## 2022 Annual Groundwater Monitoring Report

### REVIEWED

By Mike Buchanan at 8:35 am, May 18, 2023

Review for the 2022 Annual Groundwater Monitoring Report: Content Satisfactory

- Continue to conduct monthly recovery for hydrocarbon impacted groundwater in MW-1 and MW-5.
- Monitor wells MW-1 through MW-8 shall be monitored and sampled quarterly for BTEX with MW-1 sampled annually for PAH.
- Continue recovery by SVE
   and monthly emission sampling
  for MW-1
- Submit the 2023 Annual Monitoring Report by April 1, 2024.

## Plains All American Pipeline, LP DCP Plant to Lea Station 6-Inch #2

Lea County, New Mexico
Unit Letter "F", Section 31, Township 20 South, Range 37 East
Latitude 32.5316667 North, Longitude 103.2911111 West
Plains SRS #: 2009-039
NMOCD Reference #: 1RP-2136
NMOCD Incident ID #: nAPP2109730917

Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave., Ste. D Lubbock, TX 79413

Ben J. Arguijo

Joel W Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

### TABLE OF CONTENTS

1
1
3
3
3
4
4
7
8
9
10

### **FIGURES**

### Figure 1 – Site Location Map

- Figure 2A Inferred Groundwater Gradient Map 1Q2022
- Figure 2B Inferred Groundwater Gradient Map 2Q2022
- Figure 2C Inferred Groundwater Gradient Map 3Q2022
- Figure 2D Inferred Groundwater Gradient Map 4Q2022
- Figure 3A Groundwater Concentration Map 1Q2022
- Figure 3B Groundwater Concentration Map 2Q2022
- Figure 3C Groundwater Concentration Map 3Q2022
- Figure 3D Groundwater Concentration Map 4Q2022

### **TABLES**

- Table 1 Groundwater Elevation & PSH Thickness Summary
- Table 2 Groundwater BTEX Concentration Analytical Summary
- Table 3 Air Emission Analytical Summary BTEX & TPH
- Table 4 MW-1 SVE System Operation & PSH Thickness & Recovery Summary
- Table 5 MW-5 Gauging & BTEX Impacted Groundwater Recovery Summary
- Table 6 Concentrations of PAH in Groundwater Summary

### **APPENDICES**

Appendix A – Laboratory Analytical Reports

### 1.0 INTRODUCTION & SITE DESCRIPTION

Etech Environmental & Safety Solutions (Etech), on behalf of Plains All American Pipeline, LP (Plains), has prepared this 2022 Annual Groundwater Monitoring Report for the DCP Plant to Lea Station 6" #2 Release Site in accordance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1st of each year.

The legal description of the DCP Plant to Lea Station 6" #2 Release Site is Unit Letter "F" (SE/NW), Section 31, Township 20 South, Range 37 East, in Lea County, New Mexico. The property affected by the release is owned by the State of New Mexico and administered by the New Mexico State Land Office (NMSLO). The geographic coordinates of the Release Site are 32.5316667° North latitude and 103.2911111° West longitude. A "Site Location Map" is provided as Figure 1.

### 2.0 BACKGROUND INFORMATION

On February 12, 2009, Plains discovered a crude oil release from a six-inch (6") steel pipeline. During initial response activities, Plains installed a temporary clamp on the pipeline to mitigate the release. Approximately 25 barrels (bbls) of crude oil was released from the pipeline, resulting in a surface stain measuring approximately 10 feet (ft.) in width and 12 ft. in length. Plains notified the NMOCD Hobbs District Office of the release, and a "Release Notification and Corrective Action" (Form C-141) was submitted. The cause of the release was attributed to external corrosion of the pipeline.

On February 17, 2009, following initial response activities, excavation of hydrocarbon-impacted soil began at the Site. Excavated soil was stockpiled on-site on a plastic liner to mitigate the potential leaching of contaminants into the vadose zone. Approximately 2,700 cubic yards (yd³) of soil was stockpiled on-site during excavation activities. The final dimensions of the excavation were approximately 66 ft. in width, approximately 80 ft. in length, and approximately 15 ft. in depth. Upon completion of the excavation activities, confirmation soil samples were collected from the excavation and stockpiles. Review of laboratory analytical results indicated soil samples collected from the excavation and stockpiles exhibited concentrations less than NMOCD regulatory standards.

On April 15, 2009, a soil boring (SB-1) was advanced at the Release Site to evaluate the vertical extent of soil impact. During the advancement of the soil boring, groundwater was encountered at approximately 76 ft. below ground surface (bgs). A temporary casing was installed in the soil boring to allow a groundwater sample to be collected for analysis. During the collection of the groundwater sample, a measurable thickness of PSH was observed on the groundwater. Plains immediately notified NMOCD representatives in the Hobbs District Office and the NMOCD Environmental Bureau (Santa Fe) of the impact to groundwater at the Release Site. On April 16, 2009, soil boring SB-1 was converted to 4-inch monitor well (MW-1).

On June 29, 2009, three (3) additional monitor wells (MW-2, MW-3, and MW-4) were installed to evaluate the status of the groundwater at the Site. Monitor well MW-2 is located approximately

135 ft. to the northwest (up-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 90 ft. bgs. Monitor well MW-3 is located approximately 80 ft. to the southwest (cross-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 90 ft. bgs. Monitor well MW-4 is located approximately 115 ft. to the southeast (down-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 88 ft. bgs. Subsequent gauging determined that PSH was not present in monitor wells MW-2, MW-3, or MW-4.

On August 25, 2009, a 20-mil polyurethane liner was installed on the floor of the excavation. Monitor well MW-1, located within the excavation, was extended to the top of the excavation using a 4-inch diameter PVC riser. The riser was fitted with a 40-mil boot, which was chemically welded to the 20-mil liner to ensure impermeability of the liner. The liner was cushioned by a 6-inch layer of sand installed above and below the liner to protect the liner from damage during backfilling. The excavation was backfilled with the stockpiled soil and compacted in 12-inch lifts. The disturbed areas were contoured to fit the surrounding topography and seeded with an NMSLO-approved seeding mixture. Supplemental seeding occurred on October 12, 2010.

On January 24, 2011, one (1) additional monitor well (MW-5) was installed to further monitor the down-gradient migration of the PSH plume. Monitor well MW-5 is located approximately 50 ft. to the southeast (down-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 95 ft. bgs. PSH was not detected in monitor well MW-5. Laboratory analytical results of soil samples collected during the installation of monitor well MW-5 indicated benzene, BTEX, and TPH concentrations were less than NMOCD regulatory standards in all submitted soil samples.

On September 10, 2013, two (2) additional monitor wells (MW-6 and MW-7) were installed to further monitor the down-gradient migration of the dissolved-phase plume and to delineate the horizontal extent of PSH. Monitor well MW-6 is located approximately 125 ft. to the east-southeast (cross-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 95 ft. bgs. Monitor well MW-7 is located approximately 175 ft. to the southeast (down-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 100 ft. bgs. Laboratory analytical results of soil samples collected during the installation of monitor wells MW-6 and MW-7 indicated benzene, BTEX, and TPH concentrations were less than NMOCD regulatory standards in all submitted soil samples. PSH was not detected in monitor wells MW-6 or MW-7.

On August 18, 2020, one (1) additional monitor well (MW-8) was installed pursuant to the Work Plan dated November 25th, 2019. Monitor well MW-8 is located approximately 125 ft. to the south (cross-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 100 ft. bgs.

In February 2023, Etech, at the request of Plains, assumed project management and oversight responsibilities for groundwater remediation activities at the DCP Plant to Lea Station 6-Inch #2 Site.

Currently, a total of eight (8) monitor wells are located at the DCP Plant to Lea Station 6-Inch #2 Release Site. Monitor wells MW-2 through MW-8 are gauged and sampled on a quarterly schedule, while monitor well MW-1 is gauged monthly but not sampled due to the presence of PSH.

### 3.0 FIELD ACTIVITIES

### 3.1 Product Recovery

A measurable thickness of PSH was detected in monitor well MW-1 during the initial site investigation. Manual recovery of PSH from MW-1 commenced in April 2009, and approximately 6,225 gallons (148.2 barrels) of PSH has been recovered since that time. Approximately 45 gallons of hydrocarbon-impacted groundwater and less than one (1) gallon (approximately 0.9 fluid ounces) of PSH were recovered from monitor well MW-1 during the 2022 reporting period. The maximum PSH thickness measured in monitor well MW-1 during the reporting period was 0.01 feet on May 19, 2022. No measurable thickness of PSH was detected in subsequent monthly recovery events. Groundwater gauging and PSH recovery data for monitor well MW-1 is summarized in Table 4.

All recovered fluids were disposed of at an NMOCD-approved disposal facility.

On July 18, 2012, a Mobile Dual-Phase Extraction (MDPE) unit was installed on monitor well MW-1 by Talon LPE. The MDPE unit was shared with the nearby Release Site known as DCP Plant to Lea Station 6-Inch Sec. 31 (NMOCD Incident ID # nAPP2109730917), and the location of the unit was alternated quarterly. As of July 2017, an estimated 7,901 equivalent gallons (188 bbls) of PSH had been recovered from monitor well MW-1 by MDPE.

On July 19, 2017, the MDPE unit was replaced with a Soil Vapor Extraction (SVE) unit which was permanently installed on monitor well MW-1. Since August 2017, monthly emissions samples were collected to ensure compliance with New Mexico Environment Department (NMED) Air Quality Bureau (AQB) Action Levels. Effluent air samples are collected from the exhaust port of the SVE system during each monthly recovery event. Emission mass calculations resulted in a slight decrease in average emissions of TPH from 8.034 tons/year in 2021 to 5.74 tons/year in 2022. Average emission volume also decreased from 7.433 gal/day in 2021 to 5.31 gal/day in 2022. Effluent air samples were below the AQB criteria of 10 tons of TPH per year throughout the 2022 reporting period. Laboratory analytical results for effluent air samples are summarized in Table 3.

### 3.2 Groundwater Recovery

Manual recovery of hydrocarbon impacted groundwater from monitor well MW-5 commenced on January 22, 2016. Approximately 45 gallons (1.07 bbls) of impacted groundwater was recovered from monitor well MW-5 during the 2022 reporting period. Approximately 2,482 gallons (59.1 bbls) of impacted groundwater was recovered since 2016. Groundwater gauging and PSH recovery data for monitor well MW-5 is summarized in Table 5.

All recovered fluids were disposed of at an NMOCD-approved disposal facility.

### 3.3 Groundwater Monitoring

The on-site monitor wells were gauged and sampled by a previous environmental contractor on March 14 (1Q2022), June 14 (2Q2022), and September 7 (3Q2022). Due to a change in project management and oversight, no groundwater sampling was conducted during the fourth (4<sup>th</sup>) quarter of 2022. Etech assumed oversight responsibilities for the Site in February 2023 and conducted a groundwater monitoring event (4Q2022) on February 9, 2023 (the earliest available opportunity) in order to assess the levels and extent of PSH and dissolved-phase constituents in the groundwater at the Site. Monitor well MW-6 was not able to be sampled during the February 9, 2023, sampling event. The monitor well was sampled during a subsequent site visit on February 17, 2023. The groundwater monitoring events consisted of measuring static water levels in the on-site monitor wells (MW-1 through MW-8), checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. Purged water was placed into a polystyrene aboveground storage tank (AST) and disposed of at an NMOCD-approved disposal facility.

Groundwater samples were collected utilizing low-flow sampling equipment, including a bladder pump and multi-parameter meter. Prior to sample collection, readings on the multi-parameter meter were recorded for a minimum of four (4) cycles of five (5) minutes each. Each groundwater sample collected was placed in laboratory-supplied containers appropriate to the analysis requested and placed on ice in a cooler.

An annual monitoring event for polycyclic aromatic hydrocarbons (PAH) was conducted on March 14, 2022. Based on sampling criteria provided by the NMOCD, monitor wells MW-2 and MW-8 were subject to annual PAH monitoring. PAH sampling requirements for the monitor wells had been met in years prior. However, all on-site monitor wells sampled during the 4<sup>th</sup> quarter of 2020 were inadvertently analyzed for PAH. The resulting analyses indicated that none of the monitor wells sampled during the 4<sup>th</sup> quarter of 2020 exceeded PAH Action Levels established by Section 20.6.2.3103 of the New Mexico Administrative Code (NMAC). In an effort to adhere to the requirement for two (2) consecutive years of PAH concentrations below action levels set forth by the NMOCD, monitor wells MW-2 through MW-8 were sampled during the first quarter of 2022 (1Q2022). A summary of PAH analyses is provided as Table 6.

Locations of the groundwater monitor wells and the inferred groundwater elevations, which were constructed from measurements collected during the 2022 quarterly sampling events, are depicted in Figures 2A through 2D. With the exception of the gradient map from the 3Q2022 monitoring event, the maps indicate a general groundwater gradient of approximately 0.002 feet/foot to the south-southeast as measured between monitor wells MW-2 and MW-7. Groundwater elevation and PSH thickness data is summarized in Table 1.

### 4.0 LABORATORY RESULTS

Groundwater samples collected from the on-site monitor wells during the quarterly and annual monitoring events were delivered to Eurofins Environment Testing South Central, LLC, in Midland, Texas, for determination of chloride, BTEX, and/or PAH constituent concentrations by

Environmental Protection Agency (EPA) Methods 300, SW846-8021b, and SW846 8270C, respectively. A summary of laboratory analytical results is presented in Table 2. A summary of PAH constituent concentrations is provided in Table 6. "Groundwater Concentration" maps are provided as Figures 3A through 3D. Laboratory analytical reports are provided as Appendix A.

Laboratory analytical results were compared to NMOCD regulatory limits based on the New Mexico groundwater standards found in Section 20.6.2.3103 of the New Mexico Administrative Code (NMAC).

### Monitor well MW-1

Monitor well MW-1 was not sampled during 1Q2022 due to the presence of PSH. The monitor well was inadvertently not sampled in 2Q2022. Quarterly groundwater sampling commenced in 3Q2022. Laboratory analytical results indicated benzene concentrations ranged from 0.0234 mg/L in 3Q2022 to 0.18 mg/L in 4Q2022. Toluene concentrations ranged from less than the appropriate laboratory method detection limit (MDL) in 3Q2022 to 0.0176 mg/L in 4Q2022. Ethylbenzene concentrations ranged from 0.000453 mg/L in 3Q2022 to 0.0778 mg/L in 4Q2022. Total xylene concentrations ranged from 0.00194 mg/L in 3Q2022 to 0.18 mg/L in 4Q2022.

Benzene concentrations exceeded the NMOCD regulatory standard of 0.01 mg/L in 3Q2022 and 4Q2022. Toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards in all submitted samples.

PAH constituent concentrations in the groundwater sample collected in 4Q2022 were less than New Mexico Water Quality Control Commission (NMWQCC) Drinking Water Standards.

### Monitor well MW-2

Laboratory analytical results indicated benzene, ethylbenzene, and total xylene concentrations were both less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples. Toluene concentrations ranged from less than the appropriate laboratory MDL in 1Q2022 and 3Q2022 to 0.000752 mg/L in 2Q2022. Toluene concentrations were less than NMOCD regulatory standards in all submitted samples.

PAH constituent concentrations in the annual groundwater sample were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

### **Monitor well MW-3**

Laboratory analytical results indicated benzene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples. Toluene concentrations ranged from less than the laboratory MDL in 1Q2022 and 3Q2022 to 0.000673 mg/L in 2Q2022. Toluene concentrations were less than NMOCD regulatory standards in all submitted groundwater samples.

PAH constituent concentrations in the annual groundwater sample were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

### **Monitor well MW-4**

Laboratory analytical results indicated benzene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples. Toluene concentrations ranged from less than the appropriate laboratory MDL in 3Q2022 and 4Q2022 to 0.000383 mg/L in 2Q2022. Toluene concentrations were less than NMOCD regulatory standards in all submitted groundwater samples.

PAH constituent concentrations in the annual groundwater sample were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

### Monitor well MW-5

Laboratory analytical results indicated benzene concentrations ranged from 0.00177 mg/L in 3Q2022 to 0.622 mg/L in 2Q2022. Toluene concentrations ranged from less than the appropriate laboratory MDL in 1Q2022, 3Q2022, and 4Q2022 to 0.00171 mg/L in 2Q2022. Ethylbenzene concentrations ranged from less than the appropriate laboratory MDL in 3Q2022 to 0.0577 mg/L in 2Q2022. Total xylene concentrations ranged from less than the appropriate laboratory MDL in 1Q2022, 3Q2022, and 4Q2022 to 0.0389 mg/L in 2Q2022.

Benzene concentrations exceeded the NMOCD regulatory standard of 0.01 mg/L in 2Q2022. Toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards in all submitted samples.

PAH constituent concentrations in the annual groundwater sample were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

### Monitor well MW-6

Laboratory analytical results indicated benzene concentrations ranged from less than the appropriate laboratory MDL in 1Q2022, 3Q2022, and 4Q2022 to 0.000537 mg/L in 2Q2022. Toluene concentrations ranged from less than the appropriate laboratory MDL in 3Q2022 and 4Q2022 to 0.000706 mg/L in 2Q2022. Ethylbenzene and total xylene concentrations were less than the appropriate laboratory MDL in all submitted groundwater samples.

BTEX constituent concentrations were less than NMOCD regulatory standards in all submitted samples.

PAH constituent concentrations in the annual groundwater sample were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

### Monitor well MW-7

Laboratory analytical results indicated benzene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples. Toluene concentrations ranged from less than the appropriate laboratory MDL in 3Q2022 and 4Q2022 to 0.000674 mg/L in 1Q2022. Toluene concentrations were less than NMOCD regulatory standards in all submitted groundwater samples.

PAH constituent concentrations in the annual groundwater sample were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

### **Monitor Well MW-8**

Laboratory analytical results indicated benzene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples. Toluene concentrations ranged from less than the appropriate laboratory MDL in 2Q2022, 3Q2022, and 4Q2022 to 0.000393 mg/L in 1Q2022. Toluene concentrations were less than NMOCD regulatory standards in all submitted groundwater samples.

PAH constituent concentrations in the annual groundwater sample were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

### 5.0 SUMMARY

This report presents the results of groundwater monitoring activities for the 2022 annual monitoring period. Currently, there are eight (8) groundwater monitor wells (MW-1 through MW-8) on-site. Monitor well MW-1 was not sampled in 1Q2022 due to the presence of PSH in the well, and the monitor well was inadvertently not sampled in 2Q2022. Quarterly sampling of monitor well MW-1 commenced in 3Q2022. Monitor wells MW-2 through MW-8 were gauged and sampled during all four quarters of the monitoring period. The results of these sampling events are summarized above.

Groundwater gauging data collected during the monitoring period indicates a general gradient of approximately 0.002 feet/foot to the south-southeast as measured between monitor wells MW-2 and MW-7.

During the reporting period, approximately 45 gallons of hydrocarbon-impacted groundwater and less than one gallon (approximately 0.9 fluid ounces) of PSH were recovered, by manual recovery, from monitor well MW-1. Approximately 6,225 gallons (148.2 barrels) of PSH has been recovered since manual recovery commenced in April 2009. The maximum PSH thickness measured in MW-1 during the reporting period was 0.01 feet on May 19, 2022. No measurable thickness of PSH was detected in subsequent monthly recovery events. Quarterly groundwater sampling of the well commenced in 3Q2022.

Approximately 45 gallons (1.07 bbls) of impacted groundwater was recovered from monitor well MW-5 during the 2022 reporting period. Approximately 2,482 gallons (59.1 bbls) of impacted groundwater has been recovered since recovery commenced in 2016.

Effluent air samples are collected from the exhaust port of the SVE system during each monthly recovery event. Emission mass calculations resulted in a slight decrease in average emissions of TPH from 8.034 tons/year in 2021 to 5.74 tons/year in 2022. The average emission volume decreased from 7.433 gal/day in 2021 to 5.31 gal/day in 2022. Effluent air samples were below the AQB criteria of 10 tons of TPH per year throughout the 2022 reporting period.

Review of laboratory analytical results from groundwater samples collected during the reporting period indicated benzene concentrations exceeded the NMOCD regulatory standard of 0.01 mg/L in monitor wells MW-1 (3Q2022 and 4Q2022) and MW-5 (2Q2022). Toluene, ethylbenzene, and total xylene, concentrations were less than NMOCD regulatory standards in all submitted groundwater samples. PAH constituent concentrations were less than NMWQCC Drinking Water Standards in each of the annual samples collected from monitor wells MW-1 through MW-8.

### 6.0 ANTICIPATED ACTIONS

Monitor wells MW-1 through MW-8 will be monitored and sampled quarterly for BTEX. Monitor well MW-1 will be sampled annually for PAH. Results of the 2023 sampling events will be reported in the 2023 Annual Monitoring Report, which will be submitted to the NMOCD by April 1, 2024.

PAH sampling requirements have been met for monitor wells MW-2 through MW-8. No additional PAH sampling will be conducted from the wells.

Monthly recovery of hydrocarbon-impacted groundwater will continue from monitor wells MW-1 and MW-5 in an effort to control the down-gradient migration of the dissolved-phase plume.

Recovery by SVE and monthly emission sampling will continue from monitor well MW-1.

### 7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this 2022 Annual Groundwater Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains All American Pipeline, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Plains All American Pipeline, LP.

### 8.0 DISTRIBUTION

**Plains All American Pipeline, LP** 1106 Griffith Drive Midland, Texas 79706

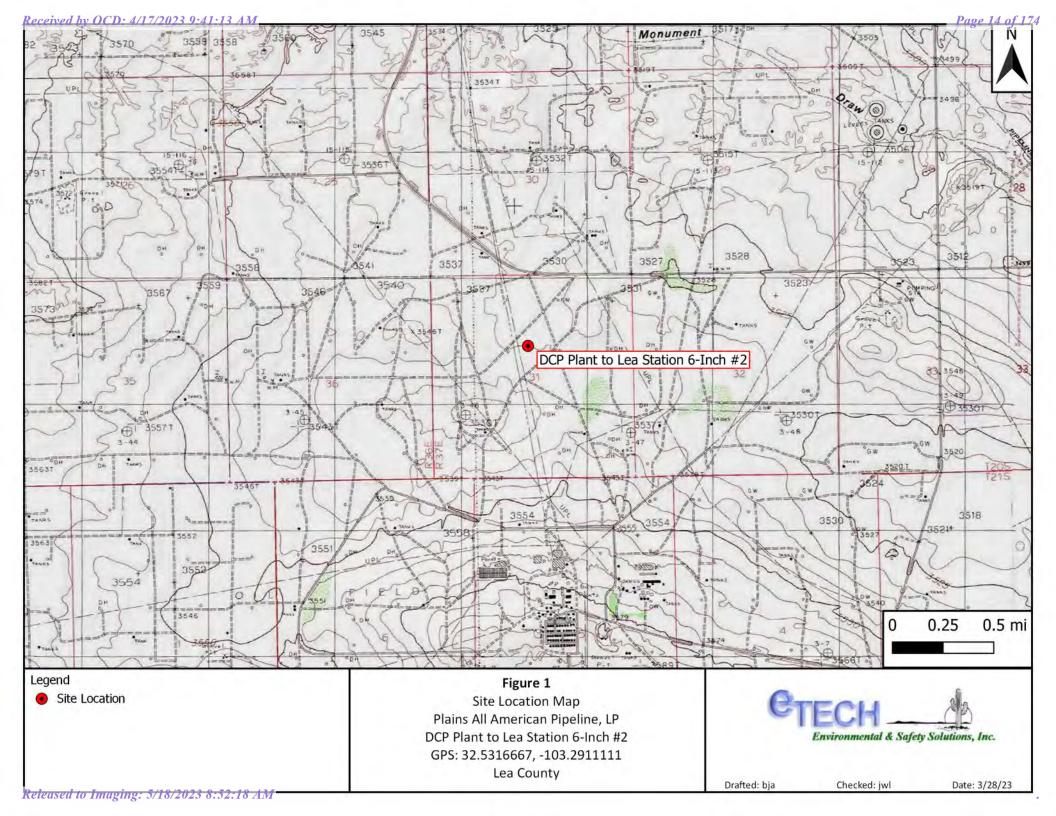
Nelson Velez Environmental Specialist - Advanced New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, NM 87410

### Jeff Dann

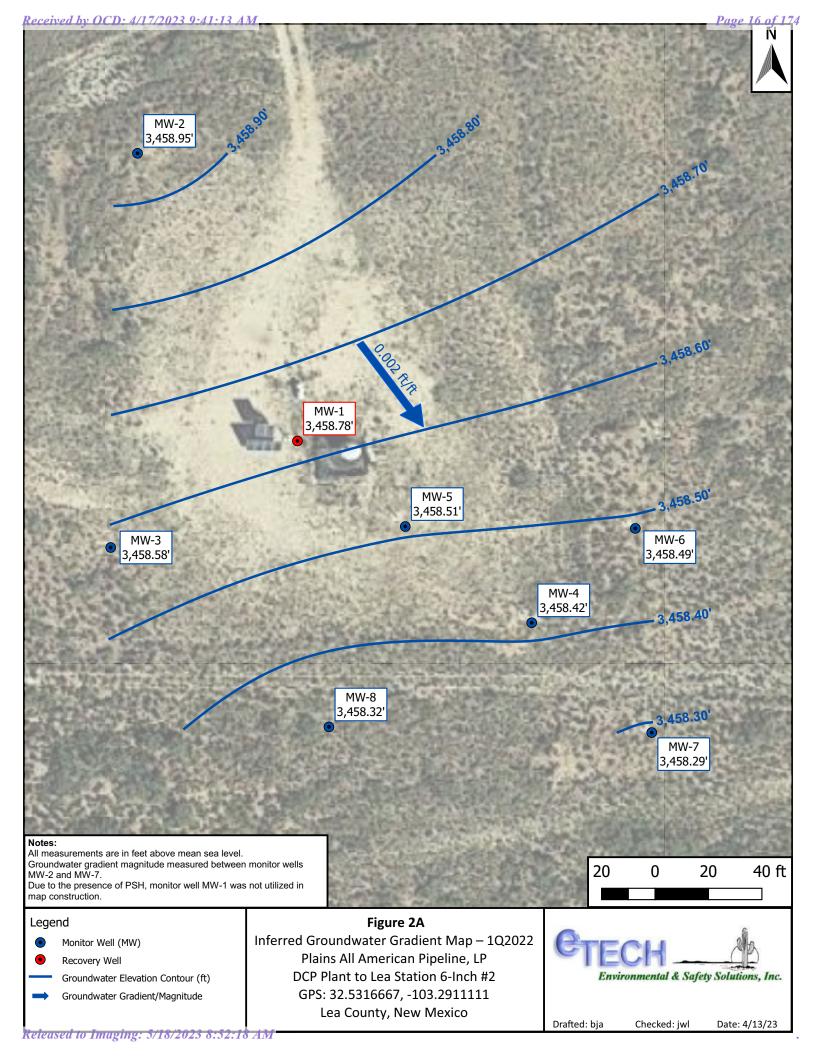
Plains All American Pipeline, LP 333 Clay Street, Suite 1600 Houston, Texas 77002

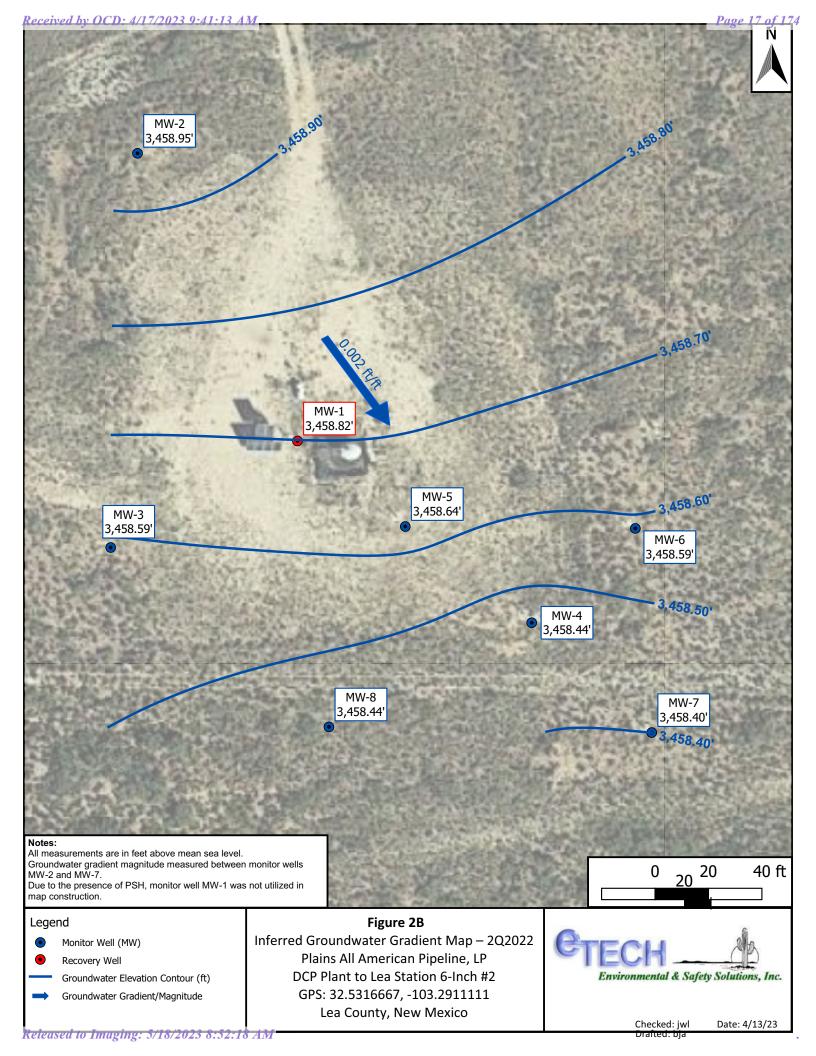
(Electronic Submission)

