

2022 Annual Groundwater Monitoring Report

Review of 2022 Annual Groundwater Monitoring Report, 14-Inch Vac to Jal Legacy: **Content Satisfactory**

REVIEWED

By Mike Buchanan at 2:13 pm, May 16, 2023

1. Continue monitor and sampling of wells MW-2 through MW-8 quarterly for concentrations of BTEX. MW-2 to be monitored and sampled quarterly for chloride.
2. Continue to gauge and remove PSH in MW-1 on a monthly basis.
3. Groundwater recovery to continue from monitoring wells: MW-3, MW-4, MW-8 on a monthly schedule.
4. Groundwater monitoring wells: MW-9, MW-5, MW-6, MW-11, MW-12, MW-13, MW-14 may be sampled on a semi-annual basis.
5. Results of the 2023 sampling events to be reported in the 2023 Annual Monitoring Report to OCD no later than April 1, 2024.

Plains All American Pipeline, LP 14-Inch Vac to Jal Legacy

Lea County, New Mexico

Unit Letter "F", Section 25, Township 25 South, Range 37 East

Latitude 32.1029722 North, Longitude 103.1195278 West

Plains SRS #: 2009-092

NMOCD Reference #: 1RP-2162

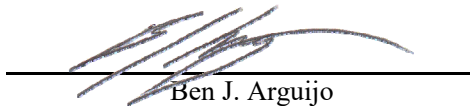
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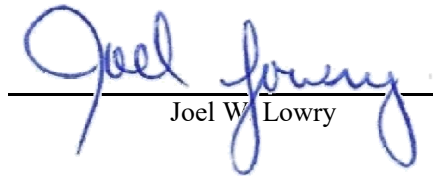
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1.0 INTRODUCTION & SITE DESCRIPTION

Etech Environmental & Safety Solutions (Etech), on behalf of Plains All American Pipeline, LP (Plains), has prepared this *2022 Annual Groundwater Monitoring Report* for the 14-Inch Vac to Jal Legacy 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 Release Site is Unit Letter "F" (SE/NW), Section 25, Township 25 South, Range 37 East, in Lea County, New Mexico. The geographic coordinates of the Site are 32.1029722 North latitude and 103.1195278 West longitude. A "Site Location Map" is provided as Figure 1.

2.0 BACKGROUND INFORMATION

On April 9, 2009, Plains discovered a crude oil release from a 14-inch steel pipeline. The cause of the release was attributed to external corrosion of the pipeline. The Release was reported to the New Mexico Oil Conservation Division (NMOCD) on April 9, 2009. During initial response activities, a temporary clamp was installed on the pipeline to mitigate the release. Approximately 250 barrels (bbls) of crude oil was released, with no recovery.

On April 9, 2009, following initial response activities, excavation of hydrocarbon-impacted soil commenced at the Site. To facilitate remediation activities, the excavation was divided into two (2) sections: Main Excavation and West Excavation. Excavated soil was stockpiled on-site on a plastic liner to mitigate the potential leaching of contaminants into the vadose zone. Approximately 18,000 cubic yards (yd³) of impacted soil was excavated and stockpiled on-site during excavation activities. Final dimensions of the Main Excavation were approximately 400 feet (ft.) in length, approximately 200 ft. in width, and five (5) to 14 ft. in depth. Final dimensions of the West Excavation were approximately 150 ft. in length, approximately 105 ft. in width, and approximately 10 ft. in depth. Due to safety concerns associated with excavating near and supporting two (2) 14-inch diameter pipelines which bisect the Release Site, Plains requested and received NMOCD approval to leave the soil beneath and adjacent to the pipelines in-situ.

On July 2 and 3, 2009, three (3) soil borings (SB-1, SB-2, and SB-3) were advanced at the Release Site to evaluate the vertical extent of soil impact. During the advancement of the soil borings, groundwater was encountered at approximately 64 ft. below ground surface (bgs). On July 1, 2009, soil boring SB-1 was converted to monitor well MW-1.

On July 2, 2009, temporary casing was installed in soil borings SB-2 and SB-3 to allow a preliminary groundwater sample to be collected for analysis. Following collection of the preliminary groundwater sample, the temporary casing was removed from soil borings SB-2 and SB-3, and the soil borings were plugged with cement and bentonite, pursuant to NMOCD and New Mexico Office of the State Engineer (NMOSE) standards.

On December 10, 2009, two (2) soil borings (SB-4 and SB-5) were installed up-gradient of the excavation to evaluate the potential groundwater impact from an up-gradient, off-site source. During the advancement of soil borings SB-4 and SB-5, groundwater was encountered at

approximately 64 ft. bgs. Temporary casing was installed in soil borings SB-4 and SB-5 to allow a preliminary groundwater sample to be collected for analysis. Following collection of the preliminary groundwater sample, the temporary casing was removed from soil borings SB-4 and SB-5, and the soil borings were plugged with cement and bentonite, pursuant to NMOCD and NMOSE standards.

A measurable thickness of Phase-Separate Hydrocarbons (PSH) was detected in monitor well MW-1 during the April 12, 2012, quarterly monitoring event. Monthly gauging and manual recovery of PSH from MW-1 commenced in April 2012.

From May 6 through May 8, 2013, five (5) additional monitor wells (MW-2 through MW-6) were installed to evaluate the status of the groundwater at the Site. The monitor wells were installed to total depths of approximately 80 ft. bgs. Monitor well MW-2 is located approximately 380 ft. to the northwest (up-gradient) of monitor well MW-1. Monitor well MW-3 is located approximately 200 ft. to the northeast (cross-gradient) of monitor well MW-1. Monitor well MW-4 is located approximately 100 ft. to the northwest (up-gradient) of monitor well MW-1. Monitor well MW-5 is located approximately 280 ft. to the west-northwest (cross-gradient) of monitor well MW-1. Monitor well MW-6 is located approximately 150 ft. to the southeast (down-gradient) of monitor well MW-1.

PSH was not observed in monitor wells MW-2 through MW-6. Laboratory analytical results from soil samples collected during the installation of the monitor wells indicated benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), and chloride concentrations were less than NMOCD regulatory standards in each of the submitted soil samples.

From June 25 through June 26, 2014, three (3) additional monitor wells (MW-7, MW-8, and MW-9) were installed to further monitor the down- and cross-gradient migration of the dissolved-phase plume. The monitor wells were installed to total depths of approximately 80 ft. bgs. Monitor well MW-7 is located approximately 45 ft. to the southeast (down-gradient) of monitor well MW-1. Monitor well MW-8 is located approximately 180 ft. to the east-northeast (cross-gradient) of monitor well MW-1. Monitor well MW-9 is located approximately 150 ft. to the southeast (down-gradient) of monitor well MW-1.

PSH was not observed in monitor wells MW-7 through MW-9. Laboratory analytical results from soil samples collected during the installation of the monitor wells indicated benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory standards in each of the submitted soil samples.

The 14-Inch Vac to Jal Legacy Release Site is located approximately 1,147 ft. to the south-southeast of a documented groundwater remediation site (Arco South Justis Unit F-230). It is believed the elevated BTEX concentrations observed in groundwater samples collected from monitor well MW-2 are the result of the downgradient position of the 14-Inch Vac to Jal Legacy Release Site. Information regarding this site can be found in the NMOCD imaging system.

Based on laboratory analytical results from groundwater samples collected from monitor well MW-5, which is located approximately 260 ft. to the west-southwest (cross-gradient) of the release

point, and the absence of elevated chloride concentrations in the soil columns of monitor wells MW-2 through MW-6, Plains requested permission from the NMOCD to cease monitoring of total dissolved solids (TDS) and chloride in the 2013 Annual Monitoring Report, dated March 2014. The request was subsequently approved by the NMOCD, with a caveat requiring a chloride sample be collected from monitor well MW-2 on a quarterly basis. Quarterly chloride monitoring of monitor well MW-2 commenced in November 2014.

On February 20, 2018, five (5) additional monitor wells (MW-10 through MW-14) were installed to further evaluate the status of groundwater at the Site. The monitor wells were each advanced to a total depth of approximately 80 ft. bgs. Monitor well MW-10 is located approximately 210 ft. to the north-northwest (up-gradient) of monitor well MW-1. Monitor well MW-11 is located approximately 350 ft. to the north-northeast (up- and cross-gradient) of monitor well MW-1. Monitor well MW-12 is located approximately 260 ft. to the east-northeast (cross-gradient) of monitor well MW-1. Monitor well MW-13 is located approximately 260 ft. to the east (cross-gradient) of monitor well MW-1. Monitor well MW-14 is located approximately 225 ft. to the southeast (down-gradient) of monitor well MW-1.

On November 9, 2018, the on-site monitor wells were surveyed by a licensed, Professional Land Surveyor.

In February 2023, Etech, at the request of Plains, assumed project management and oversight responsibilities for groundwater remediation activities at the 14-Inch Vac to Jal Legacy Release Site.

Currently, a total of 14 monitor wells (MW-1 through MW-14) are located at the 14-Inch Vac to Jal Legacy Release Site. Monitor wells MW-2 through MW-14 are gauged and sampled on a quarterly schedule, while MW-1 is gauged monthly but not sampled due to the presence of PSH.

3.0 FIELD ACTIVITIES

3.1 Groundwater Remediation Activities

During the quarterly monitoring event on April 12, 2012, a measurable thickness of PSH was detected in monitor well MW-1. In April 2012, monthly gauging and PSH recovery activities commenced and were conducted until November 2013. In November 2013, the frequency of PSH recovery was increased to semi-monthly (twice per month) until June 2014. In June 2014, the frequency was increased to weekly. Weekly recovery continued until the second quarter of 2020, at which time the frequency was reduced to monthly as a result of the COVID-19 pandemic. Monthly gauging and manual recovery events were conducted during the 2022 reporting period, with the exception of December 2022, following a change in project management and oversight.

A total of approximately 40 gallons of PSH were recovered from monitor well MW-1 during the monthly manual recovery events. The PSH thickness measured in MW-1 ranged from 0.10 feet on 1Q2022, to 0.01 feet in 2Q2002. PSH Recovery Data is summarized in Table 3, "Phase-Separate Hydrocarbon (PSH) Thickness & Recovery Summary (MW-1)".

Quarterly Aggressive Fluid Recovery (AFR) events were conducted on monitor wells MW-1, MW-3, MW-8, and MW-13 in February, May, and September 2022. The exact amount of PSH recovered during the events cannot be determined due to the method utilized to perform the AFR events. A hose is lowered into a well's fluid column and connected to a vacuum truck to recover both groundwater impacted with dissolved-phase hydrocarbons and PSH. An approximate recovery volume was determined based on the volume of PSH in the wells prior to the AFR events, which were recorded as the minimum recovery volumes. A summary of AFR events is provided as Table 8, "Quarterly Aggressive Fluid Recovery (AFR) Summary".

Monthly manual recovery of hydrocarbon-impacted groundwater was conducted on monitor wells MW-3, MW-4, MW-8, and MW-13 in an effort to control the down- and cross-gradient migration of the dissolved-phase plume.

For monitor well MW-3, an estimated 3,040 gallons (72.4 bbls) of hydrocarbon-impacted groundwater was recovered via a combination of manual recovery, a Tornado pump, and AFR events conducted in 2022.

For monitor well MW-4, an estimated 45 gallons (1.07 bbls) of hydrocarbon-impacted groundwater was recovered via manual recovery or a Tornado pump.

For monitor well MW-8, an estimated 5,165 gallons (123 bbls) of hydrocarbon-impacted groundwater was recovered via a combination of manual recovery, a Tornado pump, and AFR events conducted in 2022.

For monitor well MW-13, an estimated 2,521 gallons (60.0 bbls) of hydrocarbon-impacted groundwater was recovered via a combination of manual recovery, a Tornado pump, and AFR events conducted in 2022.

An approximate total of 13,811 gallons (329 bbls) of hydrocarbon-impacted groundwater were recovered from the Site during 2022 via a combination of manual recovery, a Tornado pump, and AFR events. To date, a total of approximately 68,779 gallons (1,638 bbls) of impacted groundwater has been recovered during the AFR events since April of 2019.

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

Summaries of groundwater recovery data are provided in Tables 4 through 8.

3.2 Groundwater Monitoring

The on-site monitor wells were gauged and sampled by a previous environmental contractor on March 8 and 9 (1Q2022), June 23 (2Q2022), and September 21 (3Q2022). Due to a change in project management and oversight, no groundwater sampling was conducted during the fourth (4th) quarter of 2022. Etech assumed oversight responsibilities for the Site in February 2023 and conducted a groundwater monitoring event (4Q2022) on February 24, 2023 (the earliest available opportunity) to assess the levels and extent of PSH and dissolved-phase constituents in the groundwater at the Site. The groundwater monitoring events consisted of measuring static water

levels in the on-site monitor wells (MW-1 through MW-14), 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 8 and 9, 2022. Based on the sampling criteria provided by the NMOCD, only monitor wells MW-3 through MW-9 were subject to annual PAH monitoring. PAH sampling requirements were met for monitor wells MW-3 through MW-9 in June 2013 and May 2014, respectively. However, all monitor wells sampled during the 4th quarter of 2020 were inadvertently analyzed for PAH. The resulting analyses indicated that none of the on-site monitor wells sampled during the 4th 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-3 through MW-9 were sampled during the first quarter of 2022 (1Q2022). A summary of PAH analyses is provided as Table 9.

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. The maps indicate a general groundwater gradient of approximately 0.002 feet/foot to the southeast as measured between monitor wells MW-2 and MW-14. 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, "Concentrations of Benzene, BTEX & Chloride in Groundwater". A summary of PAH constituent concentrations is presented in Table 9, "Concentrations of Polycyclic Aromatic Hydrocarbons (PAH) in Groundwater". "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 the 2022 reporting period due to the presence of PSH.

Monitor Well MW-2

Laboratory analytical results indicate benzene concentrations ranged from 0.00686 mg/L in 3Q2022 to 0.0176 mg/L in 2Q2022. Toluene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory method detection limit (MDL) in all submitted groundwater samples. Chloride concentrations ranged from 10,500 mg/L in 2Q2022 and 3Q2022 to 12,800 mg/L in 4Q2022.

Benzene concentrations exceeded the NMOCD regulatory standard of 0.01 mg/L in 1Q2022 and 2Q2022. Toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards in all submitted samples. Chloride concentrations exceeded the NMOCD regulatory standard of 250 mg/L in all submitted samples.

Monitor Well MW-3

Laboratory analytical results indicate benzene concentrations ranged from less than the laboratory MDL in 1Q2022 to 0.0399 mg/L in 3Q2022. Toluene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL in all submitted groundwater samples.

Benzene concentrations exceeded the NMOCD regulatory standard of 0.01 mg/L in 2Q2022 and 3Q2022. 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 New Mexico Water Quality Control Commission (NMWQCC) Drinking Water Standards.

Monitor Well MW-4

Laboratory analytical results indicate benzene concentrations ranged from less than the laboratory MDL in 1Q2022, 2Q2022, and 4Q2022 to 0.000554 mg/L in 3Q2022. Toluene, 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-5

Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory MDL and 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-6

Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory MDL and 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-7

Laboratory analytical results indicate benzene concentrations ranged from less than the laboratory MDL in 1Q2022 and 4Q2022 to 0.00142 mg/L in 2Q2022. Toluene, ethylbenzene, total xylene concentrations were less than the appropriate laboratory MDL in all submitted groundwater samples.

Benzene, 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-8

Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory MDL and 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-9

Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory MDL and 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-10

Laboratory analytical results indicate benzene concentrations ranged from less than the laboratory MDL in 1Q2022 to 0.00183 mg/L in 2Q2022 and 4Q2022. Toluene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL in all submitted groundwater samples.

Benzene, toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards in all submitted samples.

Monitor Well MW-11

Laboratory analytical results indicated benzene, toluene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples.

Monitor Well MW-12

Laboratory analytical results indicated benzene, toluene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples.

Monitor Well MW-13

Laboratory analytical results indicated benzene, toluene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples.

Monitor Well MW-14

Laboratory analytical results indicated benzene, toluene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples.

5.0 SUMMARY

This report presents the results of groundwater monitoring activities for the 2022 annual monitoring period. Currently, there are 14 groundwater monitor wells (MW-1 through MW-14) on-site. Monitor well MW-1 was not sampled in 2022 due to the presence of PSH.

Quarterly groundwater monitoring events were conducted on March 8 and 9 (1Q2022), June 23 (2Q2022), and September 29, 2022 (3Q2022); and February 24, 2023 (4Q2022).

Groundwater gauging data collected during the monitoring period indicated a general gradient of approximately 0.002 feet/foot to the southeast as measured between monitor wells MW-2 and MW-14.

A measurable thickness of PSH was detected in monitor well MW-1 throughout the 2022 reporting period. The PSH thickness measured in MW-1 ranged from 0.10 feet in 1Q2022 to 0.01 feet in 4Q2022.

An approximate total of 13,811 gallons (329 bbls) of hydrocarbon-impacted groundwater was recovered from the Site during 2022 via a combination of manual recovery, a Tornado pump, and AFR events. To date, a grand total of approximately 68,779 gallons (1,638 bbls) of impacted groundwater has been recovered during the AFR events since April of 2019.

Review of laboratory analytical results generated from analysis of groundwater samples collected in 2022 indicated benzene concentrations exceeded the NMOCD regulatory standard of 0.01 mg/L in groundwater samples submitted from monitor wells MW-2 (1Q2022 and 2Q2022) and MW-3 (2Q2022 and 3Q2022). Benzene concentrations were less than the NMOCD regulatory standard in all groundwater samples submitted from monitor wells MW-4 through MW-14. Toluene, ethylbenzene and total xylene concentrations were less than NMOCD regulatory standards in all submitted groundwater samples.

Chloride concentrations exceeded the NMOCD regulatory standard of 250 mg/L in all groundwater samples submitted from monitor well MW-1.

PAH constituent concentrations in the annual groundwater samples from monitor wells MW-3 through MW-9 were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

6.0 ANTICIPATED ACTIONS

Monitor wells MW-2 through MW-8, MW-10, MW-11, MW-13, and MW-14 will continue to be monitored and sampled quarterly for concentrations of BTEX. Monitor well MW-2 will continue to be monitored and sampled quarterly for concentrations of chloride.

PSH recovery from monitor well MW-1 will continue monthly. Groundwater recovery from monitor wells MW-3, MW-4, and MW-8 will continue on a monthly schedule. AFR events will continue to be conducted on a quarterly basis to enhance recovery of hydrocarbon-impacted groundwater. All recovered fluid will be disposed of at an NMOCD-permitted disposal facility.

Since monitor wells MW-9, MW-13, and MW-14 have exhibited eight (8) or more consecutive quarters with no concentrations of BTEX constituents above NMOCD regulatory standards, the sampling frequency for these wells can safely be reduced from quarterly to semi-annually (i.e., twice per year).

Since monitor wells MW-5, MW-6, MW-11, and MW-12 have exhibited eight (8) or more consecutive quarters with no concentrations of BTEX constituents above NMOCD regulatory standards, the sampling frequency for these wells can safely be reduced from quarterly to annually.

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

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.

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

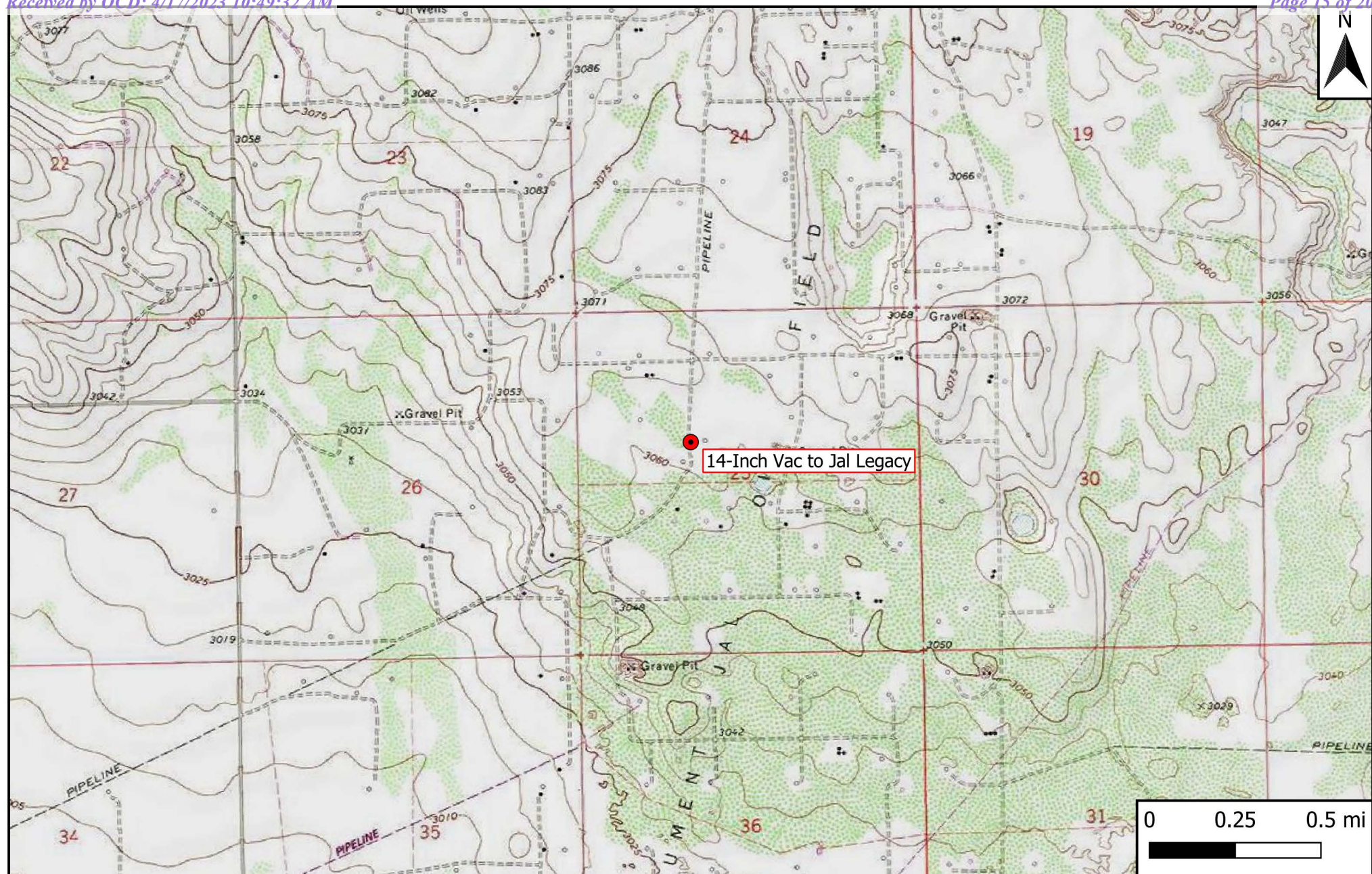
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Houston, Texas 77002

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1

Site Location Map
 Plains All American Pipeline, LP
 14-Inch Vac to Jal Legacy
 GPS: 32.1029722, -103.1195278
 Lea County



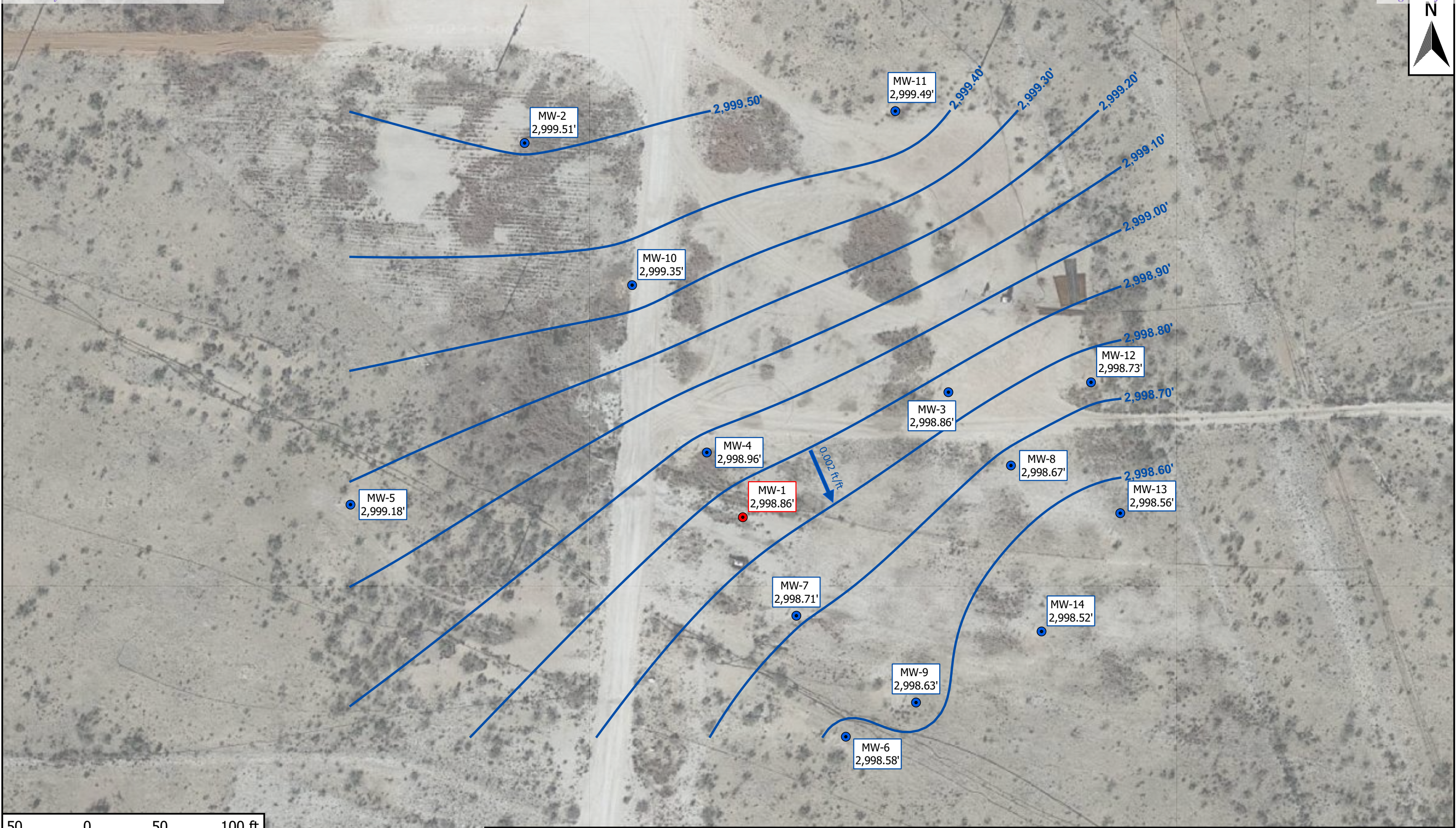
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Checked: jwl

Date: 3/28/23

Figures 2A - 2D

Inferred Groundwater Gradient Maps



Notes:
Groundwater gradient magnitude measured between monitor wells MW-2 and MW-9.
Due to the presence of PSH, monitor well MW-1 was not utilized in map construction.

