

# 2024 Annual Groundwater Monitoring Report

## **Plains All American Pipeline, LP Livingston Ridge to Hugh – P. Sims**

Lea County, New Mexico  
Unit Letter "I", Section 3, Township 21 South, Range 37 East  
Latitude 32.503649° North, Longitude 103.148924° West  
Plains SRS #: 2001-11005  
NMOCD Reference #: 1RP-0398  
**NMOCD Incident ID #: nAPP2109740065**


Prepared By:

### **Etech Environmental & Safety Solutions, Inc.**

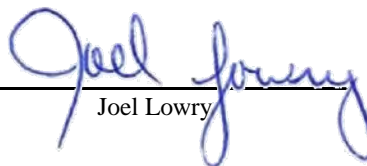
6309 Indiana Ave, Ste. D  
Lubbock, Texas 79413



Kimble Thrash



Ben J. Arguijo



Joel Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

## TABLE OF CONTENTS

1.0 INTRODUCTION & SITE DESCRIPTION.....	1
2.0 BACKGROUND INFORMATION.....	1
3.0 FIELD ACTIVITIES.....	2
3.1 Groundwater Remediation Activities.....	2
3.2 Groundwater Monitoring.....	3
4.0 LABORATORY RESULTS.....	4
5.0 SUMMARY.....	6
6.0 ANTICIPATED ACTIONS.....	7
7.0 LIMITATIONS.....	7
8.0 DISTRIBUTION.....	9

## FIGURES

Figure 1 – Site Location Map

Figure 2A – Inferred Groundwater Gradient Map – 1Q2024

Figure 2B – Inferred Groundwater Gradient Map – 2Q2024

Figure 2C – Inferred Groundwater Gradient Map – 3Q2024

Figure 2D – Inferred Groundwater Gradient Map – 4Q2024

Figure 3A – Groundwater Concentration Map – 1Q2024

Figure 3B – Groundwater Concentration Map – 2Q2024

Figure 3C – Groundwater Concentration Map – 3Q2024

Figure 3D – Groundwater Concentration Map – 4Q2024

## TABLES

Table 1 – Groundwater Elevation & PSH Thickness Summary

Table 2 – Groundwater BTEX Concentration Analytical Summary

Table 3 – MW-1 Recovery Summary

Table 4 – MW-4 Recovery Summary

Table 5 – MW-5 Recovery Summary

Table 6 – MW-12 Recovery Summary

Table 7 – TMW-1R Recovery Summary

## APPENDICES

Appendix A – Laboratory Analytical Reports

## 1.0 INTRODUCTION & SITE DESCRIPTION

Etech Environmental & Safety Solutions (Etech), on behalf of Plains All American Pipeline, LP (Plains), has prepared this 2024 *Annual Groundwater Monitoring Report* for the Livingston Ridge to Hugh – P. Sims 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 1 of each year.

The legal description of Livingston Ridge to Hugh – P. Sims site is Unit Letter “T” (NE/SE), Section 3, Township 21 South, Range 37 East, in Lea County, New Mexico. The property affected by the release is owned by Mr. Hugh P. Sims. The geographic coordinates of the release site are 32.503649° North latitude and 103.148924° West longitude. A “Site Location Map” is provided as Figure 1.

## 2.0 BACKGROUND INFORMATION

Based on information provided by the client, on June 22, 2001, the release of an estimated six (6) barrels (bbls) of crude oil was reported to the NMOCD. Initial excavation activities were conducted by Environmental Plus, Inc. (EPI), in an effort to stockpile saturated soils and expose the release origin to facilitate repair of the pipeline. The pipeline excavation activities continued into July 2001. A total of approximately 148 cubic yards (yd<sup>3</sup>) of hydrocarbon-impacted soil was excavated at the site and transported to EPI’s land-farm south of Eunice, New Mexico. A temporary groundwater monitor well (TMW-1) was installed in the bottom of the excavation. Phase-separated hydrocarbons (PSH) were observed within the shallow groundwater bearing unit at the time of installation. Based on the review of provided documentation, the NMOCD and landowner were immediately notified of the release. EPI installed three (3) groundwater monitor wells at the site to evaluate the magnitude and extent of the release and determine the groundwater gradient.

In August 2002, Environmental Technology Group, Inc. (ETGI), assumed management of remedial activities and installed 13 additional groundwater monitor wells (MW-2 through MW-14) at the site. The wells were installed to complete the delineation activities initiated by EPI. At the time of ETGI’s investigation, the groundwater monitor wells had adequately delineated the hydrocarbon dissolved-phase plume and PSH plume at the site. In 2004, Plains requested EPI manage the remediation and sampling activities.

On February 1, 2007, Terracon assumed project management responsibilities and oversight of groundwater activities associated with the release.

In July 2007, Terracon oversaw the installation of a polyvinyl chloride (PVC) liner on the floor of the excavation and the backfilling of the excavation with remediated soils from the previous land treatment area at the site, in accordance with the NMOCD-approved work plan. Details of these activities can be found in Plains’ *Soil Closure Compliance Report*, dated August 17, 2007.

On October 1, 2018, monitor wells TMW-1 and MW-3 were plugged and abandoned. A replacement monitor well for MW1 (TMW-1R) was installed to evaluate the status of the

groundwater at the site. The monitor well was advanced to a total depth of approximately 45 feet (ft.) below ground surface (bgs). Monitor well TMW-1R is located approximately 65 ft. to the west (cross-gradient) of monitor well MW-1.

On November 2, 2018, West Company, a licensed, Professional Land Surveyor, surveyed monitor well TMW-1R.

In February 2023, Etech, at the request of Plains, assumed project management and oversight responsibilities for groundwater remediation activities at the Livingston Ridge to Hugh – P. Sims release site.

Currently, there are a total of 15 monitor wells on-site: MW-1, MW-2, MW-4 through MW-15, and TMW-1R. Monitor wells MW-2, MW-5, MW-11, and MW-12 are gauged and sampled on a quarterly schedule. Monitor wells MW-6, MW-9, MW-13, MW-14, and MW-15 are sampled on a semi-annual basis. Monitor wells MW-7, MW-8, and MW-10 are on an annual sampling schedule. Monitor wells MW-1, MW-4, and TMW-1R are currently not sampled due to the presence of PSH.

### **3.0 FIELD ACTIVITIES**

#### **3.1 Groundwater Remediation Activities**

Measurable thicknesses of PSH were detected in monitor wells TMW-1R, MW-4, and MW-1 in October 2018, October 2021, and June 2022, respectively. Manual recovery of PSH and dissolved-phase hydrocarbon-impacted groundwater was conducted from wells TMW-1R and MW-4 from 2019 through December 2023. Manual recovery from MW-1 was conducted between February and December 2023. A summary of manual groundwater recovery from the wells through December 2023 is provided in the *2023 Annual Groundwater Monitoring Report*. No manual recovery was conducted from the wells during the 2024 monitoring period.

Monthly Aggressive Fluid Recovery (AFR) events were conducted on monitor wells MW-1, MW-4, MW-5, MW-12, and TMW-1R from February through December 2024 in an effort to control the down- and cross-gradient migration of the dissolved-phase plume. During 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/or PSH. Due to the nature of the recovery method used, it is not possible to accurately determine the exact quantity of PSH recovered.

For monitor well MW-1, an estimated 2,604 gallons (62.0 bbls) of hydrocarbon-impacted groundwater was recovered during the reporting period via a combination of manual recovery and AFR. The average PSH thickness measured in MW-1 during the reporting period was 0.23 feet.

For monitor well MW-4, an estimated 2,667 gallons (63.5 bbls) of hydrocarbon-impacted groundwater was recovered during the reporting period via a combination of manual recovery and AFR. The average PSH thickness measured in MW-4 during the reporting period was 0.14 feet.

For monitor well MW-5, an estimated 846 gallons (20.1 bbls) of hydrocarbon-impacted groundwater was recovered during the reporting period via a combination of manual recovery and AFR. No PSH was detected in MW-5 during the reporting period.

For monitor well MW-12, an estimated 2,488 gallons (59.2 bbls) of hydrocarbon-impacted groundwater was recovered during the reporting period via a combination of manual recovery and AFR. No PSH was detected in MW-5 during the reporting period.

For monitor well TMW-1R, an estimated 3,654 gallons (87.0 bbls) of hydrocarbon-impacted groundwater was recovered during the reporting period via a combination of manual recovery and AFR. The average PSH thickness measured in TMW-1R during the reporting period was 0.37 feet.

An approximate total of 12,259 gallons (292 bbls) of hydrocarbon-impacted groundwater were recovered from the site during the 2024 monitoring period via a combination of manual recovery and AFR. A total of approximately 26,017 gallons (620 bbls) of impacted groundwater have been recovered during AFR events since 2019.

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

Summaries of groundwater recovery volumes and PSH thickness are provided in Tables 3 through 7.

### **3.2 Groundwater Monitoring**

Groundwater monitoring events were conducted on March 20 and 21 (1Q2024); June 20 (2Q2024); September 23 through 25 (3Q2024); and December 12, 2024 (4Q2024). The groundwater monitoring events consisted of measuring static water levels in the on-site monitor wells (MW-1, MW-2, MW-4 through MW-15, and TMW-1R), 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.

Locations of the groundwater monitor wells and the inferred groundwater elevations, which were constructed from measurements collected during the 2024 quarterly sampling events, are depicted in Figures 2A through 2D. The maps indicate a general groundwater gradient of approximately 0.001 to 0.002 feet/foot to the southeast as measured between monitor wells MW-7 and MW-15. Groundwater elevation and PSH thickness data are summarized in Table 1.

