796166
1,1-Dichloroethane	U		0.000100	0.00100	1	12/29/2021 18:07	WG1796166
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/29/2021 18:07	WG1796166
1,1-Dichloroethene	U		0.000188	0.00100	1	12/29/2021 18:07	WG1796166
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	12/29/2021 18:07	WG1796166
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	12/29/2021 18:07	WG1796166
1,2-Dichloropropane	U		0.000149	0.00100	1	12/29/2021 18:07	WG1796166
1,1-Dichloropropene	U		0.000142	0.00100	1	12/29/2021 18:07	WG1796166
1,3-Dichloropropane	U		0.000110	0.00100	1	12/29/2021 18:07	WG1796166
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	12/29/2021 18:07	WG1796166
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	12/29/2021 18:07	WG1796166
2,2-Dichloropropane	U		0.000161	0.00100	1	12/29/2021 18:07	WG1796166
Di-isopropyl ether	U		0.000105	0.00100	1	12/29/2021 18:07	WG1796166
Ethylbenzene	U		0.000137	0.00100	1	12/29/2021 18:07	WG1796166
Hexachloro-1,3-butadiene	U		0.000490	0.00100	1	12/29/2021 18:07	WG1796166
Isopropylbenzene	U		0.000105	0.00100	1	12/29/2021 18:07	WG1796166
p-Isopropyltoluene	U		0.000120	0.00100	1	12/29/2021 18:07	WG1796166

PB-01
Collected date/time: 12/27/21 15:31
L1446285

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.00119	0.0100	1	12/29/2021 18:07	WG1796166
Methylene Chloride	U		0.000430	0.00500	1	12/29/2021 18:07	WG1796166
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	12/29/2021 18:07	WG1796166
Methyl tert-butyl ether	U	C3	0.000101	0.00100	1	12/29/2021 18:07	WG1796166
Naphthalene	U		0.00100	0.00500	1	12/29/2021 18:07	WG1796166
n-Propylbenzene	U		0.0000993	0.00100	1	12/29/2021 18:07	WG1796166
Styrene	U		0.000118	0.00100	1	12/29/2021 18:07	WG1796166
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	12/29/2021 18:07	WG1796166
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	12/29/2021 18:07	WG1796166
Tetrachloroethene	U		0.000300	0.00100	1	12/29/2021 18:07	WG1796166
Toluene	U		0.000278	0.00100	1	12/29/2021 18:07	WG1796166
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/29/2021 18:07	WG1796166
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	12/29/2021 18:07	WG1796166
1,1,1-Trichloroethane	U		0.000149	0.00100	1	12/29/2021 18:07	WG1796166
1,1,2-Trichloroethane	U		0.000158	0.00100	1	12/29/2021 18:07	WG1796166
Trichloroethene	U	C3	0.000190	0.00100	1	12/29/2021 18:07	WG1796166
Trichlorofluoromethane	U		0.000160	0.00500	1	12/29/2021 18:07	WG1796166
1,2,3-Trichloropropane	U		0.000237	0.00250	1	12/29/2021 18:07	WG1796166
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/29/2021 18:07	WG1796166
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/29/2021 18:07	WG1796166
Vinyl chloride	U	C3	0.000234	0.00100	1	12/29/2021 18:07	WG1796166
Xylenes, Total	U		0.000174	0.00300	1	12/29/2021 18:07	WG1796166
(S) Toluene-d8	*100*			*80.0-120*		*12/29/2021 18:07*	WG1796166
(S) 4-Bromofluorobenzene	*90.4*			*77.0-126*		*12/29/2021 18:07*	WG1796166
(S) 1,2-Dichloroethane-d4	*91.0*			*70.0-130*		*12/29/2021 18:07*	WG1796166

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.102		0.0222	0.100	1	12/30/2021 16:03	WG1796441
C28-C36 Motor Oil Range	0.253		0.0118	0.100	1	12/30/2021 16:03	WG1796441
(S) o-Terphenyl	*98.4*			*52.0-156*		*12/30/2021 16:03*	WG1796441

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	66.3		0.379	1.00	1	01/07/2022 21:44	WG1798353
Sulfate	109		2.97	25.0	5	01/07/2022 22:14	WG1798353

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	12/29/2021 17:42	WG1796079
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*12/29/2021 17:42*	WG1796079

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	12/29/2021 18:28	WG1796166
Acrolein	U	C3	0.00254	0.0500	1	12/29/2021 18:28	WG1796166
Acrylonitrile	U		0.000671	0.0100	1	12/29/2021 18:28	WG1796166
Benzene	U		0.0000941	0.00100	1	12/29/2021 18:28	WG1796166
Bromobenzene	U		0.000118	0.00100	1	12/29/2021 18:28	WG1796166
Bromodichloromethane	U		0.000136	0.00100	1	12/29/2021 18:28	WG1796166
Bromoform	U		0.000129	0.00100	1	12/29/2021 18:28	WG1796166
Bromomethane	U		0.000605	0.00500	1	12/29/2021 18:28	WG1796166
n-Butylbenzene	U		0.000157	0.00100	1	12/29/2021 18:28	WG1796166
sec-Butylbenzene	U		0.000125	0.00100	1	12/29/2021 18:28	WG1796166
tert-Butylbenzene	U		0.000127	0.00100	1	12/29/2021 18:28	WG1796166
Carbon tetrachloride	U		0.000128	0.00100	1	12/29/2021 18:28	WG1796166
Chlorobenzene	U		0.000116	0.00100	1	12/29/2021 18:28	WG1796166
Chlorodibromomethane	U		0.000140	0.00100	1	12/29/2021 18:28	WG1796166
Chloroethane	U	C3	0.000192	0.00500	1	12/29/2021 18:28	WG1796166
Chloroform	U		0.000111	0.00500	1	12/29/2021 18:28	WG1796166
Chloromethane	U		0.000960	0.00250	1	12/29/2021 18:28	WG1796166
2-Chlorotoluene	U		0.000106	0.00100	1	12/29/2021 18:28	WG1796166
4-Chlorotoluene	U		0.000114	0.00100	1	12/29/2021 18:28	WG1796166
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	12/29/2021 18:28	WG1796166
1,2-Dibromoethane	U		0.000126	0.00100	1	12/29/2021 18:28	WG1796166
Dibromomethane	U		0.000122	0.00100	1	12/29/2021 18:28	WG1796166
1,2-Dichlorobenzene	U		0.000107	0.00100	1	12/29/2021 18:28	WG1796166
1,3-Dichlorobenzene	U		0.000110	0.00100	1	12/29/2021 18:28	WG1796166
1,4-Dichlorobenzene	U		0.000120	0.00100	1	12/29/2021 18:28	WG1796166
Dichlorodifluoromethane	U		0.000374	0.00500	1	12/29/2021 18:28	WG1796166
1,1-Dichloroethane	U		0.000100	0.00100	1	12/29/2021 18:28	WG1796166
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/29/2021 18:28	WG1796166
1,1-Dichloroethene	U		0.000188	0.00100	1	12/29/2021 18:28	WG1796166
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	12/29/2021 18:28	WG1796166
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	12/29/2021 18:28	WG1796166
1,2-Dichloropropane	U		0.000149	0.00100	1	12/29/2021 18:28	WG1796166
1,1-Dichloropropene	U		0.000142	0.00100	1	12/29/2021 18:28	WG1796166
1,3-Dichloropropane	U		0.000110	0.00100	1	12/29/2021 18:28	WG1796166
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	12/29/2021 18:28	WG1796166
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	12/29/2021 18:28	WG1796166
2,2-Dichloropropane	U		0.000161	0.00100	1	12/29/2021 18:28	WG1796166
Di-isopropyl ether	U		0.000105	0.00100	1	12/29/2021 18:28	WG1796166
Ethylbenzene	U		0.000137	0.00100	1	12/29/2021 18:28	WG1796166
Hexachloro-1,3-butadiene	U		0.000490	0.00100	1	12/29/2021 18:28	WG1796166
Isopropylbenzene	U		0.000105	0.00100	1	12/29/2021 18:28	WG1796166
p-Isopropyltoluene	U		0.000120	0.00100	1	12/29/2021 18:28	WG1796166