Legend

- Monitor Well
- Recovery Well
- Groundwater Elevation Contour (ft)
- ➔ Groundwater Gradient/Magnitude

Figure 2A
Inferred Groundwater Gradient Map – 1Q2022
Plains All American Pipeline, LP
14-Inch Vac to Jal Legacy
GPS: 32.1029722, -103.1195278
Lea County



Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 4/4/2023



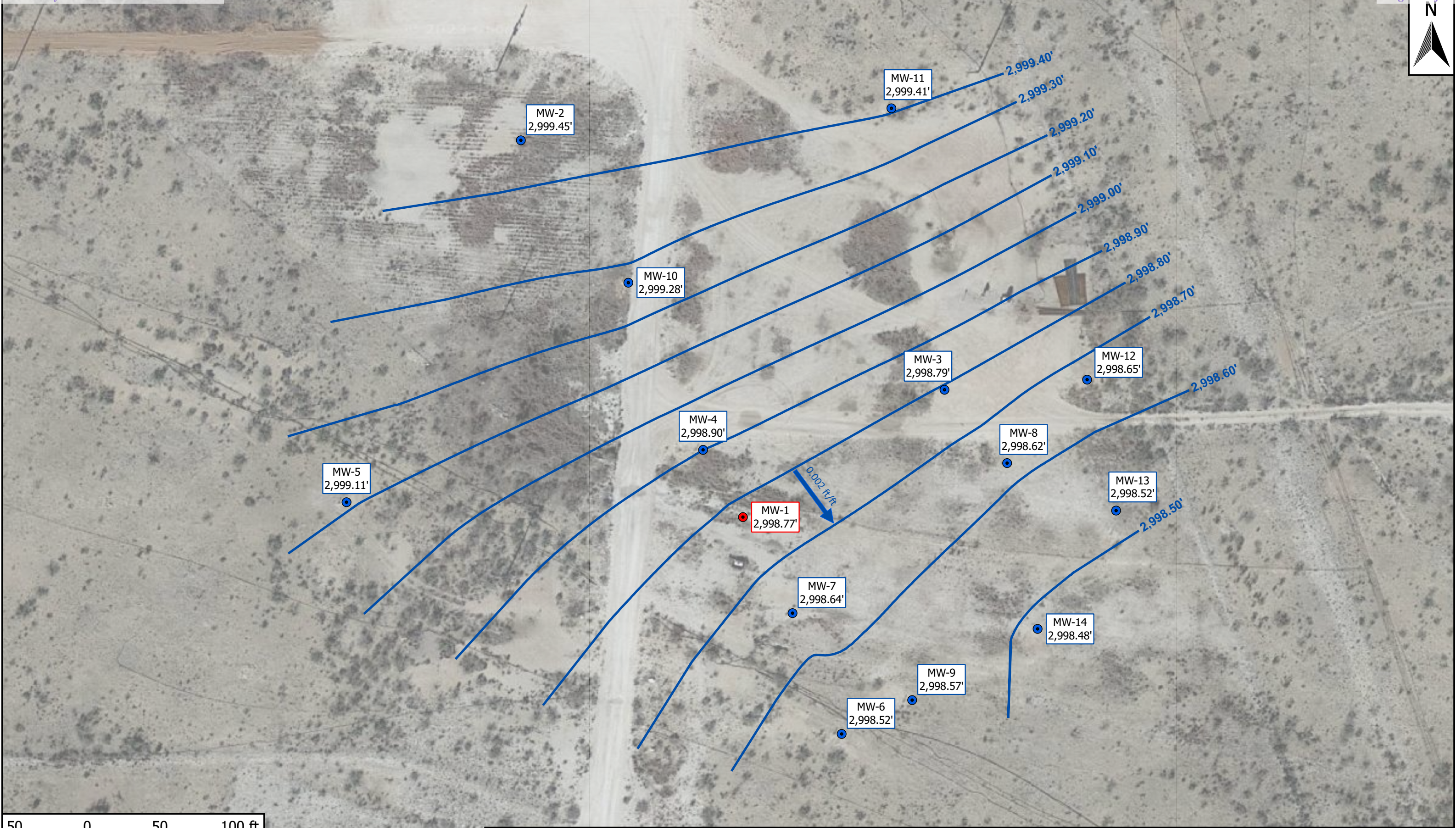
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 Monitor Well
 Recovery Well
 Groundwater Elevation Contour (ft)
 Groundwater Gradient/Magnitude



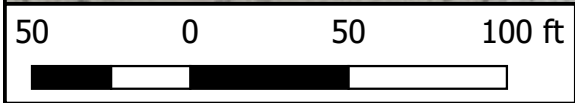
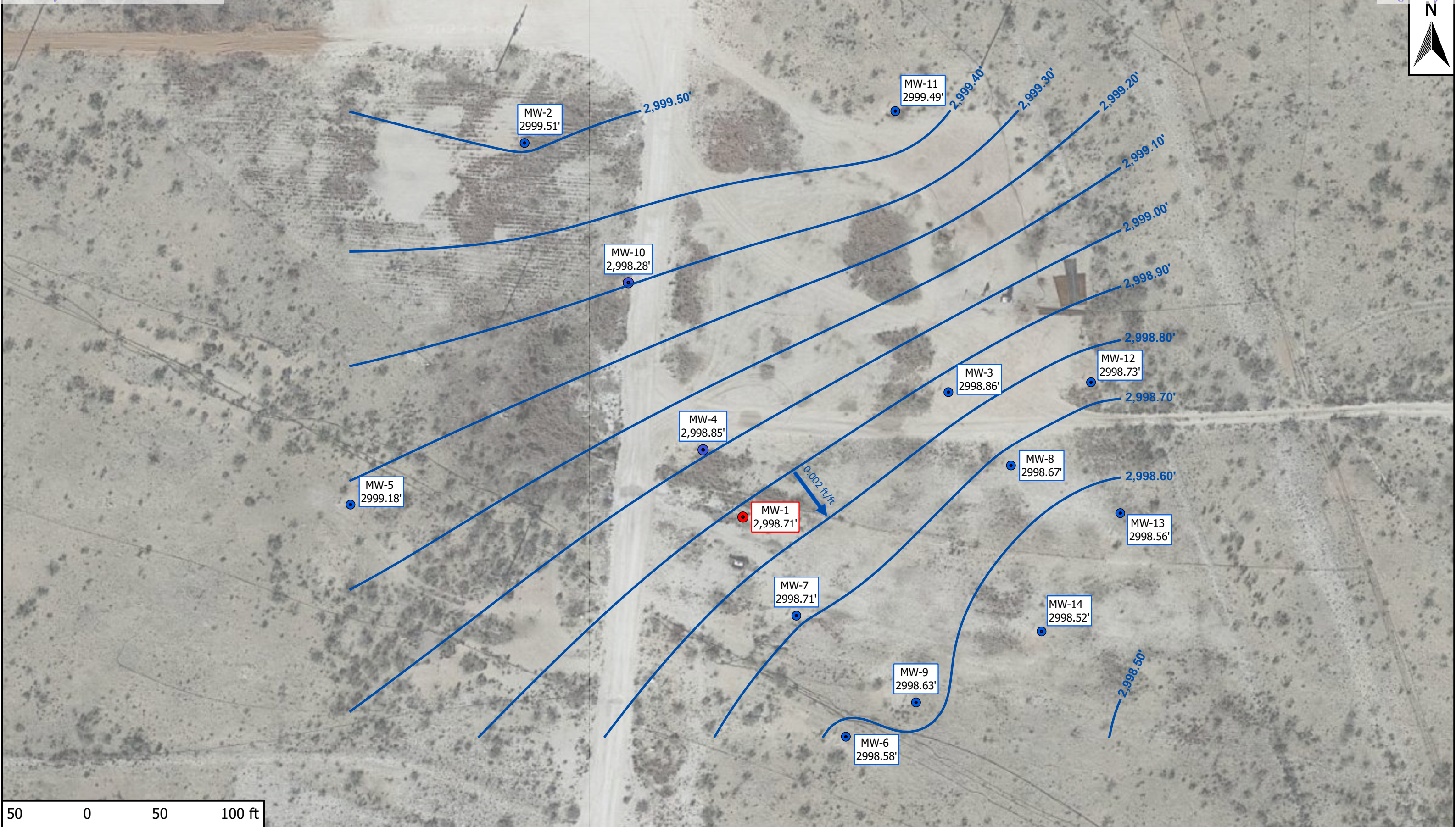
Drafted: bja Checked: jwl Date: 4/4/2023



Notes:
Groundwater gradient magnitude measured between monitor wells MW-2 and MW-14.
Due to the presence of PSH, monitor well MW-1 was not utilized in map construction.

Legend ● Monitor Well ● Recovery Well — Groundwater Elevation Contour (ft) ➔ Groundwater Gradient/Magnitude	Figure 2C
	Inferred Groundwater Gradient Map – 3Q2022
	Plains All American Pipeline, LP
	14-Inch Vac to Jal Legacy
	GPS: 32.1029722, -103.1195278
	Lea County

Drafted: bja	Checked: jwl	Date: 4/4/2023



Notes:
Groundwater gradient magnitude measured between monitor wells MW-2 and MW-14.
Due to the presence of PSH, monitoring well MW-1 was not utilized in map construction. Monitoring wells MW-4 and MW-10 were also not utilized in map construction.

Legend

Monitor Well

Recovery Well

Groundwater Elevation Contour (ft)

Groundwater Gradient/Magnitude

Figure 2D

Inferred Groundwater Gradient Map – 4Q2022

Plains All American Pipeline, LP

14-Inch Vac to Jal Legacy

GPS: 32.1029722, -103.1195278

Lea County, New Mexico

ETECH

Environmental & Safety Solutions, Inc.

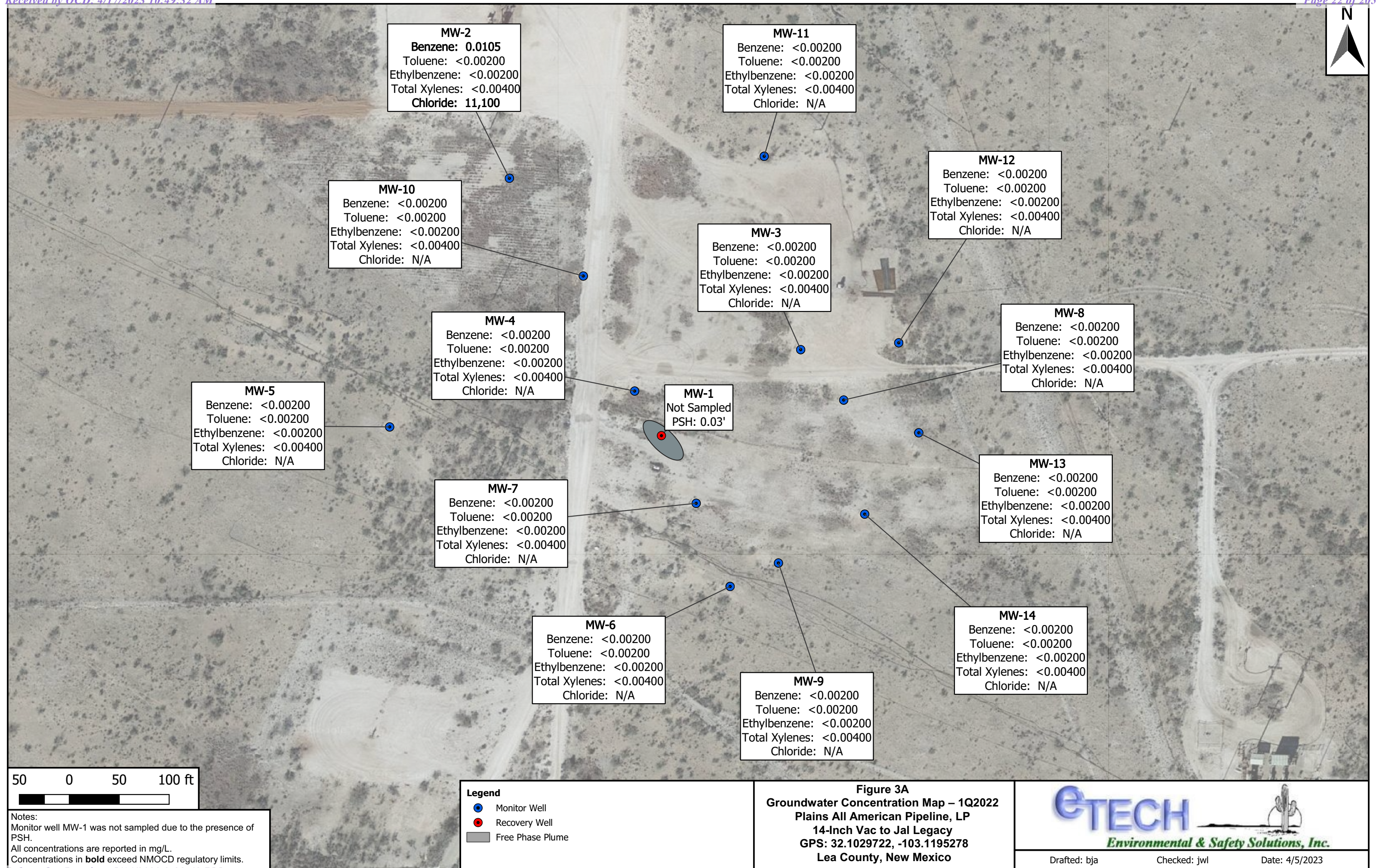
Drafted: bja

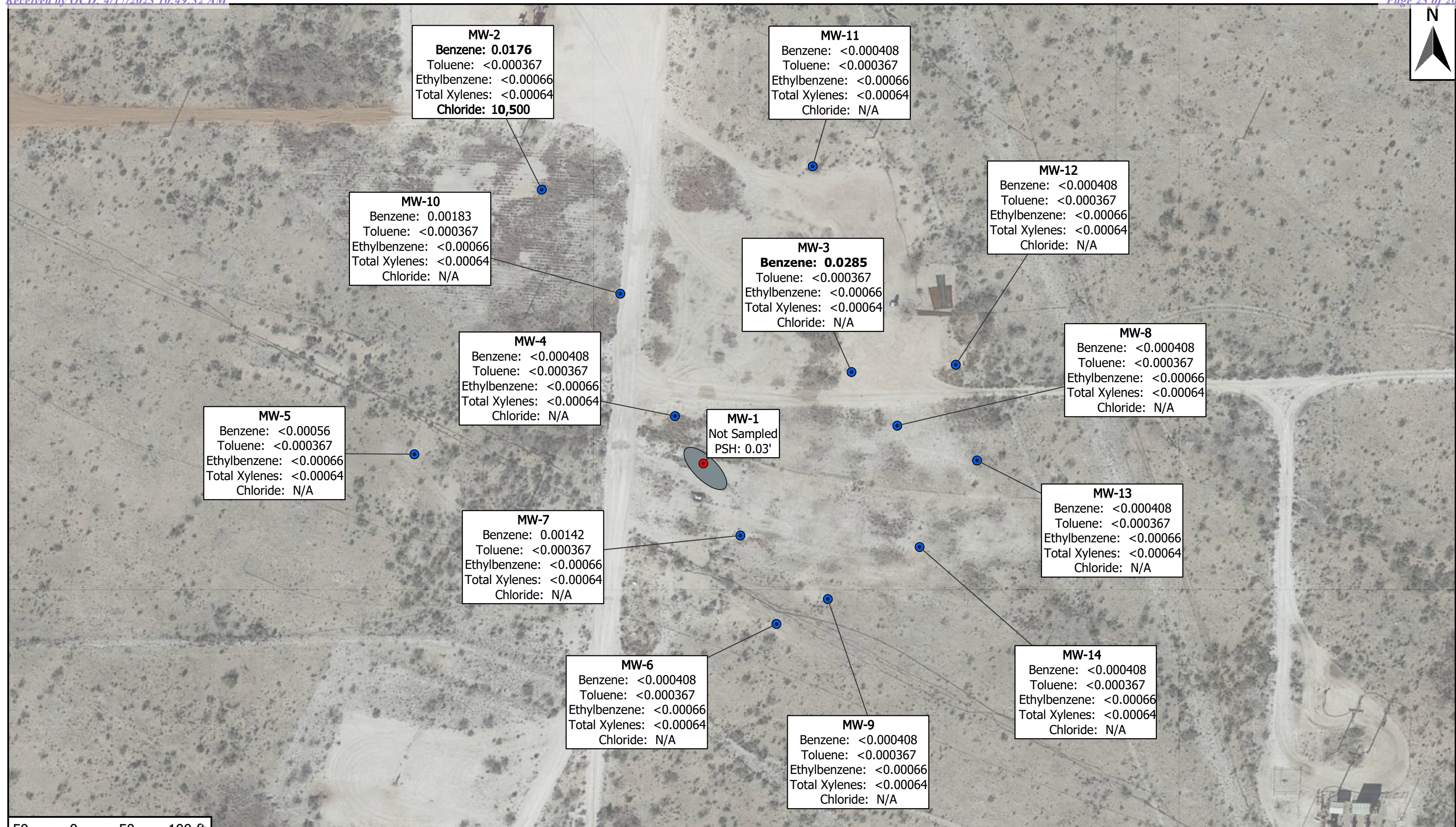
Checked: jwl

Date: 4/13/2023

Figures 3A - 3D

Groundwater Concentration Maps





Notes:
Monitor well MW-1 was not sampled due to the presence of PSH.
All concentrations are reported in mg/L.
Concentrations in **bold** exceed NMOCD regulatory limits.

Legend

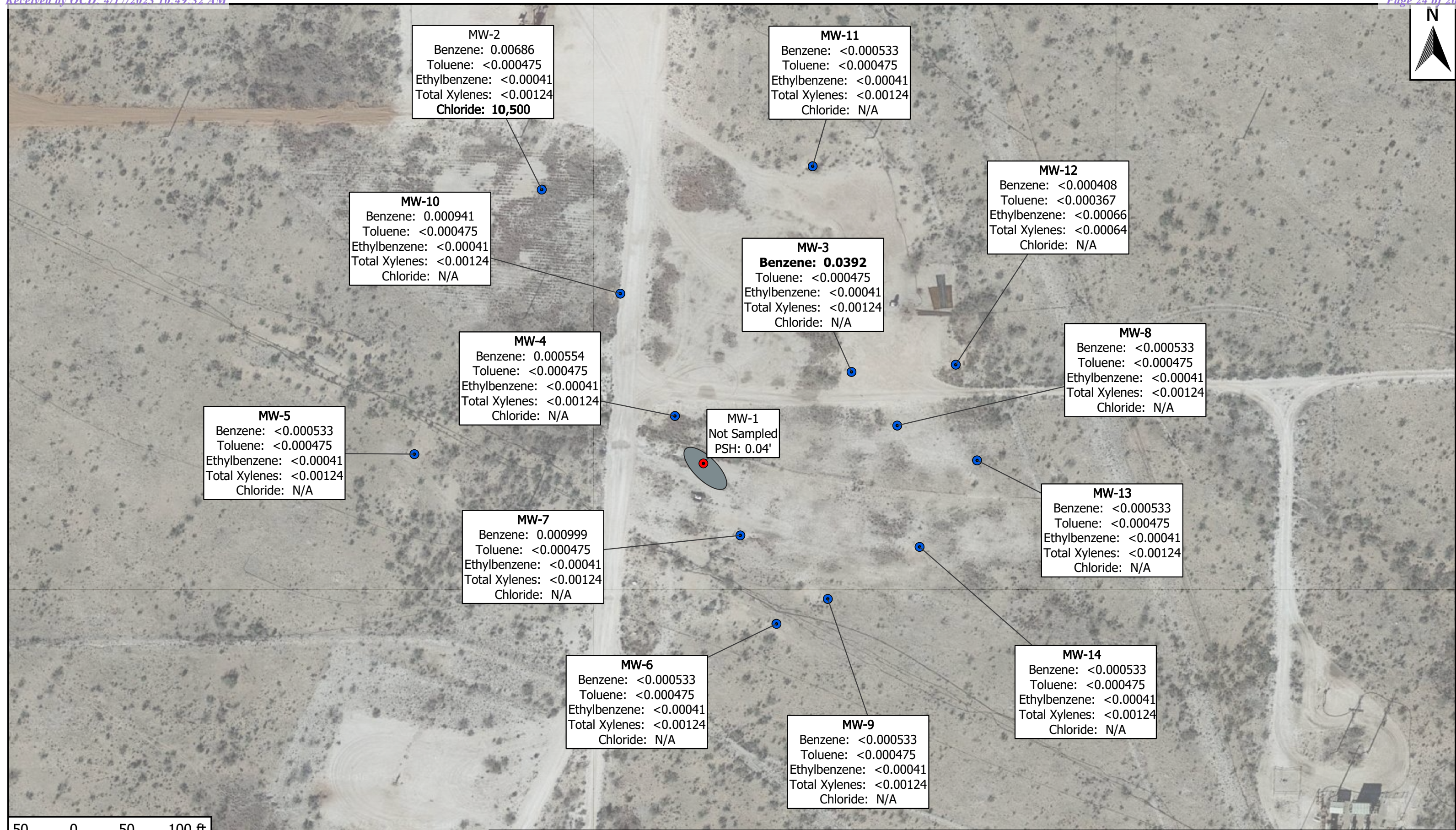
- Monitor Well
- Recovery Well
- Free Phase Plume

Figure 3B
Groundwater Concentration Map – 2Q2022
Plains All American Pipeline, LP
14-Inch Vac to Jal Legacy
GPS: 32.1029722, -103.1195278
Lea County, New Mexico



Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 4/5/2023



Notes:
Monitor well MW-1 was not sampled due to the presence of PSH.
All concentrations are reported in mg/L.
Concentrations in **bold** exceed NMOCD regulatory limits.

Legend

- Monitor Well
- Recovery Well
- Free Phase Plume

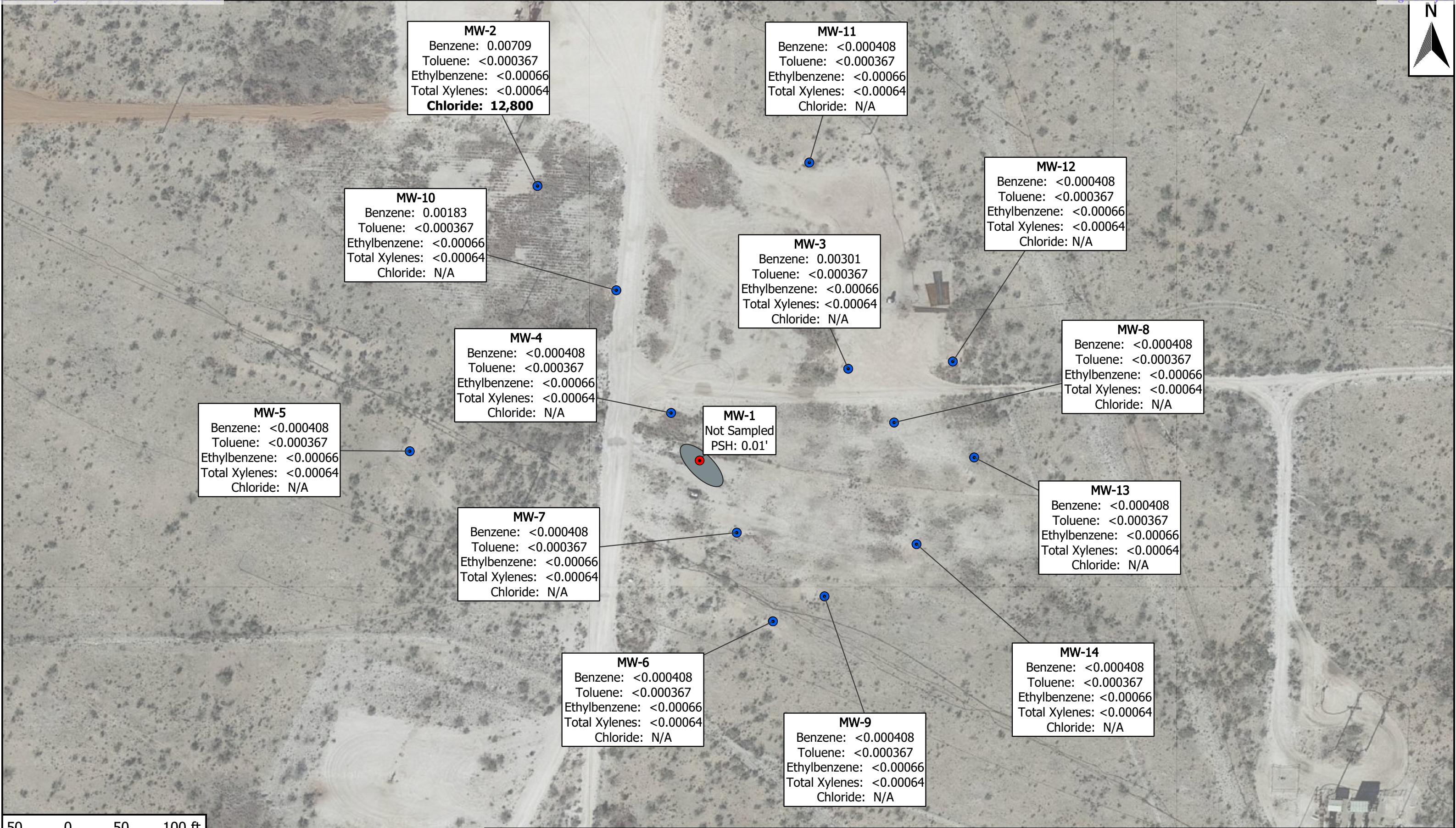
Figure 3C
Groundwater Concentration Map – 3Q2022
Plains All American Pipeline, LP
14-Inch Vac to Jal Legacy
GPS: 32.1029722, -103.1195278
Lea County, New Mexico



Drafted: bja

Checked: jwl

Date: 4/5/2023



Notes:
Monitor well MW-1 was not sampled due to the presence of PSH.
All concentrations are reported in mg/L.
Concentrations in **bold** exceed NMOCD regulatory limits.

Legend

- Monitor Well
- Recovery Well
- Free Phase Plume

Figure 3D
Groundwater Concentration Map – 4Q2022
Plains All American Pipeline, LP
14-Inch Vac to Jal Legacy
GPS: 32.1029722, -103.1195278
Lea County, New Mexico

eTECH
Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 4/5/2023

Tables 1 - 9

Table 1
Groundwater Elevation Data & PSH* Thickness Summary

14-Inch Vac to Jal Legacy
Lea County, New Mexico
Plains SRS #: 2009-092
Etech Project #: 17474
NMOCD Incident ID#: nAPP2109729126

Well ID	Date Measured	Well Casing Elevation**	Depth to Product (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation [†]
MW-1	03/08/2021	3,062.62	63.55	63.67	0.12	2,999.05
	06/08/2021		63.64	63.69	0.05	2,998.97
	09/20/2021		63.64	63.96	0.32	2,998.93
	12/07/2021		63.74	63.81	0.07	2,998.87
	12/07/2021		63.74	63.81	0.07	2,998.87
	03/07/2022		63.76	63.79	0.03	2,998.86
	06/20/2022		63.8	63.83	0.03	2,998.82
	09/19/2022		63.84	63.88	0.04	2,998.77
	02/24/2023		63.91	63.92	0.01	2,998.71
MW-2	03/08/2021	3,062.56	-	62.86	-	2,999.70
	06/08/2021		-	62.93	-	2,999.63
	09/20/2021		-	62.97	-	2,999.59
	12/07/2021		-	62.99	-	2,999.57
	03/07/2022		-	63.05	-	2,999.51
	06/20/2022		-	63.08	-	2,999.48
	09/19/2022		-	63.11	-	2,999.45
	02/24/2023		-	63.14	-	2,999.42
MW-3	03/08/2021	3,062.73	-	63.71	-	2,999.02
	06/08/2021		-	63.74	-	2,998.99
	09/20/2021		-	63.77	-	2,998.96
	12/07/2021		-	63.86	-	2,998.87
	03/07/2022		-	63.87	-	2,998.86
	06/20/2022		-	63.93	-	2,998.80
	09/19/2022		-	63.94	-	2,998.79
	02/24/2023		-	64.06	-	2,998.67
MW-4	03/08/2021	3,062.43	-	63.27	-	2,999.16
	06/08/2021		-	63.32	-	2,999.11
	09/20/2021		-	63.38	-	2,999.05
	12/07/2021		-	63.45	-	2,998.98
	03/07/2022		-	63.47	-	2,998.96
	06/20/2022		-	63.48	-	2,998.95
	09/19/2022		-	63.53	-	2,998.90
	02/24/2023		-	63.58	-	2,998.85
MW-5	03/08/2021	3,063.23	-	63.90	-	2,999.33
	06/08/2021		-	63.95	-	2,999.28
	09/20/2021		-	63.96	-	2,999.27
	12/07/2021		-	64.10	-	2,999.13
	03/07/2022		-	64.05	-	2,999.18
	06/20/2022		-	64.08	-	2,999.15
	09/19/2022		-	64.12	-	2,999.11
	02/24/2023		-	64.15	-	2,999.08
MW-6	03/08/2021	3,062.60	-	63.83	-	2,998.77
	06/08/2021		-	63.86	-	2,998.74
	09/20/2021		-	63.90	-	2,998.70
	12/07/2021		-	63.96	-	2,998.64
	03/07/2022		-	64.02	-	2,998.58
	06/20/2022		-	64.05	-	2,998.55
	09/19/2022		-	64.08	-	2,998.52
	02/24/2023		-	64.19	-	2,998.41
MW-7	03/08/2021	3,062.69	-	63.80	-	2,998.89
	06/08/2021		-	63.85	-	2,998.84
	09/20/2021		-	63.88	-	2,998.81
	12/07/2021		-	63.95	-	2,998.74
	03/07/2022		-	63.98	-	2,998.71
	06/20/2022		-	64.03	-	2,998.66
	09/19/2022		-	64.05	-	2,998.64
	02/24/2023		-	64.05	-	2,998.64

Notes:

*PSH: Phase Separated Hydrocarbons

**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 1
Groundwater Elevation Data & PSH* Thickness Summary

14-Inch Vac to Jal Legacy
Lea County, New Mexico
Plains SRS #: 2009-092
Etech Project #: 17474
NMOCD Incident ID#: nAPP2109729126

Well ID	Date Measured	Well Casing Elevation**	Depth to Product (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation [†]
MW-8	03/08/2021	3,062.42	-	63.53	-	2,998.89
	06/08/2021		-	63.58	-	2,998.84
	09/20/2021		-	63.64	-	2,998.78
	12/07/2021		-	63.70	-	2,998.72
	03/07/2022		-	63.75	-	2,998.67
	06/20/2022		-	63.79	-	2,998.63
	09/19/2022		-	63.80	-	2,998.62
	02/24/2023		-	63.83	-	2,998.59
MW-9	03/08/2021	3,062.77	-	63.95	-	2,998.82
	06/08/2021		-	64.00	-	2,998.77
	09/20/2021		-	64.03	-	2,998.74
	12/07/2021		-	64.10	-	2,998.67
	03/07/2022		-	64.14	-	2,998.63
	06/20/2022		-	64.18	-	2,998.59
	09/19/2022		-	64.20	-	2,998.57
	02/24/2023		-	64.21	-	2,998.56
MW-10	03/08/2021	3,062.50	-	62.98	-	2,999.52
	06/08/2021		-	63.03	-	2,999.47
	09/20/2021		-	63.07	-	2,999.43
	12/07/2021		-	63.11	-	2,999.39
	03/07/2022		-	63.15	-	2,999.35
	06/20/2022		-	63.18	-	2,999.32
	09/19/2022		-	63.22	-	2,999.28
	02/24/2023		-	64.22	-	2,998.28
MW-11	03/08/2021	3,063.50	-	63.86	-	2,999.64
	06/08/2021		-	63.91	-	2,999.59
	09/20/2021		-	63.92	-	2,999.58
	12/07/2021		-	63.97	-	2,999.53
	03/07/2022		-	64.01	-	2,999.49
	06/20/2022		-	64.07	-	2,999.43
	09/19/2022		-	64.09	-	2,999.41
	02/24/2023		-	64.18	-	2,999.32
MW-12	03/08/2021	3,062.20	-	63.27	-	2,998.93
	06/08/2021		-	63.33	-	2,998.87
	09/20/2021		-	63.36	-	2,998.84
	12/07/2021		-	63.44	-	2,998.76
	03/07/2022		-	63.47	-	2,998.73
	06/20/2022		-	63.53	-	2,998.67
	09/19/2022		-	63.55	-	2,998.65
	02/24/2023		-	63.58	-	2,998.62
MW-13	03/08/2021	3,062.71	-	63.95	-	2,998.76
	06/08/2021		-	63.99	-	2,998.72
	09/20/2021		-	64.03	-	2,998.68
	12/07/2021		-	64.11	-	2,998.60
	03/07/2022		-	64.15	-	2,998.56
	06/20/2022		-	64.18	-	2,998.53
	09/19/2022		-	64.19	-	2,998.52
	02/24/2023		-	64.35	-	2,998.36
MW-14	03/08/2021	3,062.50	-	63.78	-	2,998.72
	06/08/2021		-	63.83	-	2,998.67
	09/20/2021		-	63.86	-	2,998.64
	12/07/2021		-	63.93	-	2,998.57
	03/07/2022		-	63.98	-	2,998.52
	06/20/2022		-	64.02	-	2,998.48
	09/19/2022		-	64.02	-	2,998.48
	02/24/2023		-	64.08	-	2,998.42