Based on sampling criteria provided by the NMOCD, none of the on-site monitor wells were subject to monitoring for polycyclic aromatic hydrocarbons (PAH) during the reporting period.

## **4.0 LABORATORY RESULTS**

Groundwater samples collected from the on-site monitor wells during the quarterly and annual monitoring events were delivered to Permian Basin Environmental Lab (PBEL) and/or Pace Analytical in Midland, Texas, for determination of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and/or PAH constituent concentrations by Environmental Protection Agency (EPA) Method SW846-8021b. A summary of laboratory analytical results is presented in Table 2. 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 reporting period due to the presence of PSH.

### **Monitor Well MW-2**

Laboratory analytical results indicated that benzene, ethylbenzene, and total xylene concentrations were less than the applicable laboratory method detection limit (MDL) in each of the submitted groundwater samples. Toluene concentrations ranged from less than the laboratory MDL in 2Q2024, 3Q2024, and 4Q2024 to 0.00383 mg/L in 1Q2024.

BTEX constituent concentrations were less than NMOCD regulatory standards in each of the submitted groundwater samples.

### **Monitor Well MW-3**

Laboratory analytical results indicated BTEX constituent concentrations were less than the applicable laboratory MDL and less than NMOCD regulatory standards in each of the submitted groundwater samples.

### **Monitor Well MW-4**

Monitor well MW-4 was not sampled during the reporting period due to the presence of PSH.

### **Monitor Well MW-5**

Laboratory analytical results indicated that benzene concentrations ranged from less than the laboratory MDL in 1Q2024, 2Q2024, and 3Q2024 to 0.00354 mg/L in 4Q2024. Toluene concentrations ranged from less than the laboratory MDL in 1Q2024, 2Q2024, and 3Q2024 to 0.00165 mg/L in 4Q2024. Ethylbenzene concentrations ranged from less than the laboratory MDL in 1Q2024, 2Q2024, and 3Q2024 to 0.00203 mg/L in 4Q2024. Total xylene concentrations ranged from less than the laboratory MDL in 1Q2024, 2Q2024, and 3Q2024 to 0.00112 mg/L in 4Q2024.

BTEX constituent concentrations were less than NMOCD regulatory standards in each of the submitted groundwater samples.

#### **Monitor Well MW-6**

Laboratory analytical results indicated that benzene concentrations ranged from less than the laboratory MDL in 3Q2024 to 0.000243 mg/L in 3Q2024. Toluene, ethylbenzene, and total xylene concentrations were less than the applicable laboratory MDL in each of the submitted groundwater samples.

BTEX constituent concentrations were less than NMOCD regulatory standards in each of the submitted groundwater samples.

#### **Monitor Well MW-7**

Laboratory analytical results indicated BTEX constituent concentrations were less than the applicable laboratory MDL and less than NMOCD regulatory standards in each of the submitted groundwater samples.

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

Laboratory analytical results indicated BTEX constituent concentrations were less than the applicable laboratory MDL and less than NMOCD regulatory standards in each of the submitted groundwater samples.

#### **Monitor Well MW-9**

Laboratory analytical results indicated BTEX constituent concentrations were less than the applicable laboratory MDL and less than NMOCD regulatory standards in each of the submitted groundwater samples.

#### **Monitor Well MW-10**

Laboratory analytical results indicated BTEX constituent concentrations were less than the applicable laboratory MDL and less than NMOCD regulatory standards in each of the submitted groundwater samples.

#### **Monitor Well MW-11**

Laboratory analytical results indicated that benzene, toluene, and ethylbenzene concentrations were less than the applicable laboratory MDL in each of the submitted groundwater samples. Total xylene concentrations ranged from less than the laboratory MDL in 2Q2024, 3Q2024, and 4Q2024 to 0.00141 mg/L in 1Q2024.

BTEX constituent concentrations were less than NMOCD regulatory standards in each of the submitted groundwater samples.



**Monitor Well MW-12**

Laboratory analytical results indicated that benzene, toluene, and ethylbenzene concentrations were less than the laboratory MDL in each of the submitted groundwater samples. Total xylene concentrations ranged from less than the laboratory MDL in 2Q2024, 3Q2024, and 4Q2024 to 0.00148 mg/L in 1Q2024.

BTEX constituent concentrations were less than NMOCD regulatory standards in each of the submitted groundwater samples.

**Monitor Well MW-13**

Laboratory analytical results indicated that benzene, toluene, and ethylbenzene concentrations were less than the laboratory MDL in each of the submitted groundwater samples. Total xylene concentrations ranged from less than the laboratory MDL in 2Q2024, 3Q2024, and 4Q2024 to 0.00306 mg/L in 1Q2024.

BTEX constituent concentrations were less than NMOCD regulatory standards in each of the submitted groundwater samples.

**Monitor Well MW-14**

Laboratory analytical results indicated BTEX constituent concentrations were less than the applicable laboratory MDL and less than NMOCD regulatory standards in each of the submitted groundwater samples.

**Monitor Well MW-15**

Laboratory analytical results indicated BTEX constituent concentrations were less than the applicable laboratory MDL and less than NMOCD regulatory standards in each of the submitted groundwater samples.

**Monitor well TMW-1R**

Monitor well TMW-1R was not sampled during the reporting period due to the presence of PSH.

**5.0 SUMMARY**

This report presents the results of groundwater monitoring activities for the 2024 annual monitoring period. Currently, there are 15 groundwater monitor wells (MW-1, MW-2, MW-4 through MW-15, and TMW-1R) on-site.

A measurable thickness of PSH was detected in monitor wells WM-1, MW-4 and TWM-1R throughout the 2024 reporting period. Average PSH thickness ranged from 0.14 feet in monitor well MW-4 to 0.37 feet in monitor well TMW-1R.



An approximate total of 12,259 gallons (292 bbls) of hydrocarbon-impacted groundwater were recovered from the site during the 2024 monitoring period via a combination of manual recovery and AFR. A total of approximately 26,017 gallons (620 bbls) of impacted groundwater have been recovered during AFR events since 2019.

Groundwater monitoring events were conducted on March 20 and 21 (1Q2024); June 20 (2Q2024); September 23 through 25 (3Q2024); and December 12, 2024 (4Q2024). Monitor wells MW-2, MW-5, MW-11, and MW-12 were gauged and sampled during all four (4) quarters of the monitoring period. Monitor wells MW-6 through MW-10, MW-13, MW-14, and MW-15 were sampled during 1Q2024 and 3Q2024. Monitor wells MW-1, MW-4, and TMW-1R were not sampled due to the presence of PSH.

Review of laboratory analytical results from groundwater samples collected during the reporting period indicated that BTEX constituent concentrations were less than NMOCD regulatory standards in all submitted groundwater samples.

None of the on-site monitor wells were subject to PAH monitoring during the reporting period.

Groundwater gauging data collected during the monitoring period indicates a general gradient of approximately 0.001 to 0.002 feet/foot to the southeast as measured between monitor wells MW-7 and MW-15.

## **6.0 ANTICIPATED ACTIONS**

Monitor well MW-5 will continue to be monitored and sampled quarterly for concentrations of BTEX. Monitor wells MW-6, MW-9, MW-13, MW-14, and MW-15 will continue to be sampled on a semi-annual basis. Monitor wells MW-7, MW-8, and MW-10 will be sampled annually.

Since monitor wells MW-2, 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 semi-annually (i.e., twice per year).

Monthly AFR will continue from monitor wells MW-1, MW-4, MW-5, MW-12, and TMW-1R in an effort to control the down-gradient migration of the dissolved-phase and free-phase plumes.

Results of the 2025 sampling and recovery events will be reported in the *2025 Annual Monitoring Report*, which will be submitted to the NMOCD by April 1, 2026.

## **7.0 LIMITATIONS**

Etech Environmental & Safety Solutions, Inc., has prepared this *2024 Annual Groundwater Monitoring Report* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of