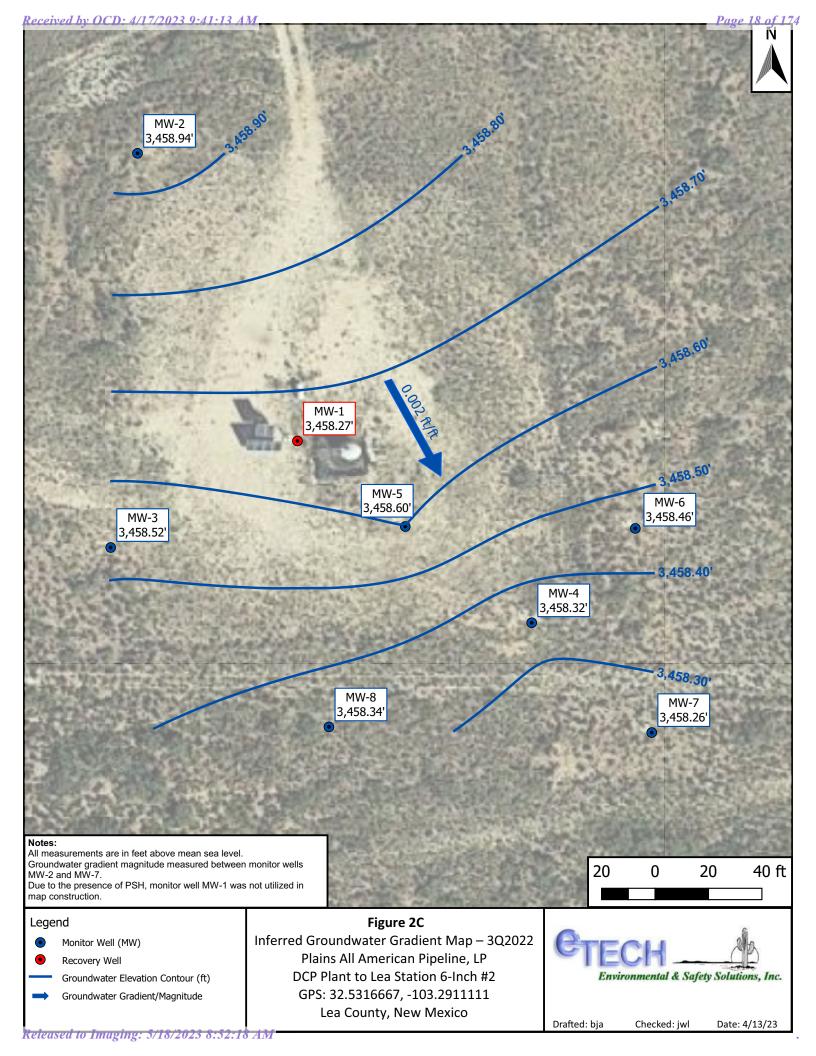
# Figure 1 Site Location Map

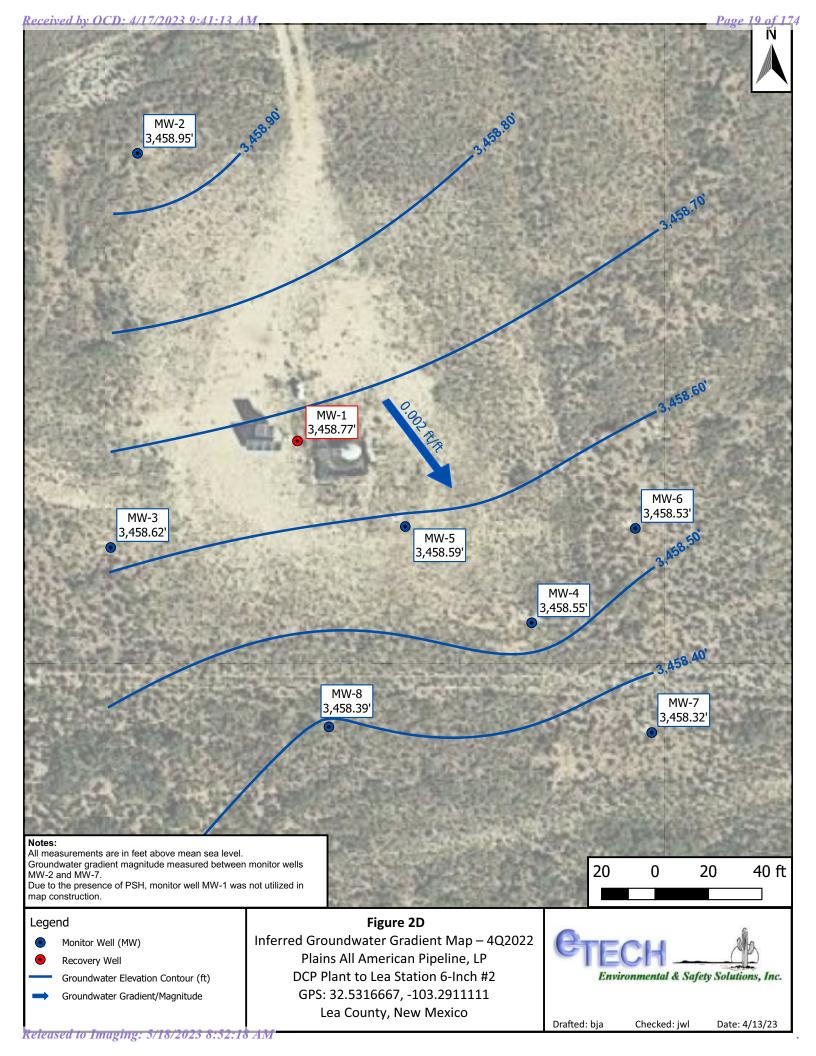


## Figures 2A - 2D Inferred Groundwater Gradient Maps

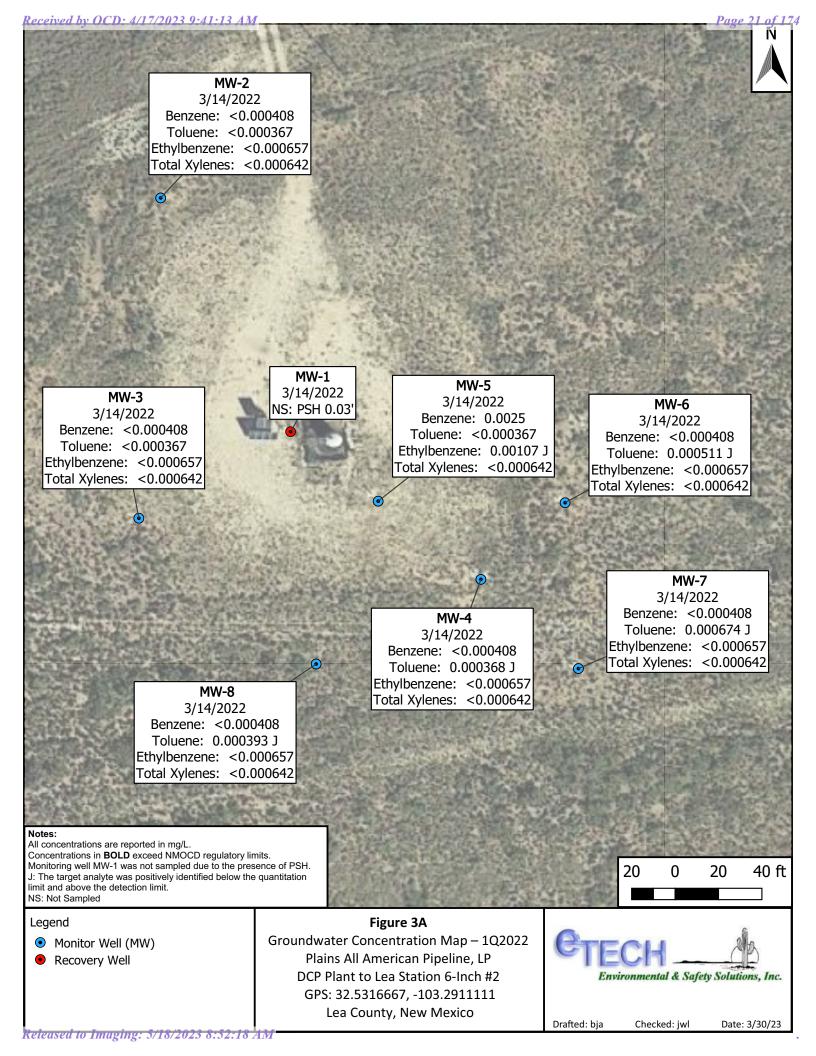


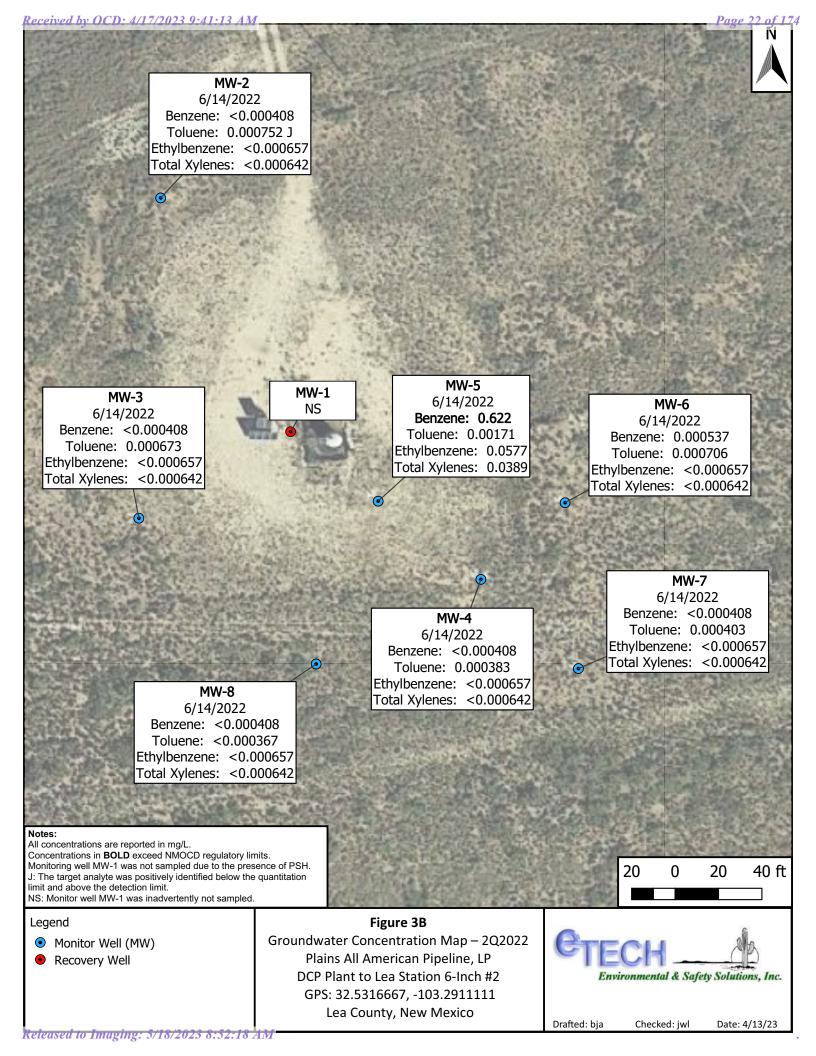


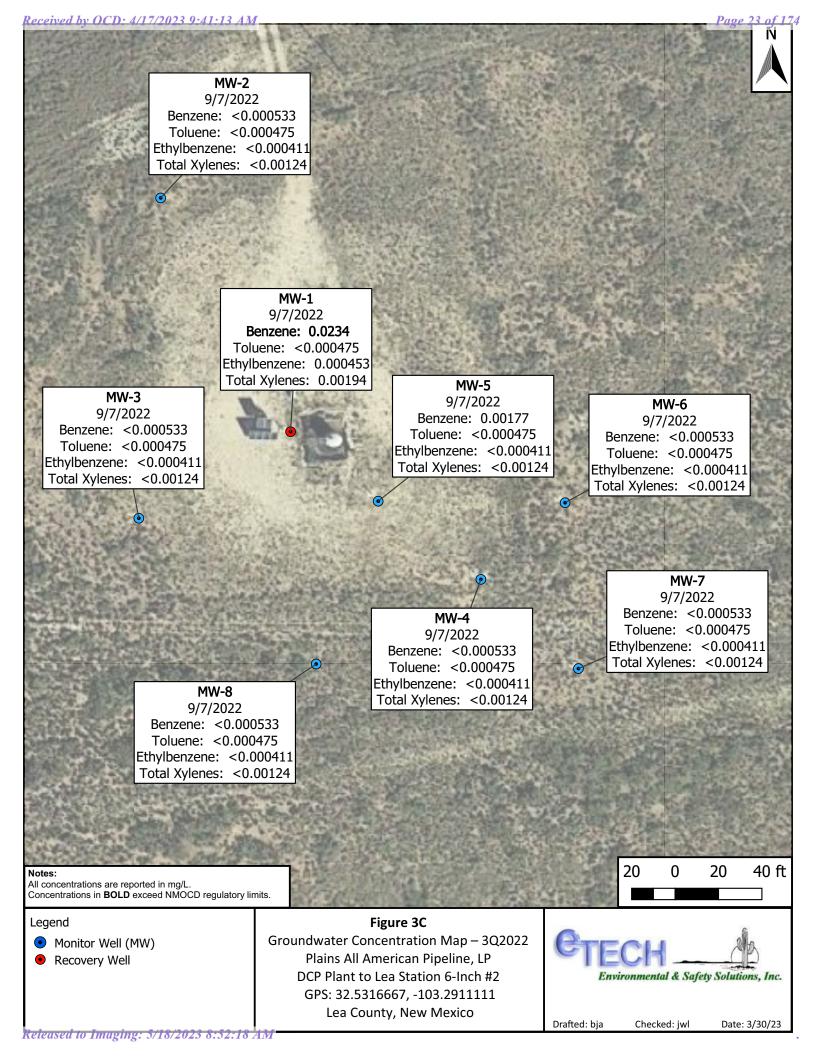


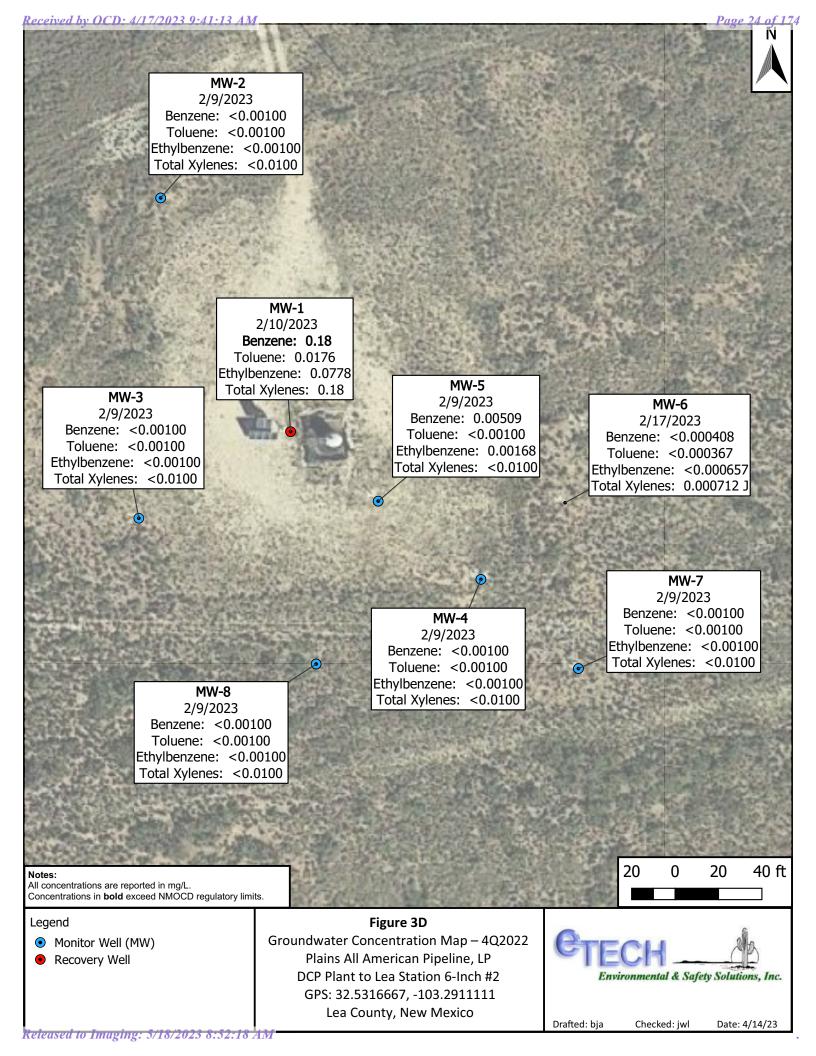


## Figures 3A - 3D Groundwater Concentration Maps









## **Tables 1 - 6**

### Table 1 Groundwater Elevation & PSH1 Thickness Summary

DCP Plant to Lea Station 6-Inch #2 Lea County, New Mexico Plains SRS #: 2009-039 Etech Project #: 17472 NMOCD<sup>2</sup> Incident ID #: nAPP2109730917

All measurements are in feet above mean sea level

All measurements are in feet above mean sea level											
M i4 i \ \ \ - \ \ \ - \ \ \ \ - \ \ \ \	D-4-	Top of	Depth to	Depth to	PSH	Corrected					
Monitoring Well (Well Diameter ")	Date Gauged	Casing (TOC) <sup>3</sup>	PSH Below TOC	Water Below	Thickness	Groundwater					
(Well Diameter )	Gaugeu	Elevation*	(feet)	TOC (feet)	(feet)	Elevation**					
	03/11/21	Lievation	81.43	81.47	0.04	3,458.81					
	06/18/21		81.35	81.40	0.05	3,458.89					
	09/22/21		81.37	81.41	0.04	3,458.87					
NAVA/ 4 (4")	12/15/21	2.540.25	81.42	81.46	0.04	3,458.82					
MW-1 (4")	03/14/22	3,540.25	81.47	81.50	0.03	3,458.78					
	06/14/22		81.43	81.43	0.00	3,458.82					
	9/6/2022		81.98	81.98	0.00	3458.27					
	02/09/23		81.48	81.48	0.00	3458.77					
	00/44/04		1	70.05	1	0.450.00					
	03/11/21		-	79.25	-	3,459.06 3.459.05					
	06/18/21 09/22/21			79.26 79.57	-	3,459.05					
	12/15/21		_	79.31	_	3,459.00					
MW-2 (2")	03/14/22	3,538.31	_	79.36	-	3,458.95					
	06/14/22		-	79.36	-	3,458.95					
	09/06/22		-	79.37	-	3,458.94					
	02/09/23		-	79.36	-	3,458.95					
	03/11/21		-	80.18	-	3,458.76					
	06/18/21		-	80.20	-	3,458.74					
	09/22/21		-	80.53	-	3,458.41					
MW-3 (2")	12/15/21	3,538.94	-	80.29	-	3,458.65					
5 (2 )	03/14/22	-,0.0		80.36	-	3,458.58					
	06/14/22		-	80.35	-	3,458.59					
1	09/06/22		-	80.42	-	3,458.52					
	02/09/23		-	80.32	-	3,458.62					
	03/11/21		_	81.11		3,458.56					
	06/18/21		_	81.10	-	3,458.57					
	09/22/21		-	81.23	-	3,458.44					
	12/15/21	0.500.07	-	81.14	-	3,458.53					
MW-4 (4")	03/14/22	3,539.67	-	81.25	-	3,458.42					
	06/14/22		-	81.23	-	3,458.44					
	09/06/22		-	81.35	-	3,458.32					
	02/09/23		-	81.12	-	3,458.55					
					,						
	03/11/21		-	80.85	-	3,458.70					
	06/18/21		-	80.84	-	3,458.71					
	09/22/21		-	80.85	-	3,458.70					
MW-5 (4")	12/15/21 03/14/22	3,539.55	-	80.90 81.04	-	3,458.65 3,458.51					
	06/14/22			80.91	-	3,458.64					
	09/06/22		_	80.95	-	3,458.60					
	02/09/23		-	80.96	-	3,458.59					
						2, 22 22					
	03/11/21		_	80.58	-	3,458.64					
	06/18/21		-	80.60	-	3,458.62					
	09/22/21		-	80.68	-	3,458.54					
MW-6 (2")	12/15/21	3,539.22	-	80.63	-	3,458.59					
l ' '	03/14/22 06/14/22		-	80.73	-	3,458.49					
	09/06/22		-	80.63 80.76	-	3,458.59 3,458.46					
	02/09/23		<u> </u>	80.69	-	3,458.53					
	12,10,20					5, 150.00					
	03/11/21		-	80.54	-	3,458.43					
	06/18/21		-	80.61	-	3,458.36					
	09/22/21		-	80.63	-	3,458.34					
MW-7 (4")	12/15/21	3,538.97	-	80.64	-	3,458.33					
/ (4 /	03/14/22	0,000.01	-	80.68	-	3,458.29					
	06/14/22		-	80.57	-	3,458.40					
	09/06/22		-	80.71	-	3,458.26					
	02/09/23		-	80.65	-	3,458.32					
	02/11/21			Q1 EE		2 459 40					
	03/11/21	$\dashv$	-	81.55 81.58	-	3,458.49 3,458.46					
	06/18/21 09/22/21		<del>-</del>	81.58	-	3,458.46					
A 40 47 - 7-10	12/15/21	0.545.51	-	81.61	-	3,458.43					
MW-8 (2")	03/14/22	3,540.04	-	81.72	-	3,458.32					
	06/14/22		-	81.60	-	3,458.44					
	09/06/22		-	81.70	-	3,458.34					
	02/09/23		-	81.65	-	3,458.39					

- Notes:

  1. PSH: Phase Separated Hydrocarbons

  2. NMOCD: New Mexico Oil Conservation Division

<sup>3.</sup> TOC: Top of Casing
\* Elevations based on the North American Vertical Datum of 1988.
\*\* Corrected groundwater elevations were extrapolated using a PSH specific gravity of 0.85, if PSH was gauged in the

### Table 2 **Groundwater BTEX<sup>1</sup> Concentration Analytical Summary**

DCP Plant to Lea Station 6-Inch #2 Lea County, New Mexico Plains SRS #: 2009-039 Etech Project #: 17472 NMOCD<sup>2</sup> Incident ID#: nAPP2109730917

		All cond	centrations a	re in milligrams pe	r liter (mg/l) . <b>SW846-802</b>	1R								
Monitoring Well	Date Sampled	Benzene	Toluene	Ethylbenzene	M,P- Xylenes	O- Xylenes	Total Xylenes	Total BTEX						
NMOCD RRA	AL CRITERIA <sup>3</sup>	0.01	0.75	0.75	тот	AL XYLENE	S 0.62	NE⁴						
	03/11/21		l .		l .			Į.						
	06/18/21	MW-1 Not Sampled Due to PSH <sup>5</sup>												
	09/22/21													
MW -1	12/15/21			IVIVV-1 INOL	Sampled Due	10 PSH								
IVIVV - I	03/14/22	_												
	06/14/22													
	09/07/22	0.0234	<0.000475	0.000453	0.00134	0.000602	0.00194	0.0258						
	02/10/23	0.180	0.0176	0.0778	0.136	0.0442	0.18	0.456						
			1					1						
	03/11/21	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	<0.00198	<0.00198						
	06/18/21	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657						
	09/22/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200						
MW-2	12/15/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400						
	03/14/22	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657						
	06/14/22	<0.000408	0.000752 J	<0.000657	<0.000629	<0.000642	<0.000642	0.000752 J						
	09/07/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124						
	02/09/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.0100						
	03/12/21	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199						
	06/18/21	<0.000408	< 0.000133	<0.00155	<0.00030	<0.000642	<0.000642	<0.000657						
	09/22/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.000042	<0.00400	<0.00200						
	12/15/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400						
MW-3	03/14/22	<0.000408	< 0.000367	<0.000657	<0.000629	< 0.000642	<0.000642	<0.000657						
	06/14/22	<0.000408	0.000673	<0.000657	<0.000629	< 0.000642	<0.000642	0.000673						
	09/07/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124						
	02/09/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.00124						
		•	•											
	03/12/21	<0.00200	<0.00200	<0.00200	< 0.00399	<0.00200	<0.00200	<0.00200						
	06/18/21	<0.000408	< 0.000367	<0.000657	<0.000629	<0.000642	< 0.000642	<0.000657						
	09/22/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200						
MW-4	12/15/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400						
10100	03/14/22	<0.000408	0.000368 J	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657						
	06/14/22	<0.000408	0.000383	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657						
	09/07/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124						
	02/09/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.0100						
	00/10/01	40.00400	-0.00105	-0.00100	-0.0000	-0.00105	-0.00400	40.00400						
	03/12/21	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199						
	06/18/21	0.253 0.210	0.000452 J	0.0320	0.0256	0.00402	0.0296	0.315						
	DUP-1	<0.00200	0.000581 J	0.0289	0.0233	0.00343	0.0267	0.266 0.00219						
	09/22/21 DUP-1	<0.00200	<0.00200 <0.00200	<0.00200 <0.00200	<0.00400 <0.00400	<0.00200 <0.00200	<0.00400 <0.00400	0.00219						
MW-5	12/15/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00254						
IVI V V -U	12/15/21 DUP-1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400						
	03/14/22	0.00250	<0.00200	0.00200 0.00107 J	<0.00400	<0.00200	<0.00400	0.00357 J						
	06/14/22	0.00250	0.00171	0.00107 3	0.000629	0.00162	0.000642	0.00357 J						
	09/07/22	0.00177	<0.00171	<0.000411	<0.00124	<0.000551	<0.00124	0.72						
	02/09/23	0.00509	<0.00100	0.00168	<0.00124	<0.000551	<0.00124	0.00177						
	02/03/23	0.00009	-0.00100	0.00100	<u> </u>	-0.00100	~0.0100	0.00077						

- 1. BTEX: Benzene, Toluene, Ethylbenzene, and Total Xylenes
- 2. NMOCD: New Mexico Oil Conservation Division
- 3. RRAL Criteria: Recommended Remediation Action Level Criteria
- 4. NE: Not Established
- 5. PSH: Phase-Separated Hydrocarbons
- J: The target analyte was positively identified below the quantitation limit and above the detection limit **Bold** text indicates a concentration exceeding the NMOCD RRAL Criteria

## Table 2 Groundwater BTEX<sup>1</sup> Concentration Analytical Summary

DCP Plant to Lea Station 6-Inch #2
Lea County, New Mexico
Plains SRS #: 2009-039
Etech Project #: 17472
NMOCD<sup>2</sup> Incident ID#: nAPP2109730917

All concentrations are in milligrams per liter (mg/l)

Monitoring Date EPA SW846-8021B													
Monitoring Well	Date Sampled	Benzene Toluene		Ethylbenzene	M,P- O- Xylenes Xylenes		Total Xylenes	Total BTEX					
NMOCD RRA	AL CRITERIA <sup>3</sup>	0.01	0.75	0.75	TOTAL XYLENES 0.62			NE <sup>4</sup>					
	03/11/21	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00200	<0.00200					
	06/18/21	<0.000408	< 0.000367	< 0.000657	< 0.000629	< 0.000642	< 0.000642	< 0.000657					
	09/22/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200					
MW-6	12/15/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	< 0.00400					
IVIVV-0	03/14/22	<0.000408	0.000511 J	<0.000657	< 0.000629	< 0.000642	<0.000642	< 0.000657					
	06/14/22	0.000537	0.000706	< 0.000657	< 0.000629	< 0.000642	<0.000642	0.00124					
	09/07/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124					
	02/17/23	<0.000408	< 0.000367	<0.000657	0.000712J	<0.000642	0.000712J	0.000712J					
	03/11/21	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	<0.00198	<0.00198					
	06/18/21	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657					
	09/22/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200					
MW-7	12/15/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400					
10100-7	03/14/22	<0.000408	0.000674 J	<0.000657	<0.000629	<0.000642	<0.000642	0.000674J					
	06/14/22	<0.000408	0.000403	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657					
	09/07/22	< 0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124					
	02/09/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.00124					
	03/11/21	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199					
	06/18/21	<0.000408	< 0.000367	0.000671 J	0.000714 J	<0.000642	0.000714 J	0.00139 J					
	09/22/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200					
MW-8	12/15/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400					
10100-0	03/14/22	<0.000408	0.000393 J	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657					
	06/14/22	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657					
	09/07/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124					
	02/09/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.00124					

### Notes:

- 1. BTEX: Benzene, Toluene, Ethylbenzene, and Total Xylenes
- 2. NMOCD: New Mexico Oil Conservation Division
- 3. RRAL Criteria: Recommended Remediation Action Level Criteria
- 4. NE: Not Established
- 5. PSH: Phase-Separated Hydrocarbons
- J: The target analyte was positively identified below the quantitation limit and above the detection limit

**Bold** text indicates a concentration exceeding the NMOCD RRAL Criteria

## Table 3 Air Emission<sup>1</sup> Analytical Summary - BTEX<sup>2</sup> & TPH<sup>3</sup>

DCP Plant to Lea Station 6-Inch #2 Lea County, New Mexico Plains SRS#: 2009-039 Etech Project #: 17472 NMOCD Incident ID#: nAPP2109730917

Sample I.D.	Sample Date	Laboratory	BTEX / TPH (mg/m³)	Emission Mass <sup>4</sup> (tons/year)	Emission Volume (gal/day)
New Mexico Environ	nment Department (NM	IED) Air Quality Burea	(AQB) Action Level requiring an Air Permit	10	
			Benzene - ND	ND	ND
			Toluene - 253	0.172	0.129
EFF-1 (01272022)	01/27/2022	Pace	Ethylbenzene - 43.2	0.029	0.022
EFF-1 (012/2022)	01/21/2022	Pace	Total Xylene - 135	0.092	0.069
			Total BTEX - 431	0.294	0.221
			TPH - GRO - 12,000	8.17	7.56
			Benzene - 6.01	4.091	3.076
			Toluene - 234	0.159	0.120
EFF-1 (02242022)	02/24/2022	Pace	Ethylbenzene - 46.0	0.031	0.024
EFF-1 (02242022)	02/24/2022	Pace	Total Xylene - 101	0.031	0.024
			Total BTEX - 6,391	4.351	3.271
			TPH - GRO - 10,000	6.81	6.30
			Benzene - 21.0	0.078	0.011
			Toluene - 22.5	0.084	0.012
EEE 1 (02202022)	03/30/3033	Poss	Ethylbenzene - 13.2	0.009	0.007
EFF-1 (03282022)	03/28/2022	Pace	Total Xylene - 383	0.031	0.024
			Total BTEX - 440	0.299	0.225
			TPH - GRO - 7,640	5.20	4.81
			Benzene - 4.30	0.003	0.002
			Toluene - 5.60	0.004	0.003
, /2 , 2		Pace	Ethylbenzene - 0.80	0.001	0.000
EFF-1 (04252022)	04/25/2022		Total Xylene - 15.1	0.031	0.024
			Total BTEX - 25.8	0.018	0.013
			TPH - GRO - 3,420	2.33	2.15
			Benzene - 0	0.00	0.00
			Toluene - 288	0.20	0.15
		_	Ethylbenzene - 64.2	0.04	0.03
EFF-1 (05192022)	05/19/2022	Pace	Total Xylene - 195	0.13	0.10
			Total BTEX - 547	0.37	0.28
			TPH - GRO - 11,100	7.56	6.99
			Benzene - 7.60	0.000146	0.004
			Toluene - 252	0.000374	0.129
		_	Ethylbenzene - 49.4	0.0000106	0.025
EFF-1 (06292022)	06/29/2022	Pace	Total Xylene - 136	0.031314	0.07
			Total BTEX - 445	0.001838	0.228
			TPH - GRO - 10,100	0.632401	6.36
			Benzene - 0.214	0.005174	0
			Toluene - 0.60	0.171545	0
EEE 4 (070-000)	07/05/2022		Ethylbenzene - 0.20	0.033628	0
EFF-1 (07252022)	07/25/2022	Pace	Total Xylene - 1.90	0.092852	0.024
			Total BTEX - 2.70	0.303198	0.001
			TPH - GRO - 929	6.875404	0.585
			Benzene - 0	0	0
			Toluene - 302	0.205581	0.155
			Ethylbenzene - 68.9	0.046903	0.035
EFF-1 (08222022)	08/22/2022	Pace	Total Xylene - 200	0.135874	0.102
			Total BTEX - 571	0.3888358	0.292
			TPH - GRO - 10,500	7.147697	6.612
			Benzene - 4.44	0.003022	0.002
			Toluene - 235	0.159972	0.12
			Ethylbenzene - 46.0	0.031314	0.024
EFF-1 (09292022)	09/29/2022	Pace	Total Xylene - 133	0.090537	0.068
			Total BTEX - 418	0.388358	0.292
			TPH - GRO - 10,100	6.875404	6.36

### Table 3 Air Emission<sup>1</sup> Analytical Summary - BTEX<sup>2</sup> & TPH<sup>3</sup>

DCP Plant to Lea Station 6-Inch #2 Lea County, New Mexico Plains SRS#: 2009-039 Etech Project #: 17472 NMOCD Incident ID#: nAPP2109730917

Sample I.D.	Sample Date	Laboratory	BTEX / TPH (mg/m³)	Emission Mass <sup>4</sup> (tons/year)	Emission Volume (gal/day)
New Mexico Enviro	nment Department (NN	10			
			Benzene - 2.07	0.001409	0.001
			Toluene - 178	0.12117	0.091
EEE 4 (40000000)	10/20/2022	Dave	Ethylbenzene - 51.2	0.034854	0.026
EFF-1 (10202022)	10/20/2022	Pace	Total Xylene - 140	0.095507	0.072
			Total BTEX - 372	0.25294	0.19
			TPH - GRO - 8,760	5.963221	5.516
			Benzene - ND	0	0
			Toluene - 236	0.160653	0.121
EFF-1 (11282022)	11/28/2022	Pace	Ethylbenzene - 50.7	0.034513	0.026
EFF-1 (11202022)	11/20/2022	Pace	Total Xylene - 158	0.107215	0.081
			Total BTEX - 444	0.302382	0.227
			TPH - GRO - 8,220	5.595626	5.175
			Benzene - 0.574	0.000391	0
			Toluene - 38.8	0.026412	0.02
EFF-1 (03323)	03/03/2023	Eurofins Xenco	Ethylbenzene - 8.34	0.005677	0.004
EFF-1 (03323)	03/03/2023	Euroniis Aerico	Total Xylene - 23.3	0.015861	0.012
			Total BTEX - 71.0	0.048342	0.036
			TPH - GRO - 575	0.391421	0.362
			2022 TPH Average:	5.74	5.31

No. Not detected a tire window Quantination Limit.

= Constituent not detected above laboratory sample detection limit (SDL)

Bold denotes concentrations that could potentially be in violation of applicable NMED AQB criteria.

SVE Emission: Soil Vapor Extraction
 BTEX: Benzene, toluene, ethylbenzene, total xylene analyzed by EPA Method 8021B
 TPH: Total petroleum hydrocarbons analyzed by EPA Method 8015
 Emission Mass calculated assuming flowrate 1.1073 (m³/min) and constituent concentration were constant for the entirety of a year.

NA: Indicates constituant was not analyzed

ND: Not detected at the Method Quantitation Limit.