Notes:

*PSH: Phase Separated Hydrocarbons

**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 2
Concentrations of Benzene, BTEX¹ & Chloride in Groundwater

14-Inch Vac to Jal Legacy
Lea County, New Mexico
Plains SRS #: 2009-092
Etech Project #: 17474
NMOCD Incident ID#: nAPP2109729126

EPA SW 846-8021B									
Well ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	M,P-Xylenes (mg/L)	O-Xylenes (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	Chloride (mg/L)
NMWQCC Standard ²		0.01	0.75	0.75	TOTAL XYLENES 0.62			NE ³	250
MW-1	03/09/2021	Not sampled due to the presence of Phase-Separated Hydrocarbons (PSH)							
	06/09/2021								
	09/20/2021								
	12/07/2021								
	03/09/2022								
	06/23/2022								
	09/21/2022								
02/24/2023									
MW-2	03/09/2021	0.0177	0.00313	0.000940 J	0.000910 J	0.00308	0.00399	0.0258	9,940
	06/10/2021	0.0137	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	0.0137	10,200
	09/21/2021	0.0112	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	0.0122	10,900
	12/08/2021	0.0276	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	0.0276	10,800
	03/09/2022	0.0105	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	0.0105	11,100
	06/23/2022	0.0176	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	0.0176	10,500
	09/21/2022	0.00686	<0.000475	<0.000411	<0.00124	0.000551	<0.00124	0.00686	10,500
	02/24/2023	0.00709	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	0.00709	12,800
MW-3	03/08/2021	0.100	0.00216	<0.000657	0.000690 J	0.00114 J	0.00183 J	0.104	-
	06/10/2021	0.0401	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	0.0401	-
	DUP-2	0.0471	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	0.0471	-
	09/21/2021	0.161	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	0.161	-
	DUP-2	0.19	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	0.190	-
	12/08/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	DUP-2	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	03/09/2022	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	DUP-2	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	06/23/2022	0.0285	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	0.0285	-
	09/21/2022	0.0399	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	0.0399	-
	DUP-1	0.0392	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	0.0392	-
02/24/2023	0.00301	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	0.00301	-	
MW-4	03/09/2021	<0.000480	<0.000367	<0.000657	<0.000630	<0.000642	<0.000630	<0.000367	-
	DUP-2	<0.000480	<0.000367	<0.000657	<0.000630	<0.000642	<0.000630	<0.000367	-
	06/10/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	09/21/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	12/08/2021	0.00568	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	0.00611	-
	03/09/2022	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	06/23/2022	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
	DUP-1	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
	09/21/2022	0.000554	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124	-
02/24/2023	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-	
MW-5	03/09/2021	0.000440 J	0.000940 J	0.000770 J	<0.000630	0.000800 J	0.000800 J	0.00295	-
	06/09/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	09/20/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200	-
	12/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	03/08/2022	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	06/23/2022	<0.00056	<0.000367	<0.000657	<0.000629	<0.000642	<0.000629	<0.000657	-
	09/21/2022	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124	-
	02/24/2023	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
MW-6	03/09/2021	<0.000408	0.00105 J	<0.000657	<0.000630	0.00110 J	0.00110 J	0.00215	-
	06/09/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	09/20/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200	-
	12/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	03/08/2022	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	06/23/2022	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
	09/21/2022	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124	-
	02/24/2023	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
MW-7	03/09/2021	<0.000408	<0.000367	<0.000657	<0.000630	<0.000642	<0.000630	<0.000367	-
	06/09/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	09/20/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200	-
	12/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	03/08/2022	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	06/23/2022	0.00142	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	0.00142	-
	09/21/2022	0.000999	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124	-
	02/24/2023	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-

Notes:

1. BTEX: Benzene, Toluene, Ethylbenzene, and Total Xylenes

2. NMWQCC: New Mexico Water Quality Control Commission

3. NE: Not Established

Dash (-): Not analyzed OR Not Applicable

J: The target analyte was positively identified below the quantitation limit and above the detection limit

Bold text indicates a concentration exceeding NMWQCC Drinking Water Standards.

Table 2
Concentrations of Benzene, BTEX¹ & Chloride in Groundwater

14-Inch Vac to Jal Legacy
Lea County, New Mexico
Plains SRS #: 2009-092
Etech Project #: 17474
NMOCD Incident ID#: nAPP2109729126

		EPA SW 846-8021B							
Well ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	M,P-Xylenes (mg/L)	O-Xylenes (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	Chloride (mg/L)
NMWQCC Standard ²		0.01	0.75	0.75	TOTAL XYLENES 0.62			NE ³	250
MW-8	03/09/2021	<0.000408	<0.000367	<0.000657	<0.000630	<0.000642	<0.000630	<0.000367	-
	06/10/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	DUP-1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	09/21/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200	-
	12/08/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	03/08/2022	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	DUP-1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	06/23/2022	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
	09/21/2022	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124	-
02/24/2023	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-	
MW-9	03/08/2021	<0.000408	<0.000367	<0.000657	<0.000630	<0.000642	<0.000630	<0.000367	-
	06/09/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	09/20/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200	-
	12/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	03/08/2022	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	06/23/2022	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
	09/21/2022	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124	-
	02/24/2023	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
	MW-10	03/09/2021	0.00153 J	<0.000367	<0.000657	<0.000630	<0.000642	<0.000630	0.00153 J
06/09/2021		<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
09/20/2021		<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200	-
12/07/2021		<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
03/08/2022		<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
06/23/2022		0.00183	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	0.00183	-
09/21/2022		0.000941	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124	-
02/24/2023		0.00183J	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	0.00183J	-
MW-11		03/08/2021	<0.000408	<0.000367	<0.000657	0.00299 J	0.00200 J	0.00499	0.00499
	06/10/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	09/20/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200	-
	12/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	03/08/2022	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	06/23/2022	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
	09/21/2022	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124	-
	02/24/2023	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
	MW-12	03/08/2021	<0.000408	<0.000367	<0.000657	<0.000630	<0.000642	<0.000630	<0.000367
06/10/2021		<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
09/21/2021		<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200	-
12/07/2021		<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
03/09/2022		<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
06/23/2022		<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
09/21/2022		<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
02/24/2023		<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
MW-13		03/08/2021	<0.000408	<0.000367	<0.000657	<0.000630	<0.000642	<0.000630	<0.000367
	DUP-1	<0.000408	<0.000367	<0.000657	<0.000630	<0.000642	<0.000630	<0.000367	-
	06/10/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	09/21/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200	-
	12/08/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	03/09/2022	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	06/23/2022	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
	09/21/2022	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124	-
	02/24/2023	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
MW-14	03/08/2021	<0.000408	<0.000367	<0.000657	<0.000630	<0.000642	<0.000630	<0.000367	-
	06/09/2021	0.00232	0.00491	<0.00200	<0.00400	<0.00200	<0.00400	0.00723	-
	09/21/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200	-
	DUP-1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200	-
	12/08/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	DUP-1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	03/09/2022	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	-
	06/23/2022	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
	DUP-2	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-
	09/29/2022	<0.000553	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124	-
	DUP-2	<0.000553	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124	-
	02/24/2023	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657	-

Notes:

1. BTEX: Benzene, Toluene, Ethylbenzene, and Total Xylenes

2. NMWQCC: New Mexico Water Quality Control Commission

3. NE: Not Established

Dash (-): Not analyzed OR Not Applicable

J: The target analyte was positively identified below the quantitation limit and above the detection limit

Bold text indicates a concentration exceeding NMWQCC Drinking Water Standards.

Table 3
Phase-Separate Hydrocarbon (PSH) Thickness & Recovery Summary (MW-1)

14-inch Vac to Jal Legacy
Lea County, New Mexico
Plains SRS #: 2009-092
Etech Project #: 17474
NMOCD Incident ID#: nAPP2109729126

Well ID	Date Measured	Well Casing Elevation*	Depth to Product (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Fluid Recovery (gallons)	PSH Recovered (gallons)
MW-1	01/29/2021	3,062.62	63.56	63.89	0.33	3.0	0.054
	02/25/2021		63.59	63.84	0.25	1,260.0	0.041
	03/25/2021		63.57	63.89	0.32	5.0	0.052
	04/28/2021		63.30	63.79	0.49	5.0	0.080
	05/20/2021		63.61	63.78	0.17	1,470.0	0.028
	06/29/2021		63.64	63.79	0.15	5.0	0.024
	07/28/2021		63.69	63.77	0.08	5.0	0.013
	08/12/2021		63.70	63.75	0.05	1,575.0	0.008
	08/24/2021		-	-	-	5.0	-
	10/26/2021		63.08	64.05	0.97	5.0	0.158
	11/11/2021		63.75	63.96	0.21	1,575.0	0.034
	11/30/2021		63.73	63.86	0.13	5.0	0.021
	12/21/2021		63.76	64.15	0.39	5.0	0.064
	01/24/2022		-	-	-	5.0	-
	02/10/2022		63.78	63.88	0.10	840.0	0.016
	02/21/2022		Sheen	63.73	-	5.0	-
	03/30/2022		63.84	63.88	0.04	5.0	0.007
	04/26/2022		63.78	63.82	0.04	5.0	0.007
	05/19/2022		69.03	Probe not working properly		810.00	
	05/26/2022		63.81	63.82	0.01	5	0.00163
	08/24/2022		63.85	63.94	0.09	5	0.01467
	09/29/2022		63.84	63.88	0.04	1350	0.00652
	10/31/2022		63.92	63.96	0.04	5	0.00652
	11/22/2022		-	63.85	No sheen	5	-
	02/24/2023		63.91	63.92	0.01	-	-
2022 Average PSH Thickness & Recovery Totals					0.05	3,040	0.06

Notes:

* Elevation measurements are in feet above mean sea level, based on the North American Vertical Datum of 1988.

Dash (-): Not measured or Not Applicable

Table 4
Gauging & Groundwater Recovery Summary (MW-3)

14-Inch Vac to Jal Legacy
Lea County, New Mexico
Plains SRS #: 2009-092
Etech Project #: 17474
NMOCD Incident ID#: nAPP2109729126

Well ID	Date Measured	Well Casing Elevation*	Groundwater Recovered (gallons)
MW-3	01/29/2021	3,062.73	3.0
	02/24/2021		1,050
	03/25/2021		5.0
	04/28/2021		5.0
	05/19/2021		1,260
	06/29/2021		5.0
	07/28/2021		5.0
	08/11/2021		1,575
	08/24/2021		5.0
	10/26/2021		5.0
	11/10/2021		855
	11/30/2021		5.0
	12/21/2021		5.0
	01/24/2022		5.0
	02/09/2022		840
	02/21/2022		5.0
	03/30/2022		5.0
	04/26/2022		5.0
	05/18/2022		810
	5/26/2022		5.0
	8/24/2022		5.0
	9/28/2022		1,350
	10/31/2022		5.0
	11/22/2022		5.0
	02/24/2023		10.0
2022 Total Recovered			3,040

Notes:

* Elevation measurements are in feet above mean sea level, based on the North American Vertical Datum of 1988.

- = Not measured or Not Applicable

Table 5
Gauging & Groundwater Recovery Summary (MW-4)

14-Inch Vac to Jal Legacy
Lea County, New Mexico
Plains SRS #: 2009-092
Etech Project #: 17474
NMOCD Incident ID#: nAPP2109729126

Well ID	Date Measured	Well Casing Elevation*	Groundwater Recovered (gallons)
MW-4	01/29/2021	3,062.43	3.0
	02/23/2021		10.0
	03/25/2021		5.0
	04/28/2021		5.0
	05/17/2021		5.0
	06/29/2021		5.0
	07/28/2021		5.0
	08/12/2021		5.0
	08/24/2021		5.0
	10/26/2021		5.0
	11/11/2021		5.0
	11/30/2021		5.0
	12/21/2021		5.0
	01/24/2022		5.0
	02/10/2022		10.0
	02/21/2022		5.0
	03/30/2022		5.0
	Not bailed 2Q		-
	08/24/2022		5.0
	09/29/2022		5.0
	10/31/2022		5.0
	11/22/2022		5.0
	02/24/2023		40.0
2022 Total Recovered			45.0

Notes:

* Elevation measurements are in feet above mean sea level, based on the North American Vertical Datum of 1988.

- = Not measured or Not Applicable

Table 6
Gauging & Groundwater Recovery Summary (MW-8)

14-Inch Vac to Jal Legacy
Lea County, New Mexico
Plains SRS #: 2009-092
Etech Project #: 17474
NMOCD Incident ID#: nAPP2109729126

Well ID	Date Measured	Well Casing Elevation*	Groundwater Recovered (gallons)
MW-8	01/29/2021	3,062.42	3.0
	02/22/2021		1,176
	03/25/2021		5.0
	04/28/2021		5.0
	05/18/2021		1,176
	06/29/2021		5.0
	07/28/2021		5.0
	08/10/2021		1,125
	08/24/2021		5.0
	10/26/2021		5.0
	11/09/2021		1,080
	11/30/2021		5.0
	12/21/2021		5.0
	01/24/2022		5.0
	02/08/2022		1,260
	02/21/2022		5.0
	03/30/2022		5.0
	04/26/2022		5.0
	05/17/2022		1,170
	05/26/2022		5.0
	08/24/2022		5.0
	09/27/2022		2,700
	10/31/2022		5.0
	11/22/2022		5.0
	02/24/2023		9.0
2022 Total Recovered			5,165

Notes:

* Elevation measurements are in feet above mean sea level, based on the North American Vertical Datum of 1988.

- = Not measured or Not Applicable

Table 7
Gauging & Groundwater Recovery Summary (MW-13)

14-Inch Vac to Jal Legacy
Lea County, New Mexico
Plains SRS #: 2009-092
Etech Project #: 17474
NMOCD Incident ID#: nAPP2109729126

Well ID	Date Measured	Well Casing Elevation*	Groundwater Recovered (gallons)
MW-13	01/29/2021	3,062.71	3.0
	02/23/2021		1,260
	03/25/2021		5.0
	04/28/2021		5.0
	05/17/2021		1,260
	06/29/2021		5.0
	07/28/2021		5.0
	08/09/2021		1,260
	08/24/2021		5.0
	10/26/2021		5.0
	11/08/2021		585
	11/30/2021		5.0
	12/21/2021		5.0
	01/24/2022		5.0
	02/07/2022		546
	02/21/2022		5.0
	03/30/2022		5.0
	04/26/2022		5.0
	05/16/2022		585
	05/26/2022		5.0
	08/24/2022		5.0
	09/26/2022		1,350
	10/31/2022		5.0
	11/22/2022		5.0
	02/24/2023		10.0
2022 Total Recovered			2,521

Notes:

* Elevation measurements are in feet above mean sea level, based on the North American Vertical Datum of 1988.

- = Not measured or Not Applicable

Table 8
Quarterly Aggressive Fluid Recovery (AFR) Summary

14-inch Vac to Jal Legacy
Lea County, New Mexico
Plains SRS #: 2009-092
Etech Project #: 17474
NMOCD Incident ID#: nAPP2109729126

Monitoring Well	Date	Targeted Constituent	Fluid Volume (gallons)	Notes
4Q21 Total Recovered			3,822	
2021 Total Recovered			18,900	
MW-1	02/10/2022	PSH* & BTEX**	840	Vac Truck
MW-3	02/09/2022	BTEX	840	Vac Truck
MW-8	02/08/2022	BTEX	1,260	Vac Truck
MW-13	02/07/2022	BTEX	546	Vac Truck
1Q22 Total Recovered			3,486	
MW-1	05/19/2022	PSH/BTEX	810	Vac Truck
MW-3	05/18/2022	BTEX	810	Vac Truck
MW-8	05/17/2022	BTEX	1,170	Vac Truck
MW-13	05/16/2022	BTEX	585	Vac Truck
2Q22 Total Recovered			3,375	
MW-1	09/29/2022	PSH/BTEX	1,350	Vac Truck
MW-3	09/28/2022	BTEX	1,350	Vac Truck
MW-8	09/27/2022	BTEX	2,700	Vac Truck
MW-13	09/26/2022	BTEX	1,350	Vac Truck
3Q22 Total Recovered				
MW-1		PSH/BTEX	21,778	Total Recovered to Date
MW-3		BTEX	17,834	Total Recovered to Date
MW-8		BTEX	18,074	Total Recovered to Date
MW-13		BTEX	11,093	Total Recovered to Date
Total Recovered to Date			68,779	

Notes:

*PSH: Phase-Separated Hydrocarbons

**BTEX: Benzene, toluene, ethylbenzene, and total xylenes.

Table 9
Concentrations of Polycyclic Aromatic Hydrocarbons (PAH) in Groundwater

14-Inch Vac to Jal Legacy
Lea County, New Mexico
Plains SRS #: 2009-092
Etech Project #: 17474
NMOCD Incident ID #: nAPP2109729126

All concentrations are reported in milligrams per liter (mg/L)

SAMPLE LOCATION	SAMPLE DATE	EPA 8270D																
		Naphthalene	Benzo(a)pyrene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h)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	Phenanthrene	Pyrene
NMWQCC ¹ Standards		0.03	0.0007	NE ²														
MW-1	11/25/2019	Not sampled due to the presence of Phase-Separated Hydrocarbons (PSH)																
	12/08/2020																	
MW-2	06/07/2013	N/A	<0.00021	<0.005	<0.005	<0.00017	<0.005	<0.00039	<0.005	<0.00053	<0.005	<0.005	N/A	<0.00026	<0.00032	<0.005	<0.00029	<0.00029
	05/12/2014	N/A	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	N/A	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053
	11/25/2019	N/A	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	N/A	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053
	12/09/2020	0.000242 J	<0.0000588	<0.000103	<0.000086	<0.0000893	<0.000139	<0.0000733	<0.000117	<0.000120	<0.000161	<0.0000784	NA	<0.000162	<0.000104	<0.0000942	<0.0000877	<0.000134
MW-3	06/07/2013	N/A	<0.00021	<0.005	<0.005	<0.00017	<0.005	<0.00039	<0.005	<0.00054	<0.005	<0.005	N/A	<0.00026	<0.00032	<0.005	<0.00029	<0.00029
	05/12/2014	N/A	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	N/A	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051
	11/25/2019		Well Not Sampled															
	12/09/2020	<0.000101	<0.0000594	<0.000104	<0.000087	<0.0000902	<0.000140	<0.0000741	<0.000118	<0.000121	<0.000163	<0.0000792	NA	<0.000164	<0.000105	<0.0000951	<0.0000886	<0.000136
	03/09/2022	<0.00362	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181
MW-4	06/07/2013	N/A	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053	N/A	<0.000053	<0.000053	<0.000053	<0.000053	<0.000053
	05/12/2014	N/A	<0.00021	<0.005	<0.005	<0.00017	<0.005	<0.00040	<0.005	<0.00054	<0.005	<0.005	N/A	<0.00027	<0.00032	<0.005	<0.00029	<0.00030
	11/25/2019		Well Not Sampled															
	12/09/2020	<0.000103	<0.0000604	<0.000106	<0.000089	<0.0000917	<0.000142	<0.0000753	<0.000120	<0.000123	<0.000165	<0.0000805	N/A	<0.000166	<0.000107	<0.0000967	<0.0000901	<0.000138
	03/09/2022	<0.00361	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181
MW-5	06/07/2013	N/A	<0.00021	<0.005	<0.005	<0.00017	<0.005	<0.00039	<0.005	<0.00054	<0.005	<0.005	N/A	<0.00026	<0.00032	<0.005	<0.00029	<0.00029
	05/12/2014	N/A	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	N/A	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052
	11/25/2019		Well Not Sampled															
	12/08/2020	<0.000100	<0.0000589	<0.000103	<0.000086	<0.0000894	<0.000139	<0.0000734	<0.000117	<0.000120	<0.000161	<0.0000785	N/A	<0.000162	<0.000104	<0.0000943	<0.0000878	<0.000135
	03/08/2022	<0.00360	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181
MW-6	06/07/2013	N/A	<0.00021	<0.005	<0.005	<0.00017	<0.005	<0.00040	<0.005	<0.00055	<0.005	<0.005	N/A	<0.00027	<0.00033	<0.005	<0.00030	<0.00030
	05/12/2014	N/A	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	N/A	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052
	11/25/2019		Well Not Sampled															
	12/08/2020	<0.000117	<0.0000689	<0.000121	<0.000102	<0.000105	<0.000162	<0.0000858	<0.000137	<0.000140	<0.000189	<0.0000918	N/A	<0.000190	<0.000122	<0.000110	<0.000103	<0.000157
	03/08/2022	<0.00362	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181
MW-7	07/02/2014	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
	11/25/2019		Well Not Sampled															
	12/08/2020	<0.000133	<0.0000778	<0.000136	<0.000115	<0.000118	<0.000183	<0.0000969	<0.000154	<0.000158	<0.000213	<0.000104	N/A	<0.000214	<0.000137	<0.000124	<0.000116	<0.000178
	03/08/2022	<0.00385	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193

Table 9
Concentrations of Polycyclic Aromatic Hydrocarbons (PAH) in Groundwater

14-Inch Vac to Jal Legacy
 Lea County, New Mexico
 Plains SRS #: 2009-092
 Etech Project #: 17474
 NMOCD Incident ID #: nAPP2109729126

All concentrations are reported in milligrams per liter (mg/L)

SAMPLE LOCATION	SAMPLE DATE	EPA 8270D																
		Naphthalene	Benzo(a)pyrene	Acenaphthene	Acenaphthylene	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	Phenanthrene	Pyrene
NMWQCC ¹ Standards		0.03	0.0007	NE ²														
MW-8	07/02/2014	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
	11/25/2019	Well Not Sampled																
	12/09/2020	<0.000114	<0.0000667	<0.000117	<0.000098	<0.000101	<0.000157	<0.0000831	<0.000132	<0.000136	<0.000183	<0.0000889	N/A	<0.000184	<0.000118	<0.000107	<0.0000994	<0.000152
	03/09/2022	<0.00360	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180
MW-9	07/02/2014	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
	11/25/2019	Well Not Sampled																
	12/08/2020	<0.000116	<0.0000679	<0.000119	<0.000100	<0.000103	<0.000160	<0.0000846	<0.000135	<0.000138	<0.000186	<0.0000904	N/A	<0.000187	<0.000120	<0.000109	<0.000101	<0.000155
	03/08/2022	<0.00362	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181
MW-10	11/25/2019	<1.16	N/A	<2.09	<1.12	<0.811	N/A	N/A	N/A	N/A	<1.38	N/A	N/A	<0.740	<1.09	N/A	<0.771	<1.38
	12/08/2020	<0.000110	<0.0000646	<0.000113	<0.000095	<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-11	11/25/2019	<1.16	N/A	<2.09	<1.12	<0.811	N/A	N/A	N/A	N/A	<1.38	N/A	N/A	<0.740	<1.09	N/A	<0.771	<1.38
	12/08/2020	<0.000100	<0.0000587	<0.000103	<0.000086	<0.0000891	<0.000138	<0.0000731	<0.000116	<0.000119	<0.000161	<0.0000781	N/A	<0.000162	<0.000104	<0.0000939	<0.0000874	<0.000134
MW-12	11/25/2019	<1.16	N/A	<2.09	<1.12	<0.811	N/A	N/A	N/A	N/A	<1.38	N/A	N/A	<0.740	<1.09	N/A	<0.771	<1.38
	12/09/2020	<0.0000997	<0.0000585	<0.000102	<0.000086	<0.0000888	<0.000138	<0.0000729	<0.000116	<0.000119	<0.000160	<0.0000779	N/A	<0.000161	<0.000103	<0.0000936	<0.0000872	<0.000134
MW-13	11/25/2019	<1.16	N/A	<2.09	<1.12	<0.811	N/A	N/A	N/A	N/A	<1.38	N/A	N/A	<0.740	<1.09	N/A	<0.771	<1.38
	12/09/2020	<0.000115	<0.0000674	<0.000118	<0.000099	<0.000102	<0.000159	<0.0000840	<0.000134	<0.000137	<0.000184	<0.0000898	N/A	<0.000186	<0.000119	<0.000108	<0.000100	<0.000154
MW-14	11/25/2019	<1.16	N/A	<2.09	<1.12	<0.811	N/A	N/A	N/A	N/A	<1.38	N/A	N/A	<0.740	<1.09	N/A	<0.771	<1.38
	12/08/2020	<0.000107	<0.0000627	<0.000110	<0.000092	<0.0000952	<0.000148	<0.0000781	<0.000124	<0.000128	<0.000172	<0.0000835	N/A	<0.000173	<0.000111	<0.000100	<0.0000935	<0.000143

Notes:

1. NMWQCC: New Mexico Water Quality Control Commission

2. NE: Not Established

J: The target analyte was positively identified below the quantitation limit and above the detection limit

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: 820-3626-1

Laboratory Sample Delivery Group: AR227010

Client Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

For:

Terracon Consulting Eng & Scientists
1211 West Florida Avenue
Midland, Texas 79701

Attn: Brett Dennis

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
3/22/2022 12:11:25 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

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.