these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

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

## **8.0 DISTRIBUTION**

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

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

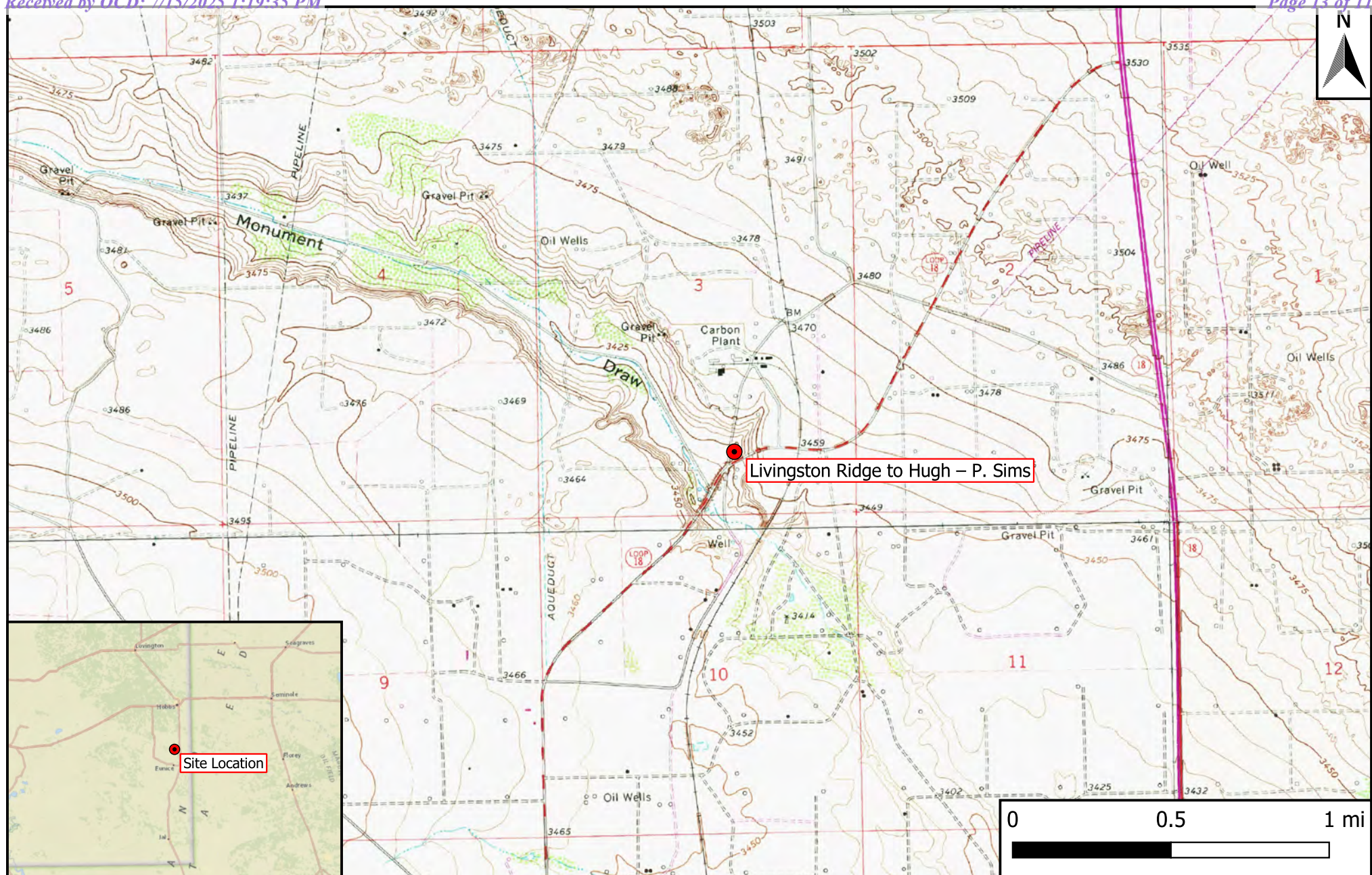
***Karolanne Hudgens***  
***Plains All American Pipeline, LP***  
*333 Clay Street, Suite 1600*  
*Houston, Texas 77002*

*(Electronic Submission)*

## **Figure 1**

### **Site Location Map**





## Legend

- Site Location

## Figure 1

Site Location Map  
 Plains All American Pipeline, LP  
 Livingston Ridge to Hugh - P. Sims  
 GPS: 32.503649,-103.148924  
 Lea County, New Mexico