## Table 4 MW-1 SVE<sup>1</sup> System Operation & PSH<sup>2</sup> Thickness & Recovery Summary

DCP Plant to Lea Station 6-Inch #2
Lea County, New Mexico
Plains SRS #: 2009-039
Etech Project #: 17472
NMOCD<sup>3</sup> Incident ID#: nAPP2109730917

All elevation measurements are in feet above mean sea level

Monitoring Well	Date	Top of Casing (TOC) <sup>4</sup> Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH Thickness (feet)	PID <sup>5</sup> Reading	Hours of Operation	Total Fluid Recovery (gallons)	PSH Recovered (gallons)		
	08/25/21		81.55	81.86	0.31	1,475	27,752	5.00	0.202		
	10/28/21		81.35	81.40	0.05	-	28,779	5.00	0.033		
	11/30/21			Not Measured		1,326	29,571	5.00	-		
	12/20/21		84.76	85.60	0.84	•	30,051	5.00	0.549		
	01/27/22			81.35	81.35	SHEEN	•	30,583	5.00	-	
	02/24/22		81.17	81.17	SHEEN	1,886	31,254	5.00	-		
	03/28/22					81.27	81.27	SHEEN	1,397	31,849	5.00
MW-1	04/15/22	3,540.25	81.39	81.39	SHEEN	1,126	32,520	5.00	-		
	05/19/22		81.35	81.36	0.01	1,103	33,094	5.00	0.007		
	06/14/22		81.43	81.43	SHEEN	•	-	-	-		
	06/29/22		81.90	81.90	SHEEN	2,168	33,598	5.00	-		
	08/22/22		81.91	81.91	SHEEN		34,894	5.00	-		
	09/29/22		81.74	81.74	SHEEN	2,623.00	35,613	5.00	-		
	10/20/22		81.80	81.80	SHEEN	1,766	36,099	5.00	-		
	11/28/22		81.90	81.90	SHEEN	1,356	-	5.00	-		
			0.01	2022 Tot	al Recovered	45.0	0.007				

### Notes:

- 1. SVE: Soil Vapor Extraction
- 2. PSH: Phase Separated Hydrocarbons
- 3. NMOCD: New Mexico Oil Conservation Division
- 4. TOC: Top Of Casing
- 5. PID: Photoionization Detector
- \* Elevations based on the North American Vertical Datum of 1988.
- \*\* Corrected groundwater elevations were extrapolated using a PSH specific gravity of 0.85, if PSH was gauged in the monitoring well.

### Table 5 MW-5 Gauging & BTEX<sup>1</sup> Impacted Groundwater Recovery Summary

DCP Plant to Lea Station 6-Inch #2 Lea County, New Mexico Plains SRS #: 2009-039 Etech Project #: 17472

NMOCD<sup>3</sup> Incident ID #: nAPP2109730917

All elevation measurements are in feet above mean sea level

Monitoring Well	Date	Top of Casing (TOC) <sup>3</sup> Elevation	Depth to Water	Corrected Groundwater Elevation	Groundwater Recovered (gallons)						
	03/30/21		-	-	5.0						
	04/27/21		-	-	5.0						
	05/28/21		-	-	5.0						
	06/28/21		-	-	5.0						
	07/27/21		-	-	5.0						
	08/25/21		-	-	5.0						
	10/28/21		-	-	5.0						
	11/30/21		-	-	5.0						
	12/20/21		-	-	5.0						
MW-5	01/27/22	3,539.55	-	-	5.0						
	02/04/22		-	-	5.0						
	03/28/22		-	-	5.0						
	04/25/22		-	-	5.0						
	05/19/22		-	-	5.0						
	06/29/22		-	-	5.0						
	08/22/22	]	-	-	5.0						
	09/29/22		Not enough	bailers to recover	0.0						
	10/20/22		-	-	5.0						
	11/28/22		-	-	5.0						
	2022 GW Recovered 45.0										

### Notes:

- 1. BTEX: Benzene, Toluene, Ethylbenzene, Total Xylene
- 2. NMOCD: New Mexico Oil Conservation Division
- 3. TOC: Top Of Casing
- 4. GW: Groundwater

### Table 6

### Concentrations of PAH1 in Groundwater Summary

DCP Plant to Lea Station 6-Inch #2 Lea County, New Mexico Plains SRS #: 2009-039 Etech Project #: 17472 NMOCD<sup>2</sup> Incident ID#: nAPP2109729126

							All Concerns	rations are repo			nig/L)							
									E	PA 8270D								
Well ID	Date Sampled	N/Aphthalene	Benzo(a)pyrene	AceN/Aphthene	AceN/Aphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)Pyrene	PheN/Anthrene	Pyrene
NMWQC	C Standard <sup>3</sup>	0.03	0.0007								NE <sup>4</sup>							
	12/10/09	N/A	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	N/A	<0.100	<0.100	<0.100	<0.100	<0.100
MW-1	12/16/20						Well No	ot Sampled Due	e To Phase Se	eparate Hydro	carbons (PSH)							
	02/10/23	0.00704	<0.000184	0.000239	<0.000184	<0.000184	0.000336	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	N/A	<0.000184	0.000979	<0.000184	0.000605	0.000243
	07/01/09	N/A	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
MW-2	12/16/20	<0.000104	<0.0000609	<0.000107	<0.0000899	<0.0000925	<0.000144	<0.0000759	<0.000121	<0.000124	<0.000167	<0.0000812	N/A	<0.000168	<0.000108	<0.0000975	<0.0000908	<0.000139
	03/14/22	< 0.0000963	<0.0000566	<0.0000991	<0.0000834	<0.0000892	<0.000133	<0.0000694	<0.000112	<0.000115	<0.000155	< 0.0000753	<0.0000991	<0.000156	<0.000100	<0.0000905	<0.0000842	<0.000129
	07/01/09	N/A	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	12/16/11	N/A	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
MW-3	11/09/12	<0.00031	<0.00019	<0.00035	<0.00033	<0.00016	<0.00024	<0.00036	<0.00028	<0.00049	<0.00022	<0.00019	N/A	<0.00024	<0.00030	<0.00032	<0.00027	<0.00027
	12/16/20	<0.000106	<0.0000623	<0.000109	<0.0000920	<0.0000946	<0.000147	<0.0000777	<0.000124	<0.000127	<0.000171	<0.0000830	N/A	<0.000172	<0.000110	<0.0000998	<0.0000929	<0.000142
	03/14/22	<0.0000991	<0.0000834	<0.0000892	<0.000133	<0.0000566	<0.0000694	<0.000112	<0.000115	<0.000155	<0.0000753	<0.0000991	<0.000156	<0.000100	<0.0000905	<0.0000963	<0.0000842	<0.000129
	07/01/09	N/A	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	12/16/11	N/A	< 0.005	<0.005	<0.005	< 0.005	< 0.005	<0.005	<0.005	< 0.005	< 0.005	<0.005	N/A	<0.005	<0.005	< 0.005	<0.005	< 0.005
MW-4	11/09/12	<0.00032	<0.00020	<0.00037	<0.00034	<0.00016	<0.00025	<0.00038	<0.00029	<0.00051	<0.00023	<0.00020	N/A	<0.00025	<0.00031	<0.00034	<0.00028	<0.00028
	12/16/20	<0.000108	<0.0000637	<0.000112	<0.0000939	<0.0000966	<0.000150	<0.0000793	<0.000126	<0.000130	<0.000174	<0.0000848	N/A	<0.000175	<0.000112	<0.000102	<0.0000949	<0.000145
	03/14/22	<0.0000996	<0.0000839	<0.0000897	<0.000134	<0.0000569	<0.0000697	<0.000113	<0.000116	<0.000155	<0.0000757	<0.0000996	<0.000156	<0.000101	<0.0000910	<0.0000968	<0.0000847	<0.000130
	03/25/11	N/A	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	11/09/12	<0.00032	<0.00020	< 0.00037	<0.00034	<0.00016	<0.00025	<0.00038	<0.00029	<0.00051	<0.00023	<0.00020	N/A	<0.00025	<0.00031	<0.00034	<0.00028	<0.00028
MW-5	12/23/13	0.000535	<0.000049	< 0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	N/A	<0.000049	<0.000049	< 0.000049	<0.000049	<0.000049
C-VVIVI	05/08/14	N/A	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	N/A	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	12/16/20	<0.0000986	<0.0000579	<0.000101	<0.0000854	<0.0000879	<0.000136	<0.0000721	<0.000115	<0.000118	<0.000158	<0.0000771	N/A	<0.000159	<0.000102	<0.0000926	<0.0000863	<0.000132
	03/14/22	<0.0000993	<0.0000836	<0.0000894	<0.000133	<0.0000567	<0.0000695	<0.000112	<0.000115	<0.000155	<0.0000755	<0.0000993	<0.000156	<0.000100	<0.0000906	<0.0000965	<0.0000844	<0.000129
	05/08/14	N/A	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	N/A	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
MW-6	12/16/20	<0.000119	<0.0000698	<0.000122	<0.000103	<0.000106	<0.000164	<0.0000869	<0.000138	<0.000142	<0.000191	<0.0000929	N/A	<0.000192	<0.000123	<0.000112	<0.000104	<0.000159
Ī	03/14/22	<0.0000995	<0.0000837	<0.0000895	<0.000133	<0.0000568	<0.0000696	<0.000112	<0.000115	<0.000155	<0.0000756	<0.0000995	<0.000156	<0.000100	<0.0000908	<0.0000967	<0.0000845	<0.000129
	05/08/14	N/A	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	N/A	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
MW-7	12/16/20	<0.000110	<0.0000644	<0.000113	<0.0000951	<0.0000978	<0.000152	<0.0000803	<0.000128	<0.000131	<0.000176	<0.0000858	N/A	<0.000177	<0.000114	<0.000103	<0.0000960	<0.000147
Ī	03/14/22	<0.0000996	<0.0000839	<0.0000897	<0.000134	<0.0000569	<0.0000697	<0.000113	<0.000116	<0.000155	<0.0000757	<0.0000996	<0.000156	<0.000101	<0.0000910	<0.0000968	<0.0000847	<0.000130
MM/ 0	12/16/20	<0.0000646	<0.000110	<0.000113	<0.0000954	<0.0000981	<0.000152	<0.0000805	<0.000128	<0.000132	<0.000177	<0.0000861	N/A	<0.000178	<0.000114	<0.000103	<0.0000963	<0.000148
MW-8	03/14/22	<0.000100	<0.0000842	<0.0000900	<0.000134	<0.0000571	<0.0000700	<0.000113	<0.000116	<0.000156	<0.0000760	<0.000100	<0.000157	<0.000101	<0.0000913	<0.0000972	<0.0000850	<0.000130
		•																

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- Notes:

  1. PAH: Polycyclic Aromatic Hydrocarbons

  2. NMOCD: New Mexico Oil Conservation Division

  3. NMWQCC: New Mexico Water Quality Control Commission
- 4. NE: Not Established

**Bold** text indicates a concentration exceeding NMWQCC Drinking Water Standards

## Appendix A Laboratory Analytical Reports



# **Environment Testing America**

## **ANALYTICAL REPORT**

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424

Tel: (806)794-1296

Laboratory Job ID: 820-3678-1

Laboratory Sample Delivery Group: AR227008

Client Project/Site: DCP #2

### For:

Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Attn: Brett Dennis

MRAMER

Authorized for release by: 3/28/2022 5:02:24 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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Released to Imaging: 5/18/2023 8:52:18 AM

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

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

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11

Client: Terracon Consulting Eng & Scientists Project/Site: DCP #2

Laboratory Job ID: 820-3678-1 SDG: AR227008

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	19
Lab Chronicle	21
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	28

4

6

8

9

11

14

14

## **Definitions/Glossary**

Client: Terracon Consulting Eng & Scientists Job ID: 820-3678-1 Project/Site: DCP #2

SDG: AR227008

#### **Qualifiers**

## GC/MS Semi VOA

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

#### **GC VOA**

F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits	
F2 MS/MSD RPD exceeds control limits	
12 Monitor III D exceeds control limits	
J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
U Indicates the analyte was analyzed for but not detected.	

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MOI	Mathad Overtibelian Limit

MQL Method Quantitation Limit NC

Not Calculated

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

Negative / Absent NEG POS Positive / Present PQL

Practical Quantitation Limit

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1 SDG: AR227008

Job ID: 820-3678-1

**Laboratory: Eurofins Lubbock** 

Narrative

Job Narrative 820-3678-1

#### Receipt

The samples were received on 3/16/2022 11:56 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C

#### GC/MS Semi VOA

Method 8270D\_SIM: The surrogate recovery for the blank associated with preparation batch 860-45602 and analytical batch 860-45678 was outside the upper control limits.

Method 8270D\_SIM: Surrogate recovery for the following samples were outside the upper control limit: MW-3 (820-3678-2), MW-4 (820-3678-3), MW-5 (820-3678-4), MW-6 (820-3678-5), MW-7 (820-3678-6) and MW-8 (820-3678-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

#### **GC VOA**

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

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Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

SDG: AR227008

**Client Sample ID: MW-2** 

Lab Sample ID: 820-3678-1

Date Collected: 03/14/22 14:35 Date Received: 03/16/22 11:56

Matrix: Water

Job ID: 820-3678-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000991	U	0.000180	0.0000991	mg/L		03/18/22 19:48	03/21/22 13:09	1
Acenaphthylene	< 0.0000834	U	0.000180	0.0000834	mg/L		03/18/22 19:48	03/21/22 13:09	1
Anthracene	<0.0000892	U	0.000180	0.0000892	mg/L		03/18/22 19:48	03/21/22 13:09	1
Benzo[a]anthracene	<0.000133	U	0.000180	0.000133	mg/L		03/18/22 19:48	03/21/22 13:09	1
Benzo[a]pyrene	< 0.0000566	U	0.000180	0.0000566	mg/L		03/18/22 19:48	03/21/22 13:09	1
Benzo[b]fluoranthene	<0.0000694	U	0.000180	0.0000694	mg/L		03/18/22 19:48	03/21/22 13:09	1
Benzo[g,h,i]perylene	<0.000112	U	0.000180	0.000112	mg/L		03/18/22 19:48	03/21/22 13:09	1
Benzo[k]fluoranthene	<0.000115	U	0.000180	0.000115	mg/L		03/18/22 19:48	03/21/22 13:09	1
Chrysene	<0.000155	U	0.000180	0.000155	mg/L		03/18/22 19:48	03/21/22 13:09	1
Dibenz(a,h)anthracene	<0.0000753	U	0.000180	0.0000753	mg/L		03/18/22 19:48	03/21/22 13:09	1
Dibenzofuran	<0.0000991	U	0.000180	0.0000991	mg/L		03/18/22 19:48	03/21/22 13:09	1
Fluoranthene	<0.000156	U	0.000180	0.000156	mg/L		03/18/22 19:48	03/21/22 13:09	1
Fluorene	<0.000100	U	0.000180	0.000100	mg/L		03/18/22 19:48	03/21/22 13:09	1
Indeno[1,2,3-cd]pyrene	<0.0000905	U	0.000180	0.0000905	mg/L		03/18/22 19:48	03/21/22 13:09	1
Naphthalene	< 0.0000963	U	0.00361	0.0000963	mg/L		03/18/22 19:48	03/21/22 13:09	1
Phenanthrene	<0.0000842	U	0.000180	0.0000842	mg/L		03/18/22 19:48	03/21/22 13:09	1
Pyrene	<0.000129	U	0.000180	0.000129	mg/L		03/18/22 19:48	03/21/22 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	133		54 - 146				03/18/22 19:48	03/21/22 13:09	1
Nitrobenzene-d5	121		46 - 151				03/18/22 19:48	03/21/22 13:09	1
p-Terphenyl-d14	100		51 <sub>-</sub> 139				03/18/22 19:48	03/21/22 13:09	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/24/22 00:54	1
Toluene	< 0.000367	U	0.00200	0.000367	mg/L			03/24/22 00:54	1
Ethylbenzene	< 0.000657	U	0.00200	0.000657	mg/L			03/24/22 00:54	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/24/22 00:54	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/24/22 00:54	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/24/22 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			-		03/24/22 00:54	1
1,4-Difluorobenzene (Surr)	102		70 - 130					03/24/22 00:54	1

 Method: Total BTEX - Total BTEX (	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/24/22 16:40	1

**Client Sample ID: MW-3** Lab Sample ID: 820-3678-2 Date Collected: 03/14/22 15:30 Matrix: Water

Date Received: 03/16/22 11:56

Method: 8270D SIM - Semi	volatile Organic Com	pounds (G	C/MS SIM)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000996	U	0.000181	0.0000996	mg/L		03/18/22 19:48	03/21/22 13:28	1
Acenaphthylene	<0.0000839	U	0.000181	0.0000839	mg/L		03/18/22 19:48	03/21/22 13:28	1
Anthracene	<0.0000897	U	0.000181	0.0000897	mg/L		03/18/22 19:48	03/21/22 13:28	1
Benzo[a]anthracene	<0.000134	U	0.000181	0.000134	mg/L		03/18/22 19:48	03/21/22 13:28	1
Benzo[a]pyrene	< 0.0000569	U	0.000181	0.0000569	mg/L		03/18/22 19:48	03/21/22 13:28	1

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Date Received: 03/16/22 11:56

SDG: AR227008

**Client Sample ID: MW-3** Lab Sample ID: 820-3678-2 Date Collected: 03/14/22 15:30

Matrix: Water

Job ID: 820-3678-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.0000697	U	0.000181	0.0000697	mg/L		03/18/22 19:48	03/21/22 13:28	1
Benzo[g,h,i]perylene	<0.000113	U	0.000181	0.000113	mg/L		03/18/22 19:48	03/21/22 13:28	1
Benzo[k]fluoranthene	<0.000116	U	0.000181	0.000116	mg/L		03/18/22 19:48	03/21/22 13:28	1
Chrysene	<0.000155	U	0.000181	0.000155	mg/L		03/18/22 19:48	03/21/22 13:28	1
Dibenz(a,h)anthracene	<0.0000757	U	0.000181	0.0000757	mg/L		03/18/22 19:48	03/21/22 13:28	1
Dibenzofuran	<0.0000996	U	0.000181	0.0000996	mg/L		03/18/22 19:48	03/21/22 13:28	1
Fluoranthene	<0.000156	U	0.000181	0.000156	mg/L		03/18/22 19:48	03/21/22 13:28	1
Fluorene	<0.000101	U	0.000181	0.000101	mg/L		03/18/22 19:48	03/21/22 13:28	1
Indeno[1,2,3-cd]pyrene	<0.0000910	U	0.000181	0.0000910	mg/L		03/18/22 19:48	03/21/22 13:28	1
Naphthalene	<0.0000968	U	0.00363	0.0000968	mg/L		03/18/22 19:48	03/21/22 13:28	1
Phenanthrene	<0.0000847	U	0.000181	0.0000847	mg/L		03/18/22 19:48	03/21/22 13:28	1
Pyrene	<0.000130	U	0.000181	0.000130	mg/L		03/18/22 19:48	03/21/22 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	163	S1+	54 - 146				03/18/22 19:48	03/21/22 13:28	1
Nitrobenzene-d5	143		46 - 151				03/18/22 19:48	03/21/22 13:28	1
p-Terphenyl-d14	128		51 <sub>-</sub> 139				03/18/22 19:48	03/21/22 13:28	1

Method: 8021B - Volatile Orga	nic Compounds	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/24/22 01:14	1
Toluene	< 0.000367	U	0.00200	0.000367	mg/L			03/24/22 01:14	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/24/22 01:14	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/24/22 01:14	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/24/22 01:14	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/24/22 01:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4 Duamasti (O	400		70 400			_		00/04/00 04:44	

4-Bromofluorobenzene (Surr)	108	70 - 130	03/24/22 01:14 1
1,4-Difluorobenzene (Surr)	102	70 - 130	03/24/22 01:14 1
Method: Total BTEX - Total BTEX	Calculation		

	RL MDI	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX <0.000657 U 0.00	0.000657	mg/L			03/24/22 16:40	1

Client Sample ID: MW-4 Lab Sample ID: 820-3678-3 Date Collected: 03/14/22 16:45 **Matrix: Water** 

Date Received: 03/16/22 11:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000993	U	0.000181	0.0000993	mg/L		03/18/22 19:48	03/21/22 13:48	1
Acenaphthylene	<0.000836	U	0.000181	0.0000836	mg/L		03/18/22 19:48	03/21/22 13:48	1
Anthracene	<0.0000894	U	0.000181	0.0000894	mg/L		03/18/22 19:48	03/21/22 13:48	1
Benzo[a]anthracene	<0.000133	U	0.000181	0.000133	mg/L		03/18/22 19:48	03/21/22 13:48	1
Benzo[a]pyrene	< 0.0000567	U	0.000181	0.0000567	mg/L		03/18/22 19:48	03/21/22 13:48	1
Benzo[b]fluoranthene	<0.0000695	U	0.000181	0.0000695	mg/L		03/18/22 19:48	03/21/22 13:48	1
Benzo[g,h,i]perylene	<0.000112	U	0.000181	0.000112	mg/L		03/18/22 19:48	03/21/22 13:48	1
Benzo[k]fluoranthene	<0.000115	U	0.000181	0.000115	mg/L		03/18/22 19:48	03/21/22 13:48	1
Chrysene	<0.000155	U	0.000181	0.000155	mg/L		03/18/22 19:48	03/21/22 13:48	1
Dibenz(a,h)anthracene	<0.0000755	U	0.000181	0.0000755	mg/L		03/18/22 19:48	03/21/22 13:48	1

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

SDG: AR227008

Client Sample ID: MW-4

Lab Sample ID: 820-3678-3

Date Collected: 03/14/22 16:45 Date Received: 03/16/22 11:56

Matrix: Water

Job ID: 820-3678-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)												
	Analyte	Result	Qualifier	RL	MDL	Unit	D	F				
	Dibenzofuran	<0.0000993	U	0.000181	0.0000993	mg/L		03/1				
	Fluoranthene	< 0.000156	U	0.000181	0.000156	mg/L		03/				

ı	Analyte	Result	Qualifier	KL	MDL	Unit	U	Prepared	Anaiyzed	DII Fac
	Dibenzofuran	<0.0000993	U	0.000181	0.0000993	mg/L		03/18/22 19:48	03/21/22 13:48	1
	Fluoranthene	<0.000156	U	0.000181	0.000156	mg/L		03/18/22 19:48	03/21/22 13:48	1
I	Fluorene	<0.000100	U	0.000181	0.000100	mg/L		03/18/22 19:48	03/21/22 13:48	1
	Indeno[1,2,3-cd]pyrene	<0.0000906	U	0.000181	0.0000906	mg/L		03/18/22 19:48	03/21/22 13:48	1
	Naphthalene	<0.0000965	U	0.00361	0.0000965	mg/L		03/18/22 19:48	03/21/22 13:48	1
I	Phenanthrene	<0.0000844	U	0.000181	0.0000844	mg/L		03/18/22 19:48	03/21/22 13:48	1
	Pyrene	<0.000129	U	0.000181	0.000129	mg/L		03/18/22 19:48	03/21/22 13:48	1

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	157 S1	1+ 54 - 146	03/18/22 19:48	03/21/22 13:48	1
Nitrobenzene-d5	139	46 - 151	03/18/22 19:48	03/21/22 13:48	1
p-Terphenyl-d14	122	51 - 139	03/18/22 19:48	03/21/22 13:48	1

moniou. COLID Volunio Oi	guino compoundo (CC)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/24/22 01:34	1
Toluene	0.000368	J	0.00200	0.000367	mg/L			03/24/22 01:34	1
Ethylbenzene	< 0.000657	U	0.00200	0.000657	mg/L			03/24/22 01:34	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/24/22 01:34	1
o-Xylene	< 0.000642	U	0.00200	0.000642	mg/L			03/24/22 01:34	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/24/22 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130		03/24/22 01:34	1
1,4-Difluorobenzene (Surr)	105		70 - 130		03/24/22 01:34	1

Method: Tota	al BTEX - Total	I BTEX Calculation

Michiga. Total BTEX - Total BTEX C	aiculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/24/22 16:40	1

**Client Sample ID: MW-5** 

Date Collected: 03/14/22 17:30 Date Received: 03/16/22 11:56

Lab Sample ID: 820-3678-4

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000995	U	0.000181	0.0000995	mg/L		03/18/22 19:48	03/21/22 14:07	1
Acenaphthylene	<0.0000837	U	0.000181	0.0000837	mg/L		03/18/22 19:48	03/21/22 14:07	1
Anthracene	<0.0000895	U	0.000181	0.0000895	mg/L		03/18/22 19:48	03/21/22 14:07	1
Benzo[a]anthracene	<0.000133	U	0.000181	0.000133	mg/L		03/18/22 19:48	03/21/22 14:07	1
Benzo[a]pyrene	<0.0000568	U	0.000181	0.0000568	mg/L		03/18/22 19:48	03/21/22 14:07	1
Benzo[b]fluoranthene	<0.0000696	U	0.000181	0.0000696	mg/L		03/18/22 19:48	03/21/22 14:07	1
Benzo[g,h,i]perylene	<0.000112	U	0.000181	0.000112	mg/L		03/18/22 19:48	03/21/22 14:07	1
Benzo[k]fluoranthene	<0.000115	U	0.000181	0.000115	mg/L		03/18/22 19:48	03/21/22 14:07	1
Chrysene	<0.000155	U	0.000181	0.000155	mg/L		03/18/22 19:48	03/21/22 14:07	1
Dibenz(a,h)anthracene	<0.0000756	U	0.000181	0.0000756	mg/L		03/18/22 19:48	03/21/22 14:07	1
Dibenzofuran	<0.0000995	U	0.000181	0.0000995	mg/L		03/18/22 19:48	03/21/22 14:07	1
Fluoranthene	<0.000156	U	0.000181	0.000156	mg/L		03/18/22 19:48	03/21/22 14:07	1
Fluorene	<0.000100	U	0.000181	0.000100	mg/L		03/18/22 19:48	03/21/22 14:07	1
Indeno[1,2,3-cd]pyrene	<0.0000908	U	0.000181	0.0000908	mg/L		03/18/22 19:48	03/21/22 14:07	1
Naphthalene	< 0.0000967	U	0.00362	0.0000967	mg/L		03/18/22 19:48	03/21/22 14:07	1

Client: Terracon Consulting Eng & Scientists

SDG: AR227008

Job ID: 820-3678-1 Project/Site: DCP #2 **Client Sample ID: MW-5** 

Lab Sample ID: 820-3678-4

Matrix: Water

Date Collected: 03/14/22 17:30 Date Received: 03/16/22 11:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.0000845	U	0.000181	0.0000845	mg/L		03/18/22 19:48	03/21/22 14:07	1
Pyrene	<0.000129	U	0.000181	0.000129	mg/L		03/18/22 19:48	03/21/22 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	155	S1+	54 - 146				03/18/22 19:48	03/21/22 14:07	1
Nitrobenzene-d5	139		46 - 151				03/18/22 19:48	03/21/22 14:07	1
p-Terphenyl-d14	119		51 <sub>-</sub> 139				03/18/22 19:48	03/21/22 14:07	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00250		0.00200	0.000408	mg/L			03/24/22 01:55	1
Toluene	< 0.000367	U	0.00200	0.000367	mg/L			03/24/22 01:55	1
Ethylbenzene	0.00107	J	0.00200	0.000657	mg/L			03/24/22 01:55	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/24/22 01:55	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/24/22 01:55	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/24/22 01:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			_		03/24/22 01:55	1
1,4-Difluorobenzene (Surr)	101		70 - 130					03/24/22 01:55	1

Method: Total BTEX - Total BTEX C	alculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00357	J	0.00400	0.000657	mg/L			03/24/22 16:40	1

**Client Sample ID: MW-6** Lab Sample ID: 820-3678-5 Date Collected: 03/14/22 11:20 **Matrix: Water** 

Date Received: 03/16/22 11:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000993	U	0.000181	0.0000993	mg/L		03/18/22 19:48	03/21/22 14:27	1
Acenaphthylene	<0.000836	U	0.000181	0.0000836	mg/L		03/18/22 19:48	03/21/22 14:27	1
Anthracene	<0.0000894	U	0.000181	0.0000894	mg/L		03/18/22 19:48	03/21/22 14:27	1
Benzo[a]anthracene	<0.000133	U	0.000181	0.000133	mg/L		03/18/22 19:48	03/21/22 14:27	1
Benzo[a]pyrene	< 0.0000567	U	0.000181	0.0000567	mg/L		03/18/22 19:48	03/21/22 14:27	1
Benzo[b]fluoranthene	<0.0000695	U	0.000181	0.0000695	mg/L		03/18/22 19:48	03/21/22 14:27	1
Benzo[g,h,i]perylene	<0.000112	U	0.000181	0.000112	mg/L		03/18/22 19:48	03/21/22 14:27	1
Benzo[k]fluoranthene	<0.000115	U	0.000181	0.000115	mg/L		03/18/22 19:48	03/21/22 14:27	1
Chrysene	<0.000155	U	0.000181	0.000155	mg/L		03/18/22 19:48	03/21/22 14:27	1
Dibenz(a,h)anthracene	<0.0000755	U	0.000181	0.0000755	mg/L		03/18/22 19:48	03/21/22 14:27	1
Dibenzofuran	<0.0000993	U	0.000181	0.0000993	mg/L		03/18/22 19:48	03/21/22 14:27	1
Fluoranthene	<0.000156	U	0.000181	0.000156	mg/L		03/18/22 19:48	03/21/22 14:27	1
Fluorene	<0.000100	U	0.000181	0.000100	mg/L		03/18/22 19:48	03/21/22 14:27	1
Indeno[1,2,3-cd]pyrene	<0.0000906	U	0.000181	0.0000906	mg/L		03/18/22 19:48	03/21/22 14:27	1
Naphthalene	<0.0000965	U	0.00361	0.0000965	mg/L		03/18/22 19:48	03/21/22 14:27	1
Phenanthrene	<0.000844	U	0.000181	0.0000844	mg/L		03/18/22 19:48	03/21/22 14:27	1
Pyrene	<0.000129	U	0.000181	0.000129	mg/L		03/18/22 19:48	03/21/22 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	153	S1+	54 - 146				03/18/22 19:48	03/21/22 14:27	1

Client: Terracon Consulting Eng & Scientists

SDG: AR227008

Job ID: 820-3678-1

Project/Site: DCP #2

Lab Sample ID: 820-3678-5

**Client Sample ID: MW-6** Date Collected: 03/14/22 11:20 Date Received: 03/16/22 11:56

**Matrix: Water** 

#### Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	137		46 - 151	03/18/22 19:48	03/21/22 14:27	1
p-Terphenyl-d14	79		51 - 139	03/18/22 19:48	03/21/22 14:27	1

Method: 8021B - Vol	Intila Organia	Compounde	CC
WELLIOU. OUZ ID - VO	iatile Organic	Compounds	GUI

wiethod: 8021B - Volatile Orga	mic Compounds (	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/24/22 02:15	1
Toluene	0.000511	J	0.00200	0.000367	mg/L			03/24/22 02:15	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/24/22 02:15	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/24/22 02:15	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/24/22 02:15	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/24/22 02:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			_		03/24/22 02:15	1

#### **Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/24/22 16:40	1

70 - 130

Client Sample ID: MW-7

1,4-Difluorobenzene (Surr)

Date Collected: 03/14/22 12:30 Date Received: 03/16/22 11:56

Lab Sample ID: 820-3678-6

03/24/22 02:15

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000996	U	0.000181	0.0000996	mg/L		03/18/22 19:48	03/21/22 14:46	1
Acenaphthylene	<0.0000839	U	0.000181	0.0000839	mg/L		03/18/22 19:48	03/21/22 14:46	1
Anthracene	<0.0000897	U	0.000181	0.0000897	mg/L		03/18/22 19:48	03/21/22 14:46	1
Benzo[a]anthracene	<0.000134	U	0.000181	0.000134	mg/L		03/18/22 19:48	03/21/22 14:46	1
Benzo[a]pyrene	<0.0000569	U	0.000181	0.0000569	mg/L		03/18/22 19:48	03/21/22 14:46	1
Benzo[b]fluoranthene	<0.0000697	U	0.000181	0.0000697	mg/L		03/18/22 19:48	03/21/22 14:46	1
Benzo[g,h,i]perylene	<0.000113	U	0.000181	0.000113	mg/L		03/18/22 19:48	03/21/22 14:46	1
Benzo[k]fluoranthene	<0.000116	U	0.000181	0.000116	mg/L		03/18/22 19:48	03/21/22 14:46	1
Chrysene	<0.000155	U	0.000181	0.000155	mg/L		03/18/22 19:48	03/21/22 14:46	1
Dibenz(a,h)anthracene	<0.0000757	U	0.000181	0.0000757	mg/L		03/18/22 19:48	03/21/22 14:46	1
Dibenzofuran	<0.0000996	U	0.000181	0.0000996	mg/L		03/18/22 19:48	03/21/22 14:46	1
Fluoranthene	<0.000156	U	0.000181	0.000156	mg/L		03/18/22 19:48	03/21/22 14:46	1
Fluorene	<0.000101	U	0.000181	0.000101	mg/L		03/18/22 19:48	03/21/22 14:46	1
Indeno[1,2,3-cd]pyrene	<0.0000910	U	0.000181	0.0000910	mg/L		03/18/22 19:48	03/21/22 14:46	1
Naphthalene	<0.0000968	U	0.00363	0.0000968	mg/L		03/18/22 19:48	03/21/22 14:46	1
Phenanthrene	<0.0000847	U	0.000181	0.0000847	mg/L		03/18/22 19:48	03/21/22 14:46	1
Pyrene	<0.000130	U	0.000181	0.000130	mg/L		03/18/22 19:48	03/21/22 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	158	S1+	54 - 146				03/18/22 19:48	03/21/22 14:46	1
Nitrobenzene-d5	137		46 - 151				03/18/22 19:48	03/21/22 14:46	1