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.00119	0.0100	1	12/29/2021 18:28	WG1796166
Methylene Chloride	U		0.000430	0.00500	1	12/29/2021 18:28	WG1796166
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	12/29/2021 18:28	WG1796166
Methyl tert-butyl ether	U	C3	0.000101	0.00100	1	12/29/2021 18:28	WG1796166
Naphthalene	U		0.00100	0.00500	1	12/29/2021 18:28	WG1796166
n-Propylbenzene	U		0.0000993	0.00100	1	12/29/2021 18:28	WG1796166
Styrene	U		0.000118	0.00100	1	12/29/2021 18:28	WG1796166
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	12/29/2021 18:28	WG1796166
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	12/29/2021 18:28	WG1796166
Tetrachloroethene	U		0.000300	0.00100	1	12/29/2021 18:28	WG1796166
Toluene	U		0.000278	0.00100	1	12/29/2021 18:28	WG1796166
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/29/2021 18:28	WG1796166
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	12/29/2021 18:28	WG1796166
1,1,1-Trichloroethane	U		0.000149	0.00100	1	12/29/2021 18:28	WG1796166
1,1,2-Trichloroethane	U		0.000158	0.00100	1	12/29/2021 18:28	WG1796166
Trichloroethene	U	C3	0.000190	0.00100	1	12/29/2021 18:28	WG1796166
Trichlorofluoromethane	U		0.000160	0.00500	1	12/29/2021 18:28	WG1796166
1,2,3-Trichloropropane	U		0.000237	0.00250	1	12/29/2021 18:28	WG1796166
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/29/2021 18:28	WG1796166
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/29/2021 18:28	WG1796166
Vinyl chloride	U	C3	0.000234	0.00100	1	12/29/2021 18:28	WG1796166
Xylenes, Total	U		0.000174	0.00300	1	12/29/2021 18:28	WG1796166
(S) Toluene-d8	*103*			*80.0-120*		*12/29/2021 18:28*	WG1796166
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*12/29/2021 18:28*	WG1796166
(S) 1,2-Dichloroethane-d4	*89.1*			*70.0-130*		*12/29/2021 18:28*	WG1796166

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.0909	J	0.0222	0.100	1	12/30/2021 16:32	WG1796441
C28-C36 Motor Oil Range	0.250		0.0118	0.100	1	12/30/2021 16:32	WG1796441
(S) o-Terphenyl	*102*			*52.0-156*		*12/30/2021 16:32*	WG1796441

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	64.6		0.379	1.00	1	01/07/2022 22:26	WG1798353
Sulfate	109		2.97	25.0	5	01/07/2022 22:39	WG1798353

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0341	J	0.0314	0.100	1	12/29/2021 18:05	WG1796079
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*12/29/2021 18:05*	WG1796079

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	12/29/2021 18:48	WG1796166
Acrolein	U	C3	0.00254	0.0500	1	12/29/2021 18:48	WG1796166
Acrylonitrile	U		0.000671	0.0100	1	12/29/2021 18:48	WG1796166
Benzene	0.000977	J	0.0000941	0.00100	1	12/29/2021 18:48	WG1796166
Bromobenzene	U		0.000118	0.00100	1	12/29/2021 18:48	WG1796166
Bromodichloromethane	U		0.000136	0.00100	1	12/29/2021 18:48	WG1796166
Bromoform	U		0.000129	0.00100	1	12/29/2021 18:48	WG1796166
Bromomethane	U		0.000605	0.00500	1	12/29/2021 18:48	WG1796166
n-Butylbenzene	U		0.000157	0.00100	1	12/29/2021 18:48	WG1796166
sec-Butylbenzene	U		0.000125	0.00100	1	12/29/2021 18:48	WG1796166
tert-Butylbenzene	U		0.000127	0.00100	1	12/29/2021 18:48	WG1796166
Carbon tetrachloride	U		0.000128	0.00100	1	12/29/2021 18:48	WG1796166
Chlorobenzene	U		0.000116	0.00100	1	12/29/2021 18:48	WG1796166
Chlorodibromomethane	U		0.000140	0.00100	1	12/29/2021 18:48	WG1796166
Chloroethane	U	C3	0.000192	0.00500	1	12/29/2021 18:48	WG1796166
Chloroform	U		0.000111	0.00500	1	12/29/2021 18:48	WG1796166
Chloromethane	U		0.000960	0.00250	1	12/29/2021 18:48	WG1796166
2-Chlorotoluene	U		0.000106	0.00100	1	12/29/2021 18:48	WG1796166
4-Chlorotoluene	U		0.000114	0.00100	1	12/29/2021 18:48	WG1796166
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	12/29/2021 18:48	WG1796166
1,2-Dibromoethane	U		0.000126	0.00100	1	12/29/2021 18:48	WG1796166
Dibromomethane	U		0.000122	0.00100	1	12/29/2021 18:48	WG1796166
1,2-Dichlorobenzene	U		0.000107	0.00100	1	12/29/2021 18:48	WG1796166
1,3-Dichlorobenzene	U		0.000110	0.00100	1	12/29/2021 18:48	WG1796166
1,4-Dichlorobenzene	U		0.000120	0.00100	1	12/29/2021 18:48	WG1796166
Dichlorodifluoromethane	U		0.000374	0.00500	1	12/29/2021 18:48	WG1796166
1,1-Dichloroethane	U		0.000100	0.00100	1	12/29/2021 18:48	WG1796166
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/29/2021 18:48	WG1796166
1,1-Dichloroethene	U		0.000188	0.00100	1	12/29/2021 18:48	WG1796166
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	12/29/2021 18:48	WG1796166
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	12/29/2021 18:48	WG1796166
1,2-Dichloropropane	U		0.000149	0.00100	1	12/29/2021 18:48	WG1796166
1,1-Dichloropropene	U		0.000142	0.00100	1	12/29/2021 18:48	WG1796166
1,3-Dichloropropane	U		0.000110	0.00100	1	12/29/2021 18:48	WG1796166
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	12/29/2021 18:48	WG1796166
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	12/29/2021 18:48	WG1796166
2,2-Dichloropropane	U		0.000161	0.00100	1	12/29/2021 18:48	WG1796166
Di-isopropyl ether	U		0.000105	0.00100	1	12/29/2021 18:48	WG1796166
Ethylbenzene	0.000660	J	0.000137	0.00100	1	12/29/2021 18:48	WG1796166
Hexachloro-1,3-butadiene	U		0.000490	0.00100	1	12/29/2021 18:48	WG1796166
Isopropylbenzene	0.000153	J	0.000105	0.00100	1	12/29/2021 18:48	WG1796166
p-Isopropyltoluene	U		0.000120	0.00100	1	12/29/2021 18:48	WG1796166