Drafted: bja

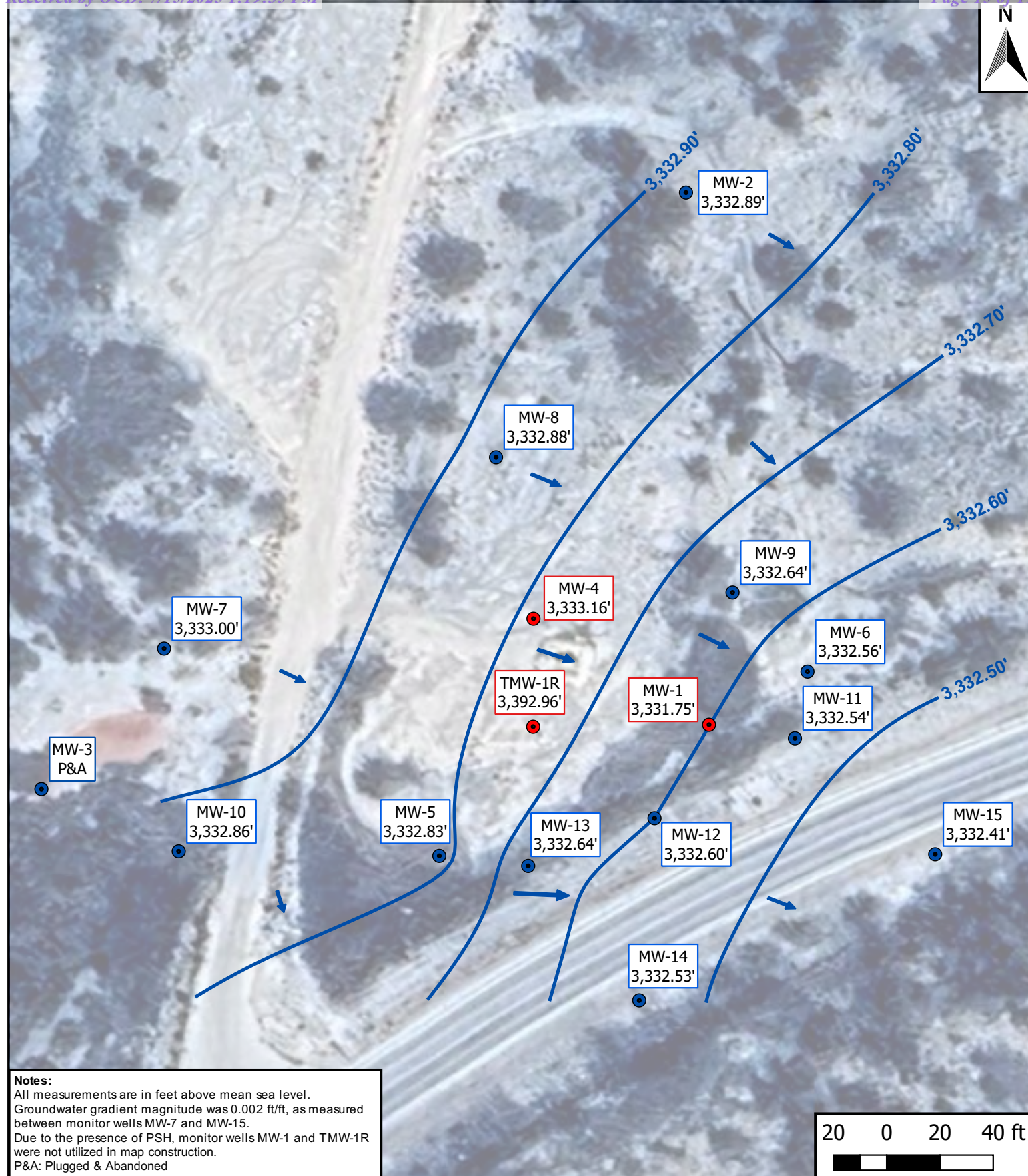
Checked: jwl

Date: 3/13/25

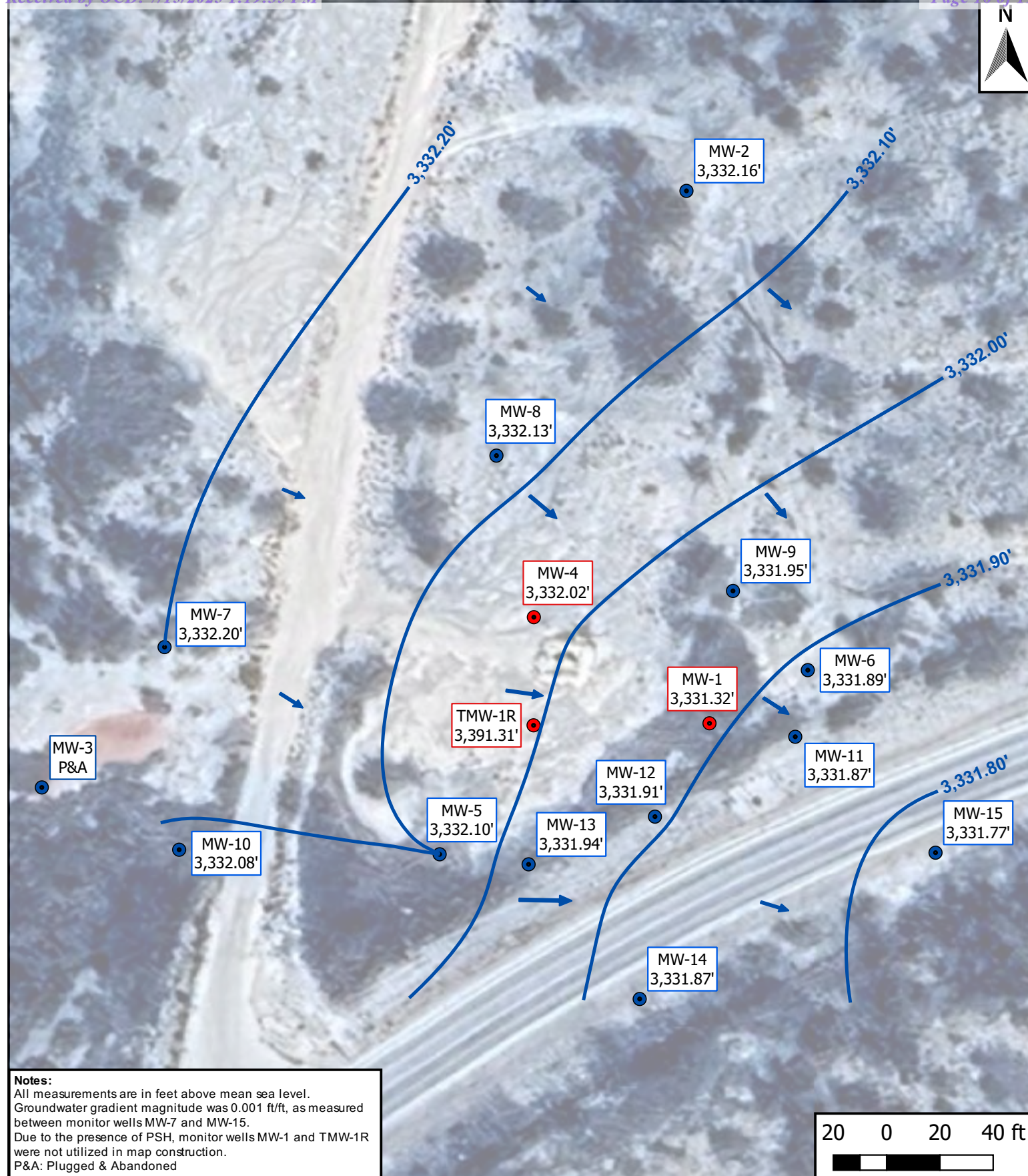
## **Figures 2A–2D**

### **Inferred Groundwater Gradient Maps**

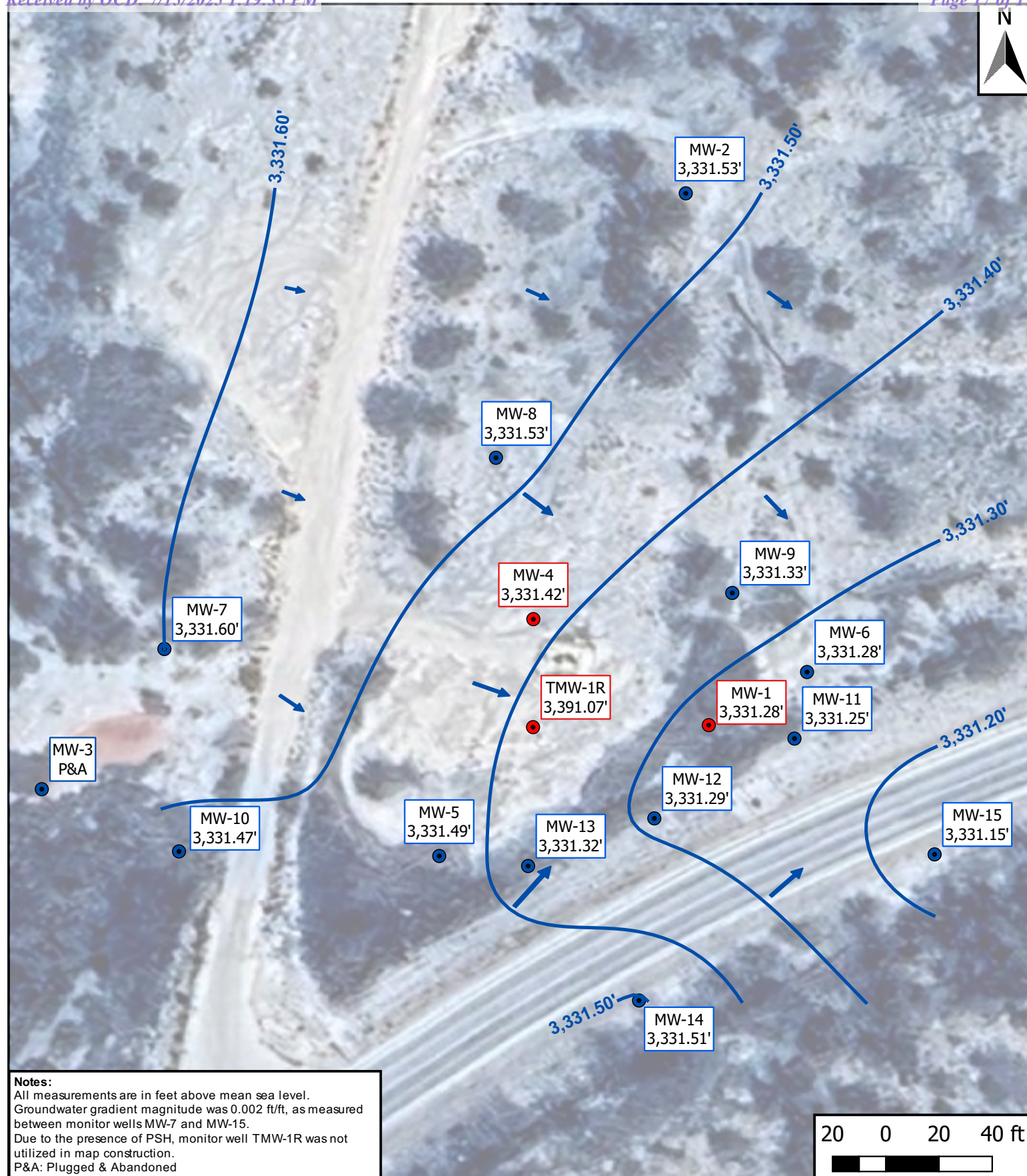










**Legend**

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

**Figure 2C**

Inferred Groundwater Gradient Map – 3Q2024  
 Plains All American Pipeline, LP  
 Livingston Ridge to Hugh – P. Sims  
 GPS: 32.503649, -103.148924  
 Lea County, New Mexico

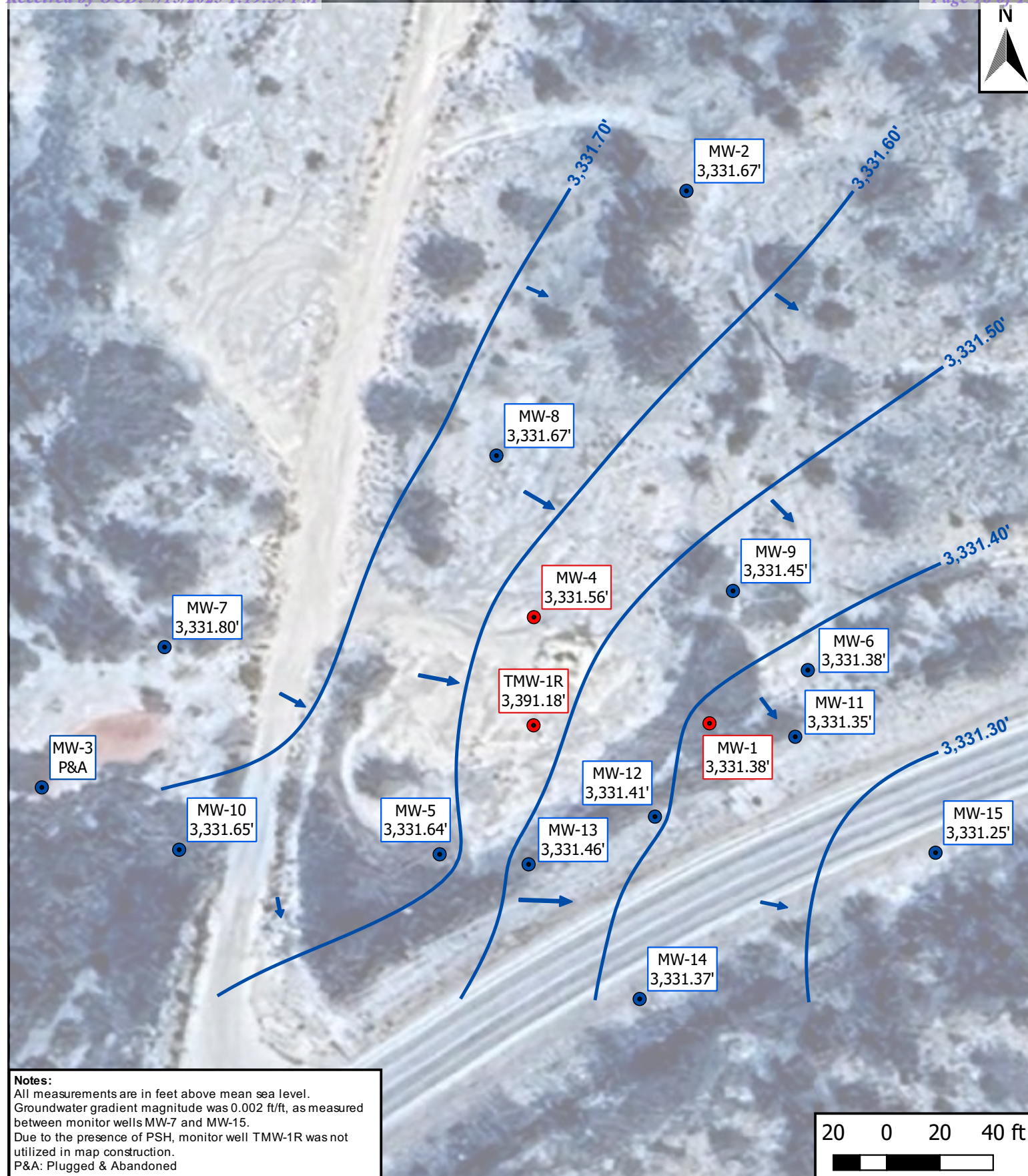


Drafted: bja

Checked: jwl

Date: 11/18/24



**Legend**

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

**Figure 2D**

Inferred Groundwater Gradient Map – 4Q2024  
 Plains All American Pipeline, LP  
 Livingston Ridge to Hugh – P. Sims  
 GPS: 32.503649, -103.148924  
 Lea County, New Mexico