51 - 139

95

**Eurofins Lubbock** 

p-Terphenyl-d14

Client: Terracon Consulting Eng & Scientists

SDG: AR227008

Project/Site: DCP #2

Lab Sample ID: 820-3678-6

Date Collected: 03/14/22 12:30 Date Received: 03/16/22 11:56

**Client Sample ID: MW-7** 

Matrix: Water

Job ID: 820-3678-1

Method: 8021B - Volatile Organic Comp	ound	is (	GC	)
	_		_	

Welliou. 002 ID - Volatile Orga	inc compounds (	(60)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/25/22 05:30	1
Toluene	0.000674	J F2 F1	0.00200	0.000367	mg/L			03/25/22 05:30	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/25/22 05:30	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/25/22 05:30	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/25/22 05:30	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/25/22 05:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130					03/25/22 05:30	1
1,4-Difluorobenzene (Surr)	106		70 - 130					03/25/22 05:30	1

**Method: Total BTEX - Total BTEX Calculation** 

Analyte	Result Qualif	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000674 J	0.00400	0.000657	mg/L			03/24/22 16:40	1

**Client Sample ID: MW-8** Lab Sample ID: 820-3678-7 Date Collected: 03/14/22 13:35

**Matrix: Water** 

Date Received: 03/16/22 11:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000100	U	0.000182	0.000100	mg/L		03/18/22 19:48	03/21/22 15:05	1
Acenaphthylene	<0.0000842	U	0.000182	0.0000842	mg/L		03/18/22 19:48	03/21/22 15:05	1
Anthracene	<0.0000900	U	0.000182	0.0000900	mg/L		03/18/22 19:48	03/21/22 15:05	1
Benzo[a]anthracene	<0.000134	U	0.000182	0.000134	mg/L		03/18/22 19:48	03/21/22 15:05	1
Benzo[a]pyrene	<0.0000571	U	0.000182	0.0000571	mg/L		03/18/22 19:48	03/21/22 15:05	1
Benzo[b]fluoranthene	<0.000700	U	0.000182	0.0000700	mg/L		03/18/22 19:48	03/21/22 15:05	1
Benzo[g,h,i]perylene	<0.000113	U	0.000182	0.000113	mg/L		03/18/22 19:48	03/21/22 15:05	1
Benzo[k]fluoranthene	<0.000116	U	0.000182	0.000116	mg/L		03/18/22 19:48	03/21/22 15:05	1
Chrysene	<0.000156	U	0.000182	0.000156	mg/L		03/18/22 19:48	03/21/22 15:05	1
Dibenz(a,h)anthracene	<0.000760	U	0.000182	0.0000760	mg/L		03/18/22 19:48	03/21/22 15:05	1
Dibenzofuran	<0.000100	U	0.000182	0.000100	mg/L		03/18/22 19:48	03/21/22 15:05	1
Fluoranthene	<0.000157	U	0.000182	0.000157	mg/L		03/18/22 19:48	03/21/22 15:05	1
Fluorene	<0.000101	U	0.000182	0.000101	mg/L		03/18/22 19:48	03/21/22 15:05	1
Indeno[1,2,3-cd]pyrene	<0.0000913	U	0.000182	0.0000913	mg/L		03/18/22 19:48	03/21/22 15:05	1
Naphthalene	<0.0000972	U	0.00364	0.0000972	mg/L		03/18/22 19:48	03/21/22 15:05	1
Phenanthrene	<0.000850	U	0.000182	0.0000850	mg/L		03/18/22 19:48	03/21/22 15:05	1
Pyrene	<0.000130	U	0.000182	0.000130	mg/L		03/18/22 19:48	03/21/22 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	156	S1+	54 - 146				03/18/22 19:48	03/21/22 15:05	1

Surrogate	%Recovery	Qualifier	Limits		Preparea	Anaiyzea	DII Fac
2-Fluorobiphenyl	156	S1+	54 - 146	03.	/18/22 19:48	03/21/22 15:05	1
Nitrobenzene-d5	134		46 - 151	03.	/18/22 19:48	03/21/22 15:05	1
p-Terphenyl-d14	91		51 - 139	03.	/18/22 19:48	03/21/22 15:05	1

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

		( /							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/25/22 05:51	1
Toluene	0.000393	J	0.00200	0.000367	mg/L			03/25/22 05:51	1
Ethylbenzene	< 0.000657	U	0.00200	0.000657	mg/L			03/25/22 05:51	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/25/22 05:51	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/25/22 05:51	1

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-3678-1 SDG: AR227008

SDG: AR227008

Client Sample ID: MW-8

Date Collected: 03/14/22 13:35 Date Received: 03/16/22 11:56 **Lab Sample ID: 820-3678-7** 

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/25/22 05:51	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	109		70 - 130			_		03/25/22 05:51	1	
1 4-Difluorobenzene (Surr)	105		70 130					03/25/22 05:51	1	

Method: Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/24/22 16:40	1	

5

7

8

9

1 4

12

14

## **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-3678-1 SDG: AR227008

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
		FBP	NBZ	TPHd14				
Lab Sample ID	Client Sample ID	(54-146)	(46-151)	(51-139)				
820-3678-1	MW-2	133	121	100				
820-3678-2	MW-3	163 S1+	143	128				
820-3678-3	MW-4	157 S1+	139	122				
820-3678-4	MW-5	155 S1+	139	119				
820-3678-5	MW-6	153 S1+	137	79				
820-3678-6	MW-7	158 S1+	137	95				
820-3678-7	MW-8	156 S1+	134	91				
LCS 860-45602/2-A	Lab Control Sample	128	128	126				
LCSD 860-45602/3-A	Lab Control Sample Dup	137	138	130				
MB 860-45602/1-A	Method Blank	146	132	147 S1+				

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPHd14 = p-Terphenyl-d14

Method: 8021B - Volatile Organic Compounds (GC)

**Matrix: Water** Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-3678-1	MW-2	106	102	
820-3678-1 MS	MW-2	94	102	
820-3678-1 MSD	MW-2	91	101	
320-3678-2	MW-3	108	102	
820-3678-3	MW-4	111	105	
320-3678-4	MW-5	103	101	
820-3678-5	MW-6	109	104	
820-3678-6	MW-7	110	106	
820-3678-6 MS	MW-7	98	102	
320-3678-6 MSD	MW-7	97	101	
820-3678-7	MW-8	109	105	
_CS 880-22187/34	Lab Control Sample	96	101	
_CS 880-22265/34	Lab Control Sample	99	103	
_CSD 880-22187/35	Lab Control Sample Dup	92	103	
LCSD 880-22265/35	Lab Control Sample Dup	101	107	
MB 880-21823/5-A	Method Blank	98	102	
MB 880-21852/5-A	Method Blank	99	101	
MB 880-22187/39	Method Blank	99	98	
MB 880-22265/39	Method Blank	98	101	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Client: Terracon Consulting Eng & Scientists Job ID: 820-3678-1 Project/Site: DCP #2 SDG: AR227008

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

%Recovery Qualifier

147 S1+

146

132

Lab Sample ID: MB 860-45602/1-A

Analysis Batch: 45678

**Matrix: Water** 

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

Prep Batch: 45602

•	
Analyzed	Dil Fac
03/21/22 11:13	1
03/21/22 11:13	1
03/21/22 11:13	1

Dil Fac

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45602

Analyzed

03/21/22 11:13

03/21/22 11:13

03/21/22 11:13

Prepared

03/18/22 19:48

03/18/22 19:48

03/18/22 19:48

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000100	U	0.000182	0.000100	mg/L		03/18/22 19:48	03/21/22 11:13	1
Acenaphthylene	<0.0000844	U	0.000182	0.0000844	mg/L		03/18/22 19:48	03/21/22 11:13	1
Anthracene	<0.0000902	U	0.000182	0.0000902	mg/L		03/18/22 19:48	03/21/22 11:13	1
Benzo[a]anthracene	<0.000134	U	0.000182	0.000134	mg/L		03/18/22 19:48	03/21/22 11:13	1
Benzo[a]pyrene	<0.0000572	U	0.000182	0.0000572	mg/L		03/18/22 19:48	03/21/22 11:13	1
Benzo[b]fluoranthene	<0.0000701	U	0.000182	0.0000701	mg/L		03/18/22 19:48	03/21/22 11:13	1
Benzo[g,h,i]perylene	<0.000113	U	0.000182	0.000113	mg/L		03/18/22 19:48	03/21/22 11:13	1
Benzo[k]fluoranthene	<0.000116	U	0.000182	0.000116	mg/L		03/18/22 19:48	03/21/22 11:13	1
Chrysene	<0.000156	U	0.000182	0.000156	mg/L		03/18/22 19:48	03/21/22 11:13	1
Dibenz(a,h)anthracene	<0.0000761	U	0.000182	0.0000761	mg/L		03/18/22 19:48	03/21/22 11:13	1
Dibenzofuran	<0.000100	U	0.000182	0.000100	mg/L		03/18/22 19:48	03/21/22 11:13	•
Fluoranthene	<0.000157	U	0.000182	0.000157	mg/L		03/18/22 19:48	03/21/22 11:13	•
Fluorene	<0.000101	U	0.000182	0.000101	mg/L		03/18/22 19:48	03/21/22 11:13	
Indeno[1,2,3-cd]pyrene	<0.0000915	U	0.000182	0.0000915	mg/L		03/18/22 19:48	03/21/22 11:13	•
Naphthalene	<0.0000974	U	0.00365	0.0000974	mg/L		03/18/22 19:48	03/21/22 11:13	•
Phenanthrene	<0.0000852	U	0.000182	0.0000852	mg/L		03/18/22 19:48	03/21/22 11:13	1
Pyrene	<0.000130	U	0.000182	0.000130	mg/L		03/18/22 19:48	03/21/22 11:13	1
	MB	МВ							

Limits

54 - 146

46 - 151

51 - 139

Lab Sample ID: LCS 860-45602/2-A

**Matrix: Water** 

Surrogate

2-Fluorobiphenyl

Nitrobenzene-d5

p-Terphenyl-d14

**Analysis Batch: 45678** 

Alialysis Datcii. 43070							Fieb De	ALCII. 43002
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acenaphthene	0.0181	0.02201		mg/L		121	66 - 174	
Acenaphthylene	0.0181	0.02182		mg/L		120	67 - 182	
Anthracene	0.0181	0.02430		mg/L		134	55 <sub>-</sub> 191	
Benzo[a]anthracene	0.0181	0.02211		mg/L		122	16 _ 171	
Benzo[a]pyrene	0.0181	0.02419		mg/L		133	10 _ 165	
Benzo[b]fluoranthene	0.0181	0.02551		mg/L		141	10 - 166	
Benzo[g,h,i]perylene	0.0181	0.02273		mg/L		125	10 - 154	
Benzo[k]fluoranthene	0.0181	0.02349		mg/L		129	10 _ 178	
Chrysene	0.0181	0.02178		mg/L		120	10 _ 172	
Dibenz(a,h)anthracene	0.0181	0.02433		mg/L		134	10 - 168	
Dibenzofuran	0.0181	0.02248		mg/L		124	68 _ 178	
Fluoranthene	0.0181	0.02444		mg/L		135	52 - 185	
Fluorene	0.0181	0.02273		mg/L		125	64 - 184	
Indeno[1,2,3-cd]pyrene	0.0181	0.02677		mg/L		147	10 - 160	
Naphthalene	0.0181	0.02094		mg/L		115	66 - 166	
Phenanthrene	0.0181	0.02248		mg/L		124	66 - 184	
Pyrene	0.0181	0.02268		mg/L		125	58 - 181	

LCS LCS Surrogate %Recovery Qualifier Limits 2-Fluorobiphenyl 128 54 - 146

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-3678-1 SDG: AR227008

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 860-45602/2-A

Lab Sample ID: LCSD 860-45602/3-A

**Matrix: Water** 

**Matrix: Water** 

Analysis Batch: 45678

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45602

LCS LCS

Surrogate	%Recovery Qu	ualifier	Limits
Nitrobenzene-d5	128		46 - 151
p-Terphenyl-d14	126		51 - 139

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 45678						Prep	Batch:	45602	
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthene	0.0182	0.02457		mg/L		135	66 - 174	11	40
Acenaphthylene	0.0182	0.02456		mg/L		135	67 - 182	12	40
Anthracene	0.0182	0.02695		mg/L		148	55 - 191	10	40
Benzo[a]anthracene	0.0182	0.02296		mg/L		126	16 - 171	4	50
Benzo[a]pyrene	0.0182	0.02409		mg/L		132	10 - 165	0	50
Benzo[b]fluoranthene	0.0182	0.02579		mg/L		141	10 - 166	1	50
Benzo[g,h,i]perylene	0.0182	0.02223		mg/L		122	10 - 154	2	50
Benzo[k]fluoranthene	0.0182	0.02318		mg/L		127	10 - 178	1	50
Chrysene	0.0182	0.02285		mg/L		125	10 - 172	5	50
Dibenz(a,h)anthracene	0.0182	0.02392		mg/L		131	10 - 168	2	50
Dibenzofuran	0.0182	0.02503		mg/L		137	68 - 178	11	40
Fluoranthene	0.0182	0.02665		mg/L		146	52 - 185	9	40
Fluorene	0.0182	0.02523		mg/L		138	64 - 184	10	40
Indeno[1,2,3-cd]pyrene	0.0182	0.02634		mg/L		144	10 - 160	2	50
Naphthalene	0.0182	0.02428		mg/L		133	66 - 166	15	40
Phenanthrene	0.0182	0.02483		mg/L		136	66 - 184	10	40
Pyrene	0.0182	0.02543		mg/L		139	58 <sub>-</sub> 181	11	40

LCSD LCSD

Surrogate	%Recovery Qualifie	er Limits
2-Fluorobiphenyl	137	54 - 146
Nitrobenzene-d5	138	46 - 151
p-Terphenyl-d14	130	51 - 139

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21823/5-A

**Matrix: Water** 

**Analysis Batch: 22265** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21823


Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/24/22 07:30	03/24/22 17:25	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/24/22 07:30	03/24/22 17:25	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/24/22 07:30	03/24/22 17:25	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/24/22 07:30	03/24/22 17:25	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/24/22 07:30	03/24/22 17:25	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/24/22 07:30	03/24/22 17:25	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/24/22 07:30	03/24/22 17:25	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/24/22 07:30	03/24/22 17:25	1

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-3678-1

SDG: AR227008

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

Lab Sample ID: MB 880-21852/5-A

**Matrix: Water** 

**Analysis Batch: 22187** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21852

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/23/22 07:30	03/23/22 12:49	1
Toluene	< 0.000367	U	0.00200	0.000367	mg/L		03/23/22 07:30	03/23/22 12:49	1
Ethylbenzene	< 0.000657	U	0.00200	0.000657	mg/L		03/23/22 07:30	03/23/22 12:49	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/23/22 07:30	03/23/22 12:49	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/23/22 07:30	03/23/22 12:49	1
Xylenes, Total	< 0.000642	U	0.00400	0.000642	mg/L		03/23/22 07:30	03/23/22 12:49	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1.4-Difluorobenzene (Surr)	101		70 - 130

03/23/22 07:30 03/23/22 12:49 03/23/22 07:30 03/23/22 12:49

Analyzed

Prepared

Lab Sample ID: MB 880-22187/39 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 22187

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/24/22 00:25	1
Toluene	< 0.000367	U	0.00200	0.000367	mg/L			03/24/22 00:25	1
Ethylbenzene	< 0.000657	U	0.00200	0.000657	mg/L			03/24/22 00:25	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/24/22 00:25	1
o-Xylene	< 0.000642	U	0.00200	0.000642	mg/L			03/24/22 00:25	1
Xylenes, Total	< 0.000642	U	0.00400	0.000642	mg/L			03/24/22 00:25	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130		03/24/22 00:25	1
1,4-Difluorobenzene (Surr)	98	70 - 130		03/24/22 00:25	1

Lab Sample ID: LCS 880-22187/34

**Matrix: Water** 

**Analysis Batch: 22187** 

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

Client Sample ID: Lab Control Sample Dup

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08615		mg/L		86	70 - 130	
Toluene	0.100	0.08619		mg/L		86	70 - 130	
Ethylbenzene	0.100	0.08574		mg/L		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1982		mg/L		99	70 - 130	
o-Xylene	0.100	0.1001		mg/L		100	70 - 130	

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-22187/35

**Matrix: Water** 

**Analysis Batch: 22187** 

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08363		mg/L		84	70 - 130	3	20

**Eurofins Lubbock** 

Prep Type: Total/NA

Dil Fac

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-3678-1 SDG: AR227008

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

Lab Sample ID: LCSD 880-22187/35

**Matrix: Water** 

Client Sample ID: Lab Control Sample Dup

70 - 130

Prep Type: Total/NA

**Analysis Batch: 22187** 

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08001		mg/L		80	70 - 130	7	20
Ethylbenzene	0.100	0.08117		mg/L		81	70 - 130	5	20
m-Xylene & p-Xylene	0.200	0.1853		mg/L		93	70 - 130	7	20
o-Xylene	0.100	0.09285		mg/L		93	70 - 130	8	20

mg/L

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 820-3678-1 MS Client Sample ID: MW-2 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 22187

MS MS %Rec. Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.000408 0.100 0.08313 83 mg/L 70 - 130 Toluene <0.000367 U 0.100 0.08127 81 70 - 130 mg/L Ethylbenzene <0.000657 U 0.100 0.08213 70 - 130 mg/L 82 m-Xylene & p-Xylene <0.000629 U 0.200 0.1928 70 - 130 mg/L 96

0.09702

0.100

MS MS

<0.000642 U

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: 820-3678-1 MSD Client Sample ID: MW-2 Prep Type: Total/NA

**Matrix: Water** 

o-Xylene

Analysis Batch: 22187

_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.000408	U	0.100	0.08182		mg/L		82	70 - 130	2	25
Toluene	< 0.000367	U	0.100	0.08165		mg/L		82	70 - 130	0	25
Ethylbenzene	<0.000657	U	0.100	0.08230		mg/L		82	70 - 130	0	25
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1921		mg/L		96	70 - 130	0	25
o-Xylene	<0.000642	U	0.100	0.09529		mg/L		95	70 - 130	2	25

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: MB 880-22265/39 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 22265

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/25/22 05:02	1
Toluene	< 0.000367	U	0.00200	0.000367	mg/L			03/25/22 05:02	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/25/22 05:02	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/25/22 05:02	1

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-3678-1

SDG: AR227008

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

Lab Sample ID: MB 880-22265/39

**Matrix: Water** 

Analysis Batch: 22265

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/25/22 05:02	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/25/22 05:02	1

мв мв

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130		03/25/22 05:02	1
1,4-Difluorobenzene (Surr)	101		70 - 130		03/25/22 05:02	1

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 22265** 

Lab Sample ID: LCS 880-22265/34

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08847	-	mg/L		88	70 - 130	
Toluene	0.100	0.08497		mg/L		85	70 - 130	
Ethylbenzene	0.100	0.09013		mg/L		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.2092		mg/L		105	70 - 130	
o-Xylene	0.100	0.1045		mg/L		105	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 22265

**Matrix: Water** 

Lab Sample ID: LCSD 880-22265/35

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09222		mg/L		92	70 - 130	4	20	
Toluene	0.100	0.08628		mg/L		86	70 - 130	2	20	
Ethylbenzene	0.100	0.08990		mg/L		90	70 - 130	0	20	
m-Xylene & p-Xylene	0.200	0.2081		mg/L		104	70 - 130	1	20	
o-Xylene	0.100	0.1047		mg/L		105	70 - 130	0	20	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1.4-Difluorobenzene (Surr)	107	70 <sub>-</sub> 130

Lab Sample ID: 820-3678-6 MS Client Sample ID: MW-7 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 22265

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.000408	U	0.100	0.09033		mg/L		90	70 - 130	
Toluene	0.000674	J F2 F1	0.100	0.08631		mg/L		86	70 - 130	
Ethylbenzene	<0.000657	U	0.100	0.09064		mg/L		91	70 - 130	
m-Xylene & p-Xylene	<0.000629	U	0.200	0.2108		mg/L		105	70 - 130	
o-Xylene	<0.000642	U	0.100	0.1046		mg/L		105	70 - 130	

Client: Terracon Consulting Eng & Scientists

Job ID: 820-3678-1 Project/Site: DCP #2 SDG: AR227008

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

Lab Sample ID: 820-3678-6 MS

**Matrix: Water** 

Analysis Batch: 22265

Client Sample ID: MW-7 Prep Type: Total/NA

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 98 70 - 130 1,4-Difluorobenzene (Surr) 102 70 - 130

Lab Sample ID: 820-3678-6 MSD

**Matrix: Water** 

**Analysis Batch: 22265** 

Client Sample ID: MW-7 Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.000408	U	0.100	0.09011		mg/L		90	70 - 130	0	25
Toluene	0.000674	J F2 F1	0.100	0.03878	F2 F1	mg/L		38	70 - 130	76	25
Ethylbenzene	<0.000657	U	0.100	0.08917		mg/L		89	70 - 130	2	25
m-Xylene & p-Xylene	<0.000629	U	0.200	0.2073		mg/L		104	70 - 130	2	25
o-Xylene	<0.000642	U	0.100	0.1026		mg/L		103	70 - 130	2	25

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-3678-1 SDG: AR227008

## GC/MS Semi VOA

## Prep Batch: 45602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3678-1	MW-2	Total/NA	Water	3511	
820-3678-2	MW-3	Total/NA	Water	3511	
820-3678-3	MW-4	Total/NA	Water	3511	
820-3678-4	MW-5	Total/NA	Water	3511	
820-3678-5	MW-6	Total/NA	Water	3511	
820-3678-6	MW-7	Total/NA	Water	3511	
820-3678-7	MW-8	Total/NA	Water	3511	
MB 860-45602/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-45602/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-45602/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

## **Analysis Batch: 45678**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3678-1	MW-2	Total/NA	Water	8270D SIM	45602
820-3678-2	MW-3	Total/NA	Water	8270D SIM	45602
820-3678-3	MW-4	Total/NA	Water	8270D SIM	45602
820-3678-4	MW-5	Total/NA	Water	8270D SIM	45602
820-3678-5	MW-6	Total/NA	Water	8270D SIM	45602
820-3678-6	MW-7	Total/NA	Water	8270D SIM	45602
820-3678-7	MW-8	Total/NA	Water	8270D SIM	45602
MB 860-45602/1-A	Method Blank	Total/NA	Water	8270D SIM	45602
LCS 860-45602/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	45602
LCSD 860-45602/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	45602

## **GC VOA**

## Prep Batch: 21823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21823/5-A	Method Blank	Total/NA	Water	5035	

## Prep Batch: 21852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21852/5-A	Method Blank	Total/NA	Water	5035	

#### **Analysis Batch: 22187**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3678-1	MW-2	Total/NA	Water	8021B	
820-3678-2	MW-3	Total/NA	Water	8021B	
820-3678-3	MW-4	Total/NA	Water	8021B	
820-3678-4	MW-5	Total/NA	Water	8021B	
820-3678-5	MW-6	Total/NA	Water	8021B	
MB 880-21852/5-A	Method Blank	Total/NA	Water	8021B	21852
MB 880-22187/39	Method Blank	Total/NA	Water	8021B	
LCS 880-22187/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-22187/35	Lab Control Sample Dup	Total/NA	Water	8021B	
820-3678-1 MS	MW-2	Total/NA	Water	8021B	
820-3678-1 MSD	MW-2	Total/NA	Water	8021B	

## Analysis Batch: 22265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3678-6	MW-7	Total/NA	Water	8021B	

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1 SDG: AR227008

## **GC VOA (Continued)**

## **Analysis Batch: 22265 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3678-7	MW-8	Total/NA	Water	8021B	
MB 880-21823/5-A	Method Blank	Total/NA	Water	8021B	21823
MB 880-22265/39	Method Blank	Total/NA	Water	8021B	
LCS 880-22265/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-22265/35	Lab Control Sample Dup	Total/NA	Water	8021B	
820-3678-6 MS	MW-7	Total/NA	Water	8021B	
820-3678-6 MSD	MW-7	Total/NA	Water	8021B	

## Analysis Batch: 22304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3678-1	MW-2	Total/NA	Water	Total BTEX	
820-3678-2	MW-3	Total/NA	Water	Total BTEX	
820-3678-3	MW-4	Total/NA	Water	Total BTEX	
820-3678-4	MW-5	Total/NA	Water	Total BTEX	
820-3678-5	MW-6	Total/NA	Water	Total BTEX	
820-3678-6	MW-7	Total/NA	Water	Total BTEX	
820-3678-7	MW-8	Total/NA	Water	Total BTEX	

Eurofins Lubbock

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Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-3678-1 SDG: AR227008

**Client Sample ID: MW-2** 

Lab Sample ID: 820-3678-1

**Matrix: Water** 

Date Collected: 03/14/22 14:35 Date Received: 03/16/22 11:56

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.5 mL	2 mL	45602	03/18/22 19:48	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			45678	03/21/22 13:09	IS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	22187	03/24/22 00:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22304	03/24/22 16:40	AJ	XEN MID

Lab Sample ID: 820-3678-2

Matrix: Water

Date Collected: 03/14/22 15:30 Date Received: 03/16/22 11:56

**Client Sample ID: MW-3** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.2 mL	2 mL	45602	03/18/22 19:48	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			45678	03/21/22 13:28	IS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	22187	03/24/22 01:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22304	03/24/22 16:40	AJ	XEN MID

Client Sample ID: MW-4 Lab Sample ID: 820-3678-3 Date Collected: 03/14/22 16:45

**Matrix: Water** 

Date Received: 03/16/22 11:56

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.4 mL	2 mL	45602	03/18/22 19:48	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			45678	03/21/22 13:48	IS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	22187	03/24/22 01:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22304	03/24/22 16:40	AJ	XEN MID

**Client Sample ID: MW-5** Lab Sample ID: 820-3678-4

Date Collected: 03/14/22 17:30 **Matrix: Water** Date Received: 03/16/22 11:56

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.3 mL	2 mL	45602	03/18/22 19:48	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			45678	03/21/22 14:07	IS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	22187	03/24/22 01:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22304	03/24/22 16:40	AJ	XEN MID

**Client Sample ID: MW-6** Lab Sample ID: 820-3678-5

Date Collected: 03/14/22 11:20 Matrix: Water Date Received: 03/16/22 11:56

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.4 mL	2 mL	45602	03/18/22 19:48	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			45678	03/21/22 14:27	IS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	22187	03/24/22 02:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22304	03/24/22 16:40	AJ	XEN MID

## **Lab Chronicle**

Client: Terracon Consulting Eng & Scientists

Job ID: 820-3678-1 SDG: AR227008

Project/Site: DCP #2

Lab Sample ID: 820-3678-6

**Client Sample ID: MW-7** Date Collected: 03/14/22 12:30

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.2 mL	2 mL	45602	03/18/22 19:48	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			45678	03/21/22 14:46	IS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	22265	03/25/22 05:30	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			22304	03/24/22 16:40	AJ	XEN MID

Lab Sample ID: 820-3678-7

**Client Sample ID: MW-8** Date Collected: 03/14/22 13:35 Matrix: Water

Date Received: 03/16/22 11:56

Date Received: 03/16/22 11:56

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55 mL	2 mL	45602	03/18/22 19:48	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			45678	03/21/22 15:05	IS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	22265	03/25/22 05:51	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			22304	03/24/22 16:40	AJ	XEN MID

**Laboratory References:** 

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

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

## **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-3678-1

SDG: AR227008

## **Laboratory: Eurofins Houston**

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

Authority	Program	Identification Number	<b>Expiration Date</b>
Arkansas DEQ	State	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22
USDA	US Federal Programs	P330-22-00025	03-02-23

Analyte

Total BTEX

## **Laboratory: Eurofins Midland**

Analysis Method

Total BTEX

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

Prep Method

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are inclu	uded in this report, but the laboratory is not cert	tified by the governing authority. This list ma	ay include analytes for which
the agency does not offer certif	ication.		

Matrix

Water

## **Method Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-3678-1

SDG: AR227008

Method	Method Description	Protocol	Laboratory
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	XEN STF
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3511	Microextraction of Organic Compounds	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN MID

#### Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440 XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

## **Sample Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-3678-1 SDG: AR227008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-3678-1	MW-2	Water	03/14/22 14:35	03/16/22 11:56
820-3678-2	MW-3	Water	03/14/22 15:30	03/16/22 11:56
820-3678-3	MW-4	Water	03/14/22 16:45	03/16/22 11:56
820-3678-4	MW-5	Water	03/14/22 17:30	03/16/22 11:56
820-3678-5	MW-6	Water	03/14/22 11:20	03/16/22 11:56
820-3678-6	MW-7	Water	03/14/22 12:30	03/16/22 11:56
820-3678-7	MW-8	Water	03/14/22 13:35	03/16/22 11:56

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3678

Received by OCD: 4/17/2023 9:41:13 AM

Loc: 820 **3678** 

#### CHAIN OF CUSTODY RECORD

								Laboratory:	Xenc	0					ANAL							LAB USE ONLY DUE DATE:
	41							Address:		Abero					REQU	JESTE	<u> </u>					
				G					Lubb	ock, To	exas 7	9424										TEMP OF COOLER WHEN RECEIVED (°C) 3.9/4.1°C
Offic	e Location	n _	Lubbock					Phone:						.								
l		_						Contact:						.			l		ļ			Page <u>1</u> of <u>1</u>
	ct Manag		Brett De					SRS #:			009-0	39			_							
Samı	oler's Nam	ne i	Aaron A	dams	;			Sampler's Sig	nature	9					8021	1 8270						
Proje	ct Numbe	er			Project	Name					No. Ty	pe of (	Contain	ners	thod	thoc						
		AR227008					DCP #2				M	VOA			Me	Μ̈́						
Matrix	Date	Time	Comp	Grab		Identifying	Marks of Samp	ele(s)	Start Depth	End Depth	40 ml VOA	60 ml VC			BTEX (EPA Method 8021)	PAHs (EPA Method 8270)						Lab Sample ID
GW	3/14/2022	1435		х			MW-2				3	2			Х	х						
GW	3/14/2022	1530		х			MW-3				3	2			Х	Х						
GW	3/14/2022	1645		х			MW-4				3	2			Х	Х		Γ	110111111	111111111	11 <b>111 00</b> 11	112111 11111 21111 1211 1211 1211
GW	3/14/2022	1730		Х			MW-5				3	2			Х	х			Ш			
GW	3/14/2022	1120		x			MW-6				3	2			Х	Х			11111			
GW	3/14/2022	1230		Х			MW-7				3	2			Х	Х		[ ,	 	<b>        </b> 678.0		of Custody -
GW	3/14/2022	1335		X			MW-8		$oxed{oxed}$	_	3	2			х	х	_					
$\vdash \vdash$				$\bot$						_							_		_	$\dashv$		
$\vdash \vdash$			+	+-					-				-	Щ							_	
TURN	AROUND TI	ME			Normal	☐ 48-Hou	r Rush	24-Hour Rush		TRRP	Lahor	atory	Review	v Chec	klist		_	Yes	$\dashv$	No.		
_	hed by (Signatur		)		Titorinar	Date: 16/2-1	Time:	Received by (Signature)	1.1	Piro	ale		3/16	$\overline{}$	Toma:	Uc	NOTE				rectly	to Plains Pipeline
Relinqui	hed by (Signatur	e) C				Date:	Time:	Received by (Signature)					Date:		Time:		e-ma	il result		dennis	:@teri	racon.com
Relinqui	hed by (Signatur	e)				Date:	Time:	Received by (Signature)					Date:	$\neg \uparrow$	Time:				erin.lo	oyd@t	erraco	on.com
Relinqui	hed by (Signatur	e)				Date:	Time:	Received by (Signature)					Date:	-	Time:					nt@p: noa@;		
																			IIIaoci	ioaeoj	paarp.	i.com
Matrix Container		WW-Wastewater		W - W.	ater amber Glass 11	5 - Soil 250 ml • Gla	L Liquid	A - Air Bag P/O - Plastic or other	C - Charco	sal tube		SL - Słudge										
				.,				47 50th Stree	t = l	ubb	ock,	Texas	794	24 =	806	-300	-0140	)				
							Re	esponsive #	Reso	urce	fui <b>=</b>	Rel	iable									











# Page 61 of 174

## **Eurofins Lubbock**

6701 Aberdeen Ave. Suite 8 Lubbock TX 79424 Phone; 806-794-1296

## **Chain of Custody Record**



🔅 eurofins

Environment Testing America

Client Information (Sub Contract Lab)	Sampler		Lab.ºM: Kramer .	leccica		Carrier Tracking N	vo(s):	COC No: 820-3375,1		
Client Contact	Phone:		E-Mail:	3633106		State of Origin:		Page:		
Shipping/Receiving						Texas		Page 1 of 1		
Company: Eurofins Environment Testing South Centr				editations F .AP Tex	Required (See note):		Job#: 820-3678-1			
Address:	Due Date Requested:		1,42	211 10				Preservation Cod	es:	
4145 Greenbriar Dr	3/22/2022				Analysis Req	uested		A HCL	M Hexane	
Dity Stafford	TAT Requested (days):			<b>2</b> 2				B NeOH	N None	
State, Zip:	1			ē				C Zn Acetate D Nitric Acid	O AsNaO2 P Na2O4S	
TX, 77477				<u>S</u>				E NaHSO4 F MeOH	Q Na2SO3 R Na2S2O3	
Phone: 281-240-4200(Tel)	PO #:			NO) Aromatic Hydrocarbon				G Amchlor	S H2SO4 T TSP Dodecahydrate	
Email:	WO#.							H Ascorbic Acid I Ice	U Acetone	
				g ģ				JDIWater KEDTA	V MCAA W pH 4-5	
Project Name: DCP #2	Project #: 82000654			<b>3</b> 3				L EDA	Z other (specify)	
Site:	SSOW#:	•	A PROCESSOR OF THE	§				Other:		
	<u> </u>									
		Sample Mate	ix is	BridemtMS/I/K by(V/Krtic) 8270D_SIM/3511 Polycyclic (PAHs)						
	1 1	Type (wews	·,							
Sample Identification - Client ID (Lab ID)	Sample Date Time	(C=comp, 0=wast G=grab) BT=fissue	*i	8270D (PAHs)				Special In	structions/Note:	
	Gample 2010	C-9100)   6(11888)				773 TVC 4-7	w w w	Opecial III	sti delloris/Note.	
MW-2 (820-3678-1)	3/14/22 14.35	Wat	er	X						
MW-3 (820-3678-2)	3/14/22 Central 15:30	Wat	er	×			2	3		
MW-4 (820-3678-3)	3/14/22 Central 16:45	Wat	er	x	<del>-   -   -   -   -   -   -   -   -   -  </del>					
MW-5 (820-3678-4)	3/14/22 Central	Wat	er	x					<del></del>	
MW-6 (820-3678-5)	3/14/22 Central 11:20 Central	Wat	er	x						
WW-7 (820-3678-6)	3/14/22 12:30 Central	Wat	er	×			2			
MW-8 (820-3678-7)	3/14/22 13:35	Wat	er	x						
	Central		-	++	Temp:	IR ID:H	OU-223			
	ļ	ļ <u>-</u>		_	C/F <sup>-</sup> -0 1	33	_			
					Corrected 7	remp:5				
Note: Since laboratory accreditations are subject to change, Eurofins Environmen	t Testing South Central, LLC place	s the ownership of metho	d. analyte &	accreditat	ion compliance upon out subcontra	act laboratories.	his sample shipment	is forwarded under ch	ain-of-custocy If the	
aboratory does not currently maintain accreditation in the State of Origin listed ab accreditation status should be brought to Eurofins Environment Testing South Ce	ove for analysis/tests/matrix being	analyzed, the samples m	ust be shipp	ed back to	the Eurofins Environment Testing	South Central, LI	LC laboratory or other	instructions will be pr	ovided. Any changes to	
Possible Hazard Identification				Sample i	Disposal ( A fee may be as	ssessed if sa			month)	
Unconfirmed					· · · · · · ·	isposal By Lai			Months	
Deliverable Requested: I II III, IV Other (specify)	Primary Deliverable Rank:	2	5		nstructions/QC Requiremen					
Empty Kit Relinquished by	Date:		Tim	e:		Method of S	Shipment:			
Relinguished by. Millun 1 Ruyalev	3116/22 17 (	Compan	y	Recety			Date/⊺ime:		Company	
Relinguished by	Date/Time:	Compan	у	Receiv	<b>б</b> by:		P3/17 22	1045	Company	
Relinquished by:	Date/Time;	Compan	y	Receiv	ed by:		Date/⊺ime:	,	Company	
Custody Seals Intact Δ Yes Δ No	1			Cooler	Temperature(s) °C and Other Ren	narks:	<u> </u>			
		•				-				



















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## **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3678-1 SDG Number: AR227008

Login Number: 3678 List Source: Eurofins Lubbock

List Number: 1

Creator: Ruggles, Ashley

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

2 02 0J 174

## **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3678-1

SDG Number: AR227008

Login Number: 3678 **List Source: Eurofins Houston** List Number: 3

List Creation: 03/17/22 01:06 PM

Creator: Milone, Jeancarlo

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

<6mm (1/4").