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Laboratory Job ID: 820-3626-1
SDG: AR227010

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
 Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
 SDG: AR227010

Qualifiers

GC VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

Job ID: 820-3626-1

Laboratory: Eurofins Lubbock**Narrative**

**Job Narrative
820-3626-1****Receipt**

The samples were received on 3/10/2022 9:42 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 0.1°C

GC VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 880-21954 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

Client Sample ID: MW-10

Lab Sample ID: 820-3626-1

Date Collected: 03/08/22 11:07

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/16/22 18:10	1
Toluene	<0.00200	U	0.00200		mg/L			03/16/22 18:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/16/22 18:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/16/22 18:10	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/16/22 18:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/16/22 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130		03/16/22 18:10	1
1,4-Difluorobenzene (Surr)	70		70 - 130		03/16/22 18:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			03/18/22 13:35	1

Client Sample ID: MW-6

Lab Sample ID: 820-3626-2

Date Collected: 03/08/22 12:38

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/16/22 18:37	1
Toluene	<0.00200	U	0.00200		mg/L			03/16/22 18:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/16/22 18:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/16/22 18:37	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/16/22 18:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/16/22 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130		03/16/22 18:37	1
1,4-Difluorobenzene (Surr)	77		70 - 130		03/16/22 18:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			03/18/22 13:35	1

Client Sample ID: MW-5

Lab Sample ID: 820-3626-3

Date Collected: 03/08/22 13:19

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/16/22 19:04	1
Toluene	<0.00200	U	0.00200		mg/L			03/16/22 19:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/16/22 19:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/16/22 19:04	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/16/22 19:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/16/22 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130		03/16/22 19:04	1
1,4-Difluorobenzene (Surr)	76		70 - 130		03/16/22 19:04	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

Client Sample ID: MW-5

Lab Sample ID: 820-3626-3

Date Collected: 03/08/22 13:19

Matrix: Water

Date Received: 03/10/22 09:42

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			03/18/22 13:35	1

Client Sample ID: MW-9

Lab Sample ID: 820-3626-4

Date Collected: 03/08/22 14:08

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/16/22 19:30	1
Toluene	<0.00200	U	0.00200		mg/L			03/16/22 19:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/16/22 19:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/16/22 19:30	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/16/22 19:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/16/22 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130		03/16/22 19:30	1
1,4-Difluorobenzene (Surr)	84		70 - 130		03/16/22 19:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			03/18/22 13:35	1

Client Sample ID: MW-7

Lab Sample ID: 820-3626-5

Date Collected: 03/08/22 15:01

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/16/22 19:57	1
Toluene	<0.00200	U	0.00200		mg/L			03/16/22 19:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/16/22 19:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/16/22 19:57	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/16/22 19:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/16/22 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130		03/16/22 19:57	1
1,4-Difluorobenzene (Surr)	83		70 - 130		03/16/22 19:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			03/18/22 13:35	1

Client Sample ID: MW-11

Lab Sample ID: 820-3626-6

Date Collected: 03/08/22 15:40

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/16/22 20:24	1
Toluene	<0.00200	U	0.00200		mg/L			03/16/22 20:24	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

Client Sample ID: MW-11

Lab Sample ID: 820-3626-6

Date Collected: 03/08/22 15:40

Matrix: Water

Date Received: 03/10/22 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/16/22 20:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/16/22 20:24	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/16/22 20:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/16/22 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130					03/16/22 20:24	1
1,4-Difluorobenzene (Surr)	95		70 - 130					03/16/22 20:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			03/18/22 13:35	1

Client Sample ID: MW-12

Lab Sample ID: 820-3626-7

Date Collected: 03/09/22 10:34

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/16/22 20:50	1
Toluene	<0.00200	U	0.00200		mg/L			03/16/22 20:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/16/22 20:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/16/22 20:50	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/16/22 20:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/16/22 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130					03/16/22 20:50	1
1,4-Difluorobenzene (Surr)	117		70 - 130					03/16/22 20:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			03/18/22 13:35	1

Client Sample ID: MW-2

Lab Sample ID: 820-3626-8

Date Collected: 03/09/22 11:30

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0105		0.00200		mg/L			03/18/22 17:47	1
Toluene	<0.00200	U	0.00200		mg/L			03/18/22 17:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/18/22 17:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/18/22 17:47	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/18/22 17:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/18/22 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130					03/18/22 17:47	1
1,4-Difluorobenzene (Surr)	104		70 - 130					03/18/22 17:47	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

Client Sample ID: MW-2

Lab Sample ID: 820-3626-8

Date Collected: 03/09/22 11:30

Matrix: Water

Date Received: 03/10/22 09:42

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0105		0.00400		mg/L			03/18/22 13:35	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11100		50.0		mg/L			03/21/22 12:25	100

Client Sample ID: MW-13

Lab Sample ID: 820-3626-9

Date Collected: 03/09/22 12:09

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/18/22 18:07	1
Toluene	<0.00200	U	0.00200		mg/L			03/18/22 18:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/18/22 18:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/18/22 18:07	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/18/22 18:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/18/22 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130		03/18/22 18:07	1
1,4-Difluorobenzene (Surr)	104		70 - 130		03/18/22 18:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			03/18/22 13:35	1

Client Sample ID: MW-8

Lab Sample ID: 820-3626-10

Date Collected: 03/09/22 12:42

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/18/22 18:28	1
Toluene	<0.00200	U	0.00200		mg/L			03/18/22 18:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/18/22 18:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/18/22 18:28	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/18/22 18:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/18/22 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130		03/18/22 18:28	1
1,4-Difluorobenzene (Surr)	105		70 - 130		03/18/22 18:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			03/18/22 13:35	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

Client Sample ID: MW-3

Lab Sample ID: 820-3626-11

Date Collected: 03/09/22 13:35

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/17/22 00:50	1
Toluene	<0.00200	U	0.00200		mg/L			03/17/22 00:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/17/22 00:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/17/22 00:50	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/17/22 00:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/17/22 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130		03/17/22 00:50	1
1,4-Difluorobenzene (Surr)	102		70 - 130		03/17/22 00:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			03/17/22 11:55	1

Client Sample ID: MW-4

Lab Sample ID: 820-3626-12

Date Collected: 03/09/22 14:22

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/17/22 01:10	1
Toluene	<0.00200	U	0.00200		mg/L			03/17/22 01:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/17/22 01:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/17/22 01:10	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/17/22 01:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/17/22 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130		03/17/22 01:10	1
1,4-Difluorobenzene (Surr)	103		70 - 130		03/17/22 01:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			03/17/22 11:55	1

Client Sample ID: MW-14

Lab Sample ID: 820-3626-13

Date Collected: 03/09/22 14:59

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/17/22 01:30	1
Toluene	<0.00200	U	0.00200		mg/L			03/17/22 01:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/17/22 01:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/17/22 01:30	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/17/22 01:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/17/22 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130		03/17/22 01:30	1
1,4-Difluorobenzene (Surr)	104		70 - 130		03/17/22 01:30	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

Client Sample ID: MW-14

Lab Sample ID: 820-3626-13

Date Collected: 03/09/22 14:59

Matrix: Water

Date Received: 03/10/22 09:42

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			03/17/22 11:55	1

Client Sample ID: DUP-1

Lab Sample ID: 820-3626-14

Date Collected: 03/09/22 00:00

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/17/22 01:51	1
Toluene	<0.00200	U	0.00200		mg/L			03/17/22 01:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/17/22 01:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/17/22 01:51	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/17/22 01:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/17/22 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130		03/17/22 01:51	1
1,4-Difluorobenzene (Surr)	104		70 - 130		03/17/22 01:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			03/17/22 11:55	1

Client Sample ID: DUP-2

Lab Sample ID: 820-3626-15

Date Collected: 03/09/22 00:00

Matrix: Water

Date Received: 03/10/22 09:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/17/22 02:11	1
Toluene	<0.00200	U	0.00200		mg/L			03/17/22 02:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/17/22 02:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/17/22 02:11	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/17/22 02:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/17/22 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130		03/17/22 02:11	1
1,4-Difluorobenzene (Surr)	103		70 - 130		03/17/22 02:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			03/17/22 11:55	1

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Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
 SDG: AR227010

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
820-3626-1	MW-10	108	70
820-3626-2	MW-6	130	77
820-3626-3	MW-5	135 S1+	76
820-3626-4	MW-9	138 S1+	84
820-3626-5	MW-7	139 S1+	83
820-3626-6	MW-11	108	95
820-3626-7	MW-12	140 S1+	117
820-3626-8	MW-2	104	104
820-3626-8 MS	MW-2	98	102
820-3626-8 MSD	MW-2	97	103
820-3626-9	MW-13	106	104
820-3626-10	MW-8	110	105
820-3626-11	MW-3	105	102
820-3626-11 MS	MW-3	101	102
820-3626-11 MSD	MW-3	102	103
820-3626-12	MW-4	112	103
820-3626-13	MW-14	109	104
820-3626-14	DUP-1	107	104
820-3626-15	DUP-2	110	103
880-12249-B-1 MS	Matrix Spike	110	71
880-12249-B-1 MSD	Matrix Spike Duplicate	138 S1+	76
LCS 880-21683/3	Lab Control Sample	114	85
LCS 880-21692/34	Lab Control Sample	97	98
LCS 880-21850/3	Lab Control Sample	93	102
LCSD 880-21683/4	Lab Control Sample Dup	112	79
LCSD 880-21692/35	Lab Control Sample Dup	100	102
LCSD 880-21850/4	Lab Control Sample Dup	94	100
MB 880-21671/5-A	Method Blank	97	99
MB 880-21683/8	Method Blank	64 S1-	92
MB 880-21692/39	Method Blank	100	100
MB 880-21850/8	Method Blank	98	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21671/5-A

Matrix: Water

Analysis Batch: 21692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L		03/16/22 08:30	03/16/22 12:46	1
Toluene	<0.00200	U	0.00200		mg/L		03/16/22 08:30	03/16/22 12:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/L		03/16/22 08:30	03/16/22 12:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L		03/16/22 08:30	03/16/22 12:46	1
o-Xylene	<0.00200	U	0.00200		mg/L		03/16/22 08:30	03/16/22 12:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/L		03/16/22 08:30	03/16/22 12:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/16/22 08:30	03/16/22 12:46	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/16/22 08:30	03/16/22 12:46	1

Lab Sample ID: MB 880-21683/8

Matrix: Water

Analysis Batch: 21683

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/16/22 11:57	1
Toluene	<0.00200	U	0.00200		mg/L			03/16/22 11:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/16/22 11:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/16/22 11:57	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/16/22 11:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/16/22 11:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130		03/16/22 11:57	1
1,4-Difluorobenzene (Surr)	92		70 - 130		03/16/22 11:57	1

Lab Sample ID: LCS 880-21683/3

Matrix: Water

Analysis Batch: 21683

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1007		mg/L		101	70 - 130
Toluene	0.100	0.08725		mg/L		87	70 - 130
Ethylbenzene	0.100	0.08808		mg/L		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1721		mg/L		86	70 - 130
o-Xylene	0.100	0.09183		mg/L		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-21683/4

Matrix: Water

Analysis Batch: 21683

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08326		mg/L		83	70 - 130	19	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

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

Lab Sample ID: LCSD 880-21683/4

Matrix: Water

Analysis Batch: 21683

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.09720		mg/L		97	70 - 130	11	20
Ethylbenzene	0.100	0.09386		mg/L		94	70 - 130	6	20
m-Xylene & p-Xylene	0.200	0.2060		mg/L		103	70 - 130	18	20
o-Xylene	0.100	0.09950		mg/L		100	70 - 130	8	20
Surrogate									
	LCSD	LCSD							
	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	112		70 - 130						
1,4-Difluorobenzene (Surr)	79		70 - 130						

Lab Sample ID: 880-12249-B-1 MS

Matrix: Water

Analysis Batch: 21683

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F2	0.100	0.07240		mg/L		72	70 - 130		
Toluene	<0.00200	U	0.100	0.08579		mg/L		85	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.08956		mg/L		90	70 - 130		
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1741		mg/L		87	70 - 130		
o-Xylene	<0.00200	U	0.100	0.08795		mg/L		88	70 - 130		
Surrogate											
	MS	MS									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	110		70 - 130								
1,4-Difluorobenzene (Surr)	71		70 - 130								

Lab Sample ID: 880-12249-B-1 MSD

Matrix: Water

Analysis Batch: 21683

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F2	0.100	0.1075	F2	mg/L		108	70 - 130	39	25
Toluene	<0.00200	U	0.100	0.1045		mg/L		104	70 - 130	20	25
Ethylbenzene	<0.00200	U	0.100	0.1127		mg/L		113	70 - 130	23	25
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2194		mg/L		110	70 - 130	23	25
o-Xylene	<0.00200	U	0.100	0.1104		mg/L		110	70 - 130	23	25
Surrogate											
	MSD	MSD									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	76		70 - 130								

Lab Sample ID: MB 880-21692/39

Matrix: Water

Analysis Batch: 21692

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/17/22 00:21	1
Toluene	<0.00200	U	0.00200		mg/L			03/17/22 00:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/17/22 00:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/17/22 00:21	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

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

Lab Sample ID: MB 880-21692/39

Matrix: Water

Analysis Batch: 21692

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/L			03/17/22 00:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/17/22 00:21	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130					03/17/22 00:21	1
1,4-Difluorobenzene (Surr)	100		70 - 130					03/17/22 00:21	1

Lab Sample ID: LCS 880-21692/34

Matrix: Water

Analysis Batch: 21692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09083		mg/L		91	70 - 130
Toluene	0.100	0.09097		mg/L		91	70 - 130
Ethylbenzene	0.100	0.09060		mg/L		91	70 - 130
m-Xylene & p-Xylene	0.200	0.2127		mg/L		106	70 - 130
o-Xylene	0.100	0.1053		mg/L		105	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	97		70 - 130				
1,4-Difluorobenzene (Surr)	98		70 - 130				

Lab Sample ID: LCSD 880-21692/35

Matrix: Water

Analysis Batch: 21692

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09965		mg/L		100	70 - 130	9	20
Toluene	0.100	0.09874		mg/L		99	70 - 130	8	20
Ethylbenzene	0.100	0.09846		mg/L		98	70 - 130	8	20
m-Xylene & p-Xylene	0.200	0.2328		mg/L		116	70 - 130	9	20
o-Xylene	0.100	0.1147		mg/L		115	70 - 130	9	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	100		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: 820-3626-11 MS

Matrix: Water

Analysis Batch: 21692

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.100	0.1127		mg/L		112	70 - 130
Toluene	<0.00200	U	0.100	0.1090		mg/L		108	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1068		mg/L		107	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2527		mg/L		126	70 - 130
o-Xylene	<0.00200	U	0.100	0.1249		mg/L		125	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

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

Lab Sample ID: 820-3626-11 MS

Matrix: Water

Analysis Batch: 21692

Client Sample ID: MW-3

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 820-3626-11 MSD

Matrix: Water

Analysis Batch: 21692

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1046		mg/L		104	70 - 130	7	25
Toluene	<0.00200	U	0.100	0.1011		mg/L		100	70 - 130	7	25
Ethylbenzene	<0.00200	U	0.100	0.09962		mg/L		100	70 - 130	7	25
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2363		mg/L		118	70 - 130	7	25
o-Xylene	<0.00200	U	0.100	0.1168		mg/L		117	70 - 130	7	25

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-21850/8

Matrix: Water

Analysis Batch: 21850

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			03/18/22 17:18	1
Toluene	<0.00200	U	0.00200		mg/L			03/18/22 17:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			03/18/22 17:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			03/18/22 17:18	1
o-Xylene	<0.00200	U	0.00200		mg/L			03/18/22 17:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			03/18/22 17:18	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	98		70 - 130		03/18/22 17:18	1			
1,4-Difluorobenzene (Surr)	98		70 - 130		03/18/22 17:18	1			

Lab Sample ID: LCS 880-21850/3

Matrix: Water

Analysis Batch: 21850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08896		mg/L		89	70 - 130
Toluene	0.100	0.08630		mg/L		86	70 - 130
Ethylbenzene	0.100	0.08561		mg/L		86	70 - 130
m-Xylene & p-Xylene	0.200	0.2014		mg/L		101	70 - 130
o-Xylene	0.100	0.09887		mg/L		99	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

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

Lab Sample ID: LCS 880-21850/3

Matrix: Water

Analysis Batch: 21850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCSD 880-21850/4

Matrix: Water

Analysis Batch: 21850

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCS	LCS							%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.08505		mg/L		85	70 - 130	5	20		
Toluene	0.100	0.08714		mg/L		87	70 - 130	1	20		
Ethylbenzene	0.100	0.08695		mg/L		87	70 - 130	2	20		
m-Xylene & p-Xylene	0.200	0.2005		mg/L		100	70 - 130	0	20		
o-Xylene	0.100	0.09949		mg/L		99	70 - 130	1	20		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 820-3626-8 MS

Matrix: Water

Analysis Batch: 21850

Client Sample ID: MW-2

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0105		0.100	0.1067		mg/L		96	70 - 130		
Toluene	<0.00200	U	0.100	0.09271		mg/L		92	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.09096		mg/L		91	70 - 130		
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2144		mg/L		107	70 - 130		
o-Xylene	<0.00200	U	0.100	0.1052		mg/L		105	70 - 130		

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

Lab Sample ID: 820-3626-8 MSD

Matrix: Water

Analysis Batch: 21850

Client Sample ID: MW-2

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0105		0.100	0.1096		mg/L		99	70 - 130	3	25
Toluene	<0.00200	U	0.100	0.09423		mg/L		93	70 - 130	2	25
Ethylbenzene	<0.00200	U	0.100	0.09345		mg/L		93	70 - 130	3	25
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2194		mg/L		110	70 - 130	2	25
o-Xylene	<0.00200	U	0.100	0.1078		mg/L		108	70 - 130	2	25

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

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
 SDG: AR227010

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21954/3

Matrix: Water

Analysis Batch: 21954

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500		mg/L			03/21/22 07:13	1

Lab Sample ID: LCS 880-21954/4

Matrix: Water

Analysis Batch: 21954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.81		mg/L		107	90 - 110

Lab Sample ID: LCSD 880-21954/5

Matrix: Water

Analysis Batch: 21954

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25.0	27.07		mg/L		108	90 - 110	1	20

Lab Sample ID: 880-12359-F-1 MS

Matrix: Water

Analysis Batch: 21954

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	433	F1	250	725.9	F1	mg/L		117	90 - 110

Lab Sample ID: 880-12359-F-1 MSD

Matrix: Water

Analysis Batch: 21954

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	433	F1	250	756.2	F1	mg/L		129	90 - 110	4	20

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
 SDG: AR227010

GC VOA

Prep Batch: 21671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21671/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 21683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3626-1	MW-10	Total/NA	Water	8021B	
820-3626-2	MW-6	Total/NA	Water	8021B	
820-3626-3	MW-5	Total/NA	Water	8021B	
820-3626-4	MW-9	Total/NA	Water	8021B	
820-3626-5	MW-7	Total/NA	Water	8021B	
820-3626-6	MW-11	Total/NA	Water	8021B	
820-3626-7	MW-12	Total/NA	Water	8021B	
MB 880-21683/8	Method Blank	Total/NA	Water	8021B	
LCS 880-21683/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-21683/4	Lab Control Sample Dup	Total/NA	Water	8021B	
880-12249-B-1 MS	Matrix Spike	Total/NA	Water	8021B	
880-12249-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Analysis Batch: 21692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3626-11	MW-3	Total/NA	Water	8021B	
820-3626-12	MW-4	Total/NA	Water	8021B	
820-3626-13	MW-14	Total/NA	Water	8021B	
820-3626-14	DUP-1	Total/NA	Water	8021B	
820-3626-15	DUP-2	Total/NA	Water	8021B	
MB 880-21671/5-A	Method Blank	Total/NA	Water	8021B	21671
MB 880-21692/39	Method Blank	Total/NA	Water	8021B	
LCS 880-21692/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-21692/35	Lab Control Sample Dup	Total/NA	Water	8021B	
820-3626-11 MS	MW-3	Total/NA	Water	8021B	
820-3626-11 MSD	MW-3	Total/NA	Water	8021B	

Analysis Batch: 21807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3626-11	MW-3	Total/NA	Water	Total BTEX	
820-3626-12	MW-4	Total/NA	Water	Total BTEX	
820-3626-13	MW-14	Total/NA	Water	Total BTEX	
820-3626-14	DUP-1	Total/NA	Water	Total BTEX	
820-3626-15	DUP-2	Total/NA	Water	Total BTEX	

Analysis Batch: 21850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3626-8	MW-2	Total/NA	Water	8021B	
820-3626-9	MW-13	Total/NA	Water	8021B	
820-3626-10	MW-8	Total/NA	Water	8021B	
MB 880-21850/8	Method Blank	Total/NA	Water	8021B	
LCS 880-21850/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-21850/4	Lab Control Sample Dup	Total/NA	Water	8021B	
820-3626-8 MS	MW-2	Total/NA	Water	8021B	
820-3626-8 MSD	MW-2	Total/NA	Water	8021B	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

GC VOA

Analysis Batch: 21908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3626-1	MW-10	Total/NA	Water	Total BTEX	
820-3626-2	MW-6	Total/NA	Water	Total BTEX	
820-3626-3	MW-5	Total/NA	Water	Total BTEX	
820-3626-4	MW-9	Total/NA	Water	Total BTEX	
820-3626-5	MW-7	Total/NA	Water	Total BTEX	
820-3626-6	MW-11	Total/NA	Water	Total BTEX	
820-3626-7	MW-12	Total/NA	Water	Total BTEX	
820-3626-8	MW-2	Total/NA	Water	Total BTEX	
820-3626-9	MW-13	Total/NA	Water	Total BTEX	
820-3626-10	MW-8	Total/NA	Water	Total BTEX	

HPLC/IC

Analysis Batch: 21954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3626-8	MW-2	Total/NA	Water	300.0	
MB 880-21954/3	Method Blank	Total/NA	Water	300.0	
LCS 880-21954/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-21954/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-12359-F-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-12359-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

Client Sample ID: MW-10

Lab Sample ID: 820-3626-1

Date Collected: 03/08/22 11:07

Matrix: Water

Date Received: 03/10/22 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21683	03/16/22 18:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21908	03/18/22 13:35	AJ	XEN MID

Client Sample ID: MW-6

Lab Sample ID: 820-3626-2

Date Collected: 03/08/22 12:38

Matrix: Water

Date Received: 03/10/22 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21683	03/16/22 18:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21908	03/18/22 13:35	AJ	XEN MID

Client Sample ID: MW-5

Lab Sample ID: 820-3626-3

Date Collected: 03/08/22 13:19

Matrix: Water

Date Received: 03/10/22 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21683	03/16/22 19:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21908	03/18/22 13:35	AJ	XEN MID

Client Sample ID: MW-9

Lab Sample ID: 820-3626-4

Date Collected: 03/08/22 14:08

Matrix: Water

Date Received: 03/10/22 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21683	03/16/22 19:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21908	03/18/22 13:35	AJ	XEN MID

Client Sample ID: MW-7

Lab Sample ID: 820-3626-5

Date Collected: 03/08/22 15:01

Matrix: Water

Date Received: 03/10/22 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21683	03/16/22 19:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21908	03/18/22 13:35	AJ	XEN MID

Client Sample ID: MW-11

Lab Sample ID: 820-3626-6

Date Collected: 03/08/22 15:40

Matrix: Water

Date Received: 03/10/22 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21683	03/16/22 20:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21908	03/18/22 13:35	AJ	XEN MID

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

Client Sample ID: MW-12

Date Collected: 03/09/22 10:34

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3626-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21683	03/16/22 20:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21908	03/18/22 13:35	AJ	XEN MID

Client Sample ID: MW-2

Date Collected: 03/09/22 11:30

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3626-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21850	03/18/22 17:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21908	03/18/22 13:35	AJ	XEN MID
Total/NA	Analysis	300.0		100			21954	03/21/22 12:25	CH	XEN MID

Client Sample ID: MW-13

Date Collected: 03/09/22 12:09

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3626-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21850	03/18/22 18:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21908	03/18/22 13:35	AJ	XEN MID

Client Sample ID: MW-8

Date Collected: 03/09/22 12:42

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3626-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21850	03/18/22 18:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21908	03/18/22 13:35	AJ	XEN MID

Client Sample ID: MW-3

Date Collected: 03/09/22 13:35

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3626-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21692	03/17/22 00:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21807	03/17/22 11:55	AJ	XEN MID

Client Sample ID: MW-4

Date Collected: 03/09/22 14:22

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3626-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21692	03/17/22 01:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21807	03/17/22 11:55	AJ	XEN MID

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

Client Sample ID: MW-14

Lab Sample ID: 820-3626-13

Date Collected: 03/09/22 14:59

Matrix: Water

Date Received: 03/10/22 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21692	03/17/22 01:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21807	03/17/22 11:55	AJ	XEN MID

Client Sample ID: DUP-1

Lab Sample ID: 820-3626-14

Date Collected: 03/09/22 00:00

Matrix: Water

Date Received: 03/10/22 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21692	03/17/22 01:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21807	03/17/22 11:55	AJ	XEN MID

Client Sample ID: DUP-2

Lab Sample ID: 820-3626-15

Date Collected: 03/09/22 00:00

Matrix: Water

Date Received: 03/10/22 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	21692	03/17/22 02:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21807	03/17/22 11:55	AJ	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

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

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3626-1
SDG: AR227010

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-3626-1	MW-10	Water	03/08/22 11:07	03/10/22 09:42
820-3626-2	MW-6	Water	03/08/22 12:38	03/10/22 09:42
820-3626-3	MW-5	Water	03/08/22 13:19	03/10/22 09:42
820-3626-4	MW-9	Water	03/08/22 14:08	03/10/22 09:42
820-3626-5	MW-7	Water	03/08/22 15:01	03/10/22 09:42
820-3626-6	MW-11	Water	03/08/22 15:40	03/10/22 09:42
820-3626-7	MW-12	Water	03/09/22 10:34	03/10/22 09:42
820-3626-8	MW-2	Water	03/09/22 11:30	03/10/22 09:42
820-3626-9	MW-13	Water	03/09/22 12:09	03/10/22 09:42
820-3626-10	MW-8	Water	03/09/22 12:42	03/10/22 09:42
820-3626-11	MW-3	Water	03/09/22 13:35	03/10/22 09:42
820-3626-12	MW-4	Water	03/09/22 14:22	03/10/22 09:42
820-3626-13	MW-14	Water	03/09/22 14:59	03/10/22 09:42
820-3626-14	DUP-1	Water	03/09/22 00:00	03/10/22 09:42
820-3626-15	DUP-2	Water	03/09/22 00:00	03/10/22 09:42

Loc: 820

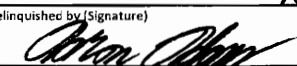
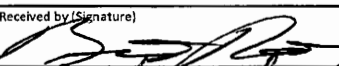
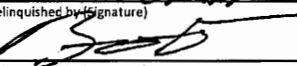
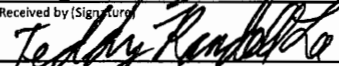
3626

3626

CHAIN OF CUSTODY RECORD

										Laboratory: Xenco Laboratories Address: 6701 Aberdeen Avenue, Suite 9 Lubbock, TX 79424		ANALYSIS REQUESTED				LAB USE ONLY DUE DATE:	
Office Location <u>Lubbock</u>										Phone: (806) 794-1296 Contact: Brett Dennis PO/SO #:		TEMP OF COOLER WHEN RECEIVED (°C) <u>-0.1/40.2</u>					
Project Manager: Brett Dennis Sampler's Name: Aaron Adams										Sampler's Signature 		Page <u>1</u> of <u>2</u>					
Project Number AR227010					Project Name 14" Vac to Jal Legacy (SRS # 2009-092)					No. Type of Containers							
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	40 ml VOA	250 ml Poly	BTEX (EPA Method 8021B)	Chloride (Total) (EPA 300)	Lab Sample ID					
GW	03/08/22	11:07		X	MW-10			3		X							
GW	03/08/22	12:38		X	MW-6			3		X							
GW	03/08/22	13:19		X	MW-5			3		X							
GW	03/08/22	14:08		X	MW-9			3		X							
GW	03/08/22	15:01		X	MW-7			3		X							
GW	03/08/22	15:40		X	MW-11			3		X							
GW	03/09/22	10:34		X	MW-12			3		X							
GW	03/09/22	11:30		X	MW-2			3	1	X	X						
GW	03/09/22	12:09		X	MW-13			3		X							
GW	03/09/22	12:42		X	MW-8			3		X							


 820-3626 Chain of Custody

TURNAROUND TIME ☒ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush				TRRP Laboratory Review Checklist ☐ Yes ☐ No			
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:	NOTES:	
	3-9-22	18:32		3-9-22	18:32	E-MAIL RESULTS TO:	
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:	1. CJBRYANT@PAALP.COM	
	3-10-22	9:42		3/10/22	09:42	2. BRETT.DENNIS@TERRACON.COM	
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:	3. ERIN.LOYD@TERRACON.COM	
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:		

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

Lubbock Office ■ 5827 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140

Responsive ■ Resourceful ■ Reliable

Terracon

Office Location Lubbock

Project Manager: Brett Dennis

Sampler's Name:

Sampler's Signature

Aaron Adams

Project Number

Project Name

14" Vac to Jal Legacy (SRS # 2009-092)

No.	Type of Containers
1	1000
2	1000
3	1000
4	1000
5	1000
6	1000
7	1000
8	1000
9	1000
10	1000
11	1000
12	1000
13	1000
14	1000
15	1000
16	1000
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90	1000
91	1000
92	1000
93	1000
94	1000
95	1000
96	1000
97	1000
98	1000
99	1000
100	1000

DA

[illegible]

TURNAROUND TIME

☒ Normal

☐ 48-Hour Rush☐ 24-Hour Rush

TRRP Laboratory Review Checklist

☐ Yes☐ No

Relinquished by (Signature)

Date:

Time:

Received by (Signature)

Date:

Time:

NOTES:

E-MAIL RESULTS TO:

1. CJBRYANT@PAAMP.COM

2. BRETT.DENNIS@TERRACON.COM

3. ERIN.LOYD@TERRACON.COM

Matrix WW-Wastewater

W - Water

S - Soll

L - Liquid

A - Air Bag

C - Charcoal tube

SL - Sludge

Container

VOA - 40 ml vial

A/G - Amber Glass 1L

250 ml = Glass wide mouth

P/O - Plastic or other _____

Lubbock Office ■ 5827 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140

Responsive ■ Resourceful ■ Reliable



Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock, TX 79424
Tel: (806)794-1296

Laboratory Job ID: 820-3628-1

Laboratory Sample Delivery Group: AR227010

Client Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

For:

Terracon Consulting Eng & Scientists
1211 West Florida Avenue
Midland, Texas 79701

Attn: Brett Dennis

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
3/16/2022 7:13:23 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

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.

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Laboratory Job ID: 820-3628-1
SDG: AR227010

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
 Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
 SDG: AR227010

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
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.
α	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
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Job ID: 820-3628-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-3628-1

Receipt

The samples were received on 3/10/2022 9:42 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 0.1°C

GC/MS Semi VOA

Method 8270D_SIM: The surrogate recovery for the laboratory Control Sample Duplicate (LCSD) associated with preparation batch 860-44739 and analytical batch 860-44919 was outside the upper control limits. Spiked analytes were recovered within control limits, therefore data was accepted.

Method 8270D_SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-44739 and analytical batch 860-44919 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D_SIM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (860-22287-N-5-A MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8270D_SIM: Surrogate recovery for the following samples were outside the upper control limit: MW-3 (820-3628-1), MW-5 (820-3628-3), MW-6 (820-3628-4), MW-7 (820-3628-5), MW-8 (820-3628-6) and MW-9 (820-3628-7). 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.