Drafted: bja

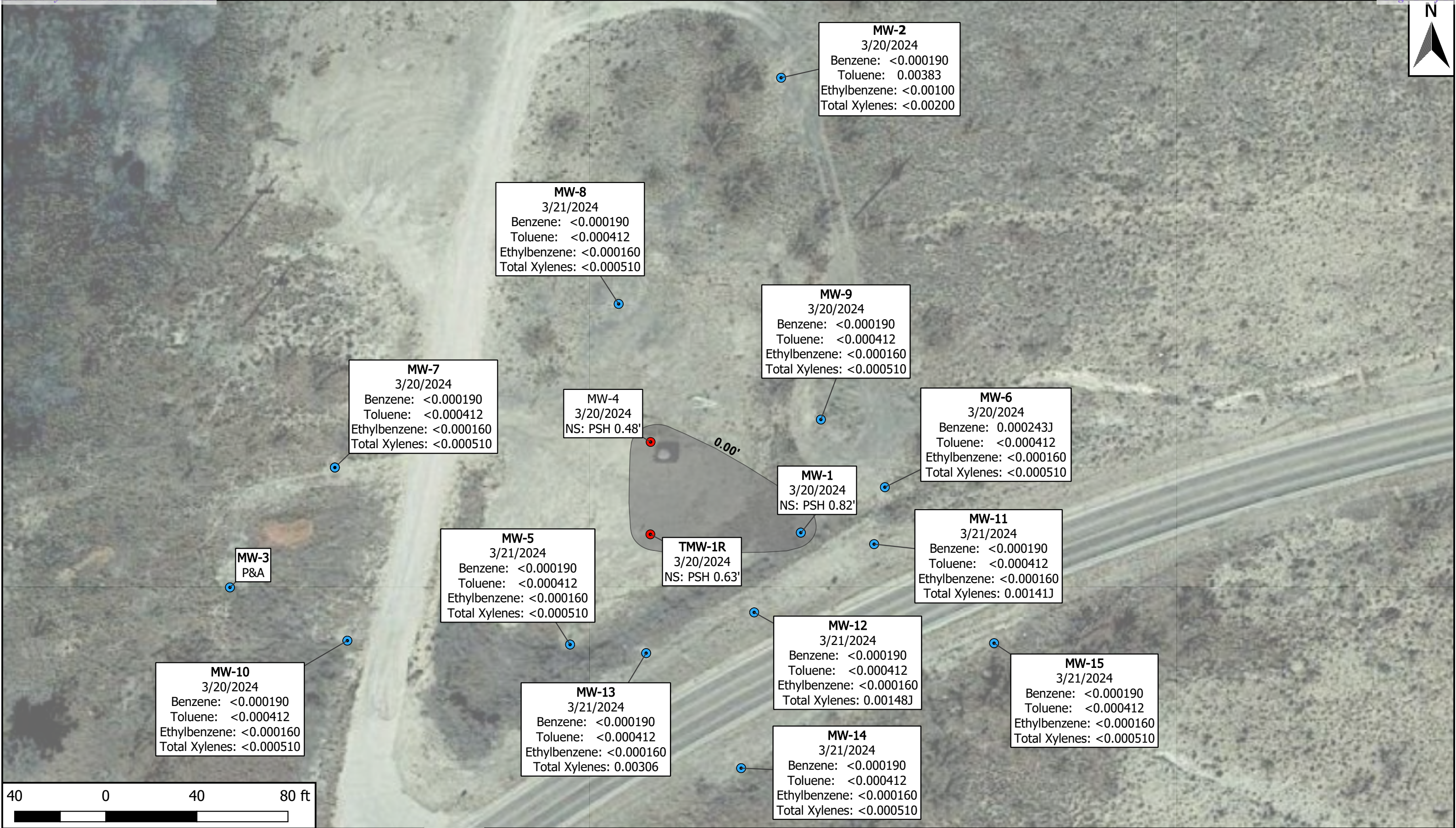
Checked: jwl

Date: 3/3/25

## **Figures 3A–3D**

### **Groundwater Concentration Maps**





**Notes:**  
All concentrations are reported in mg/L.  
Concentrations in **BOLD** exceeded NMOCD regulatory limits.  
NS: Not Sampled  
P&A: Plugged & Abandoned  
Monitor wells MW-1, MW-4, and TMW-1R were not sampled due to the presence of PSH.  
J: The target analyte was positively identified below the quantitation limit and above the detection limit.

**Legend**

- Monitor Well
- Recovery Well
- PSH Extent

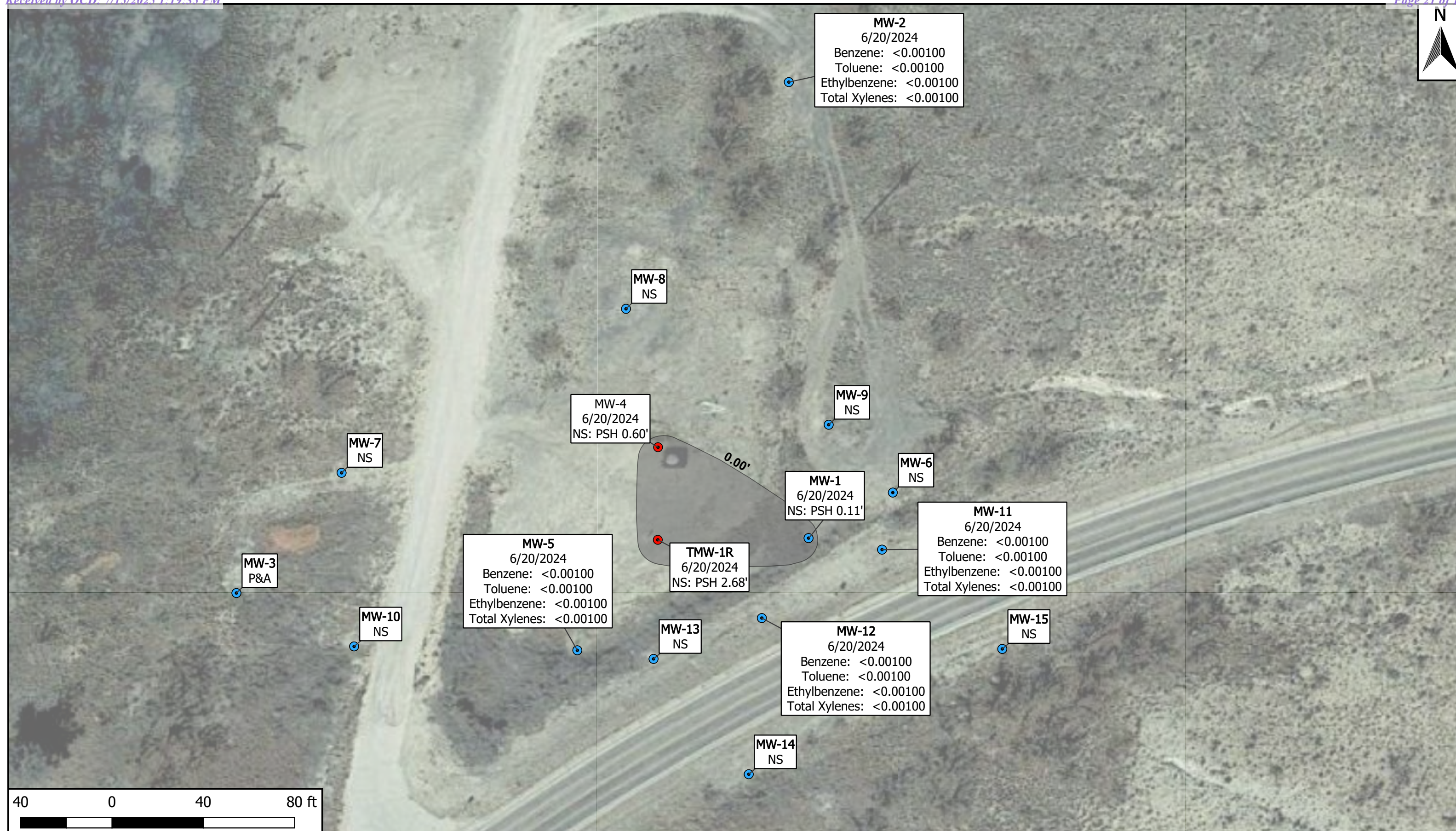
**Figure 3A**  
**Groundwater Concentration Map – 1Q2024**  
**Plains All American Pipeline, LP**  
**Livingston Ridge to Hugh – P. Sims**  
**GPS: 32.503649, -103.148924**  
**Lea County, New Mexico**



**Environmental & Safety Solutions, Inc.**

Drafted: bja      Checked: jwl      Date: 5/9/2024





**Notes:**  
All concentrations are reported in mg/L.  
Concentrations in **BOLD** exceeded NMOCD regulatory limits.  
NS: Not Sampled  
P&A: Plugged & Abandoned  
Monitor wells MW-1, MW-4, and TMW-1R were not sampled due to the presence of PSH.