## **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3678-1

SDG Number: AR227008

Login Number: 3678 List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/17/22 10:31 AM

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

Released to Imaging: 5/18/2023 8:52:18 AM



**Environment Testing America** 

## **ANALYTICAL REPORT**

**Eurofins Lubbock** 6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424

Tel: (806)794-1296

Laboratory Job ID: 820-4628-1

Laboratory Sample Delivery Group: AR217008

Client Project/Site: DCP #2

#### For:

eurofins

Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Attn: Brett Dennis



Authorized for release by: 6/21/2022 11:02:57 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

**Have a Question?** 

EOL

.....LINKS

**Review your project** results through

Received by OCD: 4/17/2023 9:41:13 AM

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 5/18/2023 8:52:18 AM

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

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

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Laboratory Job ID: 820-4628-1 SDG: AR217008

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

> ERF = field staff performs tests under NJ State certification #02015 VL = field staff performs tests under NJ State certification #06005 WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

- · Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- · The report shall not be reproduced, except in full, without the written consent of the laboratory
- · All samples are collected as "grab" samples unless otherwise identified.
- · Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- · EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.
- · Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.
- The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

Jessica Kramer

**Project Manager** 

6/21/2022 11:02:57 AM

RAMER

Page 2 of 22

Client: Terracon Consulting Eng & Scientists Project/Site: DCP #2

Laboratory Job ID: 820-4628-1 SDG: AR217008

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	15
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receint Checklists	21

## **Definitions/Glossary**

Client: Terracon Consulting Eng & Scientists Job ID: 820-4628-1 Project/Site: DCP #2

SDG: AR217008

#### **Qualifiers**

## **GC VOA**

C	ualifier	Qualifier Description
J		Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U		Analyte was not detected at or above the SDL.

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

NC

MPN

MQL

Not Calculated

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

Negative / Absent NEG POS Positive / Present

PQL Practical Quantitation Limit

**PRES** Presumptive QC **Quality Control** 

Relative Error Ratio (Radiochemistry) RER

Most Probable Number

Method Quantitation Limit

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-4628-1 SDG: AR217008

Job ID: 820-4628-1

**Laboratory: Eurofins Lubbock** 

Narrative

Job Narrative 820-4628-1

#### Receipt

The samples were received on 6/15/2022 11:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

#### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: DUP-1 (820-4628-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

SDG: AR217008

**Client Sample ID: MW-2** 

Lab Sample ID: 820-4628-1

Date Collected: 06/14/22 11:35 Date Received: 06/15/22 11:45 **Matrix: Water** 

Job ID: 820-4628-1

Method: 8021B - Volatile Organic Comp	ounc	ls (	GC	)
	_		_	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/18/22 00:52	1
Toluene	0.000752	J	0.00200	0.000367	mg/L			06/18/22 00:52	1
Ethylbenzene	< 0.000657	U	0.00200	0.000657	mg/L			06/18/22 00:52	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/18/22 00:52	1
o-Xylene	< 0.000642	U	0.00200	0.000642	mg/L			06/18/22 00:52	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/18/22 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			_		06/18/22 00:52	1
1.4-Difluorobenzene (Surr)	96		70 - 130					06/18/22 00:52	1

**Method: Total BTEX - Total BTEX Calculation** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000752	J	0.00400	0.000657	mg/L			06/20/22 13:47	1

Client Sample ID: MW-3 Lab Sample ID: 820-4628-2

Date Collected: 06/14/22 12:25

**Matrix: Water** 

Date Received: 06/15/22 11:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/18/22 01:13	1
Toluene	0.000673	J	0.00200	0.000367	mg/L			06/18/22 01:13	1
Ethylbenzene	< 0.000657	U	0.00200	0.000657	mg/L			06/18/22 01:13	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/18/22 01:13	1
o-Xylene	< 0.000642	U	0.00200	0.000642	mg/L			06/18/22 01:13	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/18/22 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			-		06/18/22 01:13	1
1,4-Difluorobenzene (Surr)	98		70 - 130					06/18/22 01:13	1

Method: Total BTEX - Total BTEX Calculation

mothodi rotal Brazil	D I D C G G G G G G G G G G G G G G G G G G								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000673	J	0.00400	0.000657	mg/L			06/20/22 13:47	1

Lab Sample ID: 820-4628-3 Client Sample ID: MW-4 Date Collected: 06/14/22 13:30

Date Received: 06/15/22 11:45

**Matrix: Water** 

Method: 8021B - Volatile Orga	nic Compounds	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/18/22 01:33	1
Toluene	0.000383	J	0.00200	0.000367	mg/L			06/18/22 01:33	1
Ethylbenzene	< 0.000657	U	0.00200	0.000657	mg/L			06/18/22 01:33	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/18/22 01:33	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/18/22 01:33	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/18/22 01:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 _ 130			_		06/18/22 01:33	1
1.4-Difluorobenzene (Surr)	99		70 - 130					06/18/22 01:33	1

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-4628-1 SDG: AR217008

Client Sample ID: MW-4 Date Collected: 06/14/22 13:30 Date Received: 06/15/22 11:45

Lab Sample ID: 820-4628-3

**Matrix: Water** 

**Method: Total BTEX - Total BTEX Calculation** Analyte Result Qualifier RL MDL Unit

D Prepared Analyzed Dil Fac Total BTEX <0.000657 U 0.00400 0.000657 mg/L 06/20/22 13:47

Client Sample ID: MW-5 Lab Sample ID: 820-4628-4

Date Collected: 06/14/22 14:15

**Matrix: Water** 

Date Received: 06/15/22 11:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.622		0.0400	0.00816	mg/L			06/21/22 06:13	20
Toluene	0.00171	J	0.00200	0.000367	mg/L			06/18/22 01:53	1
Ethylbenzene	0.0577		0.00200	0.000657	mg/L			06/18/22 01:53	1
m-Xylene & p-Xylene	0.0373		0.00400	0.000629	mg/L			06/18/22 01:53	1
o-Xylene	0.00162	J	0.00200	0.000642	mg/L			06/18/22 01:53	1
Xylenes, Total	0.0389		0.00400	0.000642	mg/L			06/18/22 01:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			-		06/18/22 01:53	1
1,4-Difluorobenzene (Surr)	101		70 - 130					06/18/22 01:53	1

**Method: Total BTEX - Total BTEX Calculation** Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.000657 mg/L **Total BTEX** 0.720 0.00400 06/20/22 13:47

Client Sample ID: MW-6 Lab Sample ID: 820-4628-5

Date Collected: 06/14/22 16:30 **Matrix: Water** Date Received: 06/15/22 11:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000537	J	0.00200	0.000408	mg/L			06/18/22 04:24	1
Toluene	0.000706	J	0.00200	0.000367	mg/L			06/18/22 04:24	1
Ethylbenzene	< 0.000657	U	0.00200	0.000657	mg/L			06/18/22 04:24	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/18/22 04:24	1
o-Xylene	< 0.000642	U	0.00200	0.000642	mg/L			06/18/22 04:24	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/18/22 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			-		06/18/22 04:24	1
1,4-Difluorobenzene (Surr)	100		70 - 130					06/18/22 04:24	1
- Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00124		0.00400	0.000657	mg/L			06/20/22 13:47	

Client Sample ID: MW-7 Lab Sample ID: 820-4628-6

Date Collected: 06/14/22 17:50 Date Received: 06/15/22 11:45

**Matrix: Water** 

Method: 8021B - Volatile Organic Compounds (GC)

Metriod. 002 1D - Volatile Organic O	ompounds (	(00)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/18/22 04:45	1
Toluene	0.000403	J	0.00200	0.000367	mg/L			06/18/22 04:45	1

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4628-1 SDG: AR217008

Project/Site: DCP #2 **Client Sample ID: MW-7** 

Lab Sample ID: 820-4628-6 **Matrix: Water** 

Date Collected: 06/14/22 17:50 Date Received: 06/15/22 11:45

Method: 8021B - Volatile Orga Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/18/22 04:45	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/18/22 04:45	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/18/22 04:45	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/18/22 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			-		06/18/22 04:45	1
1,4-Difluorobenzene (Surr)	100		70 - 130					06/18/22 04:45	1
	TEX Calculation								
Method: Total BTEX - Total B	I LA Galcalation								
Method: Total BTEX - Total B' Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

**Client Sample ID: MW-8** Lab Sample ID: 820-4628-7

Date Collected: 06/14/22 18:40

Matrix: Water

Date Received: 06/15/22 11:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/18/22 05:05	
Toluene	< 0.000367	U	0.00200	0.000367	mg/L			06/18/22 05:05	
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/18/22 05:05	
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/18/22 05:05	
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/18/22 05:05	
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/18/22 05:05	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	91		70 - 130			-		06/18/22 05:05	
1,4-Difluorobenzene (Surr)	100		70 <sub>-</sub> 130					06/18/22 05:05	

Method: Total BTEX - Total BTEX (	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			06/20/22 13:47	1

**Client Sample ID: DUP-1** Lab Sample ID: 820-4628-8 Date Collected: 06/14/22 00:00 **Matrix: Water** 

Date Received: 06/15/22 11:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.568		0.0400	0.00816	mg/L			06/21/22 06:40	20
Toluene	0.00133	J	0.00200	0.000367	mg/L			06/18/22 05:26	1
Ethylbenzene	0.0456		0.00200	0.000657	mg/L			06/18/22 05:26	1
m-Xylene & p-Xylene	0.0292		0.00400	0.000629	mg/L			06/18/22 05:26	1
o-Xylene	0.00144	J	0.00200	0.000642	mg/L			06/18/22 05:26	1
Xylenes, Total	0.0306		0.00400	0.000642	mg/L			06/18/22 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			=		06/18/22 05:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130					06/18/22 05:26	1

## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4628-1 SDG: AR217008

Project/Site: DCP #2

Lab Sample ID: 820-4628-8

**Client Sample ID: DUP-1** Date Collected: 06/14/22 00:00 Date Received: 06/15/22 11:45

**Matrix: Water** 

**Method: Total BTEX - Total BTEX Calculation** 

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 0.00400 0.000657 mg/L 06/20/22 13:47

**Total BTEX** 0.646

## **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists Job ID: 820-4628-1 Project/Site: DCP #2 SDG: AR217008

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-4628-1	MW-2	98	96	
820-4628-2	MW-3	96	98	
820-4628-3	MW-4	105	99	
820-4628-4	MW-5	86	101	
820-4628-5	MW-6	101	100	
820-4628-6	MW-7	89	100	
820-4628-7	MW-8	91	100	
820-4628-8	DUP-1	86	101	
LCS 880-27744/34	Lab Control Sample	96	100	
LCS 880-27881/34	Lab Control Sample	103	94	
LCSD 880-27744/35	Lab Control Sample Dup	99	98	
LCSD 880-27881/35	Lab Control Sample Dup	127	96	
MB 880-27544/5-A	Method Blank	94	98	
MB 880-27744/39	Method Blank	96	97	
MB 880-27836/5-A	Method Blank	93	89	
MB 880-27881/39	Method Blank	97	87	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-4628-1

SDG: AR217008

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

Lab Sample ID: MB 880-27544/5-A

**Matrix: Water** 

**Analysis Batch: 27744** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27544

MB	MB
	0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		06/14/22 16:18	06/17/22 11:23	1
Toluene	< 0.000367	U	0.00200	0.000367	mg/L		06/14/22 16:18	06/17/22 11:23	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		06/14/22 16:18	06/17/22 11:23	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		06/14/22 16:18	06/17/22 11:23	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		06/14/22 16:18	06/17/22 11:23	1
Xylenes, Total	< 0.000642	U	0.00400	0.000642	mg/L		06/14/22 16:18	06/17/22 11:23	1

MB MB

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94	70 - 130	06/14/22 16:18	06/17/22 11:23	1
1,4-Difluorobenzene (Surr)	98	70 - 130	06/14/22 16:18	06/17/22 11:23	1

Client Sample ID: Method Blank

Prep Type: Total/NA

**Matrix: Water** 

Lab Sample ID: MB 880-27744/39

Analysis Batch: 27744

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/17/22 23:01	1
Toluene	< 0.000367	U	0.00200	0.000367	mg/L			06/17/22 23:01	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/17/22 23:01	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/17/22 23:01	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/17/22 23:01	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/17/22 23:01	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		06/17/22 23:01	1
1,4-Difluorobenzene (Surr)	97		70 - 130		06/17/22 23:01	1

Lab Sample ID: LCS 880-27744/34

**Matrix: Water** 

**Analysis Batch: 27744** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09224		mg/L		92	70 - 130	
Toluene	0.100	0.08672		mg/L		87	70 - 130	
Ethylbenzene	0.100	0.08921		mg/L		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1765		mg/L		88	70 - 130	
o-Xylene	0.100	0.09775		mg/L		98	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-27744/35

**Matrix: Water** 

**Analysis Batch: 27744** 

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

Spike LCSD LCSD %Rec RPD RPD Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.08991 70 - 130

**Eurofins Lubbock** 

Analyte

Released to Imaging: 5/18/2023 8:52:18 AM

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-4628-1

SDG: AR217008

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

Lab Sample ID: LCSD 880-27744/35

**Matrix: Water** 

Analysis Batch: 27744

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08885		mg/L		89	70 - 130	2	20
Ethylbenzene	0.100	0.09146		mg/L		91	70 - 130	2	20
m-Xylene & p-Xylene	0.200	0.1831		mg/L		92	70 - 130	4	20
o-Xylene	0.100	0.1011		mg/L		101	70 - 130	3	20

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: MB 880-27836/5-A Client Sample ID: Method Blank

**Matrix: Water** 

Analysis Batch: 27881

Prep Type: Total/NA

Prep Batch: 27836

	IND	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		06/17/22 16:16	06/20/22 12:57	1
Toluene	< 0.000367	U	0.00200	0.000367	mg/L		06/17/22 16:16	06/20/22 12:57	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		06/17/22 16:16	06/20/22 12:57	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		06/17/22 16:16	06/20/22 12:57	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		06/17/22 16:16	06/20/22 12:57	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		06/17/22 16:16	06/20/22 12:57	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	06/17/22 16:16	06/20/22 12:57	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/17/22 16:16	06/20/22 12:57	1

Lab Sample ID: MB 880-27881/39

**Matrix: Water** 

**Analysis Batch: 27881** 

Client Sample ID: Method Blank

Prep Type: Total/NA

A	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
В	enzene	<0.000408	U	0.00200	0.000408	mg/L			06/21/22 02:24	1
To	oluene	<0.000367	U	0.00200	0.000367	mg/L			06/21/22 02:24	1
E	thylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/21/22 02:24	1
m	n-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/21/22 02:24	1
0-	-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/21/22 02:24	1
Х	ylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/21/22 02:24	1

MB MB

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97	70 - 130		06/21/22 02:24	1
1,4-Difluorobenzene (Surr)	87	70 - 130		06/21/22 02:24	1

Lab Sample ID: LCS 880-27881/34

**Matrix: Water** 

Analysis Batch: 27881

		Client Sample ID: Lab Control Sample
		Prep Type: Total/NA
Spike	LCS LCS	%Rec

Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08703 mg/L 87 70 - 130 0.100 Toluene 0.08921 mg/L 89 70 - 130

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-4628-1

SDG: AR217008

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

Lab Sample ID: LCS 880-27881/34

Lab Sample ID: LCSD 880-27881/35

**Matrix: Water** 

**Analysis Batch: 27881** 

**Matrix: Water** 

**Analysis Batch: 27881** 

<b>Client Sample</b>	ID:	Lab	Control	Sample
		D		F-4-1/81A

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	0.100	0.09521		mg/L		95	70 - 130	 
m-Xylene & p-Xylene	0.200	0.1873		mg/L		94	70 - 130	
o-Xylene	0.100	0.09385		mg/L		94	70 - 130	

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 103 70 - 130 1,4-Difluorobenzene (Surr) 94

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 0.08987 Benzene 0.100 mg/L 90 70 - 130 3 20 Toluene 0.100 0.09108 91 70 - 130 20 mg/L 2 Ethylbenzene 0.100 0.09636 96 70 - 130 20 mg/L m-Xylene & p-Xylene 0.200 0.1918 70 - 130 2 20 mg/L 96 0.100 0.09599 96 70 - 130 2 o-Xylene mg/L

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 127 1,4-Difluorobenzene (Surr) 70 - 130 96

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-4628-1 SDG: AR217008

**GC VOA** 

Prep Batch: 27544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27544/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 27744

Prep Bato	Method	Matrix	Prep Type	Client Sample ID	Lab Sample ID
	8021B	Water	Total/NA	MW-2	820-4628-1
	8021B	Water	Total/NA	MW-3	820-4628-2
	8021B	Water	Total/NA	MW-4	820-4628-3
	8021B	Water	Total/NA	MW-5	820-4628-4
	8021B	Water	Total/NA	MW-6	820-4628-5
	8021B	Water	Total/NA	MW-7	820-4628-6
	8021B	Water	Total/NA	MW-8	820-4628-7
	8021B	Water	Total/NA	DUP-1	820-4628-8
2754	8021B	Water	Total/NA	Method Blank	MB 880-27544/5-A
	8021B	Water	Total/NA	Method Blank	MB 880-27744/39
	8021B	Water	Total/NA	Lab Control Sample	LCS 880-27744/34
	8021B	Water	Total/NA	Lab Control Sample Dup	LCSD 880-27744/35

Prep Batch: 27836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27836/5-A	Method Blank	Total/NA	Water	5035	

**Analysis Batch: 27881** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4628-4	MW-5	Total/NA	Water	8021B	
820-4628-8	DUP-1	Total/NA	Water	8021B	
MB 880-27836/5-A	Method Blank	Total/NA	Water	8021B	27836
MB 880-27881/39	Method Blank	Total/NA	Water	8021B	
LCS 880-27881/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-27881/35	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 27916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4628-1	MW-2	Total/NA	Water	Total BTEX	
820-4628-2	MW-3	Total/NA	Water	Total BTEX	
820-4628-3	MW-4	Total/NA	Water	Total BTEX	
820-4628-4	MW-5	Total/NA	Water	Total BTEX	
820-4628-5	MW-6	Total/NA	Water	Total BTEX	
820-4628-6	MW-7	Total/NA	Water	Total BTEX	
820-4628-7	MW-8	Total/NA	Water	Total BTEX	
820-4628-8	DUP-1	Total/NA	Water	Total BTEX	

**Client Sample ID: MW-2** 

Date Collected: 06/14/22 11:35 Date Received: 06/15/22 11:45

Lab Sample ID: 820-4628-1

**Matrix: Water** 

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/18/22 00:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27916	06/20/22 13:47	AJ	XEN MID

Client Sample ID: MW-3

Date Collected: 06/14/22 12:25

Date Received: 06/15/22 11:45

Lab	Sample	ID: 820-4628-2	
		Matrix: Water	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/18/22 01:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27916	06/20/22 13:47	AJ	XEN MID

Lab Sample ID: 820-4628-3 Client Sample ID: MW-4

Date Collected: 06/14/22 13:30

Date Received: 06/15/22 11:45

ab	Sample	ID. 020-402	0-3
		Matrix: W	ater

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/18/22 01:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27916	06/20/22 13:47	AJ	XEN MID

**Client Sample ID: MW-5** Lab Sample ID: 820-4628-4 Date Collected: 06/14/22 14:15

Date Received: 06/15/22 11:45

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/18/22 01:53	MR	XEN MID
Total/NA	Analysis	8021B		20			27881	06/21/22 06:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27916	06/20/22 13:47	AJ	XEN MID

**Client Sample ID: MW-6** Lab Sample ID: 820-4628-5 **Matrix: Water** 

Date Collected: 06/14/22 16:30 D

Date Received: 06/15/22 11:45											
	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	

Total/NA 27744 Analysis 8021B 5 mL 5 mL 06/18/22 04:24 MR XEN MID Total/NA Total BTEX 27916 06/20/22 13:47 AJ XEN MID Analysis 1

**Client Sample ID: MW-7** Lab Sample ID: 820-4628-6

Date Collected: 06/14/22 17:50 Date Received: 06/15/22 11:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/18/22 04:45	MR	XEN MID
Total/NIA	Analysis	Total RTEY		1			27016	06/20/22 13:47	Λ.Ι	YEN MID

Eurofins Lubbock

**Matrix: Water** 

#### Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-4628-1

SDG: AR217008

Client Sample ID: MW-8

Date Collected: 06/14/22 18:40 Date Received: 06/15/22 11:45 Lab Sample ID: 820-4628-7

Matrix: Water

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/18/22 05:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27916	06/20/22 13:47	AJ	XEN MID

Client Sample ID: DUP-1 Lab Sample ID: 820-4628-8

Date Collected: 06/14/22 00:00

Matrix: Water

Date Received: 06/15/22 11:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B	<del></del>	1	5 mL	5 mL	27744	06/18/22 05:26	MR	XEN MID
Total/NA	Analysis	8021B		20			27881	06/21/22 06:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27916	06/20/22 13:47	AJ	XEN MID

Laboratory References:

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

13

12

## **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4628-1 Project/Site: DCP #2 SDG: AR217008

**Laboratory: Eurofins Midland** 

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

Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-21-22	06-30-22	
T					
The following analytes	are included in this report, bu	it the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes fo	
0 ,	• •	it the laboratory is not certifi	led by the governing authority. This list ma	ay include analytes fo	
the agency does not o	ffer certification.	•	, , ,	ay include analytes fo	
0 ,	• •	it the laboratory is not certifi Matrix	ied by the governing authority. This list ma Analyte	ay include analytes fo	

## **Method Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-4628-1

SDG: AR217008

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
5030B	Purge and Trap	SW846	XEN MID

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

## **Sample Summary**

Client: Terracon Consulting Eng & Scientists

Proj

Job ID: 820-4628-1

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oject/Site: DCP #2	SDG: AR217008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-4628-1	MW-2	Water	06/14/22 11:35	06/15/22 11:45
820-4628-2	MW-3	Water	06/14/22 12:25	06/15/22 11:45
820-4628-3	MW-4	Water	06/14/22 13:30	06/15/22 11:45
820-4628-4	MW-5	Water	06/14/22 14:15	06/15/22 11:45
820-4628-5	MW-6	Water	06/14/22 16:30	06/15/22 11:45
820-4628-6	MW-7	Water	06/14/22 17:50	06/15/22 11:45
820-4628-7	MW-8	Water	06/14/22 18:40	06/15/22 11:45
820-4628-8	DUP-1	Water	06/14/22 00:00	06/15/22 11:45

Loc: 820 4628

									Laboratory:	Xenc	0					ANAL	YSIS						LAB USE ONLY
1				<b>_</b>					Address:	6701	Abero	leen				REQU	ESTE						DUE DATE:
			<b>31</b>							Lubb	ock, Te	exas 7	9424										TEMP OF COOLER WHEN RECEIVED (°C) 5.\/5.0°
Offic	e Location	on	Lubb	ock					Phone:														
	2000111								Contact:						.								Page _ 1 _ of _ 1
Proi	ect Mana	ager	Bret	t Den	nis				SRS #:		2	009-0	39										
Sam	pler's Na	me	Aaro	n Ad	ams				Sampler's Sig	nature						21)							
									Bu	01	$\nu$	$\sim$	-6			08 pc							
Proj	ect Num	ber				Project I	Name					No. Ty	pe of (	Contair	ners	letho							
Ц,		AR21	7008	_				DCP #	2	T =		ŏ				ΑM							
Matrix	Date	a	Time	Comp	Grab		Identifying	Marks of Sa	mple(s)	Start Depth	End Depth	40 ml VOA				BTEX (EPA Method 8021)							Lab Sample ID
GW	6/10/20		35		Х			MW-2				3				Х							
GW	6/36/20		225		х			MW-3				3				Х							
GW	6/10/20		330		х			MW-4				3				Х							
GW	6/2%/20		415		Х			MW-5				3				Х				11			
GW	6/45/20		030		Х			MW-6				3				Х				- 1			
GW	6/ <b>1/5/</b> 20	22	750		Х			MW-7				3				Х				11			
GW	14 6/ <b>36/</b> 20	22	840		Х			MW-8				3				X				82	20-46	28 C	hain of Custody
GW	14 6/ <b>36</b> /20	22	-		Х			DUP-1				3				Х							L-
										$oxed{oxed}$													
					L,									<u> </u>									
	IAROUND				9	Normal	48-Hour	Rush Time:	24-Hour Rush		TRRP	Labor	atory	Revie	v Chec	klist		□ Y					
Reliniqu	ished by (Sign	ature P	1-1	1	•	]	(9.15-WIL	1145	amlein	1.4	الاس	2000		6/16	5122	11:0	15	NOTES:			Bill di	rectly	to Plains Pipeline
Reling	ished by (Sign	ature)					Date:	Time:	Received by (Signature	, -		MAC.		Date:	100	Time:		e-mail	resul	ts to:			
1	`					i														brett.d	lenni.	s@ter	rracon.com
Relinq	ished by (Sign	ature)					Date:	Time:	Received by (Signature					Date:		Time:				erin.lo	yd@t	terrace	on.com
								T	Received by (Signature					Date:		Time:				algrov			
Relinq	ished by (Sign	ature)				ľ	Date:	Time:	received by (Senature											maoch cibryar			
Matrix		WW-Wast	lewater		w · wa	ter	5 · Soil	L - Liqu	rid A Air Bag	C - Charco	al tube		St - Sludge					-					
Contain	н	VOA - 40 r	mi viai		A/G · A	mber Glass 11	250 ml = Glas	s wide mouth	P/O - Plastic or other														
							Lubbock	Office =	5847 50th Stree	t <b>=</b> l	ubb	ock,	Texa	s 794	24 =	806	-300	0140					
									Responsive •	Resc	urce	ful :	Rel	iable	<u> </u>								









**CHAIN OF CUSTODY RECORD** 

Page 84 of 174

## **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 820-4628-1

SDG Number: AR217008

Login Number: 4628 List Source: Eurofins Lubbock

List Number: 1

Creator: Ruggles, Ashley

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

3

4

6

Q

11

13

14

<6mm (1/4").

### **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 820-4628-1

SDG Number: AR217008

List Source: Eurofins Midland
List Number: 2
List Creation: 06/16/22 11:07 AM

Creator: Rodriguez, Leticia

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

3

4

0

1 N

13

14

<6mm (1/4").