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Client Sample ID: MW-3

Lab Sample ID: 820-3628-1

Date Collected: 03/09/22 13:35

Matrix: Water

Date Received: 03/10/22 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
2-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Acenaphthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Acenaphthylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Benzo[a]anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Benzo[a]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Benzo[b]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Benzo[g,h,i]perylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Benzo[k]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Chrysene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Dibenz(a,h)anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Dibenzofuran	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Fluorene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Indeno[1,2,3-cd]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Naphthalene	<0.00362	U	0.00362		mg/L		03/11/22 18:38	03/15/22 12:24	1
Phenanthrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	151	S1+	54 - 146	03/11/22 18:38	03/15/22 12:24	1
Nitrobenzene-d5	125		46 - 151	03/11/22 18:38	03/15/22 12:24	1
p-Terphenyl-d14	85		51 - 139	03/11/22 18:38	03/15/22 12:24	1

Client Sample ID: MW-4

Lab Sample ID: 820-3628-2

Date Collected: 03/09/22 14:22

Matrix: Water

Date Received: 03/10/22 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
2-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Acenaphthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Acenaphthylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Benzo[a]anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Benzo[a]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Benzo[b]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Benzo[g,h,i]perylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Benzo[k]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Chrysene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Dibenz(a,h)anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Dibenzofuran	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Fluorene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Indeno[1,2,3-cd]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Naphthalene	<0.00361	U	0.00361		mg/L		03/11/22 18:38	03/15/22 12:43	1
Phenanthrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Client Sample ID: MW-4

Date Collected: 03/09/22 14:22

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	134		54 - 146	03/11/22 18:38	03/15/22 12:43	1
Nitrobenzene-d5	115		46 - 151	03/11/22 18:38	03/15/22 12:43	1
p-Terphenyl-d14	61		51 - 139	03/11/22 18:38	03/15/22 12:43	1

Client Sample ID: MW-5

Date Collected: 03/08/22 13:19

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
2-Methylnaphthalene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Acenaphthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Acenaphthylene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Anthracene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Benzo[a]anthracene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Benzo[a]pyrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Benzo[b]fluoranthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Benzo[g,h,i]perylene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Benzo[k]fluoranthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Chrysene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Dibenz(a,h)anthracene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Dibenzofuran	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Fluoranthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Fluorene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Indeno[1,2,3-cd]pyrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Naphthalene	<0.00360	U	0.00360		mg/L		03/11/22 18:38	03/15/22 13:02	1
Phenanthrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Pyrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	174	S1+	54 - 146				03/11/22 18:38	03/15/22 13:02	1
Nitrobenzene-d5	145		46 - 151				03/11/22 18:38	03/15/22 13:02	1
p-Terphenyl-d14	67		51 - 139				03/11/22 18:38	03/15/22 13:02	1

Client Sample ID: MW-6

Date Collected: 03/08/22 12:38

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
2-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Acenaphthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Acenaphthylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Benzo[a]anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Benzo[a]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Benzo[b]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Benzo[g,h,i]perylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Benzo[k]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Client Sample ID: MW-6

Lab Sample ID: 820-3628-4

Date Collected: 03/08/22 12:38

Matrix: Water

Date Received: 03/10/22 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Dibenz(a,h)anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Dibenzofuran	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Fluorene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Indeno[1,2,3-cd]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Naphthalene	<0.00362	U	0.00362		mg/L		03/11/22 18:38	03/15/22 13:22	1
Phenanthrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	158	S1+	54 - 146				03/11/22 18:38	03/15/22 13:22	1
Nitrobenzene-d5	132		46 - 151				03/11/22 18:38	03/15/22 13:22	1
p-Terphenyl-d14	81		51 - 139				03/11/22 18:38	03/15/22 13:22	1

Client Sample ID: MW-7

Lab Sample ID: 820-3628-5

Date Collected: 03/08/22 15:01

Matrix: Water

Date Received: 03/10/22 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
2-Methylnaphthalene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Acenaphthene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Acenaphthylene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Anthracene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Benzo[a]anthracene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Benzo[a]pyrene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Benzo[b]fluoranthene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Benzo[g,h,i]perylene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Benzo[k]fluoranthene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Chrysene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Dibenz(a,h)anthracene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Dibenzofuran	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Fluoranthene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Fluorene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Indeno[1,2,3-cd]pyrene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Naphthalene	<0.00385	U	0.00385		mg/L		03/11/22 18:38	03/15/22 13:41	1
Phenanthrene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Pyrene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	149	S1+	54 - 146				03/11/22 18:38	03/15/22 13:41	1
Nitrobenzene-d5	130		46 - 151				03/11/22 18:38	03/15/22 13:41	1
p-Terphenyl-d14	96		51 - 139				03/11/22 18:38	03/15/22 13:41	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Client Sample ID: MW-8

Lab Sample ID: 820-3628-6

Date Collected: 03/09/22 12:42

Matrix: Water

Date Received: 03/10/22 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
2-Methylnaphthalene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Acenaphthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Acenaphthylene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Anthracene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Benzo[a]anthracene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Benzo[a]pyrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Benzo[b]fluoranthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Benzo[g,h,i]perylene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Benzo[k]fluoranthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Chrysene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Dibenz(a,h)anthracene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Dibenzofuran	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Fluoranthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Fluorene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Indeno[1,2,3-cd]pyrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Naphthalene	<0.00360	U	0.00360		mg/L		03/11/22 18:38	03/15/22 14:00	1
Phenanthrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Pyrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	161	S1+	54 - 146	03/11/22 18:38	03/15/22 14:00	1
Nitrobenzene-d5	137		46 - 151	03/11/22 18:38	03/15/22 14:00	1
p-Terphenyl-d14	71		51 - 139	03/11/22 18:38	03/15/22 14:00	1

Client Sample ID: MW-9

Lab Sample ID: 820-3628-7

Date Collected: 03/08/22 14:08

Matrix: Water

Date Received: 03/10/22 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
2-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Acenaphthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Acenaphthylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Benzo[a]anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Benzo[a]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Benzo[b]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Benzo[g,h,i]perylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Benzo[k]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Chrysene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Dibenz(a,h)anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Dibenzofuran	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Fluorene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Indeno[1,2,3-cd]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Naphthalene	<0.00362	U	0.00362		mg/L		03/11/22 18:38	03/15/22 14:19	1
Phenanthrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Client Sample ID: MW-9 Lab Sample ID: 820-3628-7
Date Collected: 03/08/22 14:08 Matrix: Water
Date Received: 03/10/22 09:42

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	175	S1+	54 - 146	03/11/22 18:38	03/15/22 14:19	1
Nitrobenzene-d5	146		46 - 151	03/11/22 18:38	03/15/22 14:19	1
p-Terphenyl-d14	102		51 - 139	03/11/22 18:38	03/15/22 14:19	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (54-146)	NBZ (46-151)	TPHd14 (51-139)
820-3628-1	MW-3	151 S1+	125	85
820-3628-2	MW-4	134	115	61
820-3628-3	MW-5	174 S1+	145	67
820-3628-4	MW-6	158 S1+	132	81
820-3628-5	MW-7	149 S1+	130	96
820-3628-6	MW-8	161 S1+	137	71
820-3628-7	MW-9	175 S1+	146	102
860-22287-N-5-A MS	Matrix Spike	152 S1+	138	128
860-22287-O-5-B MSD	Matrix Spike Duplicate	140	129	106
LCS 860-44739/2-A	Lab Control Sample	128	127	133
LCSD 860-44739/3-A	Lab Control Sample Dup	137	131	140 S1+
MB 860-44739/1-A	Method Blank	144	120	126

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPHd14 = p-Terphenyl-d14

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

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

Lab Sample ID: MB 860-44739/1-A

Matrix: Water

Analysis Batch: 44919

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
2-Methylnaphthalene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Acenaphthene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Acenaphthylene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Anthracene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Benzo[a]anthracene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Benzo[a]pyrene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Benzo[b]fluoranthene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Benzo[g,h,i]perylene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Benzo[k]fluoranthene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Chrysene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Dibenz(a,h)anthracene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Dibenzofuran	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Fluoranthene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Fluorene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Indeno[1,2,3-cd]pyrene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Naphthalene	<0.00365	U	0.00365		mg/L		03/11/22 18:38	03/14/22 19:18	1
Phenanthrene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Pyrene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	144		54 - 146	03/11/22 18:38	03/14/22 19:18	1
Nitrobenzene-d5	120		46 - 151	03/11/22 18:38	03/14/22 19:18	1
p-Terphenyl-d14	126		51 - 139	03/11/22 18:38	03/14/22 19:18	1

Lab Sample ID: LCS 860-44739/2-A

Matrix: Water

Analysis Batch: 44919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	0.0182	0.02477		mg/L		136	64 - 167
2-Methylnaphthalene	0.0182	0.02580		mg/L		142	63 - 166
Acenaphthene	0.0182	0.02460		mg/L		135	66 - 174
Acenaphthylene	0.0182	0.02540		mg/L		140	67 - 182
Anthracene	0.0182	0.02525		mg/L		139	55 - 191
Benzo[a]anthracene	0.0182	0.02279		mg/L		125	16 - 171
Benzo[a]pyrene	0.0182	0.02301		mg/L		127	10 - 165
Benzo[b]fluoranthene	0.0182	0.02406		mg/L		132	10 - 166
Benzo[g,h,i]perylene	0.0182	0.02246		mg/L		124	10 - 154
Benzo[k]fluoranthene	0.0182	0.02299		mg/L		126	10 - 178
Chrysene	0.0182	0.02324		mg/L		128	10 - 172
Dibenz(a,h)anthracene	0.0182	0.02332		mg/L		128	10 - 168
Dibenzofuran	0.0182	0.02543		mg/L		140	68 - 178
Fluoranthene	0.0182	0.02526		mg/L		139	52 - 185
Fluorene	0.0182	0.02512		mg/L		138	64 - 184
Indeno[1,2,3-cd]pyrene	0.0182	0.02380		mg/L		131	10 - 160
Naphthalene	0.0182	0.02436		mg/L		134	66 - 166
Phenanthrene	0.0182	0.02478		mg/L		136	66 - 184

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

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

Lab Sample ID: LCS 860-44739/2-A

Matrix: Water

Analysis Batch: 44919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyrene	0.0182	0.02456		mg/L		135	58 - 181

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	128		54 - 146
Nitrobenzene-d5	127		46 - 151
p-Terphenyl-d14	133		51 - 139

Lab Sample ID: LCSD 860-44739/3-A

Matrix: Water

Analysis Batch: 44919

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44739

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	0.0182	0.02515		mg/L		138	64 - 167	2	40
2-Methylnaphthalene	0.0182	0.02616		mg/L		144	63 - 166	1	40
Acenaphthene	0.0182	0.02529		mg/L		139	66 - 174	3	40
Acenaphthylene	0.0182	0.02600		mg/L		143	67 - 182	2	40
Anthracene	0.0182	0.02591		mg/L		142	55 - 191	3	40
Benzo[a]anthracene	0.0182	0.02351		mg/L		129	16 - 171	3	50
Benzo[a]pyrene	0.0182	0.02417		mg/L		133	10 - 165	5	50
Benzo[b]fluoranthene	0.0182	0.02540		mg/L		139	10 - 166	5	50
Benzo[g,h,i]perylene	0.0182	0.02424		mg/L		133	10 - 154	8	50
Benzo[k]fluoranthene	0.0182	0.02395		mg/L		131	10 - 178	4	50
Chrysene	0.0182	0.02423		mg/L		133	10 - 172	4	50
Dibenz(a,h)anthracene	0.0182	0.02511		mg/L		138	10 - 168	7	50
Dibenzofuran	0.0182	0.02589		mg/L		142	68 - 178	2	40
Fluoranthene	0.0182	0.02572		mg/L		141	52 - 185	2	40
Fluorene	0.0182	0.02572		mg/L		141	64 - 184	2	40
Indeno[1,2,3-cd]pyrene	0.0182	0.02559		mg/L		140	10 - 160	7	50
Naphthalene	0.0182	0.02485		mg/L		136	66 - 166	2	40
Phenanthrene	0.0182	0.02545		mg/L		140	66 - 184	3	40
Pyrene	0.0182	0.02521		mg/L		138	58 - 181	3	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	137		54 - 146
Nitrobenzene-d5	131		46 - 151
p-Terphenyl-d14	140	S1+	51 - 139

Lab Sample ID: 860-22287-N-5-A MS

Matrix: Water

Analysis Batch: 44919

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44739

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	<0.000183	U	0.0182	0.02508		mg/L		137	70 - 146
2-Methylnaphthalene	<0.000183	U F1	0.0182	0.02592	F1	mg/L		142	74 - 141
Acenaphthene	<0.000183	U	0.0182	0.02582		mg/L		141	75 - 147
Acenaphthylene	<0.000183	U	0.0182	0.02630		mg/L		144	78 - 153
Anthracene	<0.000183	U	0.0182	0.02618		mg/L		143	73 - 155
Benzo[a]anthracene	<0.000183	U	0.0182	0.02423		mg/L		133	77 - 151

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

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

Lab Sample ID: 860-22287-N-5-A MS

Matrix: Water

Analysis Batch: 44919

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44739

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	<0.000183	U	0.0182	0.02570		mg/L		141	56 - 163
Benzo[b]fluoranthene	<0.000183	U F1	0.0182	0.02765	F1	mg/L		152	74 - 148
Benzo[g,h,i]perylene	<0.000183	U	0.0182	0.02602		mg/L		143	77 - 147
Benzo[k]fluoranthene	<0.000183	U	0.0182	0.02551		mg/L		140	67 - 152
Chrysene	<0.000183	U	0.0182	0.02516		mg/L		138	66 - 156
Dibenz(a,h)anthracene	<0.000183	U	0.0182	0.02705		mg/L		148	71 - 152
Dibenzofuran	<0.000183	U	0.0182	0.02668		mg/L		146	70 - 168
Fluoranthene	<0.000183	U	0.0182	0.02600		mg/L		142	78 - 158
Fluorene	<0.000183	U	0.0182	0.02637		mg/L		145	79 - 158
Indeno[1,2,3-cd]pyrene	<0.000183	U	0.0182	0.02758		mg/L		151	76 - 160
Naphthalene	<0.00365	U	0.0182	0.02425		mg/L		133	72 - 142
Phenanthrene	<0.000183	U F1	0.0182	0.02597	F1	mg/L		142	76 - 139
Pyrene	<0.000183	U	0.0182	0.02555		mg/L		140	74 - 158

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2-Fluorobiphenyl	152	S1+	54 - 146
Nitrobenzene-d5	138		46 - 151
p-Terphenyl-d14	128		51 - 139

Lab Sample ID: 860-22287-O-5-B MSD

Matrix: Water

Analysis Batch: 44919

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 44739

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.000183	U	0.0182	0.02403		mg/L		132	70 - 146	4	30
2-Methylnaphthalene	<0.000183	U F1	0.0182	0.02494		mg/L		137	74 - 141	4	30
Acenaphthene	<0.000183	U	0.0182	0.02438		mg/L		134	75 - 147	6	30
Acenaphthylene	<0.000183	U	0.0182	0.02509		mg/L		138	78 - 153	5	30
Anthracene	<0.000183	U	0.0182	0.02489		mg/L		137	73 - 155	5	30
Benzo[a]anthracene	<0.000183	U	0.0182	0.02129		mg/L		117	77 - 151	13	30
Benzo[a]pyrene	<0.000183	U	0.0182	0.02174		mg/L		119	56 - 163	17	30
Benzo[b]fluoranthene	<0.000183	U F1	0.0182	0.02397		mg/L		132	74 - 148	14	30
Benzo[g,h,i]perylene	<0.000183	U	0.0182	0.02175		mg/L		119	77 - 147	18	30
Benzo[k]fluoranthene	<0.000183	U	0.0182	0.02152		mg/L		118	67 - 152	17	30
Chrysene	<0.000183	U	0.0182	0.02134		mg/L		117	66 - 156	16	30
Dibenz(a,h)anthracene	<0.000183	U	0.0182	0.02260		mg/L		124	71 - 152	18	30
Dibenzofuran	<0.000183	U	0.0182	0.02516		mg/L		138	70 - 168	6	30
Fluoranthene	<0.000183	U	0.0182	0.02431		mg/L		133	78 - 158	7	30
Fluorene	<0.000183	U	0.0182	0.02499		mg/L		137	79 - 158	5	30
Indeno[1,2,3-cd]pyrene	<0.000183	U	0.0182	0.02303		mg/L		126	76 - 160	18	30
Naphthalene	<0.00365	U	0.0182	0.02382		mg/L		131	72 - 142	2	30
Phenanthrene	<0.000183	U F1	0.0182	0.02458		mg/L		135	76 - 139	6	30
Pyrene	<0.000183	U	0.0182	0.02352		mg/L		129	74 - 158	8	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl	140		54 - 146
Nitrobenzene-d5	129		46 - 151
p-Terphenyl-d14	106		51 - 139

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

GC/MS Semi VOA

Prep Batch: 44739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3628-1	MW-3	Total/NA	Water	3511	
820-3628-2	MW-4	Total/NA	Water	3511	
820-3628-3	MW-5	Total/NA	Water	3511	
820-3628-4	MW-6	Total/NA	Water	3511	
820-3628-5	MW-7	Total/NA	Water	3511	
820-3628-6	MW-8	Total/NA	Water	3511	
820-3628-7	MW-9	Total/NA	Water	3511	
MB 860-44739/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-44739/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-44739/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
860-22287-N-5-A MS	Matrix Spike	Total/NA	Water	3511	
860-22287-O-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	3511	

Analysis Batch: 44919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-44739/1-A	Method Blank	Total/NA	Water	8270D SIM	44739
LCS 860-44739/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	44739
LCSD 860-44739/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	44739
860-22287-N-5-A MS	Matrix Spike	Total/NA	Water	8270D SIM	44739
860-22287-O-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270D SIM	44739

Analysis Batch: 44947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3628-1	MW-3	Total/NA	Water	8270D SIM	44739
820-3628-2	MW-4	Total/NA	Water	8270D SIM	44739
820-3628-3	MW-5	Total/NA	Water	8270D SIM	44739
820-3628-4	MW-6	Total/NA	Water	8270D SIM	44739
820-3628-5	MW-7	Total/NA	Water	8270D SIM	44739
820-3628-6	MW-8	Total/NA	Water	8270D SIM	44739
820-3628-7	MW-9	Total/NA	Water	8270D SIM	44739

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
 SDG: AR227010

Client Sample ID: MW-3

Date Collected: 03/09/22 13:35

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.3 mL	2 mL	44739	03/11/22 18:38	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44947	03/15/22 12:24	IS	XEN STF

Client Sample ID: MW-4

Date Collected: 03/09/22 14:22

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.4 mL	2 mL	44739	03/11/22 18:38	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44947	03/15/22 12:43	IS	XEN STF

Client Sample ID: MW-5

Date Collected: 03/08/22 13:19

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.6 mL	2 mL	44739	03/11/22 18:38	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44947	03/15/22 13:02	IS	XEN STF

Client Sample ID: MW-6

Date Collected: 03/08/22 12:38

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.3 mL	2 mL	44739	03/11/22 18:38	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44947	03/15/22 13:22	IS	XEN STF

Client Sample ID: MW-7

Date Collected: 03/08/22 15:01

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			52 mL	2 mL	44739	03/11/22 18:38	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44947	03/15/22 13:41	IS	XEN STF

Client Sample ID: MW-8

Date Collected: 03/09/22 12:42

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.6 mL	2 mL	44739	03/11/22 18:38	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44947	03/15/22 14:00	IS	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Client Sample ID: MW-9
Date Collected: 03/08/22 14:08
Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.3 mL	2 mL	44739	03/11/22 18:38	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44947	03/15/22 14:19	IS	XEN STF

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

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8270D SIM	3511	Water	1-Methylnaphthalene
8270D SIM	3511	Water	2-Methylnaphthalene
8270D SIM	3511	Water	Dibenzofuran

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Method	Method Description	Protocol	Laboratory
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	XEN STF
3511	Microextraction of Organic Compounds	SW846	XEN STF

Protocol References:

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

Laboratory References:

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

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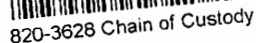
Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-3628-1	MW-3	Water	03/09/22 13:35	03/10/22 09:42
820-3628-2	MW-4	Water	03/09/22 14:22	03/10/22 09:42
820-3628-3	MW-5	Water	03/08/22 13:19	03/10/22 09:42
820-3628-4	MW-6	Water	03/08/22 12:38	03/10/22 09:42
820-3628-5	MW-7	Water	03/08/22 15:01	03/10/22 09:42
820-3628-6	MW-8	Water	03/09/22 12:42	03/10/22 09:42
820-3628-7	MW-9	Water	03/08/22 14:08	03/10/22 09:42

3628



820-3628 Chain of Custody

Age Group	Number of People
1	1
2	2
3	3
4	4
5	5
6	6
8	8
9	9
10	10
12	12
13	13
14	14

**Environment Testing
America**

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3628-1

SDG Number: AR227010

Login Number: 3628

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Lubbock

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.	N/A	
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	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3628-1

SDG Number: AR227010

Login Number: 3628**List Number: 2****Creator: Milone, Jeancarlo****List Source: Eurofins Houston****List Creation: 03/11/22 12:40 PM**

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 <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock, TX 79424
Tel: (806)794-1296

Laboratory Job ID: 820-3628-1

Laboratory Sample Delivery Group: AR227010

Client Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

For:

Terracon Consulting Eng & Scientists
1211 West Florida Avenue
Midland, Texas 79701

Attn: Brett Dennis

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
3/16/2022 7:13:23 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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

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

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Laboratory Job ID: 820-3628-1
SDG: AR227010

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
 Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
 SDG: AR227010

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
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
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Job ID: 820-3628-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-3628-1

Receipt

The samples were received on 3/10/2022 9:42 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 0.1°C

GC/MS Semi VOA

Method 8270D_SIM: The surrogate recovery for the laboratory Control Sample Duplicate (LCSD) associated with preparation batch 860-44739 and analytical batch 860-44919 was outside the upper control limits. Spiked analytes were recovered within control limits, therefore data was accepted.

Method 8270D_SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-44739 and analytical batch 860-44919 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D_SIM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (860-22287-N-5-A MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8270D_SIM: Surrogate recovery for the following samples were outside the upper control limit: MW-3 (820-3628-1), MW-5 (820-3628-3), MW-6 (820-3628-4), MW-7 (820-3628-5), MW-8 (820-3628-6) and MW-9 (820-3628-7). 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.

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Client Sample ID: MW-3

Lab Sample ID: 820-3628-1

Date Collected: 03/09/22 13:35

Matrix: Water

Date Received: 03/10/22 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
2-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Acenaphthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Acenaphthylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Benzo[a]anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Benzo[a]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Benzo[b]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Benzo[g,h,i]perylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Benzo[k]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Chrysene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Dibenz(a,h)anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Dibenzofuran	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Fluorene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Indeno[1,2,3-cd]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Naphthalene	<0.00362	U	0.00362		mg/L		03/11/22 18:38	03/15/22 12:24	1
Phenanthrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1
Pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	151	S1+	54 - 146	03/11/22 18:38	03/15/22 12:24	1
Nitrobenzene-d5	125		46 - 151	03/11/22 18:38	03/15/22 12:24	1
p-Terphenyl-d14	85		51 - 139	03/11/22 18:38	03/15/22 12:24	1

Client Sample ID: MW-4

Lab Sample ID: 820-3628-2

Date Collected: 03/09/22 14:22

Matrix: Water

Date Received: 03/10/22 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
2-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Acenaphthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Acenaphthylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Benzo[a]anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Benzo[a]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Benzo[b]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Benzo[g,h,i]perylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Benzo[k]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Chrysene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Dibenz(a,h)anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Dibenzofuran	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Fluorene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Indeno[1,2,3-cd]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Naphthalene	<0.00361	U	0.00361		mg/L		03/11/22 18:38	03/15/22 12:43	1
Phenanthrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1
Pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 12:43	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Client Sample ID: MW-4

Date Collected: 03/09/22 14:22

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	134		54 - 146	03/11/22 18:38	03/15/22 12:43	1
Nitrobenzene-d5	115		46 - 151	03/11/22 18:38	03/15/22 12:43	1
p-Terphenyl-d14	61		51 - 139	03/11/22 18:38	03/15/22 12:43	1

Client Sample ID: MW-5

Date Collected: 03/08/22 13:19

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
2-Methylnaphthalene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Acenaphthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Acenaphthylene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Anthracene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Benzo[a]anthracene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Benzo[a]pyrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Benzo[b]fluoranthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Benzo[g,h,i]perylene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Benzo[k]fluoranthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Chrysene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Dibenz(a,h)anthracene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Dibenzofuran	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Fluoranthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Fluorene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Indeno[1,2,3-cd]pyrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Naphthalene	<0.00360	U	0.00360		mg/L		03/11/22 18:38	03/15/22 13:02	1
Phenanthrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Pyrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	174	S1+	54 - 146				03/11/22 18:38	03/15/22 13:02	1
Nitrobenzene-d5	145		46 - 151				03/11/22 18:38	03/15/22 13:02	1
p-Terphenyl-d14	67		51 - 139				03/11/22 18:38	03/15/22 13:02	1

Client Sample ID: MW-6

Date Collected: 03/08/22 12:38

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
2-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Acenaphthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Acenaphthylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Benzo[a]anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Benzo[a]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Benzo[b]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Benzo[g,h,i]perylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Benzo[k]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Client Sample ID: MW-6

Lab Sample ID: 820-3628-4

Date Collected: 03/08/22 12:38

Matrix: Water

Date Received: 03/10/22 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Dibenz(a,h)anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Dibenzofuran	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Fluorene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Indeno[1,2,3-cd]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Naphthalene	<0.00362	U	0.00362		mg/L		03/11/22 18:38	03/15/22 13:22	1
Phenanthrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	158	S1+	54 - 146				03/11/22 18:38	03/15/22 13:22	1
Nitrobenzene-d5	132		46 - 151				03/11/22 18:38	03/15/22 13:22	1
p-Terphenyl-d14	81		51 - 139				03/11/22 18:38	03/15/22 13:22	1

Client Sample ID: MW-7

Lab Sample ID: 820-3628-5

Date Collected: 03/08/22 15:01

Matrix: Water

Date Received: 03/10/22 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
2-Methylnaphthalene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Acenaphthene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Acenaphthylene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Anthracene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Benzo[a]anthracene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Benzo[a]pyrene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Benzo[b]fluoranthene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Benzo[g,h,i]perylene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Benzo[k]fluoranthene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Chrysene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Dibenz(a,h)anthracene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Dibenzofuran	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Fluoranthene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Fluorene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Indeno[1,2,3-cd]pyrene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Naphthalene	<0.00385	U	0.00385		mg/L		03/11/22 18:38	03/15/22 13:41	1
Phenanthrene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Pyrene	<0.000193	U	0.000193		mg/L		03/11/22 18:38	03/15/22 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	149	S1+	54 - 146				03/11/22 18:38	03/15/22 13:41	1
Nitrobenzene-d5	130		46 - 151				03/11/22 18:38	03/15/22 13:41	1
p-Terphenyl-d14	96		51 - 139				03/11/22 18:38	03/15/22 13:41	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Client Sample ID: MW-8

Lab Sample ID: 820-3628-6

Date Collected: 03/09/22 12:42

Matrix: Water

Date Received: 03/10/22 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
2-Methylnaphthalene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Acenaphthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Acenaphthylene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Anthracene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Benzo[a]anthracene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Benzo[a]pyrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Benzo[b]fluoranthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Benzo[g,h,i]perylene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Benzo[k]fluoranthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Chrysene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Dibenz(a,h)anthracene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Dibenzofuran	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Fluoranthene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Fluorene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Indeno[1,2,3-cd]pyrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Naphthalene	<0.00360	U	0.00360		mg/L		03/11/22 18:38	03/15/22 14:00	1
Phenanthrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1
Pyrene	<0.000180	U	0.000180		mg/L		03/11/22 18:38	03/15/22 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	161	S1+	54 - 146	03/11/22 18:38	03/15/22 14:00	1
Nitrobenzene-d5	137		46 - 151	03/11/22 18:38	03/15/22 14:00	1
p-Terphenyl-d14	71		51 - 139	03/11/22 18:38	03/15/22 14:00	1

Client Sample ID: MW-9

Lab Sample ID: 820-3628-7

Date Collected: 03/08/22 14:08

Matrix: Water

Date Received: 03/10/22 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
2-Methylnaphthalene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Acenaphthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Acenaphthylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Benzo[a]anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Benzo[a]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Benzo[b]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Benzo[g,h,i]perylene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Benzo[k]fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Chrysene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Dibenz(a,h)anthracene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Dibenzofuran	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Fluoranthene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Fluorene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Indeno[1,2,3-cd]pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Naphthalene	<0.00362	U	0.00362		mg/L		03/11/22 18:38	03/15/22 14:19	1
Phenanthrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1
Pyrene	<0.000181	U	0.000181		mg/L		03/11/22 18:38	03/15/22 14:19	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Client Sample ID: MW-9 Lab Sample ID: 820-3628-7
Date Collected: 03/08/22 14:08 Matrix: Water
Date Received: 03/10/22 09:42

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	175	S1+	54 - 146	03/11/22 18:38	03/15/22 14:19	1
Nitrobenzene-d5	146		46 - 151	03/11/22 18:38	03/15/22 14:19	1
p-Terphenyl-d14	102		51 - 139	03/11/22 18:38	03/15/22 14:19	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (54-146)	NBZ (46-151)	TPHd14 (51-139)
820-3628-1	MW-3	151 S1+	125	85
820-3628-2	MW-4	134	115	61
820-3628-3	MW-5	174 S1+	145	67
820-3628-4	MW-6	158 S1+	132	81
820-3628-5	MW-7	149 S1+	130	96
820-3628-6	MW-8	161 S1+	137	71
820-3628-7	MW-9	175 S1+	146	102
860-22287-N-5-A MS	Matrix Spike	152 S1+	138	128
860-22287-O-5-B MSD	Matrix Spike Duplicate	140	129	106
LCS 860-44739/2-A	Lab Control Sample	128	127	133
LCSD 860-44739/3-A	Lab Control Sample Dup	137	131	140 S1+
MB 860-44739/1-A	Method Blank	144	120	126

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPHd14 = p-Terphenyl-d14

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

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

Lab Sample ID: MB 860-44739/1-A

Matrix: Water

Analysis Batch: 44919

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
2-Methylnaphthalene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Acenaphthene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Acenaphthylene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Anthracene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Benzo[a]anthracene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Benzo[a]pyrene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Benzo[b]fluoranthene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Benzo[g,h,i]perylene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Benzo[k]fluoranthene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Chrysene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Dibenz(a,h)anthracene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Dibenzofuran	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Fluoranthene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Fluorene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Indeno[1,2,3-cd]pyrene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Naphthalene	<0.00365	U	0.00365		mg/L		03/11/22 18:38	03/14/22 19:18	1
Phenanthrene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1
Pyrene	<0.000182	U	0.000182		mg/L		03/11/22 18:38	03/14/22 19:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	144		54 - 146	03/11/22 18:38	03/14/22 19:18	1
Nitrobenzene-d5	120		46 - 151	03/11/22 18:38	03/14/22 19:18	1
p-Terphenyl-d14	126		51 - 139	03/11/22 18:38	03/14/22 19:18	1