**Legend**  
● Monitor Well  
● Recovery Well  
■ PSH Extent

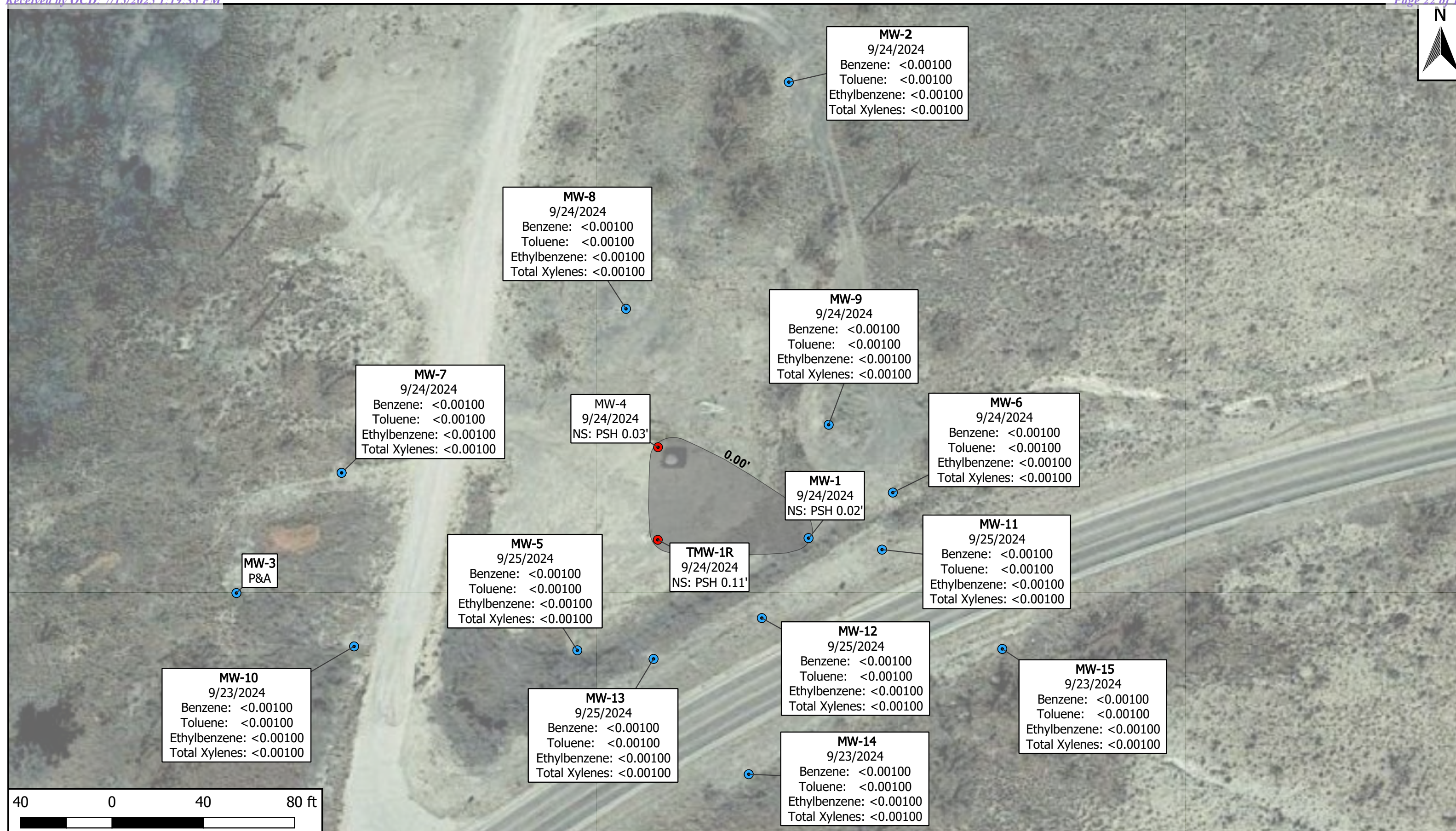
**Figure 3B**  
**Groundwater Concentration Map – 2Q2024**  
**Plains All American Pipeline, LP**  
**Livingston Ridge to Hugh – P. Sims**  
**GPS: 32.503649, -103.148924**  
**Lea County, New Mexico**



**Environmental & Safety Solutions, Inc.**

Drafted: bja      Checked: jwl      Date: 7/22/2024





**Notes:**  
All concentrations are reported in mg/L.  
Concentrations in **BOLD** exceeded NMOCD regulatory limits.  
NS: Not Sampled  
P&A: Plugged & Abandoned  
Monitor wells MW-1, MW-4, and TMW-1R were not sampled due to the presence of PSH.

**Legend**

- Monitor Well
- Recovery Well
- PSH Extent

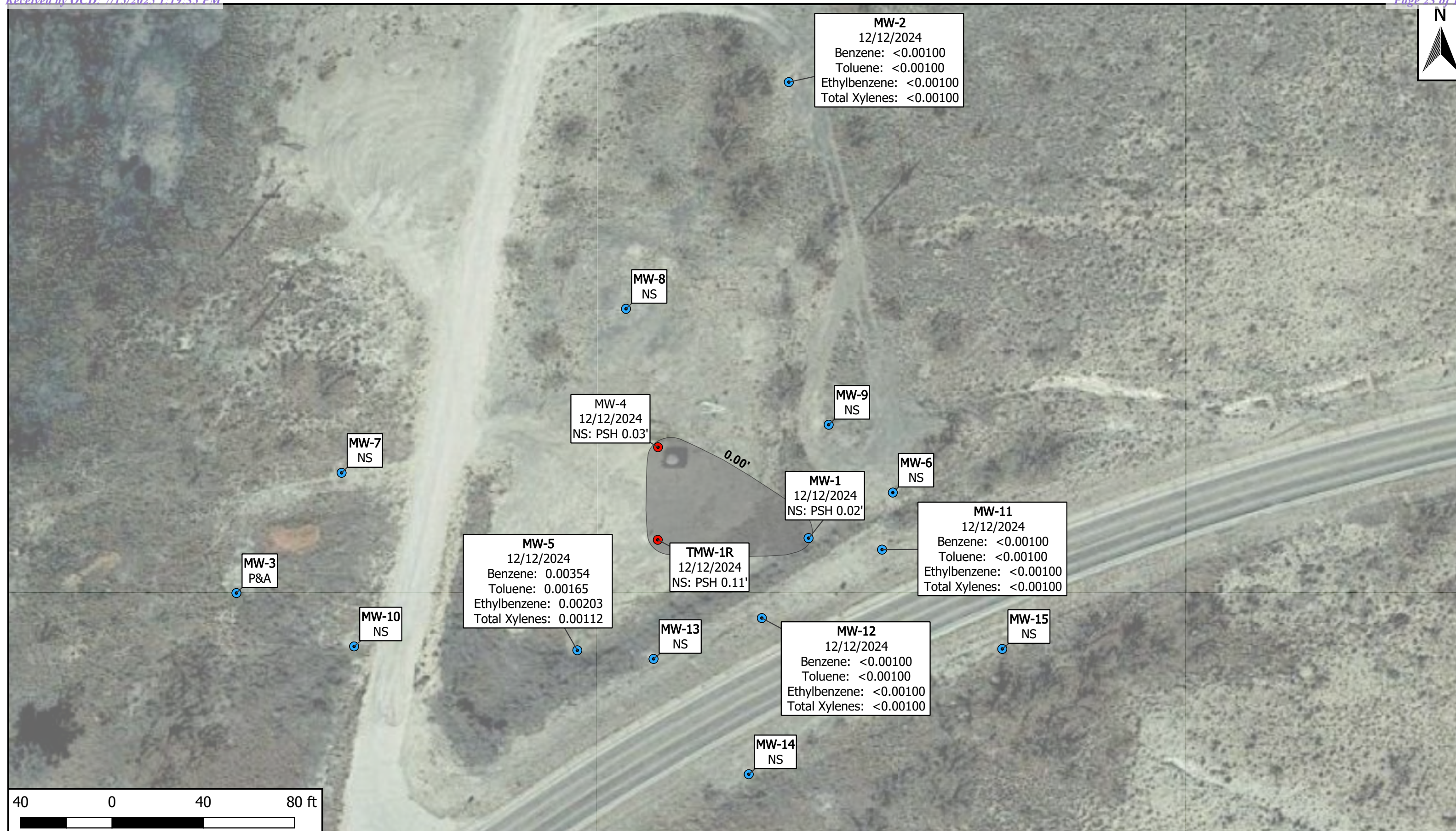
**Figure 3C**  
**Groundwater Concentration Map – 3Q2024**  
**Plains All American Pipeline, LP**  
**Livingston Ridge to Hugh – P. Sims**  
**GPS: 32.503649, -103.148924**  
**Lea County, New Mexico**



**ETECH**  
*Environmental & Safety Solutions, Inc.*

Drafted: bja      Checked: jwl      Date: 11/18/2024





**Notes:**  
All concentrations are reported in mg/L.  
Concentrations in **BOLD** exceeded NMOCD regulatory limits.  
NS: Not Sampled  
P&A: Plugged & Abandoned  
Monitor wells MW-1, MW-4, and TMW-1R were not sampled due to the presence of PSH.