Released to Imaging: 5/18/2023 8:52:18 AM

**Environment Testing America** 

# **ANALYTICAL REPORT**

**Eurofins Lubbock** 6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424

Tel: (806)794-1296

Laboratory Job ID: 820-5728-1

Laboratory Sample Delivery Group: AR227008

Client Project/Site: DCP #2

For:

Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Attn: Erin Lloyd

(RAMER

Authorized for release by: 9/14/2022 5:03:51 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

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

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Laboratory Job ID: 820-5728-1

SDG: AR227008

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

> ERF = field staff performs tests under NJ State certification #02015 VL = field staff performs tests under NJ State certification #06005 WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

- · Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- · The report shall not be reproduced, except in full, without the written consent of the laboratory
- · All samples are collected as "grab" samples unless otherwise identified.
- · Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- · Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.
- · Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.
- The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

Jessica Kramer

**Project Manager** 

9/14/2022 5:03:51 PM

RAMER

Page 2 of 23

9/14/2022

Client: Terracon Consulting Eng & Scientists Project/Site: DCP #2

Laboratory Job ID: 820-5728-1 SDG: AR227008

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	15
Certification Summary	17
Method Summary	18
Sample Summary	19
	20
Receipt Checklists	22

1

2

3

4

6

8

9

11

12

4

## **Definitions/Glossary**

Client: Terracon Consulting Eng & Scientists Job ID: 820-5728-1 Project/Site: DCP #2

SDG: AR227008

#### **Qualifiers**

#### **GC/MS VOA**

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
Χ	Surrogate recovery exceeds control limits

ML

MPN

MQL NC

ND NEG

POS

**PQL** 

QC RER

RL

RPD

TEF

TEQ

TNTC

**PRES** 

Minimum Level (Dioxin)

Most Probable Number Method Quantitation Limit

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

Not Calculated

Negative / Absent

Positive / Present

Presumptive **Quality Control** 

**Practical Quantitation Limit** 

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

#### **Case Narrative**

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-5728-1 SDG: AR227008

Job ID: 820-5728-1

**Laboratory: Eurofins Lubbock** 

Narrative

Job Narrative 820-5728-1

#### Receipt

The samples were received on 9/9/2022 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

#### GC/MS VOA

Method 8260C: Surrogate, 4-Bromofluorobenzene (Surrogate) recovery for the following samples were outside control limits: MW-6 (820-5728-1), MW-7 (820-5728-2), MW-8 (820-5728-3), MW-4 (820-5728-6), MW-5 (820-5728-7) and (860-32970-C-1). This surrogate does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

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

#### **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

SDG: AR227008

Job ID: 820-5728-1

Project/Site: DCP #2

Lab Sample ID: 820-5728-1

Date Collected: 09/07/22 10:50 Date Received: 09/09/22 09:50

**Client Sample ID: MW-6** 

Analyte

Total BTEX

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 02:59	1
Toluene	< 0.000475	U	0.00100	0.000475	mg/L			09/13/22 02:59	1
Ethylbenzene	< 0.000411	U	0.00100	0.000411	mg/L			09/13/22 02:59	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 02:59	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 02:59	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144			-		09/13/22 02:59	1
4-Bromofluorobenzene (Surr)	126	X	74 - 124					09/13/22 02:59	1
Dibromofluoromethane (Surr)	95		75 - 131					09/13/22 02:59	1
Toluene-d8 (Surr)	103		80 - 117					09/13/22 02:59	1

Lab Sample ID: 820-5728-2

09/13/22 03:20

Analyzed

09/13/22 16:26

Prepared

Client Sample ID: MW-7 Date Collected: 09/07/22 11:30 **Matrix: Water** Date Received: 09/09/22 09:50

0.0100

RL

MDL Unit

0.00124 mg/L

Result Qualifier

<0.00124 U

102

Method: 8260C - Volatile Orga	nic Compounds I	by GC/MS							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 03:20	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 03:20	1
Ethylbenzene	< 0.000411	U	0.00100	0.000411	mg/L			09/13/22 03:20	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 03:20	1
o-Xylene	< 0.000551	U	0.00100	0.000551	mg/L			09/13/22 03:20	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 03:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144			<del>-</del>		09/13/22 03:20	1
4-Bromofluorobenzene (Surr)	129	X	74 - 124					09/13/22 03:20	1
Dibromofluoromethane (Surr)	95		75 <sub>-</sub> 131					09/13/22 03:20	1

Method: Total BTEX - Total B1	ΓEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 16:26	1

80 - 117

**Client Sample ID: MW-8** Lab Sample ID: 820-5728-3

Date Collected: 09/07/22 12:32 Date Received: 09/09/22 09:50

Toluene-d8 (Surr)

Method: 8260C - Volatile Or	rganic Compounds I	oy GC/MS							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 03:41	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 03:41	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 03:41	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 03:41	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 03:41	1

**Eurofins Lubbock** 

**Matrix: Water** 

Dil Fac

#### **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

SDG: AR227008

**Client Sample ID: MW-8** 

Lab Sample ID: 820-5728-3

Date Collected: 09/07/22 12:32 Date Received: 09/09/22 09:50

Matrix: Water

Job ID: 820-5728-1

Method: 8260C - Volatile Organic Com	pounds by GC/MS	(Continued)

Analyte	Result	Qualifier	KL	MIDL	Unit	U	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 03:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144					09/13/22 03:41	1

١	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	103		63 - 144		09/13/22 03:41	1
	4-Bromofluorobenzene (Surr)	125	X	74 - 124		09/13/22 03:41	1
	Dibromofluoromethane (Surr)	100		75 - 131		09/13/22 03:41	1
	Toluene-d8 (Surr)	104		80 - 117		09/13/22 03:41	1

#### **Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00124	U	0.0100	0.00124	mg/L			09/13/22 16:26	1

Client Sample ID: MW-2 Lab Sample ID: 820-5728-4 **Matrix: Water** 

Date Collected: 09/07/22 13:40

Date Received: 09/09/22 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

motifica. 02000 Volutilo	organio compoundo i	y comin							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 04:01	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 04:01	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 04:01	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 04:01	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 04:01	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 04:01	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100	63 - 144		09/13/22 04:01	1
4-Bromofluorobenzene (Surr)	124	74 - 124		09/13/22 04:01	1
Dibromofluoromethane (Surr)	100	75 - 131		09/13/22 04:01	1
Toluene-d8 (Surr)	106	80 - 117		09/13/22 04:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 16:26	1

Client Sample ID: MW-3 Lab Sample ID: 820-5728-5 **Matrix: Water** 

Date Collected: 09/07/22 14:30 Date Received: 09/09/22 09:50

Method: 8260C -	Volatile Organia	c Compounds	by GC/MS

momous object to the origin		.,							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 04:22	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 04:22	1
Ethylbenzene	< 0.000411	U	0.00100	0.000411	mg/L			09/13/22 04:22	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 04:22	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 04:22	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 04:22	1
I and the second									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		09/13/22 04:22	1
4-Bromofluorobenzene (Surr)	121		74 - 124		09/13/22 04:22	1
Dibromofluoromethane (Surr)	98		75 - 131		09/13/22 04:22	1

Job ID: 820-5728-1

#### **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

SDG: AR227008

Client Sample ID: MW-3 Lab Sample ID: 820-5728-5

Date Collected: 09/07/22 14:30 **Matrix: Water** Date Received: 09/09/22 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery Qualifie	r Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103	80 - 117		09/13/22 04:22	1

**Method: Total BTEX - Total BTEX Calculation** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 16:26	1

Client Sample ID: MW-4 Lab Sample ID: 820-5728-6

Date Collected: 09/07/22 15:26 **Matrix: Water** 

Date Received: 09/09/22 09:50

Method: 8260C - Volatile	Organic Compounds I	by GC/MS							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 04:42	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 04:42	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 04:42	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 04:42	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 04:42	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 04:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144	-		09/13/22 04:42	1
4-Bromofluorobenzene (Surr)	125	X	74 - 124			09/13/22 04:42	1
Dibromofluoromethane (Surr)	101		75 - 131			09/13/22 04:42	1
Toluene-d8 (Surr)	103		80 - 117			09/13/22 04:42	1

**Method: Total BTEX - Total BTEX Calculation** Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Total BTEX <0.00124 U 0.0100 0.00124 mg/L 09/13/22 16:26

Lab Sample ID: 820-5728-7 Client Sample ID: MW-5

Date Collected: 09/07/22 16:06 **Matrix: Water** 

Date Received: 09/09/22 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00177		0.00100	0.000533	mg/L			09/13/22 06:45	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 06:45	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 06:45	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 06:45	1
o-Xylene	< 0.000551	U	0.00100	0.000551	mg/L			09/13/22 06:45	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 06:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144			-		09/13/22 06:45	1
4-Bromofluorobenzene (Surr)	127	X	74 - 124					09/13/22 06:45	1
Dibromofluoromethane (Surr)	99		75 - 131					09/13/22 06:45	1
Toluene-d8 (Surr)	105		80 - 117					09/13/22 06:45	1

**Eurofins Lubbock** 

09/13/22 16:26

0.0100

0.00124 mg/L

0.00177 J

**Total BTEX** 

## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-5728-1 SDG: AR227008

Client Sample ID: MW-1

Lab Sample ID: 820-5728-8

Date Collected: 09/07/22 16:55 Date Received: 09/09/22 09:50

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0234		0.00100	0.000533	mg/L			09/13/22 12:36	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 12:36	1
Ethylbenzene	0.000453	J	0.00100	0.000411	mg/L			09/13/22 12:36	1
m,p-Xylenes	0.00134	J	0.0100	0.00124	mg/L			09/13/22 12:36	1
o-Xylene	0.000602	J	0.00100	0.000551	mg/L			09/13/22 12:36	1
Xylenes, Total	0.00194	J	0.0100	0.00124	mg/L			09/13/22 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144			-		09/13/22 12:36	1
4-Bromofluorobenzene (Surr)	112		74 - 124					09/13/22 12:36	1
Dibromofluoromethane (Surr)	97		75 <sub>-</sub> 131					09/13/22 12:36	1
Toluene-d8 (Surr)	103		80 - 117					09/13/22 12:36	1

Lab Sample ID: 820-5728-9

Analyzed

09/14/22 16:34

Prepared

**Client Sample ID: DUP-1** Date Collected: 09/07/22 00:00 **Matrix: Water** 

0.0100

RL

MDL Unit

0.00124 mg/L

Result Qualifier

0.0258

Date Received: 09/09/22 09:50

Analyte

**Total BTEX** 

Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00175		0.00100	0.000533	mg/L			09/13/22 05:03	1
Toluene	< 0.000475	U	0.00100	0.000475	mg/L			09/13/22 05:03	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 05:03	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 05:03	1
o-Xylene	< 0.000551	U	0.00100	0.000551	mg/L			09/13/22 05:03	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 05:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144			-		09/13/22 05:03	1
4-Bromofluorobenzene (Surr)	122		74 - 124					09/13/22 05:03	1
Dibromofluoromethane (Surr)	100		75 - 131					09/13/22 05:03	1
Toluene-d8 (Surr)	104		80 - 117					09/13/22 05:03	1
- Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

## **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists Job ID: 820-5728-1 Project/Site: DCP #2

SDG: AR227008

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Reco
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-117)
820-5728-1	MW-6	102	126 X	95	103
820-5728-2	MW-7	102	129 X	95	102
820-5728-3	MW-8	103	125 X	100	104
820-5728-4	MW-2	100	124	100	106
820-5728-5	MW-3	101	121	98	103
820-5728-6	MW-4	106	125 X	101	103
820-5728-7	MW-5	99	127 X	99	105
820-5728-8	MW-1	105	112	97	103
820-5728-8 MS	MW-1	104	98	98	104
820-5728-9	DUP-1	107	122	100	104
LCS 860-68713/3	Lab Control Sample	106	99	103	101
LCS 860-68792/3	Lab Control Sample	106	101	98	103
LCSD 860-68713/4	Lab Control Sample Dup	97	94	102	101
LCSD 860-68792/4	Lab Control Sample Dup	105	99	98	101
MB 860-68713/8	Method Blank	99	122	104	103
MB 860-68792/8	Method Blank	101	119	96	103

#### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-5728-1

SDG: AR227008

## Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-68713/8

**Matrix: Water** 

Analysis Batch: 68713

Client	Sample	ID: Met	hod E	Blank
	_	_	_	

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 01:17	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 01:17	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 01:17	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 01:17	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 01:17	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 01:17	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		09/13/22 01:17	1
4-Bromofluorobenzene (Surr)	122		74 - 124		09/13/22 01:17	1
Dibromofluoromethane (Surr)	104		75 <sub>-</sub> 131		09/13/22 01:17	1
Toluene-d8 (Surr)	103		80 - 117		09/13/22 01:17	1

Lab Sample ID: LCS 860-68713/3

**Matrix: Water** 

Analysis Batch: 68713

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.05214		mg/L		104	66 - 142	
Toluene	0.0500	0.05098		mg/L		102	59 - 139	
Ethylbenzene	0.0500	0.05037		mg/L		101	75 - 125	
m,p-Xylenes	0.0500	0.05044		mg/L		101	75 - 125	
o-Xylene	0.0500	0.05178		mg/L		104	75 - 125	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	103		75 <sub>-</sub> 131
Toluene-d8 (Surr)	101		80 - 117

Lab Sample ID: LCSD 860-68713/4

**Matrix: Water** 

Analysis Batch: 68713

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

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifi	ier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.05260	mg/L		105	66 - 142	1	25
Toluene	0.0500	0.05318	mg/L		106	59 - 139	4	25
Ethylbenzene	0.0500	0.05147	mg/L		103	75 - 125	2	25
m,p-Xylenes	0.0500	0.05270	mg/L		105	75 - 125	4	25
o-Xylene	0.0500	0.05335	mg/L		107	75 - 125	3	25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	94		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	101		80 - 117

Client: Terracon Consulting Eng & Scientists Project/Site: DCP #2

Job ID: 820-5728-1

SDG: AR227008

#### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-68792/8

**Matrix: Water** 

Analyte Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene

Xylenes, Total

Analysis Batch: 68792

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

09/13/22 12:16

МВ	МВ							
	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.000533	U	0.00100	0.000533	mg/L			09/13/22 12:16	1
< 0.000475	U	0.00100	0.000475	mg/L			09/13/22 12:16	1
< 0.000411	U	0.00100	0.000411	mg/L			09/13/22 12:16	1
<0.00124	U	0.0100	0.00124	mg/L			09/13/22 12:16	1
< 0.000551	U	0.00100	0.000551	mg/L			09/13/22 12:16	1

0.00124 mg/L

MB MB

<0.00124 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		09/13/22 12:16	1
4-Bromofluorobenzene (Surr)	119		74 - 124		09/13/22 12:16	1
Dibromofluoromethane (Surr)	96		75 - 131		09/13/22 12:16	1
Toluene-d8 (Surr)	103		80 - 117		09/13/22 12:16	1

0.0100

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

**Matrix: Water** 

Analysis Batch: 68792

Lab Sample ID: LCS 860-68792/3

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.05363		mg/L		107	66 - 142	
Toluene	0.0500	0.05299		mg/L		106	59 - 139	
Ethylbenzene	0.0500	0.05178		mg/L		104	75 - 125	
m,p-Xylenes	0.0500	0.05303		mg/L		106	75 - 125	
o-Xylene	0.0500	0.05353		mg/L		107	75 - 125	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	103		80 - 117

Lab Sample ID: LCSD 860-68792/4 Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total/NA** 

Analysis Batch: 68792

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.05425		mg/L		109	66 - 142	1	25
Toluene	0.0500	0.05379		mg/L		108	59 - 139	2	25
Ethylbenzene	0.0500	0.05275		mg/L		105	75 - 125	2	25
m,p-Xylenes	0.0500	0.05406		mg/L		108	75 - 125	2	25
o-Xylene	0.0500	0.05455		mg/L		109	75 - 125	2	25

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	101		80 - 117

Client: Terracon Consulting Eng & Scientists Job ID: 820-5728-1 Project/Site: DCP #2 SDG: AR227008

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 820-5728-8 MS	Client Sample ID: MW-1
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 68792	

								Prep Typ	e: Total/NA
Sample	Sample	Spike	MS	MS				%Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.0234		0.0500	0.08045		mg/L		114	66 - 142	
<0.000475	U	0.0500	0.05829		mg/L		117	59 - 139	
0.000453	J	0.0500	0.05692		mg/L		113	75 - 125	
0.00134	J	0.0500	0.05966		mg/L		117	75 - 125	
0.000602	J	0.0500	0.05852		mg/L		116	75 - 125	
MS	MS								
%Recovery	Qualifier	Limits							
104		63 - 144							
98		74 - 124							
98		75 <sub>-</sub> 131							
104		80 - 117							
	Result 0.0234 <0.000475 0.000453 0.00134 0.000602  MS %Recovery 104 98 98	<0.000475 U 0.000453 J 0.00134 J 0.000602 J  MS MS %Recovery 104 98 98 98	Result 0.0234         Qualifier 0.0500           <0.000475	Result         Qualifier         Added         Result           0.0234         0.0500         0.08045           <0.000475	Result         Qualifier         Added         Result         Qualifier           0.0234         0.0500         0.08045           <0.000475	Result         Qualifier         Added         Result         Qualifier         Unit           0.0234         0.0500         0.08045         mg/L           <0.000475	Result         Qualifier         Added         Result         Qualifier         Unit         D           0.0234         0.0500         0.08045         mg/L         mg/L           <0.000475	Result 0.0234         O.0500         O.08045         mg/L         114           <0.000475	Sample Result Qualifier         Added Added Result Qualifier         Unit Unit Unit Unit Unit Unit Unit Unit

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists Project/Site: DCP #2

Job ID: 820-5728-1

SDG: AR227008

#### **GC/MS VOA**

#### Analysis Batch: 68713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5728-1	MW-6	Total/NA	Water	8260C	
820-5728-2	MW-7	Total/NA	Water	8260C	
820-5728-3	MW-8	Total/NA	Water	8260C	
820-5728-4	MW-2	Total/NA	Water	8260C	
820-5728-5	MW-3	Total/NA	Water	8260C	
820-5728-6	MW-4	Total/NA	Water	8260C	
820-5728-7	MW-5	Total/NA	Water	8260C	
820-5728-9	DUP-1	Total/NA	Water	8260C	
MB 860-68713/8	Method Blank	Total/NA	Water	8260C	
LCS 860-68713/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-68713/4	Lab Control Sample Dup	Total/NA	Water	8260C	

#### Analysis Batch: 68792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5728-8	MW-1	Total/NA	Water	8260C	
MB 860-68792/8	Method Blank	Total/NA	Water	8260C	
LCS 860-68792/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-68792/4	Lab Control Sample Dup	Total/NA	Water	8260C	
820-5728-8 MS	MW-1	Total/NA	Water	8260C	

#### Analysis Batch: 68880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5728-1	MW-6	Total/NA	Water	Total BTEX	
820-5728-2	MW-7	Total/NA	Water	Total BTEX	
820-5728-3	MW-8	Total/NA	Water	Total BTEX	
820-5728-4	MW-2	Total/NA	Water	Total BTEX	
820-5728-5	MW-3	Total/NA	Water	Total BTEX	
820-5728-6	MW-4	Total/NA	Water	Total BTEX	
820-5728-7	MW-5	Total/NA	Water	Total BTEX	
820-5728-9	DUP-1	Total/NA	Water	Total BTEX	

#### **Analysis Batch: 69073**

_					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5728-8	MW-1	Total/NA	Water	Total BTEX	

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-5728-1 SDG: AR227008

**Client Sample ID: MW-6** 

Date Collected: 09/07/22 10:50 Date Received: 09/09/22 09:50

Lab Sample ID: 820-5728-1

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 02:59	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

Client Sample ID: MW-7 Lab Sample ID: 820-5728-2

Date Collected: 09/07/22 11:30 Date Received: 09/09/22 09:50

**Matrix: Water** 

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8260C 68713 09/13/22 03:20 JBS Analysis 5 mL 5 mL EET HOU Total/NA Analysis Total BTEX 1 68880 09/13/22 16:26 JBS **EET HOU** 

Client Sample ID: MW-8 Lab Sample ID: 820-5728-3

Date Collected: 09/07/22 12:32

**Matrix: Water** 

Date Received: 09/09/22 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 03:41	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

Client Sample ID: MW-2 Lab Sample ID: 820-5728-4

**Matrix: Water** 

Date Collected: 09/07/22 13:40 Date Received: 09/09/22 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 04:01	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

Client Sample ID: MW-3 Lab Sample ID: 820-5728-5

Date Collected: 09/07/22 14:30 Date Received: 09/09/22 09:50

Released to Imaging: 5/18/2023 8:52:18 AM

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 04:22	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

Client Sample ID: MW-4 Lab Sample ID: 820-5728-6

Date Collected: 09/07/22 15:26 **Matrix: Water** Date Received: 09/09/22 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 04:42	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

Job ID: 820-5728-1 SDG: AR227008

SDG: AR22700

**Client Sample ID: MW-5** 

Date Collected: 09/07/22 16:06 Date Received: 09/09/22 09:50 Lab Sample ID: 820-5728-7

Matrix: Water

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 06:45	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

Client Sample ID: MW-1 Lab Sample ID: 820-5728-8

Date Collected: 09/07/22 16:55 Matrix: Water

Date Received: 09/09/22 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68792	09/13/22 12:36	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			69073	09/14/22 16:34	JBS	EET HOU

Client Sample ID: DUP-1 Lab Sample ID: 820-5728-9

Date Collected: 09/07/22 00:00 Matrix: Water

Date Received: 09/09/22 09:50

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 05:03	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

## **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 820-5728-1 Project/Site: DCP #2 SDG: AR227008

#### **Laboratory: Eurofins Houston**

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704215-22-47	06-30-23
The following analytes	are included in this report, bu	ut the laboratory is not certifi	ied by the governing authority. This list ma	av include analytes for
• ,	•	ut the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for
The following analytes the agency does not o	•	ut the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for
• ,	•	ut the laboratory is not certifi  Matrix	ied by the governing authority. This list ma	ay include analytes for

## **Method Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-5728-1

SDG: AR227008

3DG. /	ANZZ	1000	

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
5030C	Purge and Trap	SW846	EET HOU

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

## **Sample Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: DCP #2

Job ID: 820-5728-1 SDG: AR227008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-5728-1	MW-6	Water	09/07/22 10:50	09/09/22 09:50
820-5728-2	MW-7	Water	09/07/22 11:30	09/09/22 09:50
820-5728-3	MW-8	Water	09/07/22 12:32	09/09/22 09:50
820-5728-4	MW-2	Water	09/07/22 13:40	09/09/22 09:50
820-5728-5	MW-3	Water	09/07/22 14:30	09/09/22 09:50
820-5728-6	MW-4	Water	09/07/22 15:26	09/09/22 09:50
820-5728-7	MW-5	Water	09/07/22 16:06	09/09/22 09:50
820-5728-8	MW-1	Water	09/07/22 16:55	09/09/22 09:50
820-5728-9	DUP-1	Water	09/07/22 00:00	09/09/22 09:50

3

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6

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8

3

44

12

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Loc: 820 **5728** 

Page
106
of 174
74

Received by OCD: 4/17/2023 9:41:13 AM

														CHA	IN OF	CUST	ODY RE	ECORD	
					CO							REQUES				LAB USE ONLY DUE DATE:			
				Œ				Lubbock, Texas 79424										TEMP OF COOLER WHEN RECEIVED (°C)	1.911.5
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							Contact:										Page1_	of <u>1</u>	
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roject Numb	er				Project Name					No. Type	e of Conta	ainers	Method		1 1				
	AR227008					DCP #	2			VOA			ž		1 1	ĺ			
Date	Time		Comp	Grab	Identifyi	ng Marks of Sa	mple(s)	Start Depth	End Depth	40 ml VC			втех (ера					Lab Sam	nple ID
W 9/7/2022	10:50			Х		MW-6				3	1	T	х						
W 9/7/2022	11:30			Х		MW-7				3		1	x						
N 9/7/2022	12:32			х		MW-8		200	7	3	$\neg$	1	x		$\vdash$	<del></del> i			
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1	14:30	-		Х					3	$\neg$	+-	X			4444				
	15:26		_	Х		MW-3 MW-4 MW-5				3	_	1	x		†	820-5728 Chai			
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W 9/7/2022	16:06			X		MW-1				3	-		^	-	† –			Tol Custody	
W 9/7/2022	16:55			X		DUP-1		1		3	_		x						
W 9/7/2022				^						3		+	<del>  ^  </del>						
JRNAROUND TI	MF			79	Normal 48-H	nur Rush	24-Hour Rush	Ь-	TRRP	Laborat	ory Revi	ew Che	cklist	-	Yes		No.		
linquished by (Signatu		V			Date: 99-2:	Time:	Received by (Signature)	h4.	D.	LOOK)	Dates	19/2	Time:	INOT				ctly to Plains Pipeline	
inquished by (Signatu	re)				Date	Time:	Received by (Signature)		-	71	Date:		Time:		il resul				
linguished by (Signatu	re)		_		Date:	Time:	Received by (Signature)				Date:		1. CJBRYANT@PAALP.COM 2. MAOCHOA@PAALP.COM						
													3. AUSTIN.WORLEY@TERRACON.COM						
linguished by (Signatu	re)				Date:	Time:	Received by (Signature)	eceived by (Signature)				Time:		4. ERIN.LOYD@TERRACON.COM 5. AARON.ADAMS@TERRACON.COM					
				_				_						5. A	ARON.A	ADAM:	S@TERRA	ACON.COM	
ntrix ntainer	WW Wastewater			W · Wat		t Liqu		C - Charco	al tube	SL	· Sludge								
	VOA - 40 ml vial			A/G - Ar		Glass wide mouth	P/O - Plastic or other												
					Lubbock C	office = 5827	7 50th Street, St	iite 1	= L	ubboc	k, Texa	ıs 794	24 = 8	06-300-	-0140				
							Responsive .	Reso	urce	ful =	Reliabl	le							







#### **Eurofins Lubbock**

6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424 Phone: 806-794-1296

# **Chain of Custody Record**



🔅 eurofins

**Environment Testing** America

Received by OCD: 4/17/2023 9:41:13 AM

7 Horie, 800-7 94-1290												ier Track					
Client Information (Sub Contract Lab)	Contract Lab) Sampler Lab Kra							PM: ner Jessica								COC No: 820-4835,1	
Shipping/Receiving	ipping/Receiving Jessi									om	State Tex	of Orig	in:			Page: Page 1 of 1	
Company Eurofins Environment Testing South Centr								Accreditations Required (See note): Job #: NELAP Texas 820-5728-1									
Eurofins Environment Testing South Centr Address:	Preservation Codes:																
4145 Greenbriar Dr City: Stafford	9/15/2022 TAT Requested (da				П	Ала	lysis R	eques	stea	$\top$	$\top$	3/4	A HCL B NaOH	M Hexane N None			
Stafford State, Zip:											-			-			O AsNaO2 P Na2O4S
TX, 77477																E NaHSO4 F MeOH	Q Na2SO3 R Na2S2O3
Phone: 281-240-4200(Tel)	PO#:															G Amohlor H Ascorbic Acid	S H2SQ4 T TSP Dodecahydrate
Email:	WO #:				(We reported											} fce	U Acetons V MCAA W pH 4-5
Project Name: DCP #2	Project #: 82000286				(Ner)	981										K EDTA L EDA	Y Trizma Z other (specify)
Site:	SSOW#:					Pedenmil/1///SP/NA 8260C/5030C BTEX								}	opple lifter	Other <sup>,</sup>	2 Outer (specify)
			1			Ê					1				2	3	
			Sample Type	Matrix (₩=₩###	AL ACHIGATION.	260C/5030C BTEX	Æ								Ros HAngals		
		Sample	(C=Comp,	S=solid, O=waste/oll,	Sign	/O09	Total_BTEX										
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	BT=Tissue, A=Alr			ļř			34 (A) (A)						Special Ins	structions/Note:
MW-6 (820-5728-1)	9/7/22	10:50 Central		Water		Х	х				-						
MW-7 (820-5728-2)	9/7/22	11 30 Central		Water	П	×	х									96	
MW-8 (820-5728-3)	9/7/22	12:32 Central		Water	П	×	х										
MW-2 (820-5728-4)	9/7/22	13:40 Central		Water		×	X					П					
MW-3 (820-5728-5)	9/7/22	14:30 Central		Water		×	х									Š.	
MW-4 (820-5728-6)	9/7/22	15;26 Central		Water	П	Х	х		1	emp: :/F·+1.2	2.8	İRİ	D-HC	U-34	4		
MW-5 (820-5728-7)	9/7/22	16:06 Central		Water		×	х			orrecte		ıp:	4.	.0	9		
MW-1 (820-5728-8)	9/7/22	16:55 Central		Water		X	Х					<u>.</u>		1	9	3	
DUP-1 (820-5728-9)	9/7/22	Central		Warter		Х	х								(9)	Š S	
Note: Since laboratory accreditations are subject to change, Eurofins Environment laboratory does not currently maintain accreditation in the State of Origin listed ab accreditation status should be brought to Eurofins Environment Testing South Cer	ove for analysis/tests	/matrix being a	analyzed, the sa	emples must b	e shippe	ed back	to the	Eurofin:	s Enviro	nment Tes	sting Sou	th Cent	al, LLC	laborati	ory or othe	r instructions will be pro	ovided. Any changes to
Possible Hazard Identification					s	ample	e Dis <sub>l</sub>	posal	( A fe	may b	e asse	ssed i	sam			ned longer than 1	month)
Unconfirmed				4			1 To C		<u> </u>		osal By	(Lab		Arc	hive For	Months	
Deliverable Requested: 1 II III IV Other (specify) Primary Deliverable Rank: 2 Special Instructions/QC Requirements:																	
Empty Kit Relinquished by		Date:			Time							Metho	d of Shi				
Reinquished by: Lundler Lundler	919122	170	00	Company		Received by FedEx			edEx /				ate/Time			Company	
Relinquished by: \ FedEx	Date/Time:			Company		Received by:			(a)					ate/Time		2022 9:04	Company EX
Relinquished by:	Date/Time:			Company		Rec	eived b	у: (	D	1			Date/Time:				Company
Custody Seals Intact: Custody Seal No.						Coo	Cooler Temperature(s) °C and Other Remarks:										























#### **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 820-5728-1 SDG Number: AR227008

Login Number: 5728 List Source: Eurofins Lubbock

List Number: 1

Creator: Ruggles, Ashley

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

)J 1/4

## **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 820-5728-1

SDG Number: AR227008

Login Number: 5728 **List Source: Eurofins Houston** List Number: 2

List Creation: 09/10/22 11:28 AM

Creator: Milone, Jeancarlo

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

Released to Imaging: 5/18/2023 8:52:18 AM

<6mm (1/4").

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Joel Lowry Etech Environmental & Safety Solutions PO BOX 62228 Midland, Texas 79711

Generated 4/14/2023 9:18:33 AM Revision 1

# **JOB DESCRIPTION**

DCP #2 SDG NUMBER Lea County NM

# **JOB NUMBER**

820-7414-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424

# **Eurofins Lubbock**

### **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

### **Authorization**

Generated 4/14/2023 9:18:33 AM Revision 1

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Lubbock is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: Etech Environmental & Safety Solutions Project/Site: DCP #2

Laboratory Job ID: 820-7414-1 SDG: Lea County NM

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	18
Lab Chronicle	20
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receipt Checklists	28

Eurofins Lubbock 4/14/2023 (Rev. 1)

## **Definitions/Glossary**

Client: Etech Environmental & Safety Solutions

Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

**Qualifiers** 

#### **GC/MS VOA**

Qualifier

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
S1+	Surrogate recovery exceeds control limits, high biased.

Indicates the analyte was analyzed for but not detected.

#### GC/MS Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Indicates the analyte was analyzed for but not detected.

#### **Glossary**

Abbreviation These commonly used abbreviations may or n	ay not be present in this report.
---	-----------------------------------

¤ Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

**DER** Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

**Practical Quantitation Limit** PQL

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: Etech Environmental & Safety Solutions

Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

Job ID: 820-7414-1

**Laboratory: Eurofins Lubbock** 

Narrative

Job Narrative 820-7414-1

#### REVISION

The report being provided is a revision of the original report sent on 2/20/2023. The report (revision 1) is being revised due to Per client email, requesting sample ID correction.

Report revision history

#### Receipt

The samples were received on 2/13/2023 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 15.1°C

#### Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW 1 (820-7414-1), MW 2 (820-7414-2), MW 4 (820-7414-3), MW 5 (820-7414-4), MW 3 (820-7414-5), MW 7 (820-7414-6) and MW 8 (820-7414-7). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

#### GC/MS VOA

Method 8260C: Internal standard (ISTD) response for 1,4-Dichlorobenzene-d4 for the following samples in analytical batch 860-90101 was outside acceptance criteria: MW 2 (820-7414-2), MW 4 (820-7414-3), (MB 860-90101/10) and (860-42965-E-1). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

Method 8260C: The surrogate 4-Bromofluorobenzene (Surrogate) recovery for the blank associated with analytical batch 860-90283 was outside the upper control limits. This surrogate is not associated with any target analytes.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW 1 (820-7414-1). Elevated reporting limits (RLs) are provided.