Lab Sample ID: LCS 860-44739/2-A

Matrix: Water

Analysis Batch: 44919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	0.0182	0.02477		mg/L		136	64 - 167
2-Methylnaphthalene	0.0182	0.02580		mg/L		142	63 - 166
Acenaphthene	0.0182	0.02460		mg/L		135	66 - 174
Acenaphthylene	0.0182	0.02540		mg/L		140	67 - 182
Anthracene	0.0182	0.02525		mg/L		139	55 - 191
Benzo[a]anthracene	0.0182	0.02279		mg/L		125	16 - 171
Benzo[a]pyrene	0.0182	0.02301		mg/L		127	10 - 165
Benzo[b]fluoranthene	0.0182	0.02406		mg/L		132	10 - 166
Benzo[g,h,i]perylene	0.0182	0.02246		mg/L		124	10 - 154
Benzo[k]fluoranthene	0.0182	0.02299		mg/L		126	10 - 178
Chrysene	0.0182	0.02324		mg/L		128	10 - 172
Dibenz(a,h)anthracene	0.0182	0.02332		mg/L		128	10 - 168
Dibenzofuran	0.0182	0.02543		mg/L		140	68 - 178
Fluoranthene	0.0182	0.02526		mg/L		139	52 - 185
Fluorene	0.0182	0.02512		mg/L		138	64 - 184
Indeno[1,2,3-cd]pyrene	0.0182	0.02380		mg/L		131	10 - 160
Naphthalene	0.0182	0.02436		mg/L		134	66 - 166
Phenanthrene	0.0182	0.02478		mg/L		136	66 - 184

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

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

Lab Sample ID: LCS 860-44739/2-A

Matrix: Water

Analysis Batch: 44919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyrene	0.0182	0.02456		mg/L		135	58 - 181

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	128		54 - 146
Nitrobenzene-d5	127		46 - 151
p-Terphenyl-d14	133		51 - 139

Lab Sample ID: LCSD 860-44739/3-A

Matrix: Water

Analysis Batch: 44919

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44739

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	0.0182	0.02515		mg/L		138	64 - 167	2	40
2-Methylnaphthalene	0.0182	0.02616		mg/L		144	63 - 166	1	40
Acenaphthene	0.0182	0.02529		mg/L		139	66 - 174	3	40
Acenaphthylene	0.0182	0.02600		mg/L		143	67 - 182	2	40
Anthracene	0.0182	0.02591		mg/L		142	55 - 191	3	40
Benzo[a]anthracene	0.0182	0.02351		mg/L		129	16 - 171	3	50
Benzo[a]pyrene	0.0182	0.02417		mg/L		133	10 - 165	5	50
Benzo[b]fluoranthene	0.0182	0.02540		mg/L		139	10 - 166	5	50
Benzo[g,h,i]perylene	0.0182	0.02424		mg/L		133	10 - 154	8	50
Benzo[k]fluoranthene	0.0182	0.02395		mg/L		131	10 - 178	4	50
Chrysene	0.0182	0.02423		mg/L		133	10 - 172	4	50
Dibenz(a,h)anthracene	0.0182	0.02511		mg/L		138	10 - 168	7	50
Dibenzofuran	0.0182	0.02589		mg/L		142	68 - 178	2	40
Fluoranthene	0.0182	0.02572		mg/L		141	52 - 185	2	40
Fluorene	0.0182	0.02572		mg/L		141	64 - 184	2	40
Indeno[1,2,3-cd]pyrene	0.0182	0.02559		mg/L		140	10 - 160	7	50
Naphthalene	0.0182	0.02485		mg/L		136	66 - 166	2	40
Phenanthrene	0.0182	0.02545		mg/L		140	66 - 184	3	40
Pyrene	0.0182	0.02521		mg/L		138	58 - 181	3	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	137		54 - 146
Nitrobenzene-d5	131		46 - 151
p-Terphenyl-d14	140	S1+	51 - 139

Lab Sample ID: 860-22287-N-5-A MS

Matrix: Water

Analysis Batch: 44919

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44739

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	<0.000183	U	0.0182	0.02508		mg/L		137	70 - 146
2-Methylnaphthalene	<0.000183	U F1	0.0182	0.02592	F1	mg/L		142	74 - 141
Acenaphthene	<0.000183	U	0.0182	0.02582		mg/L		141	75 - 147
Acenaphthylene	<0.000183	U	0.0182	0.02630		mg/L		144	78 - 153
Anthracene	<0.000183	U	0.0182	0.02618		mg/L		143	73 - 155
Benzo[a]anthracene	<0.000183	U	0.0182	0.02423		mg/L		133	77 - 151

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

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

Lab Sample ID: 860-22287-N-5-A MS

Matrix: Water

Analysis Batch: 44919

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44739

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	<0.000183	U	0.0182	0.02570		mg/L		141	56 - 163
Benzo[b]fluoranthene	<0.000183	U F1	0.0182	0.02765	F1	mg/L		152	74 - 148
Benzo[g,h,i]perylene	<0.000183	U	0.0182	0.02602		mg/L		143	77 - 147
Benzo[k]fluoranthene	<0.000183	U	0.0182	0.02551		mg/L		140	67 - 152
Chrysene	<0.000183	U	0.0182	0.02516		mg/L		138	66 - 156
Dibenz(a,h)anthracene	<0.000183	U	0.0182	0.02705		mg/L		148	71 - 152
Dibenzofuran	<0.000183	U	0.0182	0.02668		mg/L		146	70 - 168
Fluoranthene	<0.000183	U	0.0182	0.02600		mg/L		142	78 - 158
Fluorene	<0.000183	U	0.0182	0.02637		mg/L		145	79 - 158
Indeno[1,2,3-cd]pyrene	<0.000183	U	0.0182	0.02758		mg/L		151	76 - 160
Naphthalene	<0.00365	U	0.0182	0.02425		mg/L		133	72 - 142
Phenanthrene	<0.000183	U F1	0.0182	0.02597	F1	mg/L		142	76 - 139
Pyrene	<0.000183	U	0.0182	0.02555		mg/L		140	74 - 158

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2-Fluorobiphenyl	152	S1+	54 - 146
Nitrobenzene-d5	138		46 - 151
p-Terphenyl-d14	128		51 - 139

Lab Sample ID: 860-22287-O-5-B MSD

Matrix: Water

Analysis Batch: 44919

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 44739

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.000183	U	0.0182	0.02403		mg/L		132	70 - 146	4	30
2-Methylnaphthalene	<0.000183	U F1	0.0182	0.02494		mg/L		137	74 - 141	4	30
Acenaphthene	<0.000183	U	0.0182	0.02438		mg/L		134	75 - 147	6	30
Acenaphthylene	<0.000183	U	0.0182	0.02509		mg/L		138	78 - 153	5	30
Anthracene	<0.000183	U	0.0182	0.02489		mg/L		137	73 - 155	5	30
Benzo[a]anthracene	<0.000183	U	0.0182	0.02129		mg/L		117	77 - 151	13	30
Benzo[a]pyrene	<0.000183	U	0.0182	0.02174		mg/L		119	56 - 163	17	30
Benzo[b]fluoranthene	<0.000183	U F1	0.0182	0.02397		mg/L		132	74 - 148	14	30
Benzo[g,h,i]perylene	<0.000183	U	0.0182	0.02175		mg/L		119	77 - 147	18	30
Benzo[k]fluoranthene	<0.000183	U	0.0182	0.02152		mg/L		118	67 - 152	17	30
Chrysene	<0.000183	U	0.0182	0.02134		mg/L		117	66 - 156	16	30
Dibenz(a,h)anthracene	<0.000183	U	0.0182	0.02260		mg/L		124	71 - 152	18	30
Dibenzofuran	<0.000183	U	0.0182	0.02516		mg/L		138	70 - 168	6	30
Fluoranthene	<0.000183	U	0.0182	0.02431		mg/L		133	78 - 158	7	30
Fluorene	<0.000183	U	0.0182	0.02499		mg/L		137	79 - 158	5	30
Indeno[1,2,3-cd]pyrene	<0.000183	U	0.0182	0.02303		mg/L		126	76 - 160	18	30
Naphthalene	<0.00365	U	0.0182	0.02382		mg/L		131	72 - 142	2	30
Phenanthrene	<0.000183	U F1	0.0182	0.02458		mg/L		135	76 - 139	6	30
Pyrene	<0.000183	U	0.0182	0.02352		mg/L		129	74 - 158	8	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl	140		54 - 146
Nitrobenzene-d5	129		46 - 151
p-Terphenyl-d14	106		51 - 139

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

GC/MS Semi VOA

Prep Batch: 44739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3628-1	MW-3	Total/NA	Water	3511	
820-3628-2	MW-4	Total/NA	Water	3511	
820-3628-3	MW-5	Total/NA	Water	3511	
820-3628-4	MW-6	Total/NA	Water	3511	
820-3628-5	MW-7	Total/NA	Water	3511	
820-3628-6	MW-8	Total/NA	Water	3511	
820-3628-7	MW-9	Total/NA	Water	3511	
MB 860-44739/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-44739/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-44739/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
860-22287-N-5-A MS	Matrix Spike	Total/NA	Water	3511	
860-22287-O-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	3511	

Analysis Batch: 44919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-44739/1-A	Method Blank	Total/NA	Water	8270D SIM	44739
LCS 860-44739/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	44739
LCSD 860-44739/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	44739
860-22287-N-5-A MS	Matrix Spike	Total/NA	Water	8270D SIM	44739
860-22287-O-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270D SIM	44739

Analysis Batch: 44947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3628-1	MW-3	Total/NA	Water	8270D SIM	44739
820-3628-2	MW-4	Total/NA	Water	8270D SIM	44739
820-3628-3	MW-5	Total/NA	Water	8270D SIM	44739
820-3628-4	MW-6	Total/NA	Water	8270D SIM	44739
820-3628-5	MW-7	Total/NA	Water	8270D SIM	44739
820-3628-6	MW-8	Total/NA	Water	8270D SIM	44739
820-3628-7	MW-9	Total/NA	Water	8270D SIM	44739

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
 SDG: AR227010

Client Sample ID: MW-3

Date Collected: 03/09/22 13:35

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.3 mL	2 mL	44739	03/11/22 18:38	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44947	03/15/22 12:24	IS	XEN STF

Client Sample ID: MW-4

Date Collected: 03/09/22 14:22

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.4 mL	2 mL	44739	03/11/22 18:38	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44947	03/15/22 12:43	IS	XEN STF

Client Sample ID: MW-5

Date Collected: 03/08/22 13:19

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.6 mL	2 mL	44739	03/11/22 18:38	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44947	03/15/22 13:02	IS	XEN STF

Client Sample ID: MW-6

Date Collected: 03/08/22 12:38

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.3 mL	2 mL	44739	03/11/22 18:38	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44947	03/15/22 13:22	IS	XEN STF

Client Sample ID: MW-7

Date Collected: 03/08/22 15:01

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			52 mL	2 mL	44739	03/11/22 18:38	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44947	03/15/22 13:41	IS	XEN STF

Client Sample ID: MW-8

Date Collected: 03/09/22 12:42

Date Received: 03/10/22 09:42

Lab Sample ID: 820-3628-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.6 mL	2 mL	44739	03/11/22 18:38	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44947	03/15/22 14:00	IS	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Client Sample ID: MW-9 Lab Sample ID: 820-3628-7
Date Collected: 03/08/22 14:08 Matrix: Water
Date Received: 03/10/22 09:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.3 mL	2 mL	44739	03/11/22 18:38	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44947	03/15/22 14:19	IS	XEN STF

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

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8270D SIM	3511	Water	1-Methylnaphthalene
8270D SIM	3511	Water	2-Methylnaphthalene
8270D SIM	3511	Water	Dibenzofuran

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Method	Method Description	Protocol	Laboratory
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	XEN STF
3511	Microextraction of Organic Compounds	SW846	XEN STF

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS# 2009-092)

Job ID: 820-3628-1
SDG: AR227010

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-3628-1	MW-3	Water	03/09/22 13:35	03/10/22 09:42
820-3628-2	MW-4	Water	03/09/22 14:22	03/10/22 09:42
820-3628-3	MW-5	Water	03/08/22 13:19	03/10/22 09:42
820-3628-4	MW-6	Water	03/08/22 12:38	03/10/22 09:42
820-3628-5	MW-7	Water	03/08/22 15:01	03/10/22 09:42
820-3628-6	MW-8	Water	03/09/22 12:42	03/10/22 09:42
820-3628-7	MW-9	Water	03/08/22 14:08	03/10/22 09:42

Loc: 820
3628

820-3628 Chain of Custody

Office Location LubbockProject Manager: Brett Dennis

Sampler's Name:

Aaron Adams

Project Number

AR227010

Project Name

14" Vac to Jal Legacy (SRS # 2009-092)

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No. Type of Containers				PAHs (EPA Method 8270C)	LAB USE ONLY DUE DATE:
								60 ml	VOA				
GW	03/09/22	13:35		X	MW-3			2				X	
GW	03/09/22	14:22	TKR	X	MW-4			2				X	
GW	03/08/22	13:19	TKR	X	MW-5			2				X	
GW	03/08/22	12:38	TKR	X	MW-6			2				X	
GW	03/08/22	15:01	TKR	X	MW-7			2				X	
GW	03/09/22	12:42		X	MW-8			2				X	
GW	03/08/22	14:08		X	MW-9			2				X	

TURNAROUND TIME

☒ Normal☐ 48-Hour Rush☐ 24-Hour Rush

TRRP Laboratory Review Checklist

☐ Yes☐ No

Relinquished by (Signature)

Date:

3-9-22

Time:

18:32

Received by (Signature)

Date:

3-9-22

Time:

18:32

Relinquished by (Signature)

Date:

3/10/22

Time:

9:42

Received by (Signature)

Date:

3/10/22

Time:

09:42

Relinquished by (Signature)

Date:

Time:

Received by (Signature)

Date:

Time:

Relinquished by (Signature)

Date:

Time:

Received by (Signature)

Date:

Time:

NOTES:

E-MAIL RESULTS TO:

1. CJBRYANT@PAALP.COM
2. BRETT.DENNIS@TERRACON.COM
3. ERIN.LOYD@TERRACON.COM

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

Lubbock Office ■ 5827 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140

Responsive ■ Resourceful ■ Reliable

3628

CHAIN OF CUSTODY RECORD

Laboratory: Xenco Laboratories
 Address: 6701 Aberdeen Avenue, Suite 9
 Lubbock, TX 79424

Phone: (806) 794-1296

Contact: Brett Dennis

PO/SO #:

Sampler's Signature

ANALYSIS
REQUESTEDLAB USE ONLY
DUE DATE:TEMP OF COOLER
WHEN RECEIVED (°C)Page 1 of 1

Lab Sample ID

**Environment Testing
America**

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3628-1

SDG Number: AR227010

Login Number: 3628

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Lubbock

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.	N/A	
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	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3628-1

SDG Number: AR227010

Login Number: 3628**List Number: 2****Creator: Milone, Jeancarlo****List Source: Eurofins Houston****List Creation: 03/11/22 12:40 PM**

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 <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock, TX 79424
Tel: (806)794-1296

Laboratory Job ID: 820-4742-1

Laboratory Sample Delivery Group: AR227010
Client Project/Site: 14-inch Vac to Jal Legacy

For:

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

Attn: Brett Dennis

A handwritten signature in black ink, appearing to read "Jessica Kramer".

Authorized for release by:

7/7/2022 1:30:51 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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.

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Laboratory Job ID: 820-4742-1
SDG: AR227010

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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
7/7/2022 1:30:51 PM

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Laboratory Job ID: 820-4742-1
SDG: AR227010

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Qualifiers

GC VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
b	The compound was found in the blank and sample
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.

HPLC/IC

Qualifier	Qualifier Description
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.
α	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
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Job ID: 820-4742-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative
820-4742-1

Receipt

The samples were received on 6/23/2022 3:03 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 5.1°C

GC VOA

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

HPLC/IC

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

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Client Sample ID: MW-5

Lab Sample ID: 820-4742-1

Date Collected: 06/21/22 11:05

Matrix: Water

Date Received: 06/23/22 15:03

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000560	J b	0.00200	0.000408	mg/L			06/29/22 17:14	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 17:14	1
Ethylbenzene	<0.000657	U *	0.00200	0.000657	mg/L			06/29/22 17:14	1
m-Xylene & p-Xylene	<0.000629	U *	0.00400	0.000629	mg/L			06/29/22 17:14	1
o-Xylene	<0.000642	U *	0.00200	0.000642	mg/L			06/29/22 17:14	1
Xylenes, Total	<0.000642	U *	0.00400	0.000642	mg/L			06/29/22 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130					06/29/22 17:14	1
1,4-Difluorobenzene (Surr)	117		70 - 130					06/29/22 17:14	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			06/30/22 09:53	1

Client Sample ID: MW-6

Lab Sample ID: 820-4742-2

Date Collected: 06/21/22 11:49

Matrix: Water

Date Received: 06/23/22 15:03

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			06/29/22 17:35	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 17:35	1
Ethylbenzene	<0.000657	U *	0.00200	0.000657	mg/L			06/29/22 17:35	1
m-Xylene & p-Xylene	<0.000629	U *	0.00400	0.000629	mg/L			06/29/22 17:35	1
o-Xylene	<0.000642	U *	0.00200	0.000642	mg/L			06/29/22 17:35	1
Xylenes, Total	<0.000642	U *	0.00400	0.000642	mg/L			06/29/22 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130					06/29/22 17:35	1
1,4-Difluorobenzene (Surr)	117		70 - 130					06/29/22 17:35	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			06/30/22 09:53	1

Client Sample ID: MW-7

Lab Sample ID: 820-4742-3

Date Collected: 06/21/22 12:26

Matrix: Water

Date Received: 06/23/22 15:03

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00142	J b	0.00200	0.000408	mg/L			06/29/22 17:55	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 17:55	1
Ethylbenzene	<0.000657	U *	0.00200	0.000657	mg/L			06/29/22 17:55	1
m-Xylene & p-Xylene	<0.000629	U *	0.00400	0.000629	mg/L			06/29/22 17:55	1
o-Xylene	<0.000642	U *	0.00200	0.000642	mg/L			06/29/22 17:55	1
Xylenes, Total	<0.000642	U *	0.00400	0.000642	mg/L			06/29/22 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130					06/29/22 17:55	1
1,4-Difluorobenzene (Surr)	115		70 - 130					06/29/22 17:55	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Client Sample ID: MW-7

Lab Sample ID: 820-4742-3

Date Collected: 06/21/22 12:26

Matrix: Water

Date Received: 06/23/22 15:03

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00142	J	0.00400	0.000657	mg/L			06/30/22 09:53	1

Client Sample ID: MW-9

Lab Sample ID: 820-4742-4

Date Collected: 06/21/22 12:57

Matrix: Water

Date Received: 06/23/22 15:03

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			06/29/22 18:16	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 18:16	1
Ethylbenzene	<0.000657	U *	0.00200	0.000657	mg/L			06/29/22 18:16	1
m-Xylene & p-Xylene	<0.000629	U *	0.00400	0.000629	mg/L			06/29/22 18:16	1
o-Xylene	<0.000642	U *	0.00200	0.000642	mg/L			06/29/22 18:16	1
Xylenes, Total	<0.000642	U *	0.00400	0.000642	mg/L			06/29/22 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130		06/29/22 18:16	1
1,4-Difluorobenzene (Surr)	116		70 - 130		06/29/22 18:16	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			06/30/22 09:53	1

Client Sample ID: MW-11

Lab Sample ID: 820-4742-5

Date Collected: 06/21/22 13:31

Matrix: Water

Date Received: 06/23/22 15:03

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			06/29/22 18:37	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 18:37	1
Ethylbenzene	<0.000657	U *	0.00200	0.000657	mg/L			06/29/22 18:37	1
m-Xylene & p-Xylene	<0.000629	U *	0.00400	0.000629	mg/L			06/29/22 18:37	1
o-Xylene	<0.000642	U *	0.00200	0.000642	mg/L			06/29/22 18:37	1
Xylenes, Total	<0.000642	U *	0.00400	0.000642	mg/L			06/29/22 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130		06/29/22 18:37	1
1,4-Difluorobenzene (Surr)	117		70 - 130		06/29/22 18:37	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			06/30/22 09:53	1

Client Sample ID: MW-10

Lab Sample ID: 820-4742-6

Date Collected: 06/21/22 14:07

Matrix: Water

Date Received: 06/23/22 15:03

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00183	J b	0.00200	0.000408	mg/L			06/29/22 18:58	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 18:58	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Client Sample ID: MW-10

Lab Sample ID: 820-4742-6

Date Collected: 06/21/22 14:07

Matrix: Water

Date Received: 06/23/22 15:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000657	U *	0.00200	0.000657	mg/L			06/29/22 18:58	1
m-Xylene & p-Xylene	<0.000629	U *	0.00400	0.000629	mg/L			06/29/22 18:58	1
o-Xylene	<0.000642	U *	0.00200	0.000642	mg/L			06/29/22 18:58	1
Xylenes, Total	<0.000642	U *	0.00400	0.000642	mg/L			06/29/22 18:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130					06/29/22 18:58	1
1,4-Difluorobenzene (Surr)	118		70 - 130					06/29/22 18:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00183	J	0.00400	0.000657	mg/L			06/30/22 09:53	1

Client Sample ID: MW-12

Lab Sample ID: 820-4742-7

Date Collected: 06/21/22 14:42

Matrix: Water

Date Received: 06/23/22 15:03

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			06/29/22 19:18	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 19:18	1
Ethylbenzene	<0.000657	U *	0.00200	0.000657	mg/L			06/29/22 19:18	1
m-Xylene & p-Xylene	<0.000629	U *	0.00400	0.000629	mg/L			06/29/22 19:18	1
o-Xylene	<0.000642	U *	0.00200	0.000642	mg/L			06/29/22 19:18	1
Xylenes, Total	<0.000642	U *	0.00400	0.000642	mg/L			06/29/22 19:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130					06/29/22 19:18	1
1,4-Difluorobenzene (Surr)	115		70 - 130					06/29/22 19:18	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			06/30/22 09:53	1

Client Sample ID: MW-2

Lab Sample ID: 820-4742-8

Date Collected: 06/22/22 10:57

Matrix: Water

Date Received: 06/23/22 15:03

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0176	b	0.00200	0.000408	mg/L			06/29/22 19:39	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 19:39	1
Ethylbenzene	<0.000657	U *	0.00200	0.000657	mg/L			06/29/22 19:39	1
m-Xylene & p-Xylene	<0.000629	U *	0.00400	0.000629	mg/L			06/29/22 19:39	1
o-Xylene	<0.000642	U *	0.00200	0.000642	mg/L			06/29/22 19:39	1
Xylenes, Total	<0.000642	U *	0.00400	0.000642	mg/L			06/29/22 19:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130					06/29/22 19:39	1
1,4-Difluorobenzene (Surr)	114		70 - 130					06/29/22 19:39	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Client Sample ID: MW-2

Lab Sample ID: 820-4742-8

Date Collected: 06/22/22 10:57

Matrix: Water

Date Received: 06/23/22 15:03

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0176		0.00400	0.000657	mg/L			06/30/22 09:53	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10500		50.0	2.10	mg/L			06/30/22 21:33	100

Client Sample ID: MW-13

Lab Sample ID: 820-4742-9

Date Collected: 06/22/22 11:43

Matrix: Water

Date Received: 06/23/22 15:03

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			06/29/22 20:00	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 20:00	1
Ethylbenzene	<0.000657	U *	0.00200	0.000657	mg/L			06/29/22 20:00	1
m-Xylene & p-Xylene	<0.000629	U *	0.00400	0.000629	mg/L			06/29/22 20:00	1
o-Xylene	<0.000642	U *	0.00200	0.000642	mg/L			06/29/22 20:00	1
Xylenes, Total	<0.000642	U *	0.00400	0.000642	mg/L			06/29/22 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130		06/29/22 20:00	1
1,4-Difluorobenzene (Surr)	116		70 - 130		06/29/22 20:00	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			06/30/22 09:53	1

Client Sample ID: MW-8

Lab Sample ID: 820-4742-10

Date Collected: 06/22/22 12:13

Matrix: Water

Date Received: 06/23/22 15:03

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			06/29/22 20:21	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 20:21	1
Ethylbenzene	<0.000657	U *	0.00200	0.000657	mg/L			06/29/22 20:21	1
m-Xylene & p-Xylene	<0.000629	U *	0.00400	0.000629	mg/L			06/29/22 20:21	1
o-Xylene	<0.000642	U *	0.00200	0.000642	mg/L			06/29/22 20:21	1
Xylenes, Total	<0.000642	U *	0.00400	0.000642	mg/L			06/29/22 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130		06/29/22 20:21	1
1,4-Difluorobenzene (Surr)	116		70 - 130		06/29/22 20:21	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			06/30/22 09:53	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Client Sample ID: MW-3

Lab Sample ID: 820-4742-11

Date Collected: 06/22/22 12:53

Matrix: Water

Date Received: 06/23/22 15:03

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0285		0.00200	0.000408	mg/L			07/06/22 14:05	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			07/06/22 14:05	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			07/06/22 14:05	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			07/06/22 14:05	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			07/06/22 14:05	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			07/06/22 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130		07/06/22 14:05	1
1,4-Difluorobenzene (Surr)	89		70 - 130		07/06/22 14:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0285		0.00400	0.000657	mg/L			06/30/22 09:53	1

Client Sample ID: MW-4

Lab Sample ID: 820-4742-12

Date Collected: 06/22/22 13:24

Matrix: Water

Date Received: 06/23/22 15:03

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			07/06/22 14:31	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			07/06/22 14:31	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			07/06/22 14:31	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			07/06/22 14:31	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			07/06/22 14:31	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			07/06/22 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130		07/06/22 14:31	1
1,4-Difluorobenzene (Surr)	86		70 - 130		07/06/22 14:31	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			06/30/22 09:53	1

Client Sample ID: MW-14

Lab Sample ID: 820-4742-13

Date Collected: 06/22/22 14:00

Matrix: Water

Date Received: 06/23/22 15:03

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			07/06/22 14:57	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			07/06/22 14:57	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			07/06/22 14:57	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			07/06/22 14:57	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			07/06/22 14:57	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			07/06/22 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130		07/06/22 14:57	1
1,4-Difluorobenzene (Surr)	95		70 - 130		07/06/22 14:57	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Client Sample ID: MW-14

Lab Sample ID: 820-4742-13

Date Collected: 06/22/22 14:00

Matrix: Water

Date Received: 06/23/22 15:03

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			06/30/22 09:53	1

Client Sample ID: DUP-1

Lab Sample ID: 820-4742-14

Date Collected: 06/22/22 00:00

Matrix: Water

Date Received: 06/23/22 15:03

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			07/06/22 15:23	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			07/06/22 15:23	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			07/06/22 15:23	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			07/06/22 15:23	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			07/06/22 15:23	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			07/06/22 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130					07/06/22 15:23	1
1,4-Difluorobenzene (Surr)	92		70 - 130					07/06/22 15:23	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			06/30/22 09:53	1

Client Sample ID: DUP-2

Lab Sample ID: 820-4742-15

Date Collected: 06/22/22 00:00

Matrix: Water

Date Received: 06/23/22 15:03

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			07/06/22 15:49	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			07/06/22 15:49	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			07/06/22 15:49	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			07/06/22 15:49	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			07/06/22 15:49	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			07/06/22 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130					07/06/22 15:49	1
1,4-Difluorobenzene (Surr)	88		70 - 130					07/06/22 15:49	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			06/30/22 09:53	1

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
820-4742-1	MW-5	82	117
820-4742-2	MW-6	85	117
820-4742-3	MW-7	82	115
820-4742-4	MW-9	84	116
820-4742-5	MW-11	85	117
820-4742-6	MW-10	84	118
820-4742-7	MW-12	84	115
820-4742-8	MW-2	86	114
820-4742-9	MW-13	89	116
820-4742-10	MW-8	82	116
820-4742-11	MW-3	114	89
820-4742-12	MW-4	112	86
820-4742-13	MW-14	108	95
820-4742-14	DUP-1	119	92
820-4742-15	DUP-2	103	88
LCS 880-28608/3	Lab Control Sample	80	111
LCS 880-29107/3	Lab Control Sample	102	103
LCSD 880-28608/4	Lab Control Sample Dup	104	100
LCSD 880-29107/4	Lab Control Sample Dup	101	106
MB 880-28608/8	Method Blank	86	110
MB 880-29107/8	Method Blank	76	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-28608/8

Matrix: Water

Analysis Batch: 28608

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0006620	J	0.00200	0.000408	mg/L			06/29/22 12:21	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 12:21	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/29/22 12:21	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/29/22 12:21	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/29/22 12:21	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/29/22 12:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130		06/29/22 12:21	1
1,4-Difluorobenzene (Surr)	110		70 - 130		06/29/22 12:21	1

Lab Sample ID: LCS 880-28608/3

Matrix: Water

Analysis Batch: 28608

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1117		mg/L		112	70 - 130
Toluene	0.100	0.09153		mg/L		92	70 - 130
Ethylbenzene	0.100	0.07626		mg/L		76	70 - 130
m-Xylene & p-Xylene	0.200	0.1434		mg/L		72	70 - 130
o-Xylene	0.100	0.07624		mg/L		76	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-28608/4

Matrix: Water

Analysis Batch: 28608

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09219		mg/L		92	70 - 130	19	20
Toluene	0.100	0.1023		mg/L		102	70 - 130	11	20
Ethylbenzene	0.100	0.09846	*	mg/L		98	70 - 130	25	20
m-Xylene & p-Xylene	0.200	0.1988	*	mg/L		99	70 - 130	32	20
o-Xylene	0.100	0.1051	*	mg/L		105	70 - 130	32	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-29107/8