**Legend**

- Monitor Well
- Recovery Well
- PSH Extent

**Figure 3D**  
**Groundwater Concentration Map – 4Q2024**  
**Plains All American Pipeline, LP**  
**Livingston Ridge to Hugh – P. Sims**  
**GPS: 32.503649, -103.148924**  
**Lea County, New Mexico**



**Environmental & Safety Solutions, Inc.**

Drafted: bja      Checked: jwl      Date: 3/4/2025



## **Tables 1–7**

**Table 1**  
**Groundwater Elevation & PSH<sup>1</sup> Thickness Summary**

**Livingston Ridge to Hugh – P. Sims**  
**Lea County, New Mexico**  
**Plains SRS #: 2001-11005**  
**Etech Project #: 17476**  
**NMOCD<sup>2</sup> Incident ID #: nAPP2109740065**

*All measurements are in feet above mean sea level*

Well ID	Date Gauged	Top of Casing (TOC) <sup>3</sup> Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation**
MW-1	03/28/2023	3,374.23	40.78	42.77	1.99	3,331.46
	06/28/2023		40.76	42.89	2.13	3,331.34
	09/21/2023		41.08	42.86	1.79	3,331.37
	12/21/2023		41.69	42.93	1.24	3,331.30
	03/20/2024		41.66	42.48	0.82	3,331.75
	06/20/2024		42.31	42.91	0.60	3,331.32
	09/24/2024		42.93	42.95	0.02	3,331.28
	12/12/2024		42.83	42.85	0.02	3,331.38
MW-2	03/28/2023	3,378.27	-	44.69	-	3,333.58
	06/28/2023		-	45.23	-	3,333.04
	09/21/2023		-	45.17	-	3,333.10
	12/21/2023		-	45.60	-	3,332.67
	03/20/2024		-	45.38	-	3,332.89
	06/20/2024		-	46.11	-	3,332.16
	09/23/2024		-	46.74	-	3,331.53
	12/12/2024		-	46.60	-	3,331.67
MW-3	10/01/2018	3,367.36	Plugged & Abandoned			
MW-4	03/28/2023	3,372.73	39.23	40.26	1.03	3,333.35
	06/28/2023		39.49	40.29	0.80	3,333.12
	09/21/2023		39.61	40.42	0.80	3,333.00
	12/21/2023		40.12	40.70	0.58	3,332.52
	03/20/2024		39.50	39.98	0.48	3,333.16
	06/20/2024		40.69	40.80	0.11	3,332.02
	09/24/2024		41.30	41.38	0.08	3,331.42
	12/12/2024		41.17	41.20	0.03	3,331.56
MW-5	03/28/2023	3,370.92	-	37.44	-	3,333.48
	06/28/2023		-	37.97	-	3,332.95
	09/21/2023		-	37.90	-	3,333.02
	12/21/2023		-	38.29	-	3,332.63
	03/21/2024		-	38.09	-	3,332.83
	06/20/2024		-	38.82	-	3,332.10
	09/25/2024		-	39.43	-	3,331.49
	12/12/2024		-	39.28	-	3,331.64
MW-6	03/28/2023	3,377.02	-	43.80	-	3,333.22
	06/28/2023		-	44.31	-	3,332.71
	09/21/2023		-	44.26	-	3,332.76
	12/21/2023		-	44.68	-	3,332.34
	03/20/2024		-	44.46	-	3,332.56
	06/20/2024		-	45.13	-	3,331.89
	09/24/2024		-	45.74	-	3,331.28
	12/12/2024		-	45.64	-	3,331.38

**Notes:**

1. PSH: Phase Separated Hydrocarbons
  2. NMOCD: New Mexico Oil Conservation Division
  3. TOC: Top of Casing
- \* Elevations based on the North American Vertical Datum of 1988.  
 \*\* Corrected groundwater elevations were extrapolated using a PSH specific gravity of 0.85, if PSH was gauged in the monitor well.

**Table 1**  
**Groundwater Elevation & PSH<sup>1</sup> Thickness Summary**

**Livingston Ridge to Hugh – P. Sims**  
**Lea County, New Mexico**  
**Plains SRS #: 2001-11005**  
**Etech Project #: 17476**  
**NMOCD<sup>2</sup> Incident ID #: nAPP2109740065**

*All measurements are in feet above mean sea level*

Well ID	Date Gauged	Top of Casing (TOC) <sup>3</sup> Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation**
MW-7	03/28/2023	3,369.47	-	35.84	-	3,333.63
	06/28/2023		-	36.43	-	3,333.04
	09/21/2023		-	36.32	-	3,333.15
	12/21/2023		-	36.70	-	3,332.77
	03/20/2024		-	36.47	-	3,333.00
	06/20/2024		-	37.27	-	3,332.20
	09/24/2024		-	37.87	-	3,331.60
	12/12/2024		-	37.67	-	3,331.80
MW-8	03/28/2023	3,373.77	-	40.30	-	3,333.47
	06/28/2023		-	40.73	-	3,333.04
	09/21/2023		-	40.71	-	3,333.06
	12/21/2023		-	41.11	-	3,332.66
	03/21/2024		-	40.89	-	3,332.88
	06/20/2024		-	41.64	-	3,332.13
	09/24/2024		-	42.24	-	3,331.53
	12/12/2024		-	42.10	-	3,331.67
MW-9	03/28/2023	3,375.92	-	42.62	-	3,333.30
	06/28/2023		-	43.08	-	3,332.84
	09/21/2023		-	43.06	-	3,332.86
	12/21/2023		-	43.49	-	3,332.43
	03/20/2024		-	43.28	-	3,332.64
	06/20/2024		-	43.97	-	3,331.95
	09/24/2024		-	44.59	-	3,331.33
	12/12/2024		-	44.47	-	3,331.45
MW-10	03/28/2023	3,370.17	-	36.66	-	3,333.51
	06/28/2023		-	37.24	-	3,332.93
	09/21/2023		-	37.14	-	3,333.03
	12/21/2023		-	37.52	-	3,332.65
	03/20/2024		-	37.31	-	3,332.86
	06/20/2024		-	38.09	-	3,332.08
	09/23/2024		-	38.70	-	3,331.47
	12/12/2024		-	38.52	-	3,331.65
MW-11	03/28/2023	3,373.96	-	41.21	-	3,332.75
	06/28/2023		-	41.30	-	3,332.66
	09/21/2023		-	41.38	-	3,332.58
	12/21/2023		-	41.63	-	3,332.33
	03/21/2024		-	41.42	-	3,332.54
	06/20/2024		-	42.09	-	3,331.87
	09/25/2024		-	42.71	-	3,331.25
	12/12/2024		-	42.61	-	3,331.35

**Notes:**

1. PSH: Phase Separated Hydrocarbons

2. NMOCD: New Mexico Oil Conservation Division

3. TOC: Top of Casing

\* Elevations based on the North American Vertical Datum of 1988.

\*\* Corrected groundwater elevations were extrapolated using a PSH specific gravity of 0.85, if PSH was gauged in the monitor well.

**Table 1**  
**Groundwater Elevation & PSH<sup>1</sup> Thickness Summary**

**Livingston Ridge to Hugh – P. Sims**  
**Lea County, New Mexico**  
**Plains SRS #: 2001-11005**  
**Etech Project #: 17476**  
**NMOCD<sup>2</sup> Incident ID #: nAPP2109740065**

*All measurements are in feet above mean sea level*

Well ID	Date Gauged	Top of Casing (TOC) <sup>3</sup> Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation**
MW-12	03/28/2023	3,372.41	-	39.14	-	3,333.27
	06/28/2023		-	39.66	-	3,332.75
	09/21/2023		-	39.61	-	3,332.80
	12/21/2023		-	40.02	-	3,332.39
	03/21/2024		-	39.81	-	3,332.60
	06/20/2024		-	40.50	-	3,331.91
	09/25/2024		-	41.12	-	3,331.29
	12/12/2024		-	41.00	-	3,331.41
MW-13	03/28/2023	3,368.91	-	35.61	-	3,333.30
	06/28/2023		-	36.11	-	3,332.80
	09/21/2023		-	36.06	-	3,332.85
	12/21/2023		-	36.47	-	3,332.44
	03/21/2024		-	36.27	-	3,332.64
	06/20/2024		-	36.97	-	3,331.94
	09/25/2024		-	37.59	-	3,331.32
	12/12/2024		-	37.45	-	3,331.46
MW-14	03/28/2023		-	35.40	-	3,336.14
	06/28/2023		-	38.86	-	3,332.68
	09/21/2023		-	37.82	-	3,333.72
	12/21/2023		-	39.20	-	3,332.34
	03/21/2024		-	39.01	-	3,332.53
	06/20/2024		-	39.67	-	3,331.87
	09/23/2024		-	40.03	-	3,331.51
	12/12/2024		-	40.17	-	3,331.37
MW-15	03/28/2023	3,377.64	-	44.90	-	3,332.74
	06/28/2023		-	45.02	-	3,332.62
	09/21/2023		-	45.11	-	3,332.53
	12/21/2023		-	45.41	-	3,332.23
	03/21/2024		-	45.23	-	3,332.41
	06/20/2024		-	45.87	-	3,331.77
	09/23/2024		-	46.49	-	3,331.15
	12/12/2024		-	46.39	-	3,331.25
TMW-1	10/01/2018	Plugged & Abandoned				
TMW-1R	03/28/2023	3,431.82	38.63	39.97	1.34	3,392.99
	06/28/2023		38.82	40.50	1.68	3,392.75
	09/21/2023		38.97	40.57	1.60	3,392.61
	12/21/2023		39.46	41.24	1.78	3,392.09
	03/20/2024		38.77	39.40	0.63	3,392.96
	06/20/2024		40.11	42.79	2.68	3,391.31
	09/24/2024		40.74	40.80	0.06	3,391.07
	12/12/2024		40.62	40.73	0.11	3,391.18

**Notes:**

1. PSH: Phase Separated Hydrocarbons

2. NMOCD: New Mexico Oil Conservation Division

3. TOC: Top of Casing

\* Elevations based on the North American Vertical Datum of 1988.

\*\* Corrected groundwater elevations were extrapolated using a PSH specific gravity of 0.85, if PSH was gauged in the monitor well.