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.00119	0.0100	1	12/29/2021 18:48	WG1796166
Methylene Chloride	U		0.000430	0.00500	1	12/29/2021 18:48	WG1796166
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	12/29/2021 18:48	WG1796166
Methyl tert-butyl ether	U	C3	0.000101	0.00100	1	12/29/2021 18:48	WG1796166
Naphthalene	U		0.00100	0.00500	1	12/29/2021 18:48	WG1796166
n-Propylbenzene	U		0.0000993	0.00100	1	12/29/2021 18:48	WG1796166
Styrene	U		0.000118	0.00100	1	12/29/2021 18:48	WG1796166
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	12/29/2021 18:48	WG1796166
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	12/29/2021 18:48	WG1796166
Tetrachloroethene	U		0.000300	0.00100	1	12/29/2021 18:48	WG1796166
Toluene	0.00196		0.000278	0.00100	1	12/29/2021 18:48	WG1796166
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/29/2021 18:48	WG1796166
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	12/29/2021 18:48	WG1796166
1,1,1-Trichloroethane	U		0.000149	0.00100	1	12/29/2021 18:48	WG1796166
1,1,2-Trichloroethane	U		0.000158	0.00100	1	12/29/2021 18:48	WG1796166
Trichloroethene	U	C3	0.000190	0.00100	1	12/29/2021 18:48	WG1796166
Trichlorofluoromethane	U		0.000160	0.00500	1	12/29/2021 18:48	WG1796166
1,2,3-Trichloropropane	U		0.000237	0.00250	1	12/29/2021 18:48	WG1796166
1,2,4-Trimethylbenzene	0.000612	J	0.000322	0.00100	1	12/29/2021 18:48	WG1796166
1,3,5-Trimethylbenzene	0.000720	J	0.000104	0.00100	1	12/29/2021 18:48	WG1796166
Vinyl chloride	U	C3	0.000234	0.00100	1	12/29/2021 18:48	WG1796166
Xylenes, Total	0.00378		0.000174	0.00300	1	12/29/2021 18:48	WG1796166
(S) Toluene-d8	*103*			*80.0-120*		*12/29/2021 18:48*	WG1796166
(S) 4-Bromofluorobenzene	*95.5*			*77.0-126*		*12/29/2021 18:48*	WG1796166
(S) 1,2-Dichloroethane-d4	*88.4*			*70.0-130*		*12/29/2021 18:48*	WG1796166

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.118		0.0222	0.100	1	12/30/2021 17:01	WG1796441
C28-C36 Motor Oil Range	0.211		0.0118	0.100	1	12/30/2021 17:01	WG1796441
(S) o-Terphenyl	*107*			*52.0-156*		*12/30/2021 17:01*	WG1796441

LB-01
Collected date/time: 12/27/21 18:00
L1446285

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	U		0.379	1.00	1	01/07/2022 22:52	WG1798353
Sulfate	U		0.594	5.00	1	01/07/2022 22:52	WG1798353

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	12/29/2021 18:28	WG1796079
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*12/29/2021 18:28*	WG1796079

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	12/29/2021 19:09	WG1796166
Acrolein	U	C3	0.00254	0.0500	1	12/29/2021 19:09	WG1796166
Acrylonitrile	U		0.000671	0.0100	1	12/29/2021 19:09	WG1796166
Benzene	U		0.0000941	0.00100	1	12/29/2021 19:09	WG1796166
Bromobenzene	U		0.000118	0.00100	1	12/29/2021 19:09	WG1796166
Bromodichloromethane	U		0.000136	0.00100	1	12/29/2021 19:09	WG1796166
Bromoform	U		0.000129	0.00100	1	12/29/2021 19:09	WG1796166
Bromomethane	U		0.000605	0.00500	1	12/29/2021 19:09	WG1796166
n-Butylbenzene	U		0.000157	0.00100	1	12/29/2021 19:09	WG1796166
sec-Butylbenzene	U		0.000125	0.00100	1	12/29/2021 19:09	WG1796166
tert-Butylbenzene	U		0.000127	0.00100	1	12/29/2021 19:09	WG1796166
Carbon tetrachloride	U		0.000128	0.00100	1	12/29/2021 19:09	WG1796166
Chlorobenzene	U		0.000116	0.00100	1	12/29/2021 19:09	WG1796166
Chlorodibromomethane	U		0.000140	0.00100	1	12/29/2021 19:09	WG1796166
Chloroethane	U	C3	0.000192	0.00500	1	12/29/2021 19:09	WG1796166
Chloroform	U		0.000111	0.00500	1	12/29/2021 19:09	WG1796166
Chloromethane	U		0.000960	0.00250	1	12/29/2021 19:09	WG1796166
2-Chlorotoluene	U		0.000106	0.00100	1	12/29/2021 19:09	WG1796166
4-Chlorotoluene	U		0.000114	0.00100	1	12/29/2021 19:09	WG1796166
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	12/29/2021 19:09	WG1796166
1,2-Dibromoethane	U		0.000126	0.00100	1	12/29/2021 19:09	WG1796166
Dibromomethane	U		0.000122	0.00100	1	12/29/2021 19:09	WG1796166
1,2-Dichlorobenzene	U		0.000107	0.00100	1	12/29/2021 19:09	WG1796166
1,3-Dichlorobenzene	U		0.000110	0.00100	1	12/29/2021 19:09	WG1796166
1,4-Dichlorobenzene	U		0.000120	0.00100	1	12/29/2021 19:09	WG1796166
Dichlorodifluoromethane	U		0.000374	0.00500	1	12/29/2021 19:09	WG1796166
1,1-Dichloroethane	U		0.000100	0.00100	1	12/29/2021 19:09	WG1796166
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/29/2021 19:09	WG1796166
1,1-Dichloroethene	U		0.000188	0.00100	1	12/29/2021 19:09	WG1796166
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	12/29/2021 19:09	WG1796166
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	12/29/2021 19:09	WG1796166
1,2-Dichloropropane	U		0.000149	0.00100	1	12/29/2021 19:09	WG1796166
1,1-Dichloropropene	U		0.000142	0.00100	1	12/29/2021 19:09	WG1796166
1,3-Dichloropropane	U		0.000110	0.00100	1	12/29/2021 19:09	WG1796166
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	12/29/2021 19:09	WG1796166
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	12/29/2021 19:09	WG1796166
2,2-Dichloropropane	U		0.000161	0.00100	1	12/29/2021 19:09	WG1796166
Di-isopropyl ether	U		0.000105	0.00100	1	12/29/2021 19:09	WG1796166
Ethylbenzene	U		0.000137	0.00100	1	12/29/2021 19:09	WG1796166
Hexachloro-1,3-butadiene	U		0.000490	0.00100	1	12/29/2021 19:09	WG1796166
Isopropylbenzene	U		0.000105	0.00100	1	12/29/2021 19:09	WG1796166
p-Isopropyltoluene	U		0.000120	0.00100	1	12/29/2021 19:09	WG1796166