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

#### GC/MS Semi VOA

Method 8270D SIM: Surrogate recovery for the following sample was outside control limits: MW 1 (820-7414-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

# **Client Sample Results**

Client: Etech Environmental & Safety Solutions

Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

Client Sample ID: MW 1

Lab Sample ID: 820-7414-1

Date Collected: 02/10/23 10:00 Date Received: 02/13/23 15:25 **Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.0176		0.00100		mg/L			02/15/23 22:29	1
Ethylbenzene	0.0778		0.00100		mg/L			02/15/23 22:29	1
m,p-Xylenes	0.136		0.0100		mg/L			02/15/23 22:29	1
o-Xylene	0.0442		0.00100		mg/L			02/15/23 22:29	1
Xylenes, Total	0.180		0.0100		mg/L			02/15/23 22:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 144			-		02/15/23 22:29	1
4-Bromofluorobenzene (Surr)	102		74 - 124					02/15/23 22:29	1
Dibromofluoromethane (Surr)	100		75 - 131					02/15/23 22:29	1
Toluene-d8 (Surr)	100		80 - 117					02/15/23 22:29	1
Method: SW846 8260C - Vo	latile Organic (	Compound	ds by GC/MS	- DL					
Analyte	•	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.180		0.00500		mg/L			02/16/23 13:28	5

method. Otto-to ozobo - tolatile organic compounds by como - be									
MDL Unit	D	Prepared	Analyzed	Dil Fac					
mg/L			02/16/23 13:28	5					
		Prepared	Analyzed	Dil Fac					
			02/16/23 13:28	5					
			02/16/23 13:28	5					
			02/16/23 13:28	5					
			02/16/23 13:28	5					
	MDL Unit	MDL Unit D	MDL unit D Prepared mg/L	MDL mg/L         Unit mg/L         D Prepared 02/16/23 13:28           Prepared 02/16/23 13:28         Analyzed 02/16/23 13:28           02/16/23 13:28         02/16/23 13:28           02/16/23 13:28         02/16/23 13:28					

Method: TAL SOP Total BTEX -	- Total BTE	X Calculation	on						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.456		0.0100		mg/L			02/16/23 17:21	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.000239		0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Acenaphthylene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Anthracene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Benzo[a]anthracene	0.000336		0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Benzo[a]pyrene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Benzo[b]fluoranthene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Benzo[g,h,i]perylene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Benzo[k]fluoranthene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Chrysene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Dibenz(a,h)anthracene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Fluoranthene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Fluorene	0.000979		0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Indeno[1,2,3-cd]pyrene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Naphthalene	0.00704		0.00368		mg/L		02/17/23 18:18	02/18/23 12:14	1
Phenanthrene	0.000605		0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Pyrene	0.000243		0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
1-Methylnaphthalene	0.00773		0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
2-Methylnaphthalene	0.00454		0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	199	S1+	54 - 146				02/17/23 18:18	02/18/23 12:14	1
Nitrobenzene-d5	226	S1+	46 - 151				02/17/23 18:18	02/18/23 12:14	1
p-Terphenyl-d14	115		51 <sub>-</sub> 139				02/17/23 18:18	02/18/23 12:14	1

Client: Etech Environmental & Safety Solutions

Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

Client Sample ID: MW 2

Date Collected: 02/09/23 09:00 Date Received: 02/13/23 15:25

Lab Sample ID: 820-7414-2

**Matrix: Water** 

			,						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/15/23 05:45	1
Toluene	<0.00100	U	0.00100		mg/L			02/15/23 05:45	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			02/15/23 05:45	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/15/23 05:45	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/15/23 05:45	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/15/23 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 144		02/15/23 05:45	1
4-Bromofluorobenzene (Surr)	124	*3	74 - 124		02/15/23 05:45	1
Dibromofluoromethane (Surr)	78		75 - 131		02/15/23 05:45	1
Toluene-d8 (Surr)	103		80 - 117		02/15/23 05:45	1

### Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	mg/L			02/16/23 17:21	1

Lab Sample ID: 820-7414-3 Client Sample ID: MW 4

Date Collected: 02/09/23 13:30 **Matrix: Water** Date Received: 02/13/23 15:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/15/23 06:05	1
Toluene	<0.00100	U	0.00100		mg/L			02/15/23 06:05	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			02/15/23 06:05	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/15/23 06:05	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/15/23 06:05	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/15/23 06:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		63 - 144		02/15/23 06:05	1
4-Bromofluorobenzene (Surr)	112	*3	74 - 124		02/15/23 06:05	1
Dibromofluoromethane (Surr)	75		75 - 131		02/15/23 06:05	1
Toluene-d8 (Surr)	105		80 - 117		02/15/23 06:05	1

Mathada TAI	COD Tatal DTEV	Tatal DTEV	Coloulation
i welnoa: IAL	. SOP Total BTEX	- IOIAI DIEA	Calculation

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motriou: i/tE oo: Total BTEX	Total BIEN Galoula							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.0100 U	0.0100	mg/L			02/16/23 17:21	1	

**Client Sample ID: MW 5** Lab Sample ID: 820-7414-4

Date Collected: 02/09/23 11:00 **Matrix: Water** Date Received: 02/13/23 15:25

/olatile Organic C	ompound	is by GC/MS						
Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
0.00509		0.00100		mg/L			02/16/23 13:48	1
<0.00100 l	J	0.00100		mg/L			02/16/23 13:48	1
0.00168		0.00100		mg/L			02/16/23 13:48	1
<0.0100 L	j	0.0100		mg/L			02/16/23 13:48	1
<0.00100 l	J	0.00100		mg/L			02/16/23 13:48	1
	Result 0.00509 <0.00100 0.00168 <0.0100 0	Result   Qualifier	Result 0.00509         Qualifier 0.00100           <0.00100 U 0.00100	0.00509         0.00100           <0.00100         0.00100           0.00168         0.00100           <0.0100         0.0100	Result   Qualifier   RL   MDL   Unit   mg/L	Result 0.00509         Qualifier 0.00100         RL 0.00100 mg/L mg/L mg/L         D 0.00100 mg/L           <0.00168	Result 0.00509         Qualifier 0.00100         RL mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/	Result 0.00509         Qualifier 0.00100         RL mg/L mg/L mg/L mg/L mg/L mg/L 0.00100         D mg/L 0.02/16/23 13:48           <0.00100 U 0.00100 mg/L 0.00100

## **Client Sample Results**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Lab Sample ID: 820-7414-4

Date Collected: 02/09/23 11:00 Date Received: 02/13/23 15:25

**Client Sample ID: MW 5** 

**Matrix: Water** 

Job ID: 820-7414-1

SDG: Lea County NM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/16/23 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144					02/16/23 13:48	1
4-Bromofluorobenzene (Surr)	116		74 - 124					02/16/23 13:48	1
Dibromofluoromethane (Surr)	92		75 - 131					02/16/23 13:48	1
Toluene-d8 (Surr)	109		80 - 117					02/16/23 13:48	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation** Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Total BTEX <0.0100 U 0.0100 mg/L 02/16/23 17:21

Client Sample ID: MW 3 Lab Sample ID: 820-7414-5

Date Collected: 02/09/23 12:00 **Matrix: Water** 

Date Received: 02/13/23 15:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/15/23 23:10	1
Toluene	<0.00100	U	0.00100		mg/L			02/15/23 23:10	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			02/15/23 23:10	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/15/23 23:10	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/15/23 23:10	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/15/23 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		02/15/23 23:10	1
4-Bromofluorobenzene (Surr)	117		74 - 124		02/15/23 23:10	1
Dibromofluoromethane (Surr)	94		75 - 131		02/15/23 23:10	1
Toluene-d8 (Surr)	108		80 - 117		02/15/23 23:10	1

Method: TAL SOP Total BTEX	- Total BTE	X Calculati	on						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100		mg/L	<del>_</del>		02/16/23 17:21	1

Client Sample ID: MW 7 Lab Sample ID: 820-7414-6 Date Collected: 02/09/23 14:00 **Matrix: Water** 

Date Received: 02/13/23 15:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/15/23 23:31	1
Toluene	< 0.00100	U	0.00100		mg/L			02/15/23 23:31	1
Ethylbenzene	< 0.00100	U	0.00100		mg/L			02/15/23 23:31	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/15/23 23:31	1
o-Xylene	< 0.00100	U	0.00100		mg/L			02/15/23 23:31	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/15/23 23:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	96		63 - 144					02/15/23 23:31	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		02/15/23 23:31	1
4-Bromofluorobenzene (Surr)	110		74 - 124		02/15/23 23:31	1
Dibromofluoromethane (Surr)	95		75 - 131		02/15/23 23:31	1

Job ID: 820-7414-1

## **Client Sample Results**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2 SDG: Lea County NM

**Client Sample ID: MW 7** Lab Sample ID: 820-7414-6 Date Collected: 02/09/23 14:00

**Matrix: Water** 

Date Received: 02/13/23 15:25

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107	80 - 117		02/15/23 23:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100		mg/L			02/16/23 17:21	1

Lab Sample ID: 820-7414-7 **Client Sample ID: MW 8** 

Date Collected: 02/09/23 14:28 **Matrix: Water** 

Date Received: 02/13/23 15:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/15/23 23:51	1
Toluene	<0.00100	U	0.00100		mg/L			02/15/23 23:51	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			02/15/23 23:51	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/15/23 23:51	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/15/23 23:51	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/15/23 23:51	1
Currogoto	% Pagayany	Qualifier	Limita				Branarad	Analyzad	Dil Ess

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144	_		02/15/23 23:51	1
4-Bromofluorobenzene (Surr)	112		74 - 124			02/15/23 23:51	1
Dibromofluoromethane (Surr)	85		75 - 131			02/15/23 23:51	1
Toluene-d8 (Surr)	105		80 - 117			02/15/23 23:51	1

Method: T	AL SOP	Total	RTFY.	Total	<b>RTFX</b>	Calculation
i wietiiou. I <i>r</i>	AL OUI	IOtai	DILA -	· IOtai	DILA	Calculation

Analyte	Result Qualif	fier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100 U	0.0100	mg/L			02/16/23 17:21	1

## **Surrogate Summary**

Client: Etech Environmental & Safety Solutions Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

# Method: 8260C - Volatile Organic Compounds by GC/MS

**Prep Type: Total/NA** 

			Pe	ercent Surro	ogate Re
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-117)
820-7414-1	MW 1	94	102	100	100
820-7414-1 - DL	MW 1	97	106	95	102
820-7414-2	MW 2	95	124 *3	78	103
820-7414-3	MW 4	89	112 *3	75	105
820-7414-4	MW 5	96	116	92	109
820-7414-5	MW 3	99	117	94	108
820-7414-6	MW 7	96	110	95	107
820-7414-7	MW 8	97	112	85	105
820-7415-B-3 MS	Matrix Spike	111	97	103	107
860-42965-C-1 MS	Matrix Spike	100	92	85	101
860-42965-C-1 MSD	Matrix Spike Duplicate	113	92	84	99
860-43164-E-3 MS	Matrix Spike	102	93	97	102
LCS 860-90101/3	Lab Control Sample	101	93	83	101
LCS 860-90283/1010	Lab Control Sample	112	102	102	102
LCS 860-90368/3	Lab Control Sample	104	93	98	102
LCSD 860-90101/4	Lab Control Sample Dup	91	93	81	102
LCSD 860-90283/11	Lab Control Sample Dup	104	99	103	103
LCSD 860-90368/4	Lab Control Sample Dup	112	98	96	102
MB 860-90101/10	Method Blank	96	114 *3	82	108
MB 860-90283/15	Method Blank	104	127 S1+	95	109
MB 860-90368/8	Method Blank	102	118	90	109

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

# Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

**Matrix: Water** Prep Type: Total/NA

_		Pe	ercent Surr	
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(54-146)	(46-151)	(51-139)
820-7414-1	MW 1	199 S1+	226 S1+	115
LCS 860-90690/2-A	Lab Control Sample	133	142	93
LCSD 860-90690/3-A	Lab Control Sample Dup	117	125	93
MB 860-90690/1-A	Method Blank	121	131	104

#### Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPHd14 = p-Terphenyl-d14

Client: Etech Environmental & Safety Solutions

Job ID: 820-7414-1 SDG: Lea County NM Project/Site: DCP #2

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-90101/10

**Matrix: Water** 

**Analysis Batch: 90101** 

Client Sample	ID: Method Blank
Pr	ep Type: Total/NA

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Dil Fac Analyzed Benzene <0.00100 U 0.00100 mg/L 02/15/23 00:57 Toluene <0.00100 U 0.00100 mg/L 02/15/23 00:57 1 Ethylbenzene <0.00100 U 0.00100 mg/L 02/15/23 00:57 m,p-Xylenes <0.0100 U 0.0100 mg/L 02/15/23 00:57 o-Xylene <0.00100 U 0.00100 mg/L 02/15/23 00:57 Xylenes, Total <0.0100 U 0.0100 mg/L 02/15/23 00:57

		MB	MB				
;	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
7	1,2-Dichloroethane-d4 (Surr)	96		63 - 144		02/15/23 00:57	1
4	4-Bromofluorobenzene (Surr)	114	*3	74 - 124		02/15/23 00:57	1
1	Dibromofluoromethane (Surr)	82		75 - 131		02/15/23 00:57	1
Ľ	Toluene-d8 (Surr)	108		80 - 117		02/15/23 00:57	1

Lab Sample ID: LCS 860-90101/3

**Matrix: Water** 

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m,p-Xylenes

**Analysis Batch: 90101** 

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

LCS LCS Spike %Rec Added Result Qualifier Limits Unit D %Rec 0.0500 0.04434 89 75 - 125 mg/L 0.0500 0.04666 mg/L 93 70 - 130 0.0500 0.04643 93 75 - 125 mg/L 75 - 125 0.0500 0.04714 mg/L 94 0.0500 0.04934 mg/L 99 75 - 125

LCS LCS %Recovery Qualifier

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
4-Bromofluorobenzene (Surr)	93		74 - 124
Dibromofluoromethane (Surr)	83		75 - 131
Toluene-d8 (Surr)	101		80 - 117

Lab Sample ID: LCSD 860-90101/4

**Matrix: Water** 

**Analysis Batch: 90101** 

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

Spike LCSD LCSD %Rec RPD RPD **Analyte** Added Result Qualifier Unit D %Rec Limits Limit Benzene 0.0500 0.04435 89 75 - 125 25 mg/L 0.0500 25 Toluene 0.04652 mg/L 93 70 - 130 0 Ethylbenzene 0.0500 0.04712 94 75 - 125 25 mg/L m,p-Xylenes 0.0500 0.04901 mg/L 98 75 - 125 25 o-Xylene 0.0500 0.04831 mg/L 97 75 - 125 25

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 144
4-Bromofluorobenzene (Surr)	93		74 - 124
Dibromofluoromethane (Surr)	81		75 - 131
Toluene-d8 (Surr)	102		80 - 117

Client: Etech Environmental & Safety Solutions

Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-42965-C-1 MS

**Matrix: Water** 

**Analysis Batch: 90101** 

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

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Benzene <0.00100 U 0.0500 0.04673 mg/L 93 66 - 142 Toluene <0.00100 U 0.0500 0.04993 mg/L 100 59 - 139 Ethylbenzene <0.00100 U 0.0500 0.05086 mg/L 102 75 - 125 m,p-Xylenes <0.0100 U 0.0500 0.05237 mg/L 105 75 - 125 <0.00100 U 0.0500 o-Xylene 0.05375 mg/L 107 75 - 125

MS MS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 63 - 144 100 92 4-Bromofluorobenzene (Surr) 74 - 124 Dibromofluoromethane (Surr) 85 75 - 131 Toluene-d8 (Surr) 101 80 - 117

Sample Sample

Lab Sample ID: 860-42965-C-1 MSD

**Matrix: Water** 

**Analysis Batch: 90101** 

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

%Rec

RPD

	Analyte	Result	Qualifier	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Benzene	<0.00100	U	0.0500	0.04522	mg/L		90	66 - 142	3	25
l	Toluene	<0.00100	U	0.0500	0.04707	mg/L		94	59 - 139	6	25
	Ethylbenzene	<0.00100	U	0.0500	0.04711	mg/L		94	75 - 125	8	25
١	m,p-Xylenes	<0.0100	U	0.0500	0.04845	mg/L		97	75 - 125	8	25
	o-Xylene	<0.00100	U	0.0500	0.05057	mg/L		101	75 - 125	6	25
		MSD	MSD								

MSD MSD

Spike

	MISD	WISD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		63 - 144
4-Bromofluorobenzene (Surr)	92		74 - 124
Dibromofluoromethane (Surr)	84		75 - 131
Toluene-d8 (Surr)	99		80 - 117

Lab Sample ID: MB 860-90283/15

**Matrix: Water** 

**Analysis Batch: 90283** 

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

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/15/23 19:04	1
Toluene	<0.00100	U	0.00100		mg/L			02/15/23 19:04	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			02/15/23 19:04	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/15/23 19:04	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/15/23 19:04	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/15/23 19:04	1

	MB M	ИВ				
Surrogate	%Recovery Q	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		02/15/23 19:04	1
4-Bromofluorobenzene (Surr)	127 S	S1+	74 - 124		02/15/23 19:04	1
Dibromofluoromethane (Surr)	95		75 - 131		02/15/23 19:04	1
Toluene-d8 (Surr)	109		80 - 117		02/15/23 19:04	1

Client: Etech Environmental & Safety Solutions

Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-90283/1010

**Matrix: Water** 

**Analysis Batch: 90283** 

<b>Client Sample</b>	<b>ID: Lab Control Sample</b>
	Prep Type: Total/NA

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.05290		mg/L		106	75 - 125	
Toluene	0.0500	0.05448		mg/L		109	70 - 130	
Ethylbenzene	0.0500	0.05458		mg/L		109	75 - 125	
m,p-Xylenes	0.0500	0.05357		mg/L		107	75 - 125	
o-Xylene	0.0500	0.05552		mg/L		111	75 - 125	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 112 63 - 144 4-Bromofluorobenzene (Surr) 102 74 - 124 Dibromofluoromethane (Surr) 102 75 - 131 Toluene-d8 (Surr) 102 80 - 117

Lab Sample ID: LCSD 860-90283/11

**Matrix: Water** 

**Analysis Batch: 90283** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene 0.0500 0.05181 75 - 125 2 mg/L 104 25 Toluene 0.0500 0.05390 108 70 - 130 25 mg/L 1 25 Ethylbenzene 0.0500 0.05291 mg/L 106 75 - 125 3 m,p-Xylenes 0.0500 0.05280 mg/L 106 75 - 125 25 0.0500 0.05338 107 o-Xylene mg/L 75 - 125 25

	LUSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	103		75 - 131
Toluene-d8 (Surr)	103		80 - 117

Lab Sample ID: 820-7415-B-3 MS

**Matrix: Water** 

**Analysis Batch: 90283** 

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00100	U	0.0500	0.05372		mg/L		107	66 - 142	
Toluene	<0.00100	U	0.0500	0.05804		mg/L		116	59 - 139	
Ethylbenzene	<0.00100	U	0.0500	0.05655		mg/L		113	75 - 125	
m,p-Xylenes	<0.0100	U	0.0500	0.05555		mg/L		111	75 - 125	
o-Xylene	<0.00100	U	0.0500	0.05633		mg/L		113	75 - 125	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	103		75 - 131
Toluene-d8 (Surr)	107		80 - 117

**Eurofins Lubbock** 

Released to Imaging: 5/18/2023 8:52:18 AM

Client: Etech Environmental & Safety Solutions Project/Site: DCP #2

Job ID: 820-7414-1 SDG: Lea County NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-90368/8 **Client Sample ID: Method Blank Matrix: Water** 

Prep Type: Total/NA

**Analysis Batch: 90368** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/16/23 11:45	1
Toluene	<0.00100	U	0.00100		mg/L			02/16/23 11:45	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			02/16/23 11:45	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/16/23 11:45	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/16/23 11:45	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/16/23 11:45	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 1,2-Dichloroethane-d4 (Surr) 63 - 144 102 02/16/23 11:45 4-Bromofluorobenzene (Surr) 118 74 - 124 02/16/23 11:45 75 - 131 Dibromofluoromethane (Surr) 90 02/16/23 11:45 Toluene-d8 (Surr) 109 80 - 117 02/16/23 11:45

Lab Sample ID: LCS 860-90368/3 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 90368** 

o-Xylene

LCS LCS Spike %Rec Analyte Added Result Qualifier Limits Unit D %Rec Benzene 0.0500 0.04989 100 75 - 125 mg/L Toluene 0.0500 0.05054 101 70 - 130 mg/L Ethylbenzene 0.0500 0.04794 96 75 - 125 mg/L m,p-Xylenes 0.0500 0.04708 mg/L 94 75 - 125

0.04931

mg/L

99

75 - 125

0.0500

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
4-Bromofluorobenzene (Surr)	93		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	102		80 - 117

Lab Sample ID: LCSD 860-90368/4 **Client Sample ID: Lab Control Sample Dup Matrix: Water Prep Type: Total/NA** 

**Analysis Batch: 90368** 

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.04725	mg/L		94	75 - 125	5	25
Toluene	0.0500	0.04974	mg/L		99	70 - 130	2	25
Ethylbenzene	0.0500	0.04660	mg/L		93	75 - 125	3	25
m,p-Xylenes	0.0500	0.04668	mg/L		93	75 - 125	1	25
o-Xylene	0.0500	0.04725	mg/L		94	75 - 125	4	25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	96		75 - 131
Toluene-d8 (Surr)	102		80 - 117

Client: Etech Environmental & Safety Solutions

Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

# Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-43164-E-3 MS

**Matrix: Water** 

Analysis Batch: 90368

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00100	U	0.0500	0.05269		mg/L		105	66 - 142	
Toluene	<0.00100	U	0.0500	0.05443		mg/L		109	59 - 139	
Ethylbenzene	<0.00100	U	0.0500	0.05326		mg/L		107	75 - 125	
m,p-Xylenes	<0.0100	U	0.0500	0.05321		mg/L		106	75 - 125	
o-Xylene	< 0.00100	U	0.0500	0.05349		mg/L		107	75 - 125	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
4-Bromofluorobenzene (Surr)	93		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
Toluene-d8 (Surr)	102		80 - 117

### Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 860-90690/1-A

**Matrix: Water** 

**Analysis Batch: 90707** 

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 90690

MB MB Analyte Result Qualifier RL **MDL** Unit **Prepared** Analyzed Dil Fac <0.000187 U 0.000187 02/17/23 18:18 02/18/23 11:55 Acenaphthene mg/L Acenaphthylene <0.000187 U 0.000187 mg/L 02/17/23 18:18 02/18/23 11:55 Anthracene mg/L 02/17/23 18:18 02/18/23 11:55 <0.000187 U 0.000187 Benzo[a]anthracene <0.000187 U 0.000187 mg/L 02/17/23 18:18 02/18/23 11:55 mg/L 02/17/23 18:18 02/18/23 11:55 Benzo[a]pyrene <0.000187 U 0.000187 Benzo[b]fluoranthene <0.000187 U 0.000187 mg/L 02/17/23 18:18 02/18/23 11:55 Benzo[g,h,i]perylene <0.000187 U 0.000187 mg/L 02/17/23 18:18 02/18/23 11:55 Benzo[k]fluoranthene <0.000187 U 0.000187 mg/L 02/17/23 18:18 02/18/23 11:55 Chrysene <0.000187 U 0.000187 mg/L 02/17/23 18:18 02/18/23 11:55 Dibenz(a,h)anthracene <0.000187 U 0.000187 mg/L 02/17/23 18:18 02/18/23 11:55 Fluoranthene <0.000187 U 0.000187 mg/L 02/17/23 18:18 02/18/23 11:55 Fluorene mg/L 02/17/23 18:18 02/18/23 11:55 <0.000187 U 0.000187 02/17/23 18:18 02/18/23 11:55 Indeno[1,2,3-cd]pyrene <0.000187 U 0.000187 mg/L Naphthalene <0.00375 U 0.00375 mg/L 02/17/23 18:18 02/18/23 11:55 Phenanthrene <0.000187 U 0.000187 mg/L 02/17/23 18:18 02/18/23 11:55 Pyrene <0.000187 U 0.000187 02/17/23 18:18 02/18/23 11:55 mg/L 1-Methylnaphthalene <0.000187 U 0.000187 mg/L 02/17/23 18:18 02/18/23 11:55 2-Methylnaphthalene <0.000187 U 0.000187 mg/L 02/17/23 18:18 02/18/23 11:55

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	121		54 - 146	02/17/23 18:18	02/18/23 11:55	1
Nitrobenzene-d5	131		46 - 151	02/17/23 18:18	02/18/23 11:55	1
p-Terphenyl-d14	104		51 - 139	02/17/23 18:18	02/18/23 11:55	1

Client: Etech Environmental & Safety Solutions Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 860-90690/2-A

**Matrix: Water** 

**Analysis Batch: 90707** 

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

Prep Batch: 90690

	Spike	LCS LCS			%Rec	
Analyte	Added	Result Qualifier	Unit	D %Rec	Limits	
Acenaphthene	0.0183	0.02486	mg/L	135	66 - 174	
Acenaphthylene	0.0183	0.02491	mg/L	136	67 - 182	
Anthracene	0.0183	0.02613	mg/L	142	55 - 191	
Benzo[a]anthracene	0.0183	0.01491	mg/L	81	16 - 171	
Benzo[a]pyrene	0.0183	0.01676	mg/L	91	10 - 165	
Benzo[b]fluoranthene	0.0183	0.01390	mg/L	76	10 - 166	
Benzo[g,h,i]perylene	0.0183	0.01433	mg/L	78	10 - 154	
Benzo[k]fluoranthene	0.0183	0.01825	mg/L	99	10 - 178	
Chrysene	0.0183	0.02021	mg/L	110	10 - 172	
Dibenz(a,h)anthracene	0.0183	0.01453	mg/L	79	10 - 168	
Fluoranthene	0.0183	0.02319	mg/L	126	52 - 185	
Fluorene	0.0183	0.02509	mg/L	137	64 - 184	
Indeno[1,2,3-cd]pyrene	0.0183	0.01456	mg/L	79	10 - 160	
Naphthalene	0.0183	0.02406	mg/L	131	66 - 166	
Phenanthrene	0.0183	0.02299	mg/L	125	66 - 184	
Pyrene	0.0183	0.02280	mg/L	124	58 - 181	
1-Methylnaphthalene	0.0183	0.02488	mg/L	136	64 - 167	
2-Methylnaphthalene	0.0183	0.02402	mg/L	131	63 - 166	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	133		54 - 146
Nitrobenzene-d5	142		46 - 151
p-Terphenyl-d14	93		51 - 139

Lab Sample ID: LCSD 860-90690/3-A

**Matrix: Water** 

Analysis Batch: 90707

Client	<b>Sample</b>	ID:	Lab	Contro	I San	nple	Dup
					_		

**Prep Type: Total/NA** Prep Batch: 90690

Analysis Batch: 90/0/							Prep E	satcn: s	90690
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthene	0.0188	0.02354		mg/L		125	66 - 174	5	40
Acenaphthylene	0.0188	0.02358		mg/L		125	67 - 182	5	40
Anthracene	0.0188	0.02477		mg/L		132	55 - 191	5	40
Benzo[a]anthracene	0.0188	0.01532		mg/L		81	16 - 171	3	50
Benzo[a]pyrene	0.0188	0.01753		mg/L		93	10 - 165	4	50
Benzo[b]fluoranthene	0.0188	0.01459		mg/L		77	10 - 166	5	50
Benzo[g,h,i]perylene	0.0188	0.01518		mg/L		81	10 - 154	6	50
Benzo[k]fluoranthene	0.0188	0.01894		mg/L		101	10 - 178	4	50
Chrysene	0.0188	0.02028		mg/L		108	10 - 172	0	50
Dibenz(a,h)anthracene	0.0188	0.01526		mg/L		81	10 - 168	5	50
Fluoranthene	0.0188	0.02246		mg/L		119	52 - 185	3	40
Fluorene	0.0188	0.02388		mg/L		127	64 - 184	5	40
Indeno[1,2,3-cd]pyrene	0.0188	0.01528		mg/L		81	10 - 160	5	50
Naphthalene	0.0188	0.02195		mg/L		117	66 - 166	9	40
Phenanthrene	0.0188	0.02192		mg/L		116	66 - 184	5	40
Pyrene	0.0188	0.02177		mg/L		116	58 - 181	5	40
1-Methylnaphthalene	0.0188	0.02242		mg/L		119	64 - 167	10	40
2-Methylnaphthalene	0.0188	0.02188		mg/L		116	63 - 166	9	40

**Eurofins Lubbock** 

Released to Imaging: 5/18/2023 8:52:18 AM

Client: Etech Environmental & Safety Solutions Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

# Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Limits

54 - 146

46 - 151

51 - 139

LCSD LCSD %Recovery Qualifier

117

125

93

Lab Sample ID: LCSD 860-90690/3-A

**Matrix: Water** 

2-Fluorobiphenyl

Nitrobenzene-d5

p-Terphenyl-d14

Surrogate

**Analysis Batch: 90707** 

<b>Client Sample ID:</b>	Lab Contro	I Sample	Dup
	Prep 1	ype: Tota	I/N/

Prep Batch: 90690

# **QC Association Summary**

Client: Etech Environmental & Safety Solutions

Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

### **GC/MS VOA**

### **Analysis Batch: 90101**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7414-2	MW 2	Total/NA	Water	8260C	
820-7414-3	MW 4	Total/NA	Water	8260C	
MB 860-90101/10	Method Blank	Total/NA	Water	8260C	
LCS 860-90101/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-90101/4	Lab Control Sample Dup	Total/NA	Water	8260C	
860-42965-C-1 MS	Matrix Spike	Total/NA	Water	8260C	
860-42965-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

#### **Analysis Batch: 90283**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7414-1	MW 1	Total/NA	Water	8260C	_
820-7414-5	MW 3	Total/NA	Water	8260C	
820-7414-6	MW 7	Total/NA	Water	8260C	
820-7414-7	MW 8	Total/NA	Water	8260C	
MB 860-90283/15	Method Blank	Total/NA	Water	8260C	
LCS 860-90283/1010	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-90283/11	Lab Control Sample Dup	Total/NA	Water	8260C	
820-7415-B-3 MS	Matrix Spike	Total/NA	Water	8260C	

#### **Analysis Batch: 90368**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7414-1 - DL	MW 1	Total/NA	Water	8260C	<u> </u>
820-7414-4	MW 5	Total/NA	Water	8260C	
MB 860-90368/8	Method Blank	Total/NA	Water	8260C	
LCS 860-90368/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-90368/4	Lab Control Sample Dup	Total/NA	Water	8260C	
860-43164-E-3 MS	Matrix Spike	Total/NA	Water	8260C	

#### **Analysis Batch: 90488**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7414-1	MW 1	Total/NA	Water	Total BTEX	
820-7414-2	MW 2	Total/NA	Water	Total BTEX	
820-7414-3	MW 4	Total/NA	Water	Total BTEX	
820-7414-4	MW 5	Total/NA	Water	Total BTEX	
820-7414-5	MW 3	Total/NA	Water	Total BTEX	
820-7414-6	MW 7	Total/NA	Water	Total BTEX	
820-7414-7	MW 8	Total/NA	Water	Total BTEX	

#### GC/MS Semi VOA

# Prep Batch: 90690

Lab Sample ID 820-7414-1	Client Sample ID	Prep Type Total/NA	Matrix Water	Method 3511	Prep Batch
MB 860-90690/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-90690/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-90690/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

#### **Analysis Batch: 90707**

Released to Imaging: 5/18/2023 8:52:18 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7414-1	MW 1	Total/NA	Water	8270D SIM	90690
MB 860-90690/1-A	Method Blank	Total/NA	Water	8270D SIM	90690

# **QC Association Summary**

Client: Etech Environmental & Safety Solutions

Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

## **GC/MS Semi VOA (Continued)**

#### **Analysis Batch: 90707 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-90690/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	90690
LCSD 860-90690/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	90690

Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

Client Sample ID: MW 1

Date Collected: 02/10/23 10:00 Date Received: 02/13/23 15:25

Lab Sample ID: 820-7414-1

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	90283	02/15/23 22:29	AN	EET HOU
Total/NA	Analysis	8260C	DL	5	5 mL	5 mL	90368	02/16/23 13:28	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			90488	02/16/23 17:21	AN	EET HOU
Total/NA	Prep	3511			54.4 mL	2 mL	90690	02/17/23 18:18	RC	EET HOU
Total/NA	Analysis	8270D SIM		1	1 mL	1 mL	90707	02/18/23 12:14	PXS	EET HOU

Client Sample ID: MW 2 Lab Sample ID: 820-7414-2 Date Collected: 02/09/23 09:00 **Matrix: Water** 

Date Received: 02/13/23 15:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			5 mL	5 mL	90101	02/15/23 05:45	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			90488	02/16/23 17:21	AN	EET HOU

Client Sample ID: MW 4 Lab Sample ID: 820-7414-3 **Matrix: Water** 

Date Collected: 02/09/23 13:30 Date Received: 02/13/23 15:25

Batch Batch Dil Initial Final Batch Prepared Method Factor Amount or Analyzed **Prep Type** Type Run Amount Number Analyst Lab Total/NA 8260C 90101 02/15/23 06:05 AN Analysis 5 mL EET HOU 5 mL Total/NA 02/16/23 17:21 AN Analysis Total BTEX 1 90488 **EET HOU** 

Client Sample ID: MW 5 Lab Sample ID: 820-7414-4 **Matrix: Water** 

Date Collected: 02/09/23 11:00 Date Received: 02/13/23 15:25

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	90368	02/16/23 13:48	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			90488	02/16/23 17:21	AN	EET HOU

Client Sample ID: MW 3 Lab Sample ID: 820-7414-5 Date Collected: 02/09/23 12:00 **Matrix: Water** 

Date Received: 02/13/23 15:25

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type Total/NA	Type Analysis	Method 8260C	Run	Factor	Amount 5 mL	Amount 5 mL	Number 90283	or Analyzed 02/15/23 23:10	Analyst AN	EET HOU
Total/NA	Analysis	Total BTEX		1	O IIIE	0 1112	90488	02/16/23 17:21	AN	EET HOU

Lab Sample ID: 820-7414-6 Client Sample ID: MW 7 Date Collected: 02/09/23 14:00 **Matrix: Water** 

Date Received: 02/13/23 15:25

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	90283	02/15/23 23:31	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			90488	02/16/23 17:21	AN	EET HOU

Date Received: 02/13/23 15:25

### **Lab Chronicle**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 820-7414-1 SDG: Lea County NM

**Client Sample ID: MW 8** Lab Sample ID: 820-7414-7 Date Collected: 02/09/23 14:28

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	90283	02/15/23 23:51	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			90488	02/16/23 17:21	AN	EET HOU

**Laboratory References:** 

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

# **Accreditation/Certification Summary**

Client: Etech Environmental & Safety Solutions

Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

# **Laboratory: Eurofins Houston**

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

Authority	Program	Identification Number	<b>Expiration Date</b>
Arkansas DEQ	State	88-00759	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-23-50	03-13-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-02-23

# **Method Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 820-7414-1 SDG: Lea County NM

Method **Method Description** Protocol Laboratory Volatile Organic Compounds by GC/MS EET HOU 8260C SW846 **Total BTEX** TAL SOP **Total BTEX Calculation EET HOU** 8270D SIM Semivolatile Organic Compounds (GC/MS SIM) SW846 **EET HOU** 3511 Microextraction of Organic Compounds SW846 EET HOU 5030C Purge and Trap SW846 **EET HOU** 

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### **Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

**Eurofins Lubbock** 

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# **Sample Summary**

Client: Etech Environmental & Safety Solutions

Job ID: 820-7414-1 Project/Site: DCP #2 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-7414-1	MW 1	Water	02/10/23 10:00	02/13/23 15:25
820-7414-2	MW 2	Water	02/09/23 09:00	02/13/23 15:25
820-7414-3	MW 4	Water	02/09/23 13:30	02/13/23 15:25
820-7414-4	MW 5	Water	02/09/23 11:00	02/13/23 15:25
820-7414-5	MW 3	Water	02/09/23 12:00	02/13/23 15:25
820-7414-6	MW 7	Water	02/09/23 14:00	02/13/23 15:25
820-7414-7	MW 8	Water	02/09/23 14:28	02/13/23 15:25