Matrix: Water

Analysis Batch: 29107

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			07/06/22 12:20	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			07/06/22 12:20	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

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

Lab Sample ID: MB 880-29107/8

Matrix: Water

Analysis Batch: 29107

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			07/06/22 12:20	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			07/06/22 12:20	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			07/06/22 12:20	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			07/06/22 12:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130		07/06/22 12:20	1
1,4-Difluorobenzene (Surr)	88		70 - 130		07/06/22 12:20	1

Lab Sample ID: LCS 880-29107/3

Matrix: Water

Analysis Batch: 29107

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08389		mg/L		84	70 - 130
Toluene	0.100	0.08243		mg/L		82	70 - 130
Ethylbenzene	0.100	0.07802		mg/L		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1581		mg/L		79	70 - 130
o-Xylene	0.100	0.08692		mg/L		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-29107/4

Matrix: Water

Analysis Batch: 29107

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09413		mg/L		94	70 - 130	11	20
Toluene	0.100	0.08565		mg/L		86	70 - 130	4	20
Ethylbenzene	0.100	0.08121		mg/L		81	70 - 130	4	20
m-Xylene & p-Xylene	0.200	0.1668		mg/L		83	70 - 130	5	20
o-Xylene	0.100	0.09194		mg/L		92	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-28725/3

Matrix: Water

Analysis Batch: 28725

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			06/30/22 14:56	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-28725/4					Client Sample ID: Lab Control Sample				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 28725									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	25.0	25.06		mg/L		100	90 - 110		

Lab Sample ID: LCSD 880-28725/5					Client Sample ID: Lab Control Sample Dup				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 28725									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	25.17		mg/L		101	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
 SDG: AR227010

GC VOA

Analysis Batch: 28608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4742-1	MW-5	Total/NA	Water	8021B	
820-4742-2	MW-6	Total/NA	Water	8021B	
820-4742-3	MW-7	Total/NA	Water	8021B	
820-4742-4	MW-9	Total/NA	Water	8021B	
820-4742-5	MW-11	Total/NA	Water	8021B	
820-4742-6	MW-10	Total/NA	Water	8021B	
820-4742-7	MW-12	Total/NA	Water	8021B	
820-4742-8	MW-2	Total/NA	Water	8021B	
820-4742-9	MW-13	Total/NA	Water	8021B	
820-4742-10	MW-8	Total/NA	Water	8021B	
MB 880-28608/8	Method Blank	Total/NA	Water	8021B	
LCS 880-28608/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-28608/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 28736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4742-1	MW-5	Total/NA	Water	Total BTEX	
820-4742-2	MW-6	Total/NA	Water	Total BTEX	
820-4742-3	MW-7	Total/NA	Water	Total BTEX	
820-4742-4	MW-9	Total/NA	Water	Total BTEX	
820-4742-5	MW-11	Total/NA	Water	Total BTEX	
820-4742-6	MW-10	Total/NA	Water	Total BTEX	
820-4742-7	MW-12	Total/NA	Water	Total BTEX	
820-4742-8	MW-2	Total/NA	Water	Total BTEX	
820-4742-9	MW-13	Total/NA	Water	Total BTEX	
820-4742-10	MW-8	Total/NA	Water	Total BTEX	
820-4742-11	MW-3	Total/NA	Water	Total BTEX	
820-4742-12	MW-4	Total/NA	Water	Total BTEX	
820-4742-13	MW-14	Total/NA	Water	Total BTEX	
820-4742-14	DUP-1	Total/NA	Water	Total BTEX	
820-4742-15	DUP-2	Total/NA	Water	Total BTEX	

Analysis Batch: 29107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4742-11	MW-3	Total/NA	Water	8021B	
820-4742-12	MW-4	Total/NA	Water	8021B	
820-4742-13	MW-14	Total/NA	Water	8021B	
820-4742-14	DUP-1	Total/NA	Water	8021B	
820-4742-15	DUP-2	Total/NA	Water	8021B	
MB 880-29107/8	Method Blank	Total/NA	Water	8021B	
LCS 880-29107/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-29107/4	Lab Control Sample Dup	Total/NA	Water	8021B	

HPLC/IC

Analysis Batch: 28725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4742-8	MW-2	Total/NA	Water	300.0	
MB 880-28725/3	Method Blank	Total/NA	Water	300.0	
LCS 880-28725/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-28725/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Client Sample ID: MW-5

Lab Sample ID: 820-4742-1

Date Collected: 06/21/22 11:05

Matrix: Water

Date Received: 06/23/22 15:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	28608	06/29/22 17:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID

Client Sample ID: MW-6

Lab Sample ID: 820-4742-2

Date Collected: 06/21/22 11:49

Matrix: Water

Date Received: 06/23/22 15:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	28608	06/29/22 17:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID

Client Sample ID: MW-7

Lab Sample ID: 820-4742-3

Date Collected: 06/21/22 12:26

Matrix: Water

Date Received: 06/23/22 15:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	28608	06/29/22 17:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID

Client Sample ID: MW-9

Lab Sample ID: 820-4742-4

Date Collected: 06/21/22 12:57

Matrix: Water

Date Received: 06/23/22 15:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	28608	06/29/22 18:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID

Client Sample ID: MW-11

Lab Sample ID: 820-4742-5

Date Collected: 06/21/22 13:31

Matrix: Water

Date Received: 06/23/22 15:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	28608	06/29/22 18:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID

Client Sample ID: MW-10

Lab Sample ID: 820-4742-6

Date Collected: 06/21/22 14:07

Matrix: Water

Date Received: 06/23/22 15:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	28608	06/29/22 18:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Client Sample ID: MW-12

Date Collected: 06/21/22 14:42

Date Received: 06/23/22 15:03

Lab Sample ID: 820-4742-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	28608	06/29/22 19:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID

Client Sample ID: MW-2

Date Collected: 06/22/22 10:57

Date Received: 06/23/22 15:03

Lab Sample ID: 820-4742-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	28608	06/29/22 19:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID
Total/NA	Analysis	300.0		100			28725	06/30/22 21:33	CH	XEN MID

Client Sample ID: MW-13

Date Collected: 06/22/22 11:43

Date Received: 06/23/22 15:03

Lab Sample ID: 820-4742-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	28608	06/29/22 20:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID

Client Sample ID: MW-8

Date Collected: 06/22/22 12:13

Date Received: 06/23/22 15:03

Lab Sample ID: 820-4742-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	28608	06/29/22 20:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID

Client Sample ID: MW-3

Date Collected: 06/22/22 12:53

Date Received: 06/23/22 15:03

Lab Sample ID: 820-4742-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1			29107	07/06/22 14:05	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID

Client Sample ID: MW-4

Date Collected: 06/22/22 13:24

Date Received: 06/23/22 15:03

Lab Sample ID: 820-4742-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1			29107	07/06/22 14:31	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Client Sample ID: MW-14

Date Collected: 06/22/22 14:00

Date Received: 06/23/22 15:03

Lab Sample ID: 820-4742-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1			29107	07/06/22 14:57	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID

Client Sample ID: DUP-1

Date Collected: 06/22/22 00:00

Date Received: 06/23/22 15:03

Lab Sample ID: 820-4742-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1			29107	07/06/22 15:23	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID

Client Sample ID: DUP-2

Date Collected: 06/22/22 00:00

Date Received: 06/23/22 15:03

Lab Sample ID: 820-4742-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1			29107	07/06/22 15:49	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			28736	06/30/22 09:53	SM	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-23	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

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

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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
Project/Site: 14-inch Vac to Jal Legacy

Job ID: 820-4742-1
SDG: AR227010

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-4742-1	MW-5	Water	06/21/22 11:05	06/23/22 15:03
820-4742-2	MW-6	Water	06/21/22 11:49	06/23/22 15:03
820-4742-3	MW-7	Water	06/21/22 12:26	06/23/22 15:03
820-4742-4	MW-9	Water	06/21/22 12:57	06/23/22 15:03
820-4742-5	MW-11	Water	06/21/22 13:31	06/23/22 15:03
820-4742-6	MW-10	Water	06/21/22 14:07	06/23/22 15:03
820-4742-7	MW-12	Water	06/21/22 14:42	06/23/22 15:03
820-4742-8	MW-2	Water	06/22/22 10:57	06/23/22 15:03
820-4742-9	MW-13	Water	06/22/22 11:43	06/23/22 15:03
820-4742-10	MW-8	Water	06/22/22 12:13	06/23/22 15:03
820-4742-11	MW-3	Water	06/22/22 12:53	06/23/22 15:03
820-4742-12	MW-4	Water	06/22/22 13:24	06/23/22 15:03
820-4742-13	MW-14	Water	06/22/22 14:00	06/23/22 15:03
820-4742-14	DUP-1	Water	06/22/22 00:00	06/23/22 15:03
820-4742-15	DUP-2	Water	06/22/22 00:00	06/23/22 15:03

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-4742-1

SDG Number: AR227010

Login Number: 4742

List Number: 1

Creator: Ruggles, Ashley

List Source: Eurofins Lubbock

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	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-4742-1

SDG Number: AR227010

Login Number: 4742

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 06/24/22 10:57 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.	N/A	
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").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock, TX 79424
Tel: (806)794-1296

Laboratory Job ID: 820-5890-1

Laboratory Sample Delivery Group: AR227010

Client Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

For:

Terracon Consulting Eng & Scientists
502 N Big Spring St
Midland, Texas 79701

Attn: Erin Lloyd

A handwritten signature in black ink, appearing to read "John Builes", is positioned above a horizontal line.

Authorized for release by:

10/3/2022 5:47:17 PM

John Builes, Project Manager
(561)558-4549

John.Builes@et.eurofinsus.com

Designee for

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

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

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Laboratory Job ID: 820-5890-1
SDG: AR227010

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
 Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
 SDG: AR227010

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.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

Job ID: 820-5890-1**Laboratory: Eurofins Lubbock****Narrative****Job Narrative
820-5890-1****Receipt**

The samples were received on 9/22/2022 11:46 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C

Receipt Exceptions

One or more containers for the following samples were received broken or leaking: MW-7 (820-5890-4), MW-12 (820-5890-6), MW-3 (820-5890-11) and DUP-2 (820-5890-15).

GC/MS VOA

Method 8260C: Surrogate 4-Bromofluorobenzene (Surrogate) recovery for the following samples were outside control limits: MW-8 (820-5890-10) and MW-14 (820-5890-13). 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.

HPLC/IC

Method 300_ORGFM_28D: The method blank for analytical batch 860-71559 contained <AffectedAnalytes> above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300_ORGFM_28D: The method blank for analytical batch 860-71559 contained Chloride above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

Client Sample ID: MW-5

Lab Sample ID: 820-5890-1

Date Collected: 09/20/22 11:24

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/24/22 02:58	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 02:58	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 02:58	1
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 02:58	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 02:58	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 02:58	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 02:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		09/24/22 02:58	1
4-Bromofluorobenzene (Surr)	121		74 - 124		09/24/22 02:58	1
Dibromofluoromethane (Surr)	97		75 - 131		09/24/22 02:58	1
Toluene-d8 (Surr)	104		80 - 117		09/24/22 02:58	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			09/27/22 10:27	1

Client Sample ID: MW-6

Lab Sample ID: 820-5890-2

Date Collected: 09/20/22 12:05

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/24/22 03:18	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 03:18	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 03:18	1
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 03:18	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 03:18	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 03:18	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		09/24/22 03:18	1
4-Bromofluorobenzene (Surr)	118		74 - 124		09/24/22 03:18	1
Dibromofluoromethane (Surr)	98		75 - 131		09/24/22 03:18	1
Toluene-d8 (Surr)	103		80 - 117		09/24/22 03:18	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			09/27/22 10:27	1

Client Sample ID: MW-9

Lab Sample ID: 820-5890-3

Date Collected: 09/20/22 12:54

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/24/22 03:39	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 03:39	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 03:39	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

Client Sample ID: MW-9

Lab Sample ID: 820-5890-3

Date Collected: 09/20/22 12:54

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 03:39	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 03:39	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 03:39	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144					09/24/22 03:39	1
4-Bromofluorobenzene (Surr)	119		74 - 124					09/24/22 03:39	1
Dibromofluoromethane (Surr)	99		75 - 131					09/24/22 03:39	1
Toluene-d8 (Surr)	105		80 - 117					09/24/22 03:39	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			09/27/22 10:27	1

Client Sample ID: MW-7

Lab Sample ID: 820-5890-4

Date Collected: 09/20/22 13:37

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000999	J	0.00100	0.000533	mg/L			09/24/22 03:59	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 03:59	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 03:59	1
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 03:59	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 03:59	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 03:59	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 03:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144					09/24/22 03:59	1
4-Bromofluorobenzene (Surr)	123		74 - 124					09/24/22 03:59	1
Dibromofluoromethane (Surr)	99		75 - 131					09/24/22 03:59	1
Toluene-d8 (Surr)	103		80 - 117					09/24/22 03:59	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			09/27/22 10:27	1

Client Sample ID: MW-11

Lab Sample ID: 820-5890-5

Date Collected: 09/20/22 14:16

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/24/22 04:20	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 04:20	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 04:20	1
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 04:20	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 04:20	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 04:20	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

Client Sample ID: MW-11

Lab Sample ID: 820-5890-5

Date Collected: 09/20/22 14:16

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 04:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144					09/24/22 04:20	1
4-Bromofluorobenzene (Surr)	124		74 - 124					09/24/22 04:20	1
Dibromofluoromethane (Surr)	100		75 - 131					09/24/22 04:20	1
Toluene-d8 (Surr)	103		80 - 117					09/24/22 04:20	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			09/27/22 10:27	1

Client Sample ID: MW-10

Lab Sample ID: 820-5890-7

Date Collected: 09/21/22 10:30

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000941	J	0.00100	0.000533	mg/L			09/24/22 04:40	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 04:40	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 04:40	1
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 04:40	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 04:40	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 04:40	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 04:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		63 - 144					09/24/22 04:40	1
4-Bromofluorobenzene (Surr)	124		74 - 124					09/24/22 04:40	1
Dibromofluoromethane (Surr)	97		75 - 131					09/24/22 04:40	1
Toluene-d8 (Surr)	105		80 - 117					09/24/22 04:40	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			09/27/22 10:27	1

Client Sample ID: MW-2

Lab Sample ID: 820-5890-8

Date Collected: 09/21/22 11:14

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00686		0.00100	0.000533	mg/L			09/24/22 05:01	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 05:01	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 05:01	1
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 05:01	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 05:01	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 05:01	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		63 - 144					09/24/22 05:01	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

Client Sample ID: MW-2

Lab Sample ID: 820-5890-8

Date Collected: 09/21/22 11:14

Matrix: Water

Date Received: 09/22/22 11:46

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		74 - 124		09/24/22 05:01	1
Dibromofluoromethane (Surr)	102		75 - 131		09/24/22 05:01	1
Toluene-d8 (Surr)	102		80 - 117		09/24/22 05:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00686	J	0.0100	0.00124	mg/L			09/27/22 10:27	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10500	b	25.0	10.0	mg/L			10/02/22 15:01	50

Client Sample ID: MW-13

Lab Sample ID: 820-5890-9

Date Collected: 09/21/22 11:51

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/24/22 05:21	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 05:21	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 05:21	1
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 05:21	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 05:21	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 05:21	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		09/24/22 05:21	1
4-Bromofluorobenzene (Surr)	123		74 - 124		09/24/22 05:21	1
Dibromofluoromethane (Surr)	108		75 - 131		09/24/22 05:21	1
Toluene-d8 (Surr)	105		80 - 117		09/24/22 05:21	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			09/27/22 10:27	1

Client Sample ID: MW-8

Lab Sample ID: 820-5890-10

Date Collected: 09/21/22 12:22

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/24/22 05:42	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 05:42	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 05:42	1
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 05:42	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 05:42	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 05:42	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 05:42	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

Client Sample ID: MW-8

Lab Sample ID: 820-5890-10

Date Collected: 09/21/22 12:22

Matrix: Water

Date Received: 09/22/22 11:46

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		09/24/22 05:42	1
4-Bromofluorobenzene (Surr)	126	X	74 - 124		09/24/22 05:42	1
Dibromofluoromethane (Surr)	100		75 - 131		09/24/22 05:42	1
Toluene-d8 (Surr)	102		80 - 117		09/24/22 05:42	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			09/27/22 10:27	1

Client Sample ID: MW-3

Lab Sample ID: 820-5890-11

Date Collected: 09/21/22 12:57

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0399		0.00100	0.000533	mg/L			09/24/22 06:02	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 06:02	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 06:02	1
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 06:02	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 06:02	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 06:02	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 06:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		63 - 144		09/24/22 06:02	1
4-Bromofluorobenzene (Surr)	123		74 - 124		09/24/22 06:02	1
Dibromofluoromethane (Surr)	102		75 - 131		09/24/22 06:02	1
Toluene-d8 (Surr)	103		80 - 117		09/24/22 06:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0399		0.0100	0.00124	mg/L			09/27/22 10:27	1

Client Sample ID: MW-4

Lab Sample ID: 820-5890-12

Date Collected: 09/21/22 14:05

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000554	J	0.00100	0.000533	mg/L			09/24/22 06:23	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 06:23	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 06:23	1
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 06:23	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 06:23	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 06:23	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 06:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		09/24/22 06:23	1
4-Bromofluorobenzene (Surr)	118		74 - 124		09/24/22 06:23	1
Dibromofluoromethane (Surr)	102		75 - 131		09/24/22 06:23	1
Toluene-d8 (Surr)	103		80 - 117		09/24/22 06:23	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

Client Sample ID: MW-4

Lab Sample ID: 820-5890-12

Date Collected: 09/21/22 14:05

Matrix: Water

Date Received: 09/22/22 11:46

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			09/27/22 10:27	1

Client Sample ID: MW-14

Lab Sample ID: 820-5890-13

Date Collected: 09/21/22 14:37

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/24/22 06:43	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 06:43	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 06:43	1
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 06:43	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 06:43	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 06:43	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 06:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		09/24/22 06:43	1
4-Bromofluorobenzene (Surr)	129	X	74 - 124		09/24/22 06:43	1
Dibromofluoromethane (Surr)	99		75 - 131		09/24/22 06:43	1
Toluene-d8 (Surr)	104		80 - 117		09/24/22 06:43	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			09/27/22 10:27	1

Client Sample ID: DUP-1

Lab Sample ID: 820-5890-14

Date Collected: 09/21/22 00:00

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0392		0.00100	0.000533	mg/L			09/24/22 07:04	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 07:04	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 07:04	1
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 07:04	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 07:04	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 07:04	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 07:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		09/24/22 07:04	1
4-Bromofluorobenzene (Surr)	123		74 - 124		09/24/22 07:04	1
Dibromofluoromethane (Surr)	104		75 - 131		09/24/22 07:04	1
Toluene-d8 (Surr)	103		80 - 117		09/24/22 07:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0392		0.0100	0.00124	mg/L			09/27/22 10:27	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
 SDG: AR227010

Client Sample ID: DUP-2

Lab Sample ID: 820-5890-15

Date Collected: 09/21/22 00:00

Matrix: Water

Date Received: 09/22/22 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/24/22 07:24	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 07:24	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 07:24	1
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 07:24	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 07:24	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 07:24	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 07:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		09/24/22 07:24	1
4-Bromofluorobenzene (Surr)	122		74 - 124		09/24/22 07:24	1
Dibromofluoromethane (Surr)	99		75 - 131		09/24/22 07:24	1
Toluene-d8 (Surr)	104		80 - 117		09/24/22 07:24	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			09/27/22 10:27	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
 SDG: AR227010

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-117)
820-5890-1	MW-5	105	121	97	104
820-5890-2	MW-6	103	118	98	103
820-5890-3	MW-9	107	119	99	105
820-5890-4	MW-7	105	123	99	103
820-5890-5	MW-11	106	124	100	103
820-5890-7	MW-10	108	124	97	105
820-5890-8	MW-2	110	122	102	102
820-5890-9	MW-13	106	123	108	105
820-5890-10	MW-8	105	126 X	100	102
820-5890-11	MW-3	110	123	102	103
820-5890-12	MW-4	108	118	102	103
820-5890-13	MW-14	107	129 X	99	104
820-5890-14	DUP-1	100	123	104	103
820-5890-15	DUP-2	107	122	99	104
880-19536-A-3 MS	Matrix Spike	106	96	99	104
LCS 860-70440/3	Lab Control Sample	102	100	100	104
LCSD 860-70440/4	Lab Control Sample Dup	106	98	101	103
MB 860-70440/8	Method Blank	100	119	99	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

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

Lab Sample ID: MB 860-70440/8

Matrix: Water

Analysis Batch: 70440

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/24/22 01:36	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/24/22 01:36	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/24/22 01:36	1
m-Xylene & p-Xylene	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 01:36	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/24/22 01:36	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/24/22 01:36	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			09/24/22 01:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		09/24/22 01:36	1
4-Bromofluorobenzene (Surr)	119		74 - 124		09/24/22 01:36	1
Dibromofluoromethane (Surr)	99		75 - 131		09/24/22 01:36	1
Toluene-d8 (Surr)	103		80 - 117		09/24/22 01:36	1

Lab Sample ID: LCS 860-70440/3

Matrix: Water

Analysis Batch: 70440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05464		mg/L		109	75 - 125
Toluene	0.0500	0.05608		mg/L		112	70 - 130
Ethylbenzene	0.0500	0.05501		mg/L		110	75 - 125
m-Xylene & p-Xylene	0.0500	0.05650		mg/L		113	75 - 125
o-Xylene	0.0500	0.05647		mg/L		113	75 - 125
MTBE	0.0500	0.04736		mg/L		95	65 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	104		80 - 117

Lab Sample ID: LCSD 860-70440/4

Matrix: Water

Analysis Batch: 70440

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.05546		mg/L		111	75 - 125	1	25
Toluene	0.0500	0.05693		mg/L		114	70 - 130	2	25
Ethylbenzene	0.0500	0.05557		mg/L		111	75 - 125	1	25
m-Xylene & p-Xylene	0.0500	0.05680		mg/L		114	75 - 125	1	25
o-Xylene	0.0500	0.05754		mg/L		115	75 - 125	2	25
MTBE	0.0500	0.04878		mg/L		98	65 - 135	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

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

Lab Sample ID: LCSD 860-70440/4

Matrix: Water

Analysis Batch: 70440

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	103		80 - 117

Lab Sample ID: 880-19536-A-3 MS

Matrix: Water

Analysis Batch: 70440

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000533	U	0.0500	0.06015		mg/L		120	66 - 142
Toluene	<0.000475	U	0.0500	0.06016		mg/L		120	59 - 139
Ethylbenzene	<0.000411	U	0.0500	0.05912		mg/L		118	75 - 125
m-Xylene & p-Xylene	<0.00124	U	0.0500	0.06119		mg/L		122	75 - 125
o-Xylene	<0.000551	U	0.0500	0.06192		mg/L		124	75 - 125
MTBE	<0.00139	U	0.0500	0.05526		mg/L		111	65 - 135

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		63 - 144
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	104		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-71559/3

Matrix: Water

Analysis Batch: 71559

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.2593	J	0.500	0.200	mg/L			10/02/22 12:30	1

Lab Sample ID: LCS 860-71559/6

Matrix: Water

Analysis Batch: 71559

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.51		mg/L		105	90 - 110

Lab Sample ID: LCSD 860-71559/7

Matrix: Water

Analysis Batch: 71559

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.56		mg/L		106	90 - 110	1	20

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
 SDG: AR227010

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-71559/5

Matrix: Water

Analysis Batch: 71559

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.6350		mg/L		127	50 - 150		

Lab Sample ID: 870-11180-B-1 MS

Matrix: Water

Analysis Batch: 71559

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	87.5	b	10.0	96.48	4	mg/L		90	90 - 110		

Lab Sample ID: 870-11180-B-1 MSD

Matrix: Water

Analysis Batch: 71559

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	87.5	b	10.0	96.83	4	mg/L		93	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
 SDG: AR227010

GC/MS VOA

Analysis Batch: 70440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5890-1	MW-5	Total/NA	Water	8260C	
820-5890-2	MW-6	Total/NA	Water	8260C	
820-5890-3	MW-9	Total/NA	Water	8260C	
820-5890-4	MW-7	Total/NA	Water	8260C	
820-5890-5	MW-11	Total/NA	Water	8260C	
820-5890-7	MW-10	Total/NA	Water	8260C	
820-5890-8	MW-2	Total/NA	Water	8260C	
820-5890-9	MW-13	Total/NA	Water	8260C	
820-5890-10	MW-8	Total/NA	Water	8260C	
820-5890-11	MW-3	Total/NA	Water	8260C	
820-5890-12	MW-4	Total/NA	Water	8260C	
820-5890-13	MW-14	Total/NA	Water	8260C	
820-5890-14	DUP-1	Total/NA	Water	8260C	
820-5890-15	DUP-2	Total/NA	Water	8260C	
MB 860-70440/8	Method Blank	Total/NA	Water	8260C	
LCS 860-70440/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-70440/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-19536-A-3 MS	Matrix Spike	Total/NA	Water	8260C	

Analysis Batch: 70732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5890-1	MW-5	Total/NA	Water	Total BTEX	
820-5890-2	MW-6	Total/NA	Water	Total BTEX	
820-5890-3	MW-9	Total/NA	Water	Total BTEX	
820-5890-4	MW-7	Total/NA	Water	Total BTEX	
820-5890-5	MW-11	Total/NA	Water	Total BTEX	
820-5890-7	MW-10	Total/NA	Water	Total BTEX	
820-5890-8	MW-2	Total/NA	Water	Total BTEX	
820-5890-9	MW-13	Total/NA	Water	Total BTEX	
820-5890-10	MW-8	Total/NA	Water	Total BTEX	
820-5890-11	MW-3	Total/NA	Water	Total BTEX	
820-5890-12	MW-4	Total/NA	Water	Total BTEX	
820-5890-13	MW-14	Total/NA	Water	Total BTEX	
820-5890-14	DUP-1	Total/NA	Water	Total BTEX	
820-5890-15	DUP-2	Total/NA	Water	Total BTEX	

HPLC/IC

Analysis Batch: 71559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5890-8	MW-2	Total/NA	Water	300.0	
MB 860-71559/3	Method Blank	Total/NA	Water	300.0	
LCS 860-71559/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-71559/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-71559/5	Lab Control Sample	Total/NA	Water	300.0	
870-11180-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
870-11180-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

Client Sample ID: MW-5

Lab Sample ID: 820-5890-1

Date Collected: 09/20/22 11:24

Matrix: Water

Date Received: 09/22/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	70440	09/24/22 02:58	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			70732	09/27/22 10:27	JBS	EET HOU

Client Sample ID: MW-6

Lab Sample ID: 820-5890-2

Date Collected: 09/20/22 12:05

Matrix: Water

Date Received: 09/22/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	70440	09/24/22 03:18	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			70732	09/27/22 10:27	JBS	EET HOU

Client Sample ID: MW-9

Lab Sample ID: 820-5890-3

Date Collected: 09/20/22 12:54

Matrix: Water

Date Received: 09/22/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	70440	09/24/22 03:39	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			70732	09/27/22 10:27	JBS	EET HOU

Client Sample ID: MW-7

Lab Sample ID: 820-5890-4

Date Collected: 09/20/22 13:37

Matrix: Water

Date Received: 09/22/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	70440	09/24/22 03:59	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			70732	09/27/22 10:27	JBS	EET HOU

Client Sample ID: MW-11

Lab Sample ID: 820-5890-5

Date Collected: 09/20/22 14:16

Matrix: Water

Date Received: 09/22/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	70440	09/24/22 04:20	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			70732	09/27/22 10:27	JBS	EET HOU

Client Sample ID: MW-10

Lab Sample ID: 820-5890-7

Date Collected: 09/21/22 10:30

Matrix: Water

Date Received: 09/22/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	70440	09/24/22 04:40	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			70732	09/27/22 10:27	JBS	EET HOU

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

Client Sample ID: MW-2

Lab Sample ID: 820-5890-8

Date Collected: 09/21/22 11:14

Matrix: Water

Date Received: 09/22/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	70440	09/24/22 05:01	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			70732	09/27/22 10:27	JBS	EET HOU
Total/NA	Analysis	300.0		50			71559	10/02/22 15:01	RBNS	EET HOU

Client Sample ID: MW-13

Lab Sample ID: 820-5890-9

Date Collected: 09/21/22 11:51

Matrix: Water

Date Received: 09/22/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	70440	09/24/22 05:21	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			70732	09/27/22 10:27	JBS	EET HOU

Client Sample ID: MW-8

Lab Sample ID: 820-5890-10

Date Collected: 09/21/22 12:22

Matrix: Water

Date Received: 09/22/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	70440	09/24/22 05:42	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			70732	09/27/22 10:27	JBS	EET HOU

Client Sample ID: MW-3

Lab Sample ID: 820-5890-11

Date Collected: 09/21/22 12:57

Matrix: Water

Date Received: 09/22/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	70440	09/24/22 06:02	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			70732	09/27/22 10:27	JBS	EET HOU

Client Sample ID: MW-4

Lab Sample ID: 820-5890-12

Date Collected: 09/21/22 14:05

Matrix: Water

Date Received: 09/22/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	70440	09/24/22 06:23	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			70732	09/27/22 10:27	JBS	EET HOU

Client Sample ID: MW-14

Lab Sample ID: 820-5890-13

Date Collected: 09/21/22 14:37

Matrix: Water

Date Received: 09/22/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	70440	09/24/22 06:43	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			70732	09/27/22 10:27	JBS	EET HOU

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

Client Sample ID: DUP-1
Date Collected: 09/21/22 00:00
Date Received: 09/22/22 11:46