EB-01
Collected date/time: 12/27/21 18:00
L1446285

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	0.00242	J	0.00119	0.0100	1	12/29/2021 19:09	WG1796166
Methylene Chloride	U		0.000430	0.00500	1	12/29/2021 19:09	WG1796166
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	12/29/2021 19:09	WG1796166
Methyl tert-butyl ether	U	C3	0.000101	0.00100	1	12/29/2021 19:09	WG1796166
Naphthalene	U		0.00100	0.00500	1	12/29/2021 19:09	WG1796166
n-Propylbenzene	U		0.0000993	0.00100	1	12/29/2021 19:09	WG1796166
Styrene	U		0.000118	0.00100	1	12/29/2021 19:09	WG1796166
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	12/29/2021 19:09	WG1796166
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	12/29/2021 19:09	WG1796166
Tetrachloroethene	U		0.000300	0.00100	1	12/29/2021 19:09	WG1796166
Toluene	U		0.000278	0.00100	1	12/29/2021 19:09	WG1796166
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/29/2021 19:09	WG1796166
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	12/29/2021 19:09	WG1796166
1,1,1-Trichloroethane	U		0.000149	0.00100	1	12/29/2021 19:09	WG1796166
1,1,2-Trichloroethane	U		0.000158	0.00100	1	12/29/2021 19:09	WG1796166
Trichloroethene	U	C3	0.000190	0.00100	1	12/29/2021 19:09	WG1796166
Trichlorofluoromethane	U		0.000160	0.00500	1	12/29/2021 19:09	WG1796166
1,2,3-Trichloropropane	U		0.000237	0.00250	1	12/29/2021 19:09	WG1796166
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/29/2021 19:09	WG1796166
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/29/2021 19:09	WG1796166
Vinyl chloride	U	C3	0.000234	0.00100	1	12/29/2021 19:09	WG1796166
Xylenes, Total	U		0.000174	0.00300	1	12/29/2021 19:09	WG1796166
(S) Toluene-d8	*98.3*			*80.0-120*		*12/29/2021 19:09*	WG1796166
(S) 4-Bromofluorobenzene	*98.6*			*77.0-126*		*12/29/2021 19:09*	WG1796166
(S) 1,2-Dichloroethane-d4	*88.5*			*70.0-130*		*12/29/2021 19:09*	WG1796166

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.147		0.0222	0.100	1	12/30/2021 17:28	WG1796441
C28-C36 Motor Oil Range	0.358		0.0118	0.100	1	12/30/2021 17:28	WG1796441
(S) o-Terphenyl	*84.7*			*52.0-156*		*12/30/2021 17:28*	WG1796441

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	63.9		0.379	1.00	1	01/07/2022 23:18	WG1798353
Sulfate	112		2.97	25.0	5	01/07/2022 23:30	WG1798353

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	12/29/2021 18:52	WG1796079
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*12/29/2021 18:52*	WG1796079

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	12/29/2021 19:30	WG1796166
Acrolein	U	C3	0.00254	0.0500	1	12/29/2021 19:30	WG1796166
Acrylonitrile	U		0.000671	0.0100	1	12/29/2021 19:30	WG1796166
Benzene	0.000762	J	0.0000941	0.00100	1	12/29/2021 19:30	WG1796166
Bromobenzene	U		0.000118	0.00100	1	12/29/2021 19:30	WG1796166
Bromodichloromethane	U		0.000136	0.00100	1	12/29/2021 19:30	WG1796166
Bromoform	U		0.000129	0.00100	1	12/29/2021 19:30	WG1796166
Bromomethane	U		0.000605	0.00500	1	12/29/2021 19:30	WG1796166
n-Butylbenzene	U		0.000157	0.00100	1	12/29/2021 19:30	WG1796166
sec-Butylbenzene	U		0.000125	0.00100	1	12/29/2021 19:30	WG1796166
tert-Butylbenzene	U		0.000127	0.00100	1	12/29/2021 19:30	WG1796166
Carbon tetrachloride	U		0.000128	0.00100	1	12/29/2021 19:30	WG1796166
Chlorobenzene	U		0.000116	0.00100	1	12/29/2021 19:30	WG1796166
Chlorodibromomethane	U		0.000140	0.00100	1	12/29/2021 19:30	WG1796166
Chloroethane	U	C3	0.000192	0.00500	1	12/29/2021 19:30	WG1796166
Chloroform	U		0.000111	0.00500	1	12/29/2021 19:30	WG1796166
Chloromethane	U		0.000960	0.00250	1	12/29/2021 19:30	WG1796166
2-Chlorotoluene	U		0.000106	0.00100	1	12/29/2021 19:30	WG1796166
4-Chlorotoluene	U		0.000114	0.00100	1	12/29/2021 19:30	WG1796166
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	12/29/2021 19:30	WG1796166
1,2-Dibromoethane	U		0.000126	0.00100	1	12/29/2021 19:30	WG1796166
Dibromomethane	U		0.000122	0.00100	1	12/29/2021 19:30	WG1796166
1,2-Dichlorobenzene	U		0.000107	0.00100	1	12/29/2021 19:30	WG1796166
1,3-Dichlorobenzene	U		0.000110	0.00100	1	12/29/2021 19:30	WG1796166
1,4-Dichlorobenzene	U		0.000120	0.00100	1	12/29/2021 19:30	WG1796166
Dichlorodifluoromethane	U		0.000374	0.00500	1	12/29/2021 19:30	WG1796166
1,1-Dichloroethane	U		0.000100	0.00100	1	12/29/2021 19:30	WG1796166
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/29/2021 19:30	WG1796166
1,1-Dichloroethene	U		0.000188	0.00100	1	12/29/2021 19:30	WG1796166
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	12/29/2021 19:30	WG1796166
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	12/29/2021 19:30	WG1796166
1,2-Dichloropropane	U		0.000149	0.00100	1	12/29/2021 19:30	WG1796166
1,1-Dichloropropene	U		0.000142	0.00100	1	12/29/2021 19:30	WG1796166
1,3-Dichloropropane	U		0.000110	0.00100	1	12/29/2021 19:30	WG1796166
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	12/29/2021 19:30	WG1796166
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	12/29/2021 19:30	WG1796166
2,2-Dichloropropane	U		0.000161	0.00100	1	12/29/2021 19:30	WG1796166
Di-isopropyl ether	U		0.000105	0.00100	1	12/29/2021 19:30	WG1796166
Ethylbenzene	0.000488	J	0.000137	0.00100	1	12/29/2021 19:30	WG1796166
Hexachloro-1,3-butadiene	U		0.000490	0.00100	1	12/29/2021 19:30	WG1796166
Isopropylbenzene	0.000157	J	0.000105	0.00100	1	12/29/2021 19:30	WG1796166
p-Isopropyltoluene	U		0.000120	0.00100	1	12/29/2021 19:30	WG1796166