Loc: 820 7414

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**Environment Testing** Xenco

# **Chain of Custody**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

and 7444 Chain of Custody	

820-7414 Chain of Custoo

																		www.	xenco.co	om Page	or
Project Manager:	Joel L	-owr-	1		Bill to: (if	different	t)		1									We	ork Orde	er Comments	
Company Name:		Envi	SonmorA	2(	Compan	y Name	):								Pro	gram: (	UST/P	ST[] F	PRF∏ Bi	rownfields RR	Superfund
Address:	7-12				Address:						70.00				Stat	e of Pr	oject:				
City, State ZIP:					City, Stat	te ZIP:									Rep	orting:	Level I	I∏ Le	vel III 🗌	PST/UST TRR	F□ Level I'□
Phone:	806-72	1-59	43	Email:	Pr	10	et	eeh	enu	. Co.	<u> </u>				Deli	verable	s: ED	D 🗆	AD	aPT D Other	
Project Name:	OCP #	2		Turn	Around		- 1				-	-	ANALY	SIS RE	QUES	T				Preserva	tive Codes
Project Number:	17472			<b>₽</b> /Routine	☐ Rush		Pres. Code				4									None: NO	DI Water: H₂O
Project Location:	Lea Count	13. N	M	Due Date:		- 1														Cool: Cool	MeOH: Me
Sampler's Name:		dor		TAT starts th													100			HCL: HC	HNO <sub>3</sub> : HN
PO #:				the lab, if red	eived by 4	:30pm	2	1		9	1					31	1			H₂S0₄: H₂	NaOH: Na
SAMPLE RECEI		Blank:	Yes (No	Wet Ice:	(e)	No	nete													H₃PO₄: HP	
Samples Received In	ntact: Yes	No	Thermomet	er ID:	20	-4	Ē	- 3			1			Ì	4		1			NaHSO₄: NABI	S
Cooler Custody Seals	s: Yes No		Correction I	actor:	-(		ď													Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSC	D <sub>3</sub>
Sample Custody Sea			Temperatur	e Reading:	15			~											l i	Zn Acetate+Na	OH: Zn
Total Containers:	23		Corrected 7	emperature:	15	1.		I	#											NaOH+Ascorbi	c Acid: SAPC
Sample Iden	ntification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	18	PA						1					Sample	Comments
MWI		W	2/10/23	W:00	-	6	15	X	X												
Mal 2		W	2/9/23	9:00	_	G	3	X													
MW 4		W	2/9/23	1:30	-	G	3	X													
MWS		W	2/9/23	11:00	1	G	3	X													
MW 6		W	2/9/23	12:00	-	6	3	X													
MW 7		W	2/9/23	2:00	_	G	3	X													
MWB		W	7/9/23	2:28	_	6	3	X					-								

Total 200.7 / 6010 200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B	Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se	e Ag SiO₂ Na Sr Tl Sn U V Zn
ircle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA Sb As Ba Be C	Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

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**Eurofins Lubbock** 6701 Aberdeen Ave. Suite 8

Lubbock, TX 79424

# **Chain of Custody Record**



🔆 eurofins

**Environment Testing** 

Received by OCD: 4/17/2023 9:41:13 AM

Phone: 806-794-1296													-0.							
Client Information (Sub Contract Lab)	Sampler				b PM: amer	Jess	ca					Сапте	er Track	ing No(s	):		COC No: 820-8036.1	1		· - ·
Client Contact Shipping/Receiving	Phone:				Mail; ≳ssica.	. <b>Kr</b> am	er@e	et.eur	ofinsus	s.com		State Texa	of Örigi as	n:			Page: Page 1 of	1		
Company Eurofins Environment Testing South Centr									i (See n a; NEL	cte): AP Te	xas						Job#. 820-7414-	1		
Address: 4145 Greenbriar Dr	Due Date Requested 2/17/2023	i:			Т				Aı	nalysi	s Re	ques	ted				Preservatio		s: M Hexane	
City Stafford	TAT Requested (day	/s):					T		T					$\top$	$\prod$		B NaOH C Z∩ Aceta		N None O AsNaO2 P Na2Q49	
State, Zip: TX, 77477								arbons									E NaHSQ4	d	Q Na2SO3 R Na2S2Q	3
Phone: 281-240-4200(Tel)	PO#.							ydroo									G Amehlor	Acid		decahydrate
Email:	W0#.				100	(19)		metic F						1			i ice J DiWaler		U Acetone V MCAA W pH 4-5	•
Project Name: General Etech	Project #: 88000073				1.00	- 5°		lo Aro									L EDA		Y Trizma Z other(sp	pecify)
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MW 4 (820-7414-3)	2/9/23	13:30 Central		Water	$\top$		x   ;	х	┼		+			+	$\Box$					
MW 5 (820-7414-4)	2/9/23	11:00 Central		Water	П		x   :	x								૽૽				
MW 6 (820-7414-5)	2/9/23	12:00 Central		Water			<b>x</b> :	х								4				
MW 7 (820-7414-6)	2/9/23	14:00 Central		Water	Ш	Ш	<b>x</b> :	х												
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Received by OCD: 4/17/2023 9:41:13 AM

6701 Aberdeen Ave., Suite 8

Client Information (Sub Contract Lab)

Lubbock, TX 79424

Client Contact
Shipping/Receiving

Phone; 806-794-1296





Sampler

Phone:





# **Chain of Custody Record**

Kramer Jessica

Jessica.Kramer@et.eurofinsus.com

E-Mail:

Carrier Tracking No(s):

State of Origin:

Texas

💸 eurofins |

COC No: 820-6036 1

Page 1 of 1

Page:

Environment Testing

4/14/2023 (Rev. 1)

Page 27 of 29

Released to Imaging: 5/18/2023 8:52:18 AM

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### **Login Sample Receipt Checklist**

Client: Etech Environmental & Safety Solutions

Job Number: 820-7414-1 SDG Number: Lea County NM

**List Source: Eurofins Lubbock** 

Login Number: 7414 List Number: 1

<6mm (1/4").

Released to Imaging: 5/18/2023 8:52:18 AM

Creator: Ruggles, Ashley

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

**Eurofins Lubbock** Page 28 of 29 4/14/2023 (Rev. 1)

## **Login Sample Receipt Checklist**

Client: Etech Environmental & Safety Solutions

Job Number: 820-7414-1 SDG Number: Lea County NM

**List Source: Eurofins Houston** List Creation: 02/14/23 12:17 PM

Login Number: 7414 List Number: 2

Creator: Palmar, Pedro

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

**Eurofins Lubbock** 

Released to Imaging: 5/18/2023 8:52:18 AM

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Joel Lowry Etech Environmental & Safety Solutions PO BOX 62228 Midland, Texas 79711

Generated 3/3/2023 1:09:36 PM

# **JOB DESCRIPTION**

DCP #2 SDG NUMBER Lea County NM

# **JOB NUMBER**

880-25365-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

# **Eurofins Midland**

## **Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

# **Authorization**

Generated 3/3/2023 1:09:36 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

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Client: Etech Environmental & Safety Solutions Project/Site: DCP #2

Laboratory Job ID: 880-25365-1 SDG: Lea County NM

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	10
Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receint Checklists	17

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10

11

13

14

## **Definitions/Glossary**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 880-25365-1 SDG: Lea County NM

#### **Qualifiers**

#### **GC VOA**

Qualifier	Qualifier Description						
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.						
U	Indicates the analyte was analyzed for but not detected.						

Glossary								
Abbreviation	These commonly used abbreviations may or may not be present in this report.							
n	Listed under the "D" column to designate that the result is reported on a dry weight basis							
%R	Percent Recovery							
CFL	Contains Free Liquid							
CFU	Colony Forming Unit							
CNF	Contains No Free Liquid							
DER	Duplicate Error Ratio (normalized absolute difference)							
Dil Fac	Dilution Factor							
DL	Detection Limit (DoD/DOE)							
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample							
DLC	Decision Level Concentration (Radiochemistry)							
EDL	Estimated Detection Limit (Dioxin)							
LOD	Limit of Detection (DoD/DOE)							
LOQ	Limit of Quantitation (DoD/DOE)							
MCL	EPA recommended "Maximum Contaminant Level"							
MDA	Minimum Detectable Activity (Radiochemistry)							
MDC	Minimum Detectable Concentration (Radiochemistry)							
MDL	Method Detection Limit							
ML	Minimum Level (Dioxin)							

MPN MQL

NC

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

Most Probable Number

Not Calculated

Method Quantitation Limit

Negative / Absent NEG POS Positive / Present

PQL Practical Quantitation Limit

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Etech Environmental & Safety Solutions

Job ID: 880-25365-1 Project/Site: DCP #2 SDG: Lea County NM

Job ID: 880-25365-1

**Laboratory: Eurofins Midland** 

Narrative

Job Narrative 880-25365-1

#### Receipt

The sample was received on 3/1/2023 4:37 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C

#### GC VOA

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

## **Client Sample Results**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 880-25365-1

SDG: Lea County NM

Lab Sample ID: 880-25365-1 Matrix: Water

**Client Sample ID: MW-6** 

Date Collected: 02/17/23 09:00 Date Received: 03/01/23 16:37

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/03/23 02:06	1
Toluene	< 0.000367	U	0.00200	0.000367	mg/L			03/03/23 02:06	1
Ethylbenzene	< 0.000657	U	0.00200	0.000657	mg/L			03/03/23 02:06	1
m-Xylene & p-Xylene	0.000712	J	0.00400	0.000629	mg/L			03/03/23 02:06	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 02:06	1
Xylenes, Total	0.000712	J	0.00400	0.000642	mg/L			03/03/23 02:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			-		03/03/23 02:06	1
1,4-Difluorobenzene (Surr)	108		70 - 130					03/03/23 02:06	1
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000712		0.00400	0.000657	mg/L			03/03/23 13:22	1

**Eurofins Midland** 

Page 6 of 17 Released to Imaging: 5/18/2023 8:52:18 AM

# **Surrogate Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 880-25365-1 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-25365-1	MW-6	110	108	
880-25365-1 MS	MW-6	114	112	
880-25365-1 MSD	MW-6	112	109	
LCS 880-47605/34	Lab Control Sample	115	110	
LCSD 880-47605/35	Lab Control Sample Dup	114	109	
MB 880-47338/5-A	Method Blank	104	104	
MB 880-47605/39	Method Blank	104	103	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

**Eurofins Midland** 

### **QC Sample Results**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 880-25365-1

SDG: Lea County NM

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

Lab Sample ID: MB 880-47338/5-A

Analysis Batch: 47605

**Matrix: Water** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47338

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		02/27/23 14:58	03/02/23 13:30	1
Toluene	< 0.000367	U	0.00200	0.000367	mg/L		02/27/23 14:58	03/02/23 13:30	1
Ethylbenzene	< 0.000657	U	0.00200	0.000657	mg/L		02/27/23 14:58	03/02/23 13:30	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		02/27/23 14:58	03/02/23 13:30	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		02/27/23 14:58	03/02/23 13:30	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		02/27/23 14:58	03/02/23 13:30	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/27/23 14:58	03/02/23 13:30	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/27/23 14:58	03/02/23 13:30	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 47605

**Matrix: Water** 

Lab Sample ID: MB 880-47605/39

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/03/23 01:38	1
Toluene	< 0.000367	U	0.00200	0.000367	mg/L			03/03/23 01:38	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 01:38	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 01:38	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 01:38	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 01:38	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130		03/03/23 01:38	1
1,4-Difluorobenzene (Surr)	103		70 - 130		03/03/23 01:38	1

Lab Sample ID: LCS 880-47605/34

**Matrix: Water** 

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 47605

Client Sample ID: Lab Co	ntrol Sample
Prep Ty	ype: Total/NA

70 - 130

Client Sample ID: Lab Control Sample Dup

111

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits 0.100 0.1019 mg/L 102 70 - 130 0.100 0.1004 mg/L 100 70 - 130 0.100 0.1051 mg/L 105 70 - 130 0.200 0.2243 70 - 130 mg/L 112

mg/L

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1.4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: LCSD 880-47605/35

**Matrix: Water** 

Analysis Batch: 47605

Analysis Batch. 47000									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1093		mg/L		109	70 - 130	7	20

0.100

0.1109

**Eurofins Midland** 

Prep Type: Total/NA

### **QC Sample Results**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 880-25365-1 SDG: Lea County NM

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

Lab Sample ID: LCSD 880-47605/35 **Matrix: Water** 

Analysis Batch: 47605

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1095		mg/L		109	70 - 130	9	20
Ethylbenzene	0.100	0.1130		mg/L		113	70 - 130	7	20
m-Xylene & p-Xylene	0.200	0.2412		mg/L		121	70 - 130	7	20
o-Xylene	0.100	0.1191		mg/L		119	70 - 130	7	20
	LCSD LCSD								
	Toluene Ethylbenzene m-Xylene & p-Xylene	Analyte         Added           Toluene         0.100           Ethylbenzene         0.100           m-Xylene & p-Xylene         0.200           o-Xylene         0.100	Analyte         Added         Result           Toluene         0.100         0.1095           Ethylbenzene         0.100         0.1130           m-Xylene & p-Xylene         0.200         0.2412           o-Xylene         0.100         0.1191	Analyte         Added         Result Qualifier           Toluene         0.100         0.1095           Ethylbenzene         0.100         0.1130           m-Xylene & p-Xylene         0.200         0.2412           o-Xylene         0.100         0.1191	Analyte         Added         Result Oualifier         Unit           Toluene         0.100         0.1095         mg/L           Ethylbenzene         0.100         0.1130         mg/L           m-Xylene & p-Xylene         0.200         0.2412         mg/L           o-Xylene         0.100         0.1191         mg/L	Analyte         Added         Result Oualifier         Qualifier         Unit Duit         D           Toluene         0.100         0.1095         mg/L           Ethylbenzene         0.100         0.1130         mg/L           m-Xylene & p-Xylene         0.200         0.2412         mg/L           o-Xylene         0.100         0.1191         mg/L	Analyte         Added         Result Qualifier         Unit         D         %Rec           Toluene         0.100         0.1095         mg/L         109           Ethylbenzene         0.100         0.1130         mg/L         113           m-Xylene & p-Xylene         0.200         0.2412         mg/L         121           o-Xylene         0.100         0.1191         mg/L         119	Analyte         Added         Result Qualifier         Unit         D         %Rec         Limits           Toluene         0.100         0.1095         mg/L         109         70 - 130           Ethylbenzene         0.100         0.1130         mg/L         113         70 - 130           m-Xylene & p-Xylene         0.200         0.2412         mg/L         121         70 - 130           o-Xylene         0.100         0.1191         mg/L         119         70 - 130	Analyte         Added         Result Qualifier         Unit         D         %Rec Limits         RPD           Toluene         0.100         0.1095         mg/L         109         70 - 130         9           Ethylbenzene         0.100         0.1130         mg/L         113         70 - 130         7           m-Xylene & p-Xylene         0.200         0.2412         mg/L         121         70 - 130         7           o-Xylene         0.100         0.1191         mg/L         119         70 - 130         7

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-25365-1 MS

**Matrix: Water** 

Analysis Batch: 47605

Client Sample ID: MW-6

Prep Type: Total/NA

MS MS %Rec Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.000408 0.100 0.1060 106 70 - 130 mg/L Toluene <0.000367 U 0.100 0.1019 102 70 - 130 mg/L Ethylbenzene <0.000657 U 0.100 0.1065 107 70 - 130 mg/L m-Xylene & p-Xylene 0.000712 J 0.200 0.2248 70 - 130 mg/L 112 o-Xylene <0.000642 U 0.100 0.1126 mg/L 113 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	112	70 - 130

Lab Sample ID: 880-25365-1 MSD

**Matrix: Water** 

Analysis Batch: 47605

Client Sample ID: MW-6 Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.000408	U	0.100	0.1123		mg/L	<del></del>	112	70 - 130	6	25
Toluene	< 0.000367	U	0.100	0.1082		mg/L		108	70 - 130	6	25
Ethylbenzene	< 0.000657	U	0.100	0.1106		mg/L		111	70 - 130	4	25
m-Xylene & p-Xylene	0.000712	J	0.200	0.2332		mg/L		116	70 - 130	4	25
o-Xylene	<0.000642	U	0.100	0.1150		mg/L		115	70 - 130	2	25

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

**Eurofins Midland** 

# **QC Association Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 880-25365-1

SDG: Lea County NM

### **GC VOA**

Prep Batch: 47338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47338/5-A	Method Blank	Total/NA	Water	5035	

### Analysis Batch: 47605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25365-1	MW-6	Total/NA	Water	8021B	
MB 880-47338/5-A	Method Blank	Total/NA	Water	8021B	47338
MB 880-47605/39	Method Blank	Total/NA	Water	8021B	
LCS 880-47605/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-47605/35	Lab Control Sample Dup	Total/NA	Water	8021B	
880-25365-1 MS	MW-6	Total/NA	Water	8021B	
880-25365-1 MSD	MW-6	Total/NA	Water	8021B	

### Analysis Batch: 47748

_					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25365-1	MW-6	Total/NA	Water	Total BTEX	

**Eurofins Midland** 

### Lab Chronicle

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2 SDG:

Job ID: 880-25365-1 SDG: Lea County NM

**Client Sample ID: MW-6** 

Lab Sample ID: 880-25365-1

Matrix: Water

Date Collected: 02/17/23 09:00 Date Received: 03/01/23 16:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 02:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47748	03/03/23 13:22	SM	EET MID

Laboratory References:

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

Eurofins Midland

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### **Accreditation/Certification Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2 SDG: I

Job ID: 880-25365-1 SDG: Lea County NM

### **Laboratory: Eurofins Midland**

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

Authority	P	rogram	Identification Number	Expiration Date		
Texas	N	T104704400-22-25	06-30-23			
The following analytes the agency does not of	• •	out the laboratory is not certif	ed by the governing authority. This list ma	ay include analytes for which		
Analysis Method Prep Method						
Analysis Method	Prep Method	Matrix	Analyte			

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# **Method Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 880-25365-1

JUD	ט. ט	00-2000	JJ- 1
SDG:	Lea	County	NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
5030B	Purge and Trap	SW846	EET MID

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

# **Sample Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 880-25365-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25365-1	MW-6	Water	02/17/23 09:00	03/01/23 16:37

Page 15 of 17



eurofins





Xenco



**Environment Testing** 















# **Chain of Custody**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order	No:	25	53	65

Project Manager:	Joel	Lown	<b>\</b>		Bill to: (if	different)		Ca	mille	e B	Ma	+										omments	
Company Name:	eTech			1	Company	/ Name.		Plains All American Pipeline				Program: UST/PST PRF Brownfield RR Superfun											
Address:				4	Address:					1916		•			]	State of Project:							
City, State ZIP:				,	City, Stat	e ZIP:		M	idl	and,	TX	7	970	96		Reporting Level II Level III PST/UST TRRF Level I							
Phone:	575-3	96-23	378	Email.	om	ee	ec	-								Delive	ables	EDD		A	DaPT	Other	
Project Name:	OCP #			Turn	Around				1	-		A	NAL'	YSIS	REQU	JEST						Preserva	tive Codes
Project Number:	17472			Routine	☐ Rush		Pres. Code						-									None NO	DI Water H₂O
Project Location: Sampler's Name: PO #:	Lea Car 2009	rec	'M	Due Date: TAT starts th the lab, if rec			rs															Cool Cool HCL HC H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>	MeOH Me HNO <sub>3</sub> . HN NaOH Na
SAMPLE RECEI Samples Received In Cooler Custody Sea	ntact: (Yes	No (N/A	Yes No Thermomet Correction	Factor:	Yes The Distriction	No -4	Paramete	×		***************************************												H <sub>3</sub> PO <sub>4</sub> HP NaHSO <sub>4</sub> NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO Zn Acetate+Nas	)3
Sample Custody Sea Total Containers:	als: Yes	NO (N/A)	Temperatur Corrected 1	e reading. Temperature:	0.7			五			-										l i	NaOH+Ascorbi	
Sample Ider	ntification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	9														Sample	Comments
MW 6		W	2-17-23	9:00	_	-	3	X															
												_											
				16					,					-1-d			-	_880	-2536	55 Cha	in of C	Custody	
	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn ircle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010. 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471																						

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85,00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) Relinquished by: (Signature) Received by: (Signature)

Loc: 880 2536£ Revised Date: 08/25/2020 Rev 2020.2

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### **Login Sample Receipt Checklist**

Client: Etech Environmental & Safety Solutions

Job Number: 880-25365-1

SDG Number: Lea County NM

Login Number: 25365
List Source: Eurofins Midland
List Number: 1

Creator: Kramer, Jessica

<6mm (1/4").

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

.

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Joel Lowry Etech Environmental & Safety Solutions PO BOX 62228 Midland, Texas 79711 Generated 3/10/2023 11:53:21 AM

# **JOB DESCRIPTION**

DCP #2 SDG NUMBER Lea County NM

# **JOB NUMBER**

860-44420-1

Eurofins Houston 4145 Greenbriar Dr Stafford TX 77477

# **Eurofins Houston**

# **Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

# **Authorization**

Generated 3/10/2023 11:53:21 AM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Houston is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 2 of 18

Client: Etech Environmental & Safety Solutions Project/Site: DCP #2 Laboratory Job ID: 860-44420-1 SDG: Lea County NM

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receint Checklists	18

# **Definitions/Glossary**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 860-44420-1 SDG: Lea County NM

### **Qualifiers**

### **GC/MS VOA**

Qualifier	Qualifier Description
Н	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
а	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

MPN Most Probable Number MQL

Method Quantitation Limit Not Calculated

Minimum Level (Dioxin)

NC

ML

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

NEG Negative / Absent POS Positive / Present

**PQL Practical Quantitation Limit** 

**PRES** Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Etech Environmental & Safety Solutions

Job ID: 860-44420-1 Project/Site: DCP #2 SDG: Lea County NM

Job ID: 860-44420-1

**Laboratory: Eurofins Houston** 

Narrative

Job Narrative 860-44420-1

#### Receipt

The sample was received on 3/4/2023 9:12 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.6°C

#### GC/MS VOA

Method 8260C\_GRO: The following sample was analyzed outside of analytical holding time due to receiving sample out of holding time: EFF-1 (03323)) (860-44420-1).

Method 8260C GRO: The following sample was diluted to bring the concentration of target analytes within the calibration range: EFF-1 (03323)) (860-44420-1). Elevated reporting limits (RLs) are provided.

Method 8260C\_GRO: The following sample was received outside of holding time: EFF-1 (03323)) (860-44420-1).

Method 8260C MOD: The following sample was analyzed outside of analytical holding time due to receiving sample outside of holding time: EFF-1 (03323)) (860-44420-1).

Method 8260C MOD: The following sample was received outside of holding time: EFF-1 (03323)) (860-44420-1).

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

# **Detection Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 860-44420-1 SDG: Lea County NM

# Client Sample ID: EFF-1 (03323))

## Lab Sample ID: 860-44420-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I	Method	Prep Type
Gasoline Range Organics	1370	Н	61.1	30.6	ppm v/v		8260C GRO	Total/NA
Benzene	0.574	JH	3.13	0.313	ppm v/v	1	8260C	Total/NA
Toluene	38.8	Н	2.65	0.265	ppm v/v	1	8260C	Total/NA
Ethylbenzene	8.34	Н	2.30	0.230	ppm v/v	1	8260C	Total/NA
m,p-Xylenes	18.1	Н	4.61	0.461	ppm v/v	1	8260C	Total/NA
o-Xylene	5.21	Н	2.30	0.230	ppm v/v	1	8260C	Total/NA
Xylenes, Total	23.3	Н	4.61	0.461	ppm v/v	1	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

# **Client Sample Results**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 860-44420-1 SDG: Lea County NM

Client Sample ID: EFF-1 (03323))

Date Collected: 03/03/23 12:11

Lab Sample ID: 860-44420-1

Matrix: Air

Date Received: 03/04/23 09:12 Sample Container: Tedlar Bag 1L

Method: SW846 8260C GRO - Volatile Organic Compounds (GC/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	1370	Н	61.1	30.6	ppm v/v			03/07/23 16:03	5	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	98		60 - 140					03/07/23 16:03	5	

4-Bromofluorobenzene (Surr)	98		60 - 140					03/07/23 16:03	5
Method: SW846 8260C - Volati	le Organic Comp	ounds (GC	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.574	JH	3.13	0.313	ppm v/v			03/07/23 15:40	1
Toluene	38.8	H	2.65	0.265	ppm v/v			03/07/23 15:40	1
Ethylbenzene	8.34	H	2.30	0.230	ppm v/v			03/07/23 15:40	1
m,p-Xylenes	18.1	Н	4.61	0.461	ppm v/v			03/07/23 15:40	1
o-Xylene	5.21	H	2.30	0.230	ppm v/v			03/07/23 15:40	1
Xylenes, Total	23.3	Н	4.61	0.461	ppm v/v			03/07/23 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 135			_		03/07/23 15:40	1

**Eurofins Houston** 

# **Surrogate Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 860-44420-1

SDG: Lea County NM

Method: 8260C - Volatile Organic Compounds (GCMS)

atrix: Air Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(70-135)	
860-44420-1	EFF-1 (03323) )	107	
LCS 860-92970/3	Lab Control Sample	106	
LCSD 860-92970/4	Lab Control Sample Dup	107	
MB 860-92970/6	Method Blank	103	
Surrogate Legend			
BFB = 4-Bromofluorob	enzene (Surr)		

Method: 8260C GRO - Volatile Organic Compounds (GC/MS)

Matrix: Air Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(60-140)	
860-44420-1	EFF-1 (03323) )	98	
LCS 860-92971/4	Lab Control Sample	104	
LCSD 860-92971/5	Lab Control Sample Dup	94	
MB 860-92971/7	Method Blank	98	
Surrogate Legend			

BFB = 4-Bromofluorobenzene (Surr)

**Eurofins Houston** 

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### QC Sample Results

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 860-44420-1

SDG: Lea County NM

## Method: 8260C - Volatile Organic Compounds (GCMS)

Lab Sample ID: MB 860-92970/6

Matrix: Air **Analysis Batch: 92970**  Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.313	U	3.13	0.313	ppm v/v			03/07/23 14:08	1
Toluene	<0.265	U	2.65	0.265	ppm v/v			03/07/23 14:08	1
Ethylbenzene	<0.230	U	2.30	0.230	ppm v/v			03/07/23 14:08	1
m,p-Xylenes	<0.461	U	4.61	0.461	ppm v/v			03/07/23 14:08	1
o-Xylene	<0.230	U	2.30	0.230	ppm v/v			03/07/23 14:08	1
Xylenes, Total	<0.461	U	4.61	0.461	ppm v/v			03/07/23 14:08	1

MB MB %Recovery Qualifier Limits Dil Fac Prepared Analyzed 70 - 135 4-Bromofluorobenzene (Surr) 103 03/07/23 14:08

Lab Sample ID: LCS 860-92970/3 Client Sample ID: Lab Control Sample Matrix: Air Prep Type: Total/NA

**Analysis Batch: 92970** 

Surrogate

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 15.7 13.43 ppm v/v 86 70 - 125 Toluene 13.3 11.66 88 70 - 125 ppm v/v Ethylbenzene 11.5 9.914 ppm v/v 86 70 - 125 11.5 9.991 87 70 - 125 m,p-Xylenes ppm v/v o-Xylene 11.5 9.784 ppm v/v 85 70 - 125

LCS LCS Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 106 70 - 135

Lab Sample ID: LCSD 860-92970/4

Matrix: Air Analysis Batch: 92970 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 15.7 14.12 90 70 - 125 35 Benzene ppm v/v 5 Toluene 13.3 11.81 ppm v/v 89 70 - 125 35 Ethylbenzene 11.5 9.920 ppm v/v 86 70 - 125 n 35 m,p-Xylenes 11.5 9.958 86 70 - 125 0 35 ppm v/v 11.5 9.737 70 - 125 35 o-Xylene ppm v/v

LCSD LCSD %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 107 70 - 135

### Method: 8260C GRO - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-92971/7 Client Sample ID: Method Blank Prep Type: Total/NA Matrix: Air

**Analysis Batch: 92971** 

мв мв Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <6.11 12.2 6.11 ppm v/v 03/07/23 14:08

**Eurofins Houston** 

Dil Fac

### QC Sample Results

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 860-44420-1

SDG: Lea County NM

Method: 8260C GRO - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-92971/7

Matrix: Air

Analysis Batch: 92971

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 98 60 - 140

03/07/23 14:08

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 860-92971/4

Lab Sample ID: LCSD 860-92971/5

Matrix: Air

**Analysis Batch: 92971** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 122 114.7 ppm v/v 94 60 - 140

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 104 60 - 140

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Matrix: Air Analysis Batch: 92971

Spike LCSD LCSD Analyte Added Result Qualifier Limits RPD Limit Unit D %Rec Gasoline Range Organics 122 104.9 ppm v/v 86 60 - 140 9 35

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 94 60 - 140 %Rec RPD

# **QC Association Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 860-44420-1

### SDG: Lea County NM

### **GC/MS VOA**

**Analysis Batch: 92970** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-44420-1	EFF-1 (03323))	Total/NA	Air	8260C	
MB 860-92970/6	Method Blank	Total/NA	Air	8260C	
LCS 860-92970/3	Lab Control Sample	Total/NA	Air	8260C	
LCSD 860-92970/4	Lab Control Sample Dup	Total/NA	Air	8260C	

### **Analysis Batch: 92971**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-44420-1	EFF-1 (03323))	Total/NA	Air	8260C GRO	
MB 860-92971/7	Method Blank	Total/NA	Air	8260C GRO	
LCS 860-92971/4	Lab Control Sample	Total/NA	Air	8260C GRO	
LCSD 860-92971/5	Lab Control Sample Dup	Total/NA	Air	8260C GRO	

### **Lab Chronicle**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 860-44420-1

SDG: Lea County NM

Client Sample ID: EFF-1 (03323))

Date Collected: 03/03/23 12:11 Date Received: 03/04/23 09:12 Lab Sample ID: 860-44420-1

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	92970	03/07/23 15:40	JBS	EET HOU
Total/NA	Analysis	8260C GRO		5	5 mL	5 mL	92971	03/07/23 16:03	JBS	EET HOU

**Laboratory References:** 

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

### **Accreditation/Certification Summary**

Client: Etech Environmental & Safety Solutions

Job ID: 860-44420-1 Project/Site: DCP #2 SDG: Lea County NM

### **Laboratory: Eurofins Houston**

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23 *

 $<sup>^{\</sup>star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$ 

**Eurofins Houston** 

# **Method Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 860-44420-1

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GCMS)	SW846	EET HOU
8260C GRO	Volatile Organic Compounds (GC/MS)	SW846	EET HOU
5030C	Collection/Prep Tedlar Bag (P&T)	SW846	EET HOU

#### **Protocol References:**

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

### Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

# **Sample Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: DCP #2

Job ID: 860-44420-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-44420-1	EFF-1 (03323))	Air	03/03/23 12:11	03/04/23 09:12

# eurofins

**Environment Testing** 

Xenco

# **Chain of Custody**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, MM (575) 392-7550, Carlsbad, NM (575) 988-3199

860-44420 Chain of Custody
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City, State ZIP					-	City, Sta	te ZIP										Reporting: Level II Level III PST/UST TRRF			F Lev	⁄el l□				
Phone:					Email:	one	o e	teel	\ e/	10.0	0/1						Delive	rables	: EDD			ADaP	T Cther		
Project Name:	DCP	#2			Turn	Around								ANAL	YSIS R	REQ	UEST						Preserva	tive Code	s
Project Number	1747	12			<b>⊠</b> ∕Routine	□ Rush		Pres. Code							İ								None: NO	D! Water	r: H₂O
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Samples Received In	ntact:	Yes	No	Thermomet	er ID:			Tan	20	30													NaHSO <sub>4</sub> . NABI:	S	{
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Total Containers:				Corrected T	emperature:				13	H.													NaOH+Ascorbio	Acid: SAF	-c
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Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.















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3/10/2023

Received by OCD: 4/17/2023 9:41:13 AM

Relinquished by (Signature)	Received by: (Signature)	Date/Time Relinquished by (Signature	Received by: (Signature)	Date/Time
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Fader	ycos	3/4/23 0912		
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(	7		R	L . ovised Date: 08/25/2020 Rev, 2

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### **Login Sample Receipt Checklist**

Client: Etech Environmental & Safety Solutions Job Number: 860-44420-1

SDG Number: Lea County NM

Login Number: 44420 **List Source: Eurofins Houston** 

List Number: 1 Creator: Rubio, Yuri

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

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

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 208197

### **CONDITIONS**

Operator:	OGRID:
PLAINS MARKETING L.P.	34053
333 Clay Street Suite 1900	Action Number:
Houston, TX 77002	208197
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

#### CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	1. Continue to conduct monthly recovery for hydrocarbon impacted groundwater in MW-1 and MW-5. 2. Monitor wells MW-1 through MW-8 shall be monitored and sampled quarterly for BTEX with MW-1 sampled annually for PAH. 3. Continue recovery by SVE and monthly emission sampling for MW-1 4. Submit the 2023 Annual Monitoring Report by April 1, 2024.	5/18/2023