Lab Sample ID: 820-5890-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	70440	09/24/22 07:04	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			70732	09/27/22 10:27	JBS	EET HOU

Client Sample ID: DUP-2
Date Collected: 09/21/22 00:00
Date Received: 09/22/22 11:46

Lab Sample ID: 820-5890-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	70440	09/24/22 07:24	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			70732	09/27/22 10:27	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
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

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
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-22-47	06-30-23
Texas	TCEQ Water Supply	T104704215	12-31-22
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

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

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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: 14" Vac to Jal Legacy (SRS # 2009-092)

Job ID: 820-5890-1
SDG: AR227010

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-5890-1	MW-5	Water	09/20/22 11:24	09/22/22 11:46
820-5890-2	MW-6	Water	09/20/22 12:05	09/22/22 11:46
820-5890-3	MW-9	Water	09/20/22 12:54	09/22/22 11:46
820-5890-4	MW-7	Water	09/20/22 13:37	09/22/22 11:46
820-5890-5	MW-11	Water	09/20/22 14:16	09/22/22 11:46
820-5890-7	MW-10	Water	09/21/22 10:30	09/22/22 11:46
820-5890-8	MW-2	Water	09/21/22 11:14	09/22/22 11:46
820-5890-9	MW-13	Water	09/21/22 11:51	09/22/22 11:46
820-5890-10	MW-8	Water	09/21/22 12:22	09/22/22 11:46
820-5890-11	MW-3	Water	09/21/22 12:57	09/22/22 11:46
820-5890-12	MW-4	Water	09/21/22 14:05	09/22/22 11:46
820-5890-13	MW-14	Water	09/21/22 14:37	09/22/22 11:46
820-5890-14	DUP-1	Water	09/21/22 00:00	09/22/22 11:46
820-5890-15	DUP-2	Water	09/21/22 00:00	09/22/22 11:46

Loc: 820
5890

5890

CHAIN OF CUSTODY RECORD

Terracon										Laboratory: Xenco Laboratories Address: 6701 Aberdeen Avenue, Suite 9 Lubbock, TX 79424		ANALYSIS REQUESTED				LAB USE ONLY DUE DATE:					
Office Location <u>Lubbock</u>										Phone: (806) 794-1296		BTEX/MTBE (EPA Method 8260B) Chloride (Total) (EPA 300)				TEMP OF COOLER WHEN RECEIVED (°C) <u>3.813.70</u>					
Project Manager: Erin Loyd										Contact: Erin Loyd						Page <u>1</u> of <u>2</u>					
Sampler's Name: Aaron Adams										PO/SO #: <u> </u>						Lab Sample ID					
Project Number: AR227010										Project Name: 14" Vac to Jal Legacy (SRS # 2009-092)										No. Type of Containers	
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	60 ml VOA	250 ml	Poly											
GW	09/20/22	11:24		X	MW-5			3					X								
GW	09/20/22	12:05		X	MW-6			3					X								
GW	09/20/22	12:54		X	MW-9			3					X								
GW	09/20/22	13:37		X	MW-7			3					X								
GW	09/20/22	14:16		X	MW-11			3					X								
GW	09/20/22	14:51		X	MW-12			3					X								
GW	09/21/22	10:30		X	MW-10			3					X								
GW	09/21/22	11:14		X	MW-2			3	1				X	X							
GW	09/21/22	11:51		X	MW-13			3					X								
GW	09/21/22	12:22		X	MW-8			3					X								
TURNAROUND TIME										☒ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush		TRRP Laboratory Review Checklist				☐ Yes ☐ No					
Relinquished by (Signature) <u>Aaron Adams</u>				Date: <u>9-21-22</u> Time: <u>18:45</u>		Received by (Signature) <u>Robert Adams</u>				Date: <u>9-22-22</u> Time: <u>1135</u>		NOTES: E-MAIL RESULTS TO: 1. CJBRYANT@PAALP.COM 2. MAOCHOA@PAALP.COM 3. AARON.ADAMS@TERRACON.COM 4. ERIN.LOYD@TERRACON.COM 5. JOHN.GRAMS@TERRACON.COM									
Relinquished by (Signature) <u>Robert Adams</u>				Date: <u>9-22-22</u> Time: <u>1146</u>		Received by (Signature) <u>Ashley T. Ruggler</u>				Date: <u>9/22/22</u> Time: <u>11:46</u>											
Relinquished by (Signature)				Date:		Received by (Signature)				Date:											
Relinquished by (Signature)				Date:		Received by (Signature)				Date:											

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

Lubbock Office ■ 5827 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140

Responsive ■ Resourceful ■ Reliable

Age Group	Number of People
1	1
2	2
3	3
4	4
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9	9
10	10
12	12
13	13
14	14

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-5890-1

SDG Number: AR227010

Login Number: 5890

List Number: 1

Creator: Ruggles, Ashley

List Source: Eurofins Lubbock

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	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-5890-1

SDG Number: AR227010

Login Number: 5890

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 09/23/22 01:50 PM

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 <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock, TX 79424
Tel: (806)794-1296

Laboratory Job ID: 820-5992-1

Laboratory Sample Delivery Group: AR227010

Client Project/Site: 14" Vac to Jal Legacy

For:

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

Attn: Aaron Adams

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

10/10/2022 2:56:33 PM

Jessica Kramer, Project Manager

(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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.

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy

Laboratory Job ID: 820-5992-1
SDG: AR227010

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy

Job ID: 820-5992-1
SDG: AR227010

Qualifiers

GC VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
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)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy

Job ID: 820-5992-1
SDG: AR227010

Job ID: 820-5992-1

Laboratory: Eurofins Lubbock

Narrative	
	Job Narrative 820-5992-1

Receipt

The sample was received on 9/30/2022 11:53 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 1.7°C

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-36469 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy

Job ID: 820-5992-1
SDG: AR227010

Client Sample ID: MW-12

Lab Sample ID: 820-5992-1

Date Collected: 09/29/22 13:45

Matrix: Water

Date Received: 09/30/22 11:53

Method: SW846 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			10/09/22 15:18	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			10/09/22 15:18	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			10/09/22 15:18	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			10/09/22 15:18	1
o-Xylene	<0.000642	U *	0.00200	0.000642	mg/L			10/09/22 15:18	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			10/09/22 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130		10/09/22 15:18	1
1,4-Difluorobenzene (Surr)	93		70 - 130		10/09/22 15:18	1

Method: TAL SOP 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			10/10/22 10:23	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy

Job ID: 820-5992-1
SDG: AR227010

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB1	DFBZ1		
		(70-130)	(70-130)		
820-5992-1	MW-12	97	93		
LCS 880-36469/3	Lab Control Sample	108	106		
LCSD 880-36469/4	Lab Control Sample Dup	128	92		
MB 880-36469/8	Method Blank	86	91		
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DFBZ = 1,4-Difluorobenzene (Surr)					

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy

Job ID: 820-5992-1
SDG: AR227010

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-36469/8

Matrix: Water

Analysis Batch: 36469

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			10/09/22 13:35	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			10/09/22 13:35	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			10/09/22 13:35	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			10/09/22 13:35	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			10/09/22 13:35	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			10/09/22 13:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130		10/09/22 13:35	1
1,4-Difluorobenzene (Surr)	91		70 - 130		10/09/22 13:35	1

Lab Sample ID: LCS 880-36469/3

Matrix: Water

Analysis Batch: 36469

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09735		mg/L		97	70 - 130
Toluene	0.100	0.09020		mg/L		90	70 - 130
Ethylbenzene	0.100	0.09559		mg/L		96	70 - 130
m-Xylene & p-Xylene	0.200	0.2049		mg/L		102	70 - 130
o-Xylene	0.100	0.1134		mg/L		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-36469/4

Matrix: Water

Analysis Batch: 36469

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09825		mg/L		98	70 - 130	1	20
Toluene	0.100	0.1000		mg/L		100	70 - 130	10	20
Ethylbenzene	0.100	0.1152		mg/L		115	70 - 130	19	20
m-Xylene & p-Xylene	0.200	0.2504		mg/L		125	70 - 130	20	20
o-Xylene	0.100	0.1404	*	mg/L		140	70 - 130	21	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy

Job ID: 820-5992-1
SDG: AR227010

GC VOA

Analysis Batch: 36469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5992-1	MW-12	Total/NA	Water	8021B	
MB 880-36469/8	Method Blank	Total/NA	Water	8021B	
LCS 880-36469/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-36469/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 36536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5992-1	MW-12	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy

Job ID: 820-5992-1
SDG: AR227010

Client Sample ID: MW-12
Date Collected: 09/29/22 13:45
Date Received: 09/30/22 11:53

Lab Sample ID: 820-5992-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	36469	10/09/22 15:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36536	10/10/22 10:23	AJ	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy

Job ID: 820-5992-1
SDG: AR227010

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy

Job ID: 820-5992-1
SDG: AR227010

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: Terracon Consulting Eng & Scientists
Project/Site: 14" Vac to Jal Legacy

Job ID: 820-5992-1
SDG: AR227010

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-5992-1	MW-12	Water	09/29/22 13:45	09/30/22 11:53

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ferracon

CHAIN OF CUSTODY RECORD

820-5992 Chain of Custody

SRS #: _____
Sampler's Signature *Austin Wadley*

82-8021
Per Aaron
Adams
over the
phone

Page 1 of 1

~~NFE~~

aaron.adams@terracon.com
austin.worley@terracon.com

Lubbock Office ■ 5847 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140
Responsive ■ Resourceful ■ Reliable

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-5992-1

SDG Number: AR227010

Login Number: 5992

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Lubbock

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.	N/A	
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	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-5992-1

SDG Number: AR227010

Login Number: 5992

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 10/04/22 10:26 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joel Lowry
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711
Generated 3/3/2023 4:18:07 PM

JOB DESCRIPTION

14" Vac to Jal
SDG NUMBER Lea County NM

JOB NUMBER

880-25366-1

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 4:18:07 PM

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

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Laboratory Job ID: 880-25366-1
SDG: Lea County NM

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Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
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.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	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
SQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Job ID: 880-25366-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-25366-1

Receipt

The samples were received on 3/1/2023 4:37 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 0.7°C

GC VOA

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

HPLC/IC

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

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Client Sample ID: MW-2

Lab Sample ID: 880-25366-1

Date Collected: 02/24/23 12:00

Matrix: Water

Date Received: 03/01/23 16:37

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00709		0.00200	0.000408	mg/L			03/03/23 02:27	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 02:27	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 02:27	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 02:27	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 02:27	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130		03/03/23 02:27	1
1,4-Difluorobenzene (Surr)	109		70 - 130		03/03/23 02:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00709		0.00400	0.000657	mg/L			03/03/23 13:22	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12800		50.0	34.6	mg/L			03/03/23 11:36	100

Client Sample ID: MW-3

Lab Sample ID: 880-25366-2

Date Collected: 02/24/23 10:00

Matrix: Water

Date Received: 03/01/23 16:37

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00301		0.00200	0.000408	mg/L			03/03/23 02:47	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 02:47	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 02:47	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 02:47	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 02:47	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 02:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130		03/03/23 02:47	1
1,4-Difluorobenzene (Surr)	110		70 - 130		03/03/23 02:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00301	J	0.00400	0.000657	mg/L			03/03/23 13:22	1

Client Sample ID: MW-4

Lab Sample ID: 880-25366-3

Date Collected: 02/24/23 07:50

Matrix: Water

Date Received: 03/01/23 16:37

Method: SW846 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			03/03/23 03:08	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 03:08	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 03:08	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 03:08	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 03:08	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 03:08	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Client Sample ID: MW-4

Lab Sample ID: 880-25366-3

Date Collected: 02/24/23 07:50

Matrix: Water

Date Received: 03/01/23 16:37

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130		03/03/23 03:08	1
1,4-Difluorobenzene (Surr)	105		70 - 130		03/03/23 03:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/03/23 13:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Client Sample ID: MW-5

Lab Sample ID: 880-25366-4

Date Collected: 02/24/23 09:50

Matrix: Water

Date Received: 03/01/23 16:37

Method: SW846 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			03/03/23 03:28	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 03:28	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 03:28	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 03:28	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 03:28	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130		03/03/23 03:28	1
1,4-Difluorobenzene (Surr)	105		70 - 130		03/03/23 03:28	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/03/23 13:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Client Sample ID: MW-6

Lab Sample ID: 880-25366-5

Date Collected: 02/24/23 10:50

Matrix: Water

Date Received: 03/01/23 16:37

Method: SW846 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			03/03/23 03:49	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 03:49	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 03:49	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 03:49	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 03:49	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130		03/03/23 03:49	1
1,4-Difluorobenzene (Surr)	110		70 - 130		03/03/23 03:49	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/03/23 13:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Client Sample ID: MW-7

Lab Sample ID: 880-25366-6

Date Collected: 02/24/23 10:30

Matrix: Water

Date Received: 03/01/23 16:37

Method: SW846 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			03/03/23 04:09	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 04:09	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 04:09	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 04:09	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 04:09	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130		03/03/23 04:09	1
1,4-Difluorobenzene (Surr)	108		70 - 130		03/03/23 04:09	1

Method: TAL SOP 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			03/03/23 13:22	1

Client Sample ID: MW-8

Lab Sample ID: 880-25366-7

Date Collected: 02/24/23 09:30

Matrix: Water

Date Received: 03/01/23 16:37

Method: SW846 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			03/03/23 04:30	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 04:30	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 04:30	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 04:30	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 04:30	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 04:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130		03/03/23 04:30	1
1,4-Difluorobenzene (Surr)	110		70 - 130		03/03/23 04:30	1

Method: TAL SOP 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			03/03/23 13:22	1

Client Sample ID: MW-9

Lab Sample ID: 880-25366-8

Date Collected: 02/24/23 08:00

Matrix: Water

Date Received: 03/01/23 16:37

Method: SW846 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			03/03/23 04:50	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 04:50	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 04:50	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 04:50	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 04:50	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130		03/03/23 04:50	1
1,4-Difluorobenzene (Surr)	109		70 - 130		03/03/23 04:50	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Client Sample ID: MW-9

Lab Sample ID: 880-25366-8

Date Collected: 02/24/23 08:00

Matrix: Water

Date Received: 03/01/23 16:37

Method: TAL SOP 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			03/03/23 13:22	1

Client Sample ID: MW-10

Lab Sample ID: 880-25366-9

Date Collected: 02/24/23 11:10

Matrix: Water

Date Received: 03/01/23 16:37

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00183	J	0.00200	0.000408	mg/L			03/03/23 05:11	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 05:11	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 05:11	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 05:11	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 05:11	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130		03/03/23 05:11	1
1,4-Difluorobenzene (Surr)	113		70 - 130		03/03/23 05:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00183	J	0.00400	0.000657	mg/L			03/03/23 13:22	1

Client Sample ID: MW-11

Lab Sample ID: 880-25366-10

Date Collected: 02/24/23 12:30

Matrix: Water

Date Received: 03/01/23 16:37

Method: SW846 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			03/03/23 07:01	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 07:01	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 07:01	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 07:01	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 07:01	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 07:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130		03/03/23 07:01	1
1,4-Difluorobenzene (Surr)	111		70 - 130		03/03/23 07:01	1

Method: TAL SOP 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			03/03/23 13:22	1

Client Sample ID: MW-12

Lab Sample ID: 880-25366-11

Date Collected: 02/24/23 09:00

Matrix: Water

Date Received: 03/01/23 16:37

Method: SW846 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			03/03/23 07:21	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 07:21	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Client Sample ID: MW-12

Lab Sample ID: 880-25366-11

Date Collected: 02/24/23 09:00

Matrix: Water

Date Received: 03/01/23 16:37

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 07:21	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 07:21	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 07:21	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 07:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130					03/03/23 07:21	1
1,4-Difluorobenzene (Surr)	108		70 - 130					03/03/23 07:21	1

Method: TAL SOP 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			03/03/23 13:22	1

Client Sample ID: MW-13

Lab Sample ID: 880-25366-12

Date Collected: 02/24/23 08:30

Matrix: Water

Date Received: 03/01/23 16:37

Method: SW846 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			03/03/23 07:42	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 07:42	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 07:42	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 07:42	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 07:42	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 07:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130					03/03/23 07:42	1
1,4-Difluorobenzene (Surr)	108		70 - 130					03/03/23 07:42	1

Method: TAL SOP 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			03/03/23 13:22	1

Client Sample ID: MW-14

Lab Sample ID: 880-25366-13

Date Collected: 02/24/23 07:30

Matrix: Water

Date Received: 03/01/23 16:37

Method: SW846 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			03/03/23 08:02	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 08:02	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 08:02	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 08:02	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 08:02	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 08:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130					03/03/23 08:02	1
1,4-Difluorobenzene (Surr)	116		70 - 130					03/03/23 08:02	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Client Sample ID: MW-14
Date Collected: 02/24/23 07:30
Date Received: 03/01/23 16:37

Lab Sample ID: 880-25366-13
Matrix: Water

Method: TAL SOP 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			03/03/23 13:22	1

- 1
- 2
- 3
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Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-25365-B-1 MS	Matrix Spike	114	112
880-25365-B-1 MSD	Matrix Spike Duplicate	112	109
880-25366-1	MW-2	116	109
880-25366-2	MW-3	116	110
880-25366-3	MW-4	114	105
880-25366-4	MW-5	111	105
880-25366-5	MW-6	114	110
880-25366-6	MW-7	113	108
880-25366-7	MW-8	114	110
880-25366-8	MW-9	116	109
880-25366-9	MW-10	111	113
880-25366-10	MW-11	109	111
880-25366-11	MW-12	105	108
880-25366-12	MW-13	106	108
880-25366-13	MW-14	112	116
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

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47338/5-A

Matrix: Water

Analysis Batch: 47605

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47338

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

Lab Sample ID: MB 880-47605/39

Matrix: Water

Analysis Batch: 47605

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

Analysis Batch: 47605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1019		mg/L		102	70 - 130
Toluene	0.100	0.1004		mg/L		100	70 - 130
Ethylbenzene	0.100	0.1051		mg/L		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2243		mg/L		112	70 - 130
o-Xylene	0.100	0.1109		mg/L		111	70 - 130

Surrogate	LCS %Recovery	LCS 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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1093		mg/L		109	70 - 130	7	20

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-25365-B-1 MS

Matrix: Water

Analysis Batch: 47605

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000408	U	0.100	0.1060		mg/L		106	70 - 130
Toluene	<0.000367	U	0.100	0.1019		mg/L		102	70 - 130
Ethylbenzene	<0.000657	U	0.100	0.1065		mg/L		107	70 - 130
m-Xylene & p-Xylene	0.000712	J	0.200	0.2248		mg/L		112	70 - 130
o-Xylene	<0.000642	U	0.100	0.1126		mg/L		113	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-25365-B-1 MSD

Matrix: Water

Analysis Batch: 47605

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000408	U	0.100	0.1123		mg/L		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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47657/3

Matrix: Water

Analysis Batch: 47657

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.346	U	0.500	0.346	mg/L			03/03/23 10:18	1

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-47657/4

Matrix: Water

Analysis Batch: 47657

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	26.77		mg/L		107	90 - 110

Lab Sample ID: LCSD 880-47657/5

Matrix: Water

Analysis Batch: 47657

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	26.84		mg/L		107	90 - 110	0	20

Lab Sample ID: 880-25360-A-1 MS

Matrix: Water

Analysis Batch: 47657

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	22.3		25.0	48.09		mg/L		103	90 - 110

Lab Sample ID: 880-25360-A-1 MSD

Matrix: Water

Analysis Batch: 47657

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	22.3		25.0	48.21		mg/L		104	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
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
880-25366-1	MW-2	Total/NA	Water	8021B	
880-25366-2	MW-3	Total/NA	Water	8021B	
880-25366-3	MW-4	Total/NA	Water	8021B	
880-25366-4	MW-5	Total/NA	Water	8021B	
880-25366-5	MW-6	Total/NA	Water	8021B	
880-25366-6	MW-7	Total/NA	Water	8021B	
880-25366-7	MW-8	Total/NA	Water	8021B	
880-25366-8	MW-9	Total/NA	Water	8021B	
880-25366-9	MW-10	Total/NA	Water	8021B	
880-25366-10	MW-11	Total/NA	Water	8021B	
880-25366-11	MW-12	Total/NA	Water	8021B	
880-25366-12	MW-13	Total/NA	Water	8021B	
880-25366-13	MW-14	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-B-1 MS	Matrix Spike	Total/NA	Water	8021B	
880-25365-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Analysis Batch: 47749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25366-1	MW-2	Total/NA	Water	Total BTEX	
880-25366-2	MW-3	Total/NA	Water	Total BTEX	
880-25366-3	MW-4	Total/NA	Water	Total BTEX	
880-25366-4	MW-5	Total/NA	Water	Total BTEX	
880-25366-5	MW-6	Total/NA	Water	Total BTEX	
880-25366-6	MW-7	Total/NA	Water	Total BTEX	
880-25366-7	MW-8	Total/NA	Water	Total BTEX	
880-25366-8	MW-9	Total/NA	Water	Total BTEX	
880-25366-9	MW-10	Total/NA	Water	Total BTEX	
880-25366-10	MW-11	Total/NA	Water	Total BTEX	
880-25366-11	MW-12	Total/NA	Water	Total BTEX	
880-25366-12	MW-13	Total/NA	Water	Total BTEX	
880-25366-13	MW-14	Total/NA	Water	Total BTEX	

HPLC/IC

Analysis Batch: 47657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25366-1	MW-2	Total/NA	Water	300.0	
MB 880-47657/3	Method Blank	Total/NA	Water	300.0	
LCS 880-47657/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-47657/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-25360-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-25360-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Client Sample ID: MW-2

Lab Sample ID: 880-25366-1

Date Collected: 02/24/23 12:00

Matrix: Water

Date Received: 03/01/23 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 02:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47749	03/03/23 13:22	SM	EET MID
Total/NA	Analysis	300.0		100	50 mL	50 mL	47657	03/03/23 11:36	CH	EET MID

Client Sample ID: MW-3

Lab Sample ID: 880-25366-2

Date Collected: 02/24/23 10:00

Matrix: Water

Date Received: 03/01/23 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 02:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47749	03/03/23 13:22	SM	EET MID

Client Sample ID: MW-4

Lab Sample ID: 880-25366-3

Date Collected: 02/24/23 07:50

Matrix: Water

Date Received: 03/01/23 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 03:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47749	03/03/23 13:22	SM	EET MID

Client Sample ID: MW-5

Lab Sample ID: 880-25366-4

Date Collected: 02/24/23 09:50

Matrix: Water

Date Received: 03/01/23 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 03:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47749	03/03/23 13:22	SM	EET MID

Client Sample ID: MW-6

Lab Sample ID: 880-25366-5

Date Collected: 02/24/23 10:50

Matrix: Water

Date Received: 03/01/23 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 03:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47749	03/03/23 13:22	SM	EET MID

Client Sample ID: MW-7

Lab Sample ID: 880-25366-6

Date Collected: 02/24/23 10:30

Matrix: Water

Date Received: 03/01/23 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 04:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47749	03/03/23 13:22	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Client Sample ID: MW-8**Lab Sample ID: 880-25366-7****Date Collected: 02/24/23 09:30****Matrix: Water****Date Received: 03/01/23 16:37**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 04:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47749	03/03/23 13:22	SM	EET MID

Client Sample ID: MW-9**Lab Sample ID: 880-25366-8****Date Collected: 02/24/23 08:00****Matrix: Water****Date Received: 03/01/23 16:37**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 04:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47749	03/03/23 13:22	SM	EET MID

Client Sample ID: MW-10**Lab Sample ID: 880-25366-9****Date Collected: 02/24/23 11:10****Matrix: Water****Date Received: 03/01/23 16:37**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 05:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47749	03/03/23 13:22	SM	EET MID

Client Sample ID: MW-11**Lab Sample ID: 880-25366-10****Date Collected: 02/24/23 12:30****Matrix: Water****Date Received: 03/01/23 16:37**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 07:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47749	03/03/23 13:22	SM	EET MID

Client Sample ID: MW-12**Lab Sample ID: 880-25366-11****Date Collected: 02/24/23 09:00****Matrix: Water****Date Received: 03/01/23 16:37**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 07:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47749	03/03/23 13:22	SM	EET MID

Client Sample ID: MW-13**Lab Sample ID: 880-25366-12****Date Collected: 02/24/23 08:30****Matrix: Water****Date Received: 03/01/23 16:37**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 07:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47749	03/03/23 13:22	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Client Sample ID: MW-14
Date Collected: 02/24/23 07:30
Date Received: 03/01/23 16:37

Lab Sample ID: 880-25366-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 08:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47749	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

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Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Chloride
Total BTEX		Water	Total BTEX

- 1
- 2
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- 12
- 13
- 14

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: 14" Vac to Jal

Job ID: 880-25366-1
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
300.0	Anions, Ion Chromatography	EPA	EET MID
5030B	Purge and Trap	SW846	EET MID

Protocol References:

- EPA = US Environmental Protection Agency
- 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: 14" Vac to Jal

Job ID: 880-25366-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25366-1	MW-2	Water	02/24/23 12:00	03/01/23 16:37
880-25366-2	MW-3	Water	02/24/23 10:00	03/01/23 16:37
880-25366-3	MW-4	Water	02/24/23 07:50	03/01/23 16:37
880-25366-4	MW-5	Water	02/24/23 09:50	03/01/23 16:37
880-25366-5	MW-6	Water	02/24/23 10:50	03/01/23 16:37
880-25366-6	MW-7	Water	02/24/23 10:30	03/01/23 16:37
880-25366-7	MW-8	Water	02/24/23 09:30	03/01/23 16:37
880-25366-8	MW-9	Water	02/24/23 08:00	03/01/23 16:37
880-25366-9	MW-10	Water	02/24/23 11:10	03/01/23 16:37
880-25366-10	MW-11	Water	02/24/23 12:30	03/01/23 16:37
880-25366-11	MW-12	Water	02/24/23 09:00	03/01/23 16:37
880-25366-12	MW-13	Water	02/24/23 08:30	03/01/23 16:37
880-25366-13	MW-14	Water	02/24/23 07:30	03/01/23 16:37



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

Work Order No: 25366

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Project Manager:	Joel Lowry	Bill to: (if different)	Camille Bryant
Company Name:	eTech Environmental	Company Name:	Plains All American Pipeline, L.P.
Address:		Address:	1106 Griffith Drive
City, State ZIP:		City, State ZIP:	Midland, TX 79706
Phone:	575-396-2378	Email:	pm@etechenv.com

Work Order Comments	
Program:	UST/PST ☐ PRF ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRF ☐ Level I ☐	
Deliverables EDD ☐ ADaPT ☐ Other	

Project Name:		14" Vac to Jail		Turn Around		ANALYSIS REQUEST																Preservative Codes					
Project Number:		17474		☒ Routine ☐ Rush		Pres. Code																		None NO DI Water: H ₂ O			
Project Location:		Lea County, NM		Due Date:																				Cool Cool MeOH Me			
Sampler's Name:		Zach Carter		TAT starts the day received by the lab, if received by 4:30pm																				HCL HC HNO ₃ : HN			
PO #:		2009-092																						H ₂ SO ₄ H ₂ NaOH: Na			
SAMPLE RECEIPT		Temp Blank: ☒ Yes ☐ No		Wet Ice: ☒ Yes ☐ No																				H ₃ PO ₄ : HP			
Samples Received Intact: ☒ Yes ☐ No		Thermometer ID: <u>IG-4</u>																						NaHSO ₄ : NABIS			
Cooler Custody Seals: ☒ Yes ☐ No <u>N/A</u>		Correction Factor: <u>0.1</u>																						Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals: ☒ Yes ☐ No <u>N/A</u>		Temperature Reading: <u>0.8</u>																						Zn Acetate+NaOH Zn			
Total Containers: <u>40</u>		Corrected Temperature: <u>0.7</u>																						NaOH+Ascorbic Acid SAPC			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments			
MW 2		W	2-24-23	12:00	—	—	4	X	X																		
MW 3		W		10:00	—	—	3	X																			
MW 4		W		7:50	—	—	3	X																			
MW 5		W		9:50	—	—	3	X																			
MW 6		W		10:50	—	—	3	X																			
MW 7		W		10:30	—	—	3	X																			
MW 8		W		9:30	—	—	3	X																			
MW 9		W		8:00	—	—	5	X																			
MW 10		W		11:10	—	—	3	X																			
MW 11		W		12:30	—	—	3	X																			

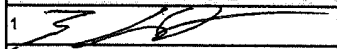
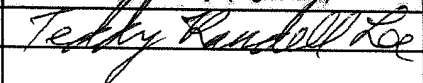
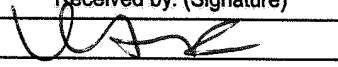


880-25366 Chain of Custody

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 Ti Sn U V Zn
Circle 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 Ti 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)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		3/1/23 6:37			3/2/23
3			4		1229
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Loc: 880
2536€

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-25366-1

SDG Number: Lea County NM

Login Number: 25366

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

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

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

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

CONDITIONS

Action 208277

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID:
	34053
	Action Number: 208277
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	1. Continue monitor and sampling of wells MW-2 through MW-8 quarterly for concentrations of BTEX. MW-2 to be monitored and sampled quarterly for chloride. 2. Continue to gauge and remove PSH in MW-1 on a monthly basis. 3. Groundwater recovery to continue from monitoring wells: MW-3, MW-4, MW-8 on a monthly schedule. 4. Groundwater monitoring wells: MW-9,MW-5, MW-6, MW-11, MW-12, MW-13, MW-14 may be sampled on a semi-annual basis. 5. Results of the 2023 sampling events to be reported in the 2023 Annual Monitoring Report to OCD no later than April 1, 2024.	5/16/2023