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.00119	0.0100	1	12/29/2021 19:30	WG1796166
Methylene Chloride	U		0.000430	0.00500	1	12/29/2021 19:30	WG1796166
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	12/29/2021 19:30	WG1796166
Methyl tert-butyl ether	U	C3	0.000101	0.00100	1	12/29/2021 19:30	WG1796166
Naphthalene	U		0.00100	0.00500	1	12/29/2021 19:30	WG1796166
n-Propylbenzene	U		0.0000993	0.00100	1	12/29/2021 19:30	WG1796166
Styrene	U		0.000118	0.00100	1	12/29/2021 19:30	WG1796166
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	12/29/2021 19:30	WG1796166
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	12/29/2021 19:30	WG1796166
Tetrachloroethene	U		0.000300	0.00100	1	12/29/2021 19:30	WG1796166
Toluene	0.00152		0.000278	0.00100	1	12/29/2021 19:30	WG1796166
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/29/2021 19:30	WG1796166
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	12/29/2021 19:30	WG1796166
1,1,1-Trichloroethane	U		0.000149	0.00100	1	12/29/2021 19:30	WG1796166
1,1,2-Trichloroethane	U		0.000158	0.00100	1	12/29/2021 19:30	WG1796166
Trichloroethene	U	C3	0.000190	0.00100	1	12/29/2021 19:30	WG1796166
Trichlorofluoromethane	U		0.000160	0.00500	1	12/29/2021 19:30	WG1796166
1,2,3-Trichloropropane	U		0.000237	0.00250	1	12/29/2021 19:30	WG1796166
1,2,4-Trimethylbenzene	0.000594	J	0.000322	0.00100	1	12/29/2021 19:30	WG1796166
1,3,5-Trimethylbenzene	0.000696	J	0.000104	0.00100	1	12/29/2021 19:30	WG1796166
Vinyl chloride	U	C3	0.000234	0.00100	1	12/29/2021 19:30	WG1796166
Xylenes, Total	0.00308		0.000174	0.00300	1	12/29/2021 19:30	WG1796166
(S) Toluene-d8	*101*			*80.0-120*		*12/29/2021 19:30*	WG1796166
(S) 4-Bromofluorobenzene	*92.8*			*77.0-126*		*12/29/2021 19:30*	WG1796166
(S) 1,2-Dichloroethane-d4	*94.5*			*70.0-130*		*12/29/2021 19:30*	WG1796166

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.0332	J	0.0222	0.100	1	12/30/2021 17:57	WG1796441
C28-C36 Motor Oil Range	0.0797	J	0.0118	0.100	1	12/30/2021 17:57	WG1796441
(S) o-Terphenyl	*90.0*			*52.0-156*		*12/30/2021 17:57*	WG1796441

Method Blank (MB)

(MB) R3746974-1 12/30/21 13:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1446250-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1446250-01 12/30/21 13:55 • (DUP) R3746974-3 12/30/21 13:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	618	648	1	4.74		5

L1446262-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1446262-03 12/30/21 13:55 • (DUP) R3746974-4 12/30/21 13:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1480	1630	1	9.68	J3	5

Laboratory Control Sample (LCS)

(LCS) R3746974-2 12/30/21 13:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8290	94.2	77.4-123	

Method Blank (MB)

(MB) R3746972-1 12/30/21 16:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1446049-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1446049-01 12/30/21 16:49 • (DUP) R3746972-3 12/30/21 16:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	729	769	1	5.34	J3	5

L1446264-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1446264-02 12/30/21 16:49 • (DUP) R3746972-4 12/30/21 16:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	753	753	1	0.000		5

Laboratory Control Sample (LCS)

(LCS) R3746972-2 12/30/21 16:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8320	94.5	77.4-123	

Method Blank (MB)

(MB) R3748123-1 01/07/22 14:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1446281-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1446281-01 01/07/22 19:23 • (DUP) R3748123-3 01/07/22 19:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.90	1.80	1	5.47		20
Sulfate	1.64	1.45	1	0.000		20

L1446288-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1446288-01 01/08/22 00:09 • (DUP) R3748123-7 01/08/22 00:21

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	128	128	10	0.273		20
Sulfate	U	U	10	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3748123-2 01/07/22 14:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	41.3	103	90.0-110	
Sulfate	40.0	41.5	104	90.0-110	

L1446281-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1446281-01 01/07/22 19:23 • (MS) R3748123-4 01/07/22 19:49 • (MSD) R3748123-5 01/07/22 20:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	1.90	55.7	55.7	108	108	1	80.0-120			0.0793	20
Sulfate	50.0	1.64	54.8	55.0	106	107	1	80.0-120			0.512	20

L1446285-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1446285-09 01/07/22 22:52 • (MS) R3748123-6 01/07/22 23:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	U	51.9	104	1	80.0-120	
Sulfate	50.0	U	52.2	104	1	80.0-120	

Method Blank (MB)

(MB) R3746355-2 12/29/21 11:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3746355-1 12/29/21 10:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.14	93.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*96.9*	*78.0-120*	

Method Blank (MB)

(MB) R3746453-2 12/30/21 14:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3746453-1 12/30/21 10:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.33	96.9	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*96.7*	*78.0-120*	

Method Blank (MB)

(MB) R3746135-3 12/29/21 10:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromobenzene	U		0.000118	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
2-Chlorotoluene	U		0.000106	0.00100
4-Chlorotoluene	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
1,2-Dibromoethane	U		0.000126	0.00100
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
2,2-Dichloropropane	U		0.000161	0.00100
Di-isopropyl ether	U		0.000105	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000490	0.00100

Method Blank (MB)

(MB) R3746135-3 12/29/21 10:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*99.2*			*80.0-120*
(S) 4-Bromofluorobenzene	*99.8*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*89.3*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3746135-1 12/29/21 09:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0278	111	19.0-160	
Acrolein	0.0250	0.0118	47.2	10.0-160	
Acrylonitrile	0.0250	0.0230	92.0	55.0-149	
Benzene	0.00500	0.00444	88.8	70.0-123	
Bromobenzene	0.00500	0.00449	89.8	73.0-121	
Bromodichloromethane	0.00500	0.00456	91.2	75.0-120	

Laboratory Control Sample (LCS)

(LCS) R3746135-1 12/29/21 09:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.00500	0.00468	93.6	68.0-132	
Bromomethane	0.00500	0.00430	86.0	10.0-160	
n-Butylbenzene	0.00500	0.00452	90.4	73.0-125	
sec-Butylbenzene	0.00500	0.00464	92.8	75.0-125	
tert-Butylbenzene	0.00500	0.00473	94.6	76.0-124	
Carbon tetrachloride	0.00500	0.00445	89.0	68.0-126	
Chlorobenzene	0.00500	0.00467	93.4	80.0-121	
Chlorodibromomethane	0.00500	0.00472	94.4	77.0-125	
Chloroethane	0.00500	0.00376	75.2	47.0-150	
Chloroform	0.00500	0.00449	89.8	73.0-120	
Chloromethane	0.00500	0.00415	83.0	41.0-142	
2-Chlorotoluene	0.00500	0.00474	94.8	76.0-123	
4-Chlorotoluene	0.00500	0.00480	96.0	75.0-122	
1,2-Dibromo-3-Chloropropane	0.00500	0.00512	102	58.0-134	
1,2-Dibromoethane	0.00500	0.00465	93.0	80.0-122	
Dibromomethane	0.00500	0.00442	88.4	80.0-120	
1,2-Dichlorobenzene	0.00500	0.00455	91.0	79.0-121	
1,3-Dichlorobenzene	0.00500	0.00443	88.6	79.0-120	
1,4-Dichlorobenzene	0.00500	0.00525	105	79.0-120	
Dichlorodifluoromethane	0.00500	0.00401	80.2	51.0-149	
1,1-Dichloroethane	0.00500	0.00441	88.2	70.0-126	
1,2-Dichloroethane	0.00500	0.00454	90.8	70.0-128	
1,1-Dichloroethene	0.00500	0.00429	85.8	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00451	90.2	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00412	82.4	73.0-120	
1,2-Dichloropropane	0.00500	0.00429	85.8	77.0-125	
1,1-Dichloropropene	0.00500	0.00448	89.6	74.0-126	
1,3-Dichloropropane	0.00500	0.00464	92.8	80.0-120	
cis-1,3-Dichloropropene	0.00500	0.00497	99.4	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00459	91.8	78.0-124	
2,2-Dichloropropane	0.00500	0.00551	110	58.0-130	
Di-isopropyl ether	0.00500	0.00440	88.0	58.0-138	
Ethylbenzene	0.00500	0.00452	90.4	79.0-123	
Hexachloro-1,3-butadiene	0.00500	0.00459	91.8	54.0-138	
Isopropylbenzene	0.00500	0.00474	94.8	76.0-127	
p-Isopropyltoluene	0.00500	0.00491	98.2	76.0-125	
2-Butanone (MEK)	0.0250	0.0225	90.0	44.0-160	
Methylene Chloride	0.00500	0.00412	82.4	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0231	92.4	68.0-142	
Methyl tert-butyl ether	0.00500	0.00379	75.8	68.0-125	

Laboratory Control Sample (LCS)

(LCS) R3746135-1 12/29/21 09:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.00500	0.00461	92.2	54.0-135	
n-Propylbenzene	0.00500	0.00462	92.4	77.0-124	
Styrene	0.00500	0.00447	89.4	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00459	91.8	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00548	110	65.0-130	
Tetrachloroethene	0.00500	0.00475	95.0	72.0-132	
Toluene	0.00500	0.00468	93.6	79.0-120	
1,2,3-Trichlorobenzene	0.00500	0.00473	94.6	50.0-138	
1,2,4-Trichlorobenzene	0.00500	0.00433	86.6	57.0-137	
1,1,1-Trichloroethane	0.00500	0.00423	84.6	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00459	91.8	80.0-120	
Trichloroethene	0.00500	0.00391	78.2	78.0-124	
Trichlorofluoromethane	0.00500	0.00443	88.6	59.0-147	
1,2,3-Trichloropropane	0.00500	0.00515	103	73.0-130	
1,2,4-Trimethylbenzene	0.00500	0.00448	89.6	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00483	96.6	76.0-122	
Vinyl chloride	0.00500	0.00372	74.4	67.0-131	
Xylenes, Total	0.0150	0.0140	93.3	79.0-123	
(S) Toluene-d8			*100*	*80.0-120*	
(S) 4-Bromofluorobenzene			*91.4*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*93.1*	*70.0-130*	

L1445892-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1445892-11 12/29/21 19:50 • (MS) R3746135-4 12/29/21 20:52 • (MSD) R3746135-5 12/29/21 21:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.250	U	0.240	0.274	96.0	110	10	10.0-160			13.2	35
Benzene	0.0500	0.00347	0.0484	0.0549	89.9	103	10	17.0-158			12.6	27
Bromodichloromethane	0.0500	U	0.0471	0.0536	94.2	107	10	31.0-150			12.9	27
Bromoform	0.0500	U	0.0510	0.0544	102	109	10	29.0-150			6.45	29
Bromomethane	0.0500	U	0.0410	0.0471	82.0	94.2	10	10.0-160			13.8	38
Carbon tetrachloride	0.0500	U	0.0491	0.0535	98.2	107	10	23.0-159			8.58	28
Chlorobenzene	0.0500	0.492	0.594	0.580	204	176	10	33.0-152	V	V	2.39	27
Chlorodibromomethane	0.0500	U	0.0488	0.0558	97.6	112	10	37.0-149			13.4	27
Chloroethane	0.0500	U	0.0393	0.0455	78.6	91.0	10	10.0-160			14.6	30
Chloroform	0.0500	U	0.0473	0.0533	94.6	107	10	29.0-154			11.9	28
Chloromethane	0.0500	U	0.0450	0.0519	90.0	104	10	10.0-160			14.2	29
1,2-Dibromo-3-Chloropropane	0.0500	U	0.0452	0.0577	90.4	115	10	22.0-151			24.3	34

L1445892-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1445892-11 12/29/21 19:50 • (MS) R3746135-4 12/29/21 20:52 • (MSD) R3746135-5 12/29/21 21:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2-Dibromoethane	0.0500	U	0.0469	0.0538	93.8	108	10	34.0-147			13.7	27
Acrolein	0.250	U	0.162	0.295	64.8	118	10	10.0-160		J3	58.2	39
1,2-Dichlorobenzene	0.0500	U	0.0492	0.0561	98.4	112	10	34.0-149			13.1	28
Acrylonitrile	0.250	U	0.228	0.269	91.2	108	10	21.0-160			16.5	32
1,3-Dichlorobenzene	0.0500	0.00175	0.0520	0.0650	101	127	10	36.0-146			22.2	27
1,4-Dichlorobenzene	0.0500	0.00380	0.0586	0.0586	110	110	10	35.0-142			0.000	27
Bromobenzene	0.0500	U	0.0484	0.0530	96.8	106	10	30.0-149			9.07	28
Dichlorodifluoromethane	0.0500	U	0.0438	0.0518	87.6	104	10	10.0-160			16.7	29
1,1-Dichloroethane	0.0500	U	0.0469	0.0538	93.8	108	10	25.0-158			13.7	27
1,2-Dichloroethane	0.0500	U	0.0468	0.0555	93.6	111	10	29.0-151			17.0	27
1,1-Dichloroethene	0.0500	U	0.0466	0.0568	93.2	114	10	11.0-160			19.7	29
n-Butylbenzene	0.0500	U	0.0536	0.0586	107	117	10	31.0-150			8.91	30
cis-1,2-Dichloroethene	0.0500	U	0.0470	0.0552	94.0	110	10	10.0-160			16.0	27
sec-Butylbenzene	0.0500	U	0.0553	0.0598	111	120	10	33.0-155			7.82	29
tert-Butylbenzene	0.0500	U	0.0522	0.0588	104	118	10	34.0-153			11.9	28
trans-1,2-Dichloroethene	0.0500	U	0.0444	0.0540	88.8	108	10	17.0-153			19.5	27
1,2-Dichloropropane	0.0500	U	0.0481	0.0532	96.2	106	10	30.0-156			10.1	27
cis-1,3-Dichloropropene	0.0500	U	0.0447	0.0524	89.4	105	10	34.0-149			15.9	28
trans-1,3-Dichloropropene	0.0500	U	0.0476	0.0535	95.2	107	10	32.0-149			11.7	28
Ethylbenzene	0.0500	U	0.0517	0.0568	103	114	10	30.0-155			9.40	27
2-Chlorotoluene	0.0500	U	0.0516	0.0579	103	116	10	32.0-153			11.5	28
4-Chlorotoluene	0.0500	U	0.0515	0.0574	103	115	10	32.0-150			10.8	28
Dibromomethane	0.0500	U	0.0451	0.0524	90.2	105	10	30.0-151			15.0	27
Isopropylbenzene	0.0500	U	0.0515	0.0566	103	113	10	28.0-157			9.44	27
2-Butanone (MEK)	0.250	U	0.223	0.260	89.2	104	10	10.0-160			15.3	32
Methylene Chloride	0.0500	U	0.0414	0.0514	82.8	103	10	23.0-144			21.6	28
4-Methyl-2-pentanone (MIBK)	0.250	U	0.247	0.273	98.8	109	10	29.0-160			10.0	29
Methyl tert-butyl ether	0.0500	U	0.0368	0.0421	73.6	84.2	10	28.0-150			13.4	29
1,1-Dichloropropene	0.0500	U	0.0489	0.0593	97.8	119	10	25.0-158			19.2	27
1,3-Dichloropropane	0.0500	U	0.0529	0.0543	106	109	10	38.0-147			2.61	27
Styrene	0.0500	U	0.0498	0.0565	99.6	113	10	33.0-155			12.6	28
1,1,2,2-Tetrachloroethane	0.0500	U	0.0569	0.0641	114	128	10	33.0-150			11.9	28
2,2-Dichloropropane	0.0500	U	0.0586	0.0640	117	128	10	24.0-152			8.81	29
Tetrachloroethene	0.0500	U	0.0547	0.0617	109	123	10	10.0-160			12.0	27
Di-isopropyl ether	0.0500	U	0.0459	0.0532	91.8	106	10	21.0-160			14.7	28
Toluene	0.0500	U	0.0535	0.0585	107	117	10	26.0-154			8.93	28
1,2,4-Trichlorobenzene	0.0500	U	0.0452	0.0571	90.4	114	10	24.0-150			23.3	33
Hexachloro-1,3-butadiene	0.0500	U	0.0545	0.0600	109	120	10	20.0-154			9.61	34
1,1,1-Trichloroethane	0.0500	U	0.0449	0.0531	89.8	106	10	23.0-160			16.7	28
1,1,2-Trichloroethane	0.0500	U	0.0494	0.0581	98.8	116	10	35.0-147			16.2	27

L1445892-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1445892-11 12/29/21 19:50 • (MS) R3746135-4 12/29/21 20:52 • (MSD) R3746135-5 12/29/21 21:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Trichloroethene	0.0500	U	0.0430	0.0514	86.0	103	10	10.0-160			17.8	25
Trichlorofluoromethane	0.0500	U	0.0548	0.0613	110	123	10	17.0-160			11.2	31
p-Isopropyltoluene	0.0500	U	0.0535	0.0590	107	118	10	30.0-154			9.78	29
Vinyl chloride	0.0500	U	0.0424	0.0500	84.8	100	10	10.0-160			16.5	27
Xylenes, Total	0.150	U	0.156	0.171	104	114	10	29.0-154			9.17	28
Naphthalene	0.0500	U	0.0497	0.0556	99.4	111	10	12.0-156			11.2	35
n-Propylbenzene	0.0500	U	0.0528	0.0580	106	116	10	31.0-154			9.39	28
1,1,1,2-Tetrachloroethane	0.0500	U	0.0463	0.0534	92.6	107	10	36.0-151			14.2	29
1,2,3-Trichlorobenzene	0.0500	U	0.0449	0.0553	89.8	111	10	17.0-150			20.8	36
1,2,3-Trichloropropane	0.0500	U	0.0551	0.0566	110	113	10	34.0-151			2.69	29
1,2,4-Trimethylbenzene	0.0500	U	0.0511	0.0576	102	115	10	26.0-154			12.0	27
1,3,5-Trimethylbenzene	0.0500	U	0.0520	0.0614	104	123	10	28.0-153			16.6	27
(S) Toluene-d8					*99.8*	*98.1*		*80.0-120*				
(S) 4-Bromofluorobenzene					*99.9*	*95.8*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*92.5*	*90.6*		*70.0-130*				

Method Blank (MB)

(MB) R3746440-3 12/29/21 20:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromobenzene	U		0.000118	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
2-Chlorotoluene	U		0.000106	0.00100
4-Chlorotoluene	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
1,2-Dibromoethane	U		0.000126	0.00100
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
2,2-Dichloropropane	U		0.000161	0.00100
Di-isopropyl ether	U		0.000105	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000490	0.00100

Method Blank (MB)

(MB) R3746440-3 12/29/21 20:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*94.2*			*80.0-120*
(S) 4-Bromofluorobenzene	*101*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3746440-1 12/29/21 19:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0261	104	19.0-160	
Acrolein	0.0250	0.00888	35.5	10.0-160	
Acrylonitrile	0.0250	0.0239	95.6	55.0-149	
Benzene	0.00500	0.00437	87.4	70.0-123	
Bromobenzene	0.00500	0.00403	80.6	73.0-121	
Bromodichloromethane	0.00500	0.00494	98.8	75.0-120	

Laboratory Control Sample (LCS)

(LCS) R3746440-1 12/29/21 19:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.00500	0.00445	89.0	68.0-132	
Bromomethane	0.00500	0.00427	85.4	10.0-160	
n-Butylbenzene	0.00500	0.00445	89.0	73.0-125	
sec-Butylbenzene	0.00500	0.00397	79.4	75.0-125	
tert-Butylbenzene	0.00500	0.00394	78.8	76.0-124	
Carbon tetrachloride	0.00500	0.00458	91.6	68.0-126	
Chlorobenzene	0.00500	0.00405	81.0	80.0-121	
Chlorodibromomethane	0.00500	0.00413	82.6	77.0-125	
Chloroethane	0.00500	0.00414	82.8	47.0-150	
Chloroform	0.00500	0.00479	95.8	73.0-120	
Chloromethane	0.00500	0.00502	100	41.0-142	
2-Chlorotoluene	0.00500	0.00417	83.4	76.0-123	
4-Chlorotoluene	0.00500	0.00412	82.4	75.0-122	
1,2-Dibromo-3-Chloropropane	0.00500	0.00400	80.0	58.0-134	
1,2-Dibromoethane	0.00500	0.00407	81.4	80.0-122	
Dibromomethane	0.00500	0.00484	96.8	80.0-120	
1,2-Dichlorobenzene	0.00500	0.00391	78.2	79.0-121	J4
1,3-Dichlorobenzene	0.00500	0.00398	79.6	79.0-120	
1,4-Dichlorobenzene	0.00500	0.00408	81.6	79.0-120	
Dichlorodifluoromethane	0.00500	0.00439	87.8	51.0-149	
1,1-Dichloroethane	0.00500	0.00449	89.8	70.0-126	
1,2-Dichloroethane	0.00500	0.00461	92.2	70.0-128	
1,1-Dichloroethene	0.00500	0.00430	86.0	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00466	93.2	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00444	88.8	73.0-120	
1,2-Dichloropropane	0.00500	0.00434	86.8	77.0-125	
1,1-Dichloropropene	0.00500	0.00458	91.6	74.0-126	
1,3-Dichloropropane	0.00500	0.00434	86.8	80.0-120	
cis-1,3-Dichloropropene	0.00500	0.00468	93.6	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00419	83.8	78.0-124	
2,2-Dichloropropane	0.00500	0.00502	100	58.0-130	
Di-isopropyl ether	0.00500	0.00522	104	58.0-138	
Ethylbenzene	0.00500	0.00395	79.0	79.0-123	
Hexachloro-1,3-butadiene	0.00500	0.00421	84.2	54.0-138	
Isopropylbenzene	0.00500	0.00409	81.8	76.0-127	
p-Isopropyltoluene	0.00500	0.00408	81.6	76.0-125	
2-Butanone (MEK)	0.0250	0.0262	105	44.0-160	
Methylene Chloride	0.00500	0.00434	86.8	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0271	108	68.0-142	
Methyl tert-butyl ether	0.00500	0.00473	94.6	68.0-125	

Laboratory Control Sample (LCS)

(LCS) R3746440-1 12/29/21 19:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.00500	0.00404	80.8	54.0-135	
n-Propylbenzene	0.00500	0.00404	80.8	77.0-124	
Styrene	0.00500	0.00400	80.0	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00417	83.4	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00407	81.4	65.0-130	
Tetrachloroethene	0.00500	0.00413	82.6	72.0-132	
Toluene	0.00500	0.00402	80.4	79.0-120	
1,2,3-Trichlorobenzene	0.00500	0.00412	82.4	50.0-138	
1,2,4-Trichlorobenzene	0.00500	0.00396	79.2	57.0-137	
1,1,1-Trichloroethane	0.00500	0.00485	97.0	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00430	86.0	80.0-120	
Trichloroethene	0.00500	0.00434	86.8	78.0-124	
Trichlorofluoromethane	0.00500	0.00483	96.6	59.0-147	
1,2,3-Trichloropropane	0.00500	0.00405	81.0	73.0-130	
1,2,4-Trimethylbenzene	0.00500	0.00407	81.4	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00406	81.2	76.0-122	
Vinyl chloride	0.00500	0.00381	76.2	67.0-131	
Xylenes, Total	0.0150	0.0121	80.7	79.0-123	
(S) Toluene-d8			*93.0*	*80.0-120*	
(S) 4-Bromofluorobenzene			*104*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*110*	*70.0-130*	

Method Blank (MB)

(MB) R3746510-3 12/30/21 13:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chlorobenzene	U		0.000116	0.00100
(S) Toluene-d8	*105*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*93.1*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3746510-1 12/30/21 12:05 • (LCSD) R3746510-2 12/30/21 12:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chlorobenzene	0.00500	0.00514	0.00523	103	105	80.0-121			1.74	20
(S) Toluene-d8				*97.7*	*99.2*	*80.0-120*				
(S) 4-Bromofluorobenzene				*96.8*	*99.3*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*92.3*	*96.8*	*70.0-130*				

Method Blank (MB)

(MB) R3746502-3 12/30/21 11:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Naphthalene	U		0.00100	0.00500
(S) Toluene-d8	*95.1*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.2*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*84.8*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3746502-1 12/30/21 10:27 • (LCSD) R3746502-2 12/30/21 10:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00575	0.00608	115	122	70.0-123			5.58	20
Naphthalene	0.00500	0.00440	0.00463	88.0	92.6	54.0-135			5.09	20
(S) Toluene-d8				*96.0*	*94.9*	*80.0-120*				
(S) 4-Bromofluorobenzene				*97.6*	*98.3*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*83.9*	*81.4*	*70.0-130*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3746911-1 12/30/21 10:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
C10-C28 Diesel Range	U		0.0222	0.100
C28-C36 Motor Oil Range	U		0.0118	0.100
(S) o-Terphenyl	*103*			*52.0-156*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3746911-2 12/30/21 10:55 • (LCSD) R3746911-3 12/30/21 11:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	1.50	1.61	1.64	107	109	50.0-150			1.85	20
(S) o-Terphenyl				*120*	*121*	*52.0-156*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Apex - Midland, TX

505 N. Big Spring Street
Suite 301A
Midland. TX 79701

Billing Information:
Accounts Payable
505 N. Big Spring Street
Suite 301A
Midland, TX 79701

Pres Chk

Report to: **John Faught**

Email To: john.faught@apexcos.com;aaron.sides@apexco

Project Description: **Lea, County**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **432-559-9820**

Client Project # **CEN21-004** (Brahaney South)

Lab Project # **APEXMTX-CEN21004**

Collected by (print): John Faught

Site/Facility ID #

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day X 10 Day (Rad Only)
___ Three Day

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 125mlHDPE-NoPres	DRONMLVI 40mlAmb-HCl-BT	GRO 40mlAmb HCl	V8260 40mlAmb-HCl	TDS & Sulfates 300					Remarks	Sample # (lab only)
mw-1	G	GW		12/27/21	0835	8	X	X	X	X	X						-01
mw-2	G	GW		12/27/21	0955	8	X	X	X	X	X						-02
Trip Blank	-	GW		12/27/21		1				X							-03
		GW															
		GW															
		GW															
		GW															
		GW															
		GW															
		GW															

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace Analytical®

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1446285

Table J138

Acctnum: APEXMTX
Template: T200908
Prelogin: P893879
PM: 823 - Olivia Studebaker
PB:
Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Times are listed as Mountain Standard Time

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/Hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	12/20/21	1330	Kendell Rumple
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 1.2 °C 2.2 2.2 Bottles Received: 72

If preservation required by Login: Date/Time

Date: 12/27/21 Time: 0800

Hold:

Condition: NCF / OK

Company Name/Address:
Apex - Midland, TX

505 N. Big Spring Street
Suite 301A
Midland. TX 79701

Billing Information:
Accounts Payable
505 N. Big Spring Street
Suite 301A
Midland, TX 79701

Pres Chk

Report to: **John Faught**

Email To: john.faught@apexcos.com;aaron.sides@apexco

Project Description: **Lea, County**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **432-559-9820**

Client Project # **CEN21-004**

Lab Project # **APEXMTX-CEN21004**

Collected by (print): John Faught

Site/Facility ID # Brahaney IRP-2794 North

P.O. # CEN21-004

Collected by (signature):

Immediately Packed on Ice N___ Y___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day X 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 125mlHDPE-NoPres	DRONMLVI 40mlAmb-HCl-BT	GRO 40mlAmb HCl	V8260 40mlAmb-HCl	TDS / Sulfates 300	Remarks	Sample # (lab only)
mw-5	G	GW		12/27/21	1110	8	X	X	X	X	X	-04	-04
mw-3	G	GW		12/27/21	1225	8	X	X	X	X	X	-05	-05
FB-01	G	GW		12/27/21	1531	8	X	X	X	X	X	-06	-06
mw-4	G	GW		12/27/21	1545	8	X	X	X	X	X	-07	-07
mw-6	G	GW		12/27/21	1700	8	X	X	X	X	X	-08	-08
EB-01	G	GW		12/27/21	1800	8	X	X	X	X	X	-09	-09
Dup-01	G	GW		12/27/21		8	X	X	X	X	X	-10	-10

NFE

JF

Chain of Custody Page 2 of 2

Pace Analytical®

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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1446785

Table #

Acctnum: APEXMTX

Template: T200908

Prelogin: P893879

PM: 823 - Olivia Studebaker

PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Times are listed on Mountain Standard time.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	12/20/21	1330	Kendell Stumpkin
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No HCl / MeoH TBR

Temp: 1.2/1.1°C 2.2/2.2 Bottles Received: 72

Date: 12/21/21 Time: 0800

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 103519

CONDITIONS

Operator: CENTURION PIPELINE L.P. 516 Veterans Airpark Lane Midland, TX 79705	OGRID: 237722
	Action Number: 103519
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the Brahaney Release Site for the 2021 Groundwater Monitoring Report: Content Satisfactory 1. Continue to conduct groundwater monitoring on a quarterly basis for COCs. 2. Submit the 2024 Annual Report by April 1, 2025. 3. Report trends and plume stability to OCD with recommendations on next phase for remediation.	6/13/2024