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

**Livingston Ridge to Hugh – P. Sims**  
**Lea County, New Mexico**  
**Plains SRS #: 2001-11005**  
**Etech Project #: 17476**  
**NMOCD<sup>2</sup> Incident ID #: nAPP2109740065**

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

Well ID		Date Sampled	EPA SW846-8021B						
			Benzene	Toluene	Ethylbenzene	M,P-Xylenes	O-Xylenes	Total Xylenes	Total BTEX
NMOCD RRAL CRITERIA <sup>3</sup>			0.01	0.75	0.75	TOTAL XYLENES 0.62			NE <sup>4</sup>
MW-1	03/28/2023	Not Sampled Due to Phase Separated Hydrocarbons							
	06/28/2023								
	09/21/2023								
	12/21/2023								
	03/20/2024								
	06/20/2024								
	09/24/2024								
12/12/2024									
MW-2	03/28/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	
	06/28/2023	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	
	09/21/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	
	12/21/2023	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510	
	03/20/2024	<0.000190	0.00383	<0.000160	-	-	<0.000510	0.00383	
	06/20/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	
	09/24/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	
12/12/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100		
MW-3	10/01/2018	Plugged & Abandoned							
MW-4	03/28/2023	Not Sampled Due to Phase Separated Hydrocarbons							
	06/28/2023								
	09/21/2023								
	12/21/2023								
	03/20/2024								
	06/20/2024								
	09/24/2024								
12/12/2024									
MW-5	03/28/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	
	06/28/2023	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	
	09/21/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	
	12/21/2023	0.000834	<0.000412	<0.000160	-	-	<0.000510	0.000834	
	03/21/2024	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510	
	06/20/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	
	09/25/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	
12/12/2024	0.00354	0.00165	0.00203	<0.00200	0.00112	0.00112	0.00834		
MW-6	03/28/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	
	06/28/2023	Well Not Sampled (Reduced Sampling Schedule)							
	09/21/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	
	12/21/2023	Well Not Sampled (Reduced Sampling Schedule)							
	03/20/2024	0.000243J	<0.000412	<0.000160	-	-	<0.000510	0.000243	
	06/20/2024	Well Not Sampled (Reduced Sampling Schedule)							
	09/24/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	
12/12/2024	Well Not Sampled (Reduced Sampling Schedule)								
MW-7	03/28/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	
	06/28/2023	Well Not Sampled (Reduced Sampling Schedule)							
	09/21/2023								
	12/21/2023								
	03/20/2024	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510	
	06/20/2024	Well Not Sampled (Reduced Sampling Schedule)							
	09/24/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	
12/12/2024	Well Not Sampled (Reduced Sampling Schedule)								

**Notes:**

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

2. NMOCD: New Mexico Oil Conservation Division

3. RRAL Criteria: Recommended Remediation Action Level Criteria

4. NE: Not Established

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

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

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

**Livingston Ridge to Hugh – P. Sims**  
**Lea County, New Mexico**  
**Plains SRS #: 2001-11005**  
**Etech Project #: 17476**  
**NMOCD<sup>2</sup> Incident ID #: nAPP2109740065**

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

Well ID	Date Sampled	EPA SW846-8021B													
		Benzene	Toluene	Ethylbenzene	M,P-Xylenes	O-Xylenes	Total Xylenes	Total BTEX							
NMOCD RRAL CRITERIA <sup>3</sup>		0.01	0.75	0.75	TOTAL XYLENES 0.62			NE <sup>4</sup>							
MW-8	03/28/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200							
	06/28/2023	Well Not Sampled (Reduced Sampling Schedule)													
	09/21/2023														
	12/21/2023														
	03/21/2024	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510							
	06/20/2024	Well Not Sampled (Reduced Sampling Schedule)													
	09/24/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100							
	12/12/2024	Well Not Sampled (Reduced Sampling Schedule)													
MW-9	03/28/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200							
	06/28/2023	Well Not Sampled (Reduced Sampling Schedule)													
	09/21/2023								<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	
	12/21/2023								Well Not Sampled (Reduced Sampling Schedule)						
	03/20/2024	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510							
	06/20/2024	Well Not Sampled (Reduced Sampling Schedule)													
	09/24/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100							
	12/12/2024	Well Not Sampled (Reduced Sampling Schedule)													
MW-10	03/28/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200							
	06/28/2023	Well Not Sampled (Reduced Sampling Schedule)													
	09/21/2023														
	12/21/2023														
	03/20/2024	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510							
	06/20/2024	Well Not Sampled (Reduced Sampling Schedule)													
	09/23/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100							
	12/12/2024	Well Not Sampled (Reduced Sampling Schedule)													
MW-11	03/29/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200							
	06/28/2023	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500							
	09/21/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100							
	12/21/2023	<0.000190	<0.000412	<0.000160	-	-	0.00107	0.00107							
	03/21/2024	<0.000190	<0.000412	<0.000160	-	-	0.00141J	0.00141							
	06/20/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100							
	09/25/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100							
	12/12/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100							
MW-12	03/29/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200							
	06/28/2023	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500							
	09/21/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	0.000570							
	12/21/2023	0.000235	<0.000412	<0.000160	-	-	0.00245	0.00269							
	03/21/2024	<0.000190	<0.000412	<0.000160	-	-	0.00148J	0.00148							
	06/20/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100							
	09/25/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100							
	12/12/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100							
MW-13	03/29/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200							
	06/28/2023	Well Not Sampled (Reduced Sampling Schedule)													
	09/21/2023								<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	0.000720	0.00142
	12/21/2023								Well Not Sampled (Reduced Sampling Schedule)						
	03/21/2024	<0.000190	<0.000412	<0.000160	-	-	0.00306	0.00306							
	06/20/2024	Well Not Sampled (Reduced Sampling Schedule)													
	09/25/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100							
	12/12/2024	Well Not Sampled (Reduced Sampling Schedule)													

**Notes:**

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

2. NMOCD: New Mexico Oil Conservation Division

3. RRAL Criteria: Recommended Remediation Action Level Criteria

4. NE: Not Established

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

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



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

**Livingston Ridge to Hugh – P. Sims**  
**Lea County, New Mexico**  
**Plains SRS #: 2001-11005**  
**Etech Project #: 17476**  
**NMOCD<sup>2</sup> Incident ID #: nAPP2109740065**

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

Air concentrations are in milligrams per liter (mg/L)								
Well ID	Date Sampled	EPA SW846-8021B						
		Benzene	Toluene	Ethylbenzene	M,P-Xylenes	O-Xylenes	Total Xylenes	Total BTEX
NMOCD RRAL CRITERIA <sup>3</sup>		0.01	0.75	0.75	TOTAL XYLENES 0.62			NE <sup>4</sup>
MW-14	03/29/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	06/28/2023	Not Sampled (Semi-Annual Schedule)						
	09/21/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
	12/21/2023	Not Sampled (Semi-Annual Schedule)						
	03/21/2024	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
	06/20/2024	Not Sampled (Semi-Annual Schedule)						
	09/23/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
	12/12/2024	Not Sampled (Semi-Annual Schedule)						
MW-15	03/29/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	06/28/2023	Not Sampled (Semi-Annual Schedule)						
	09/21/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
	12/21/2023	Not Sampled (Semi-Annual Schedule)						
	03/21/2024	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
	06/20/2024	Not Sampled (Semi-Annual Schedule)						
	09/23/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
		12/12/2024	Not Sampled (Semi-Annual Schedule)					
TMW-1	10/01/2018	Plugged & Abandoned						
TMW-1R	03/28/2023	Not Sampled Due to Phase Separated Hydrocarbons						
	06/28/2023							
	09/21/2023							
	12/21/2023							
	03/20/2024							
	06/20/2024							
	09/23/2024							
	12/12/2024							

**Notes:**

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

2. NMOCD: New Mexico Oil Conservation Division

3. RRAL Criteria: Recommended Remediation Action Level Criteria

4. NE: Not Established

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

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

**Table 3**  
**MW-1 Recovery Summary**

**Livingston Ridge to Hugh – P. Sims**  
**Lea County, New Mexico**  
**Plains SRS #: 2001-11005**  
**Etech Project #: 17476**  
**NMOCD<sup>1</sup> Incident ID #: nAPP2109740065**

*All elevations are measured in feet above mean sea level*

Well ID	Date	Top of Casing (TOC) <sup>2</sup> Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH <sup>3</sup> Thickness (feet)	Corrected Groundwater Elevation**	Total Fluid Recovery <sup>†</sup> (Gallons)
MW-1	03/20/2024	3,374.23	41.66	42.48	0.82	3,332.45	-
	03/27/2024		41.57	42.57	1.00	3,332.51	210
	04/16/2024		41.46	41.65	0.19	3,332.74	126
	05/21/2024		42.03	42.39	0.36	3,332.15	252
	06/20/2024		42.31	42.91	0.60	3,331.83	336
	06/25/2024		42.39	42.46	0.07	3,331.83	-
	07/30/2024		42.46	42.51	0.05	3,331.76	336
	08/20/2024		42.84	42.86	0.02	3,331.39	336
	09/23/2024		42.93	42.95	0.02	3,331.30	-
	09/26/2024		42.95	42.96	0.01	3,331.28	252
	10/22/2024		43.05	43.07	0.02	3,331.18	252
	11/20/2024		42.97	42.98	0.01	3,331.26	252
	12/12/2024		42.83	42.85	0.02	3,331.40	-
	12/17/2024		42.81	42.83	0.02	3,331.42	252
2024 Average PSH Thickness					0.23	2024 Total	2,604

**Notes:**

1. NMOCD = New Mexico Oil Conservation Division

2. TOC = Top Of Casing

3. 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 monitor well.

† Via Aggressive Fluid Recovery (AFR) and/or Manual Recovery.

**Table 4**  
**MW-4 Recovery Summary**

**Livingston Ridge to Hugh – P. Sims**  
**Lea County, New Mexico**  
**Plains SRS #: 2001-11005**  
**Etech Project #: 17476**  
**NMOCD<sup>1</sup> Incident ID #: nAPP2109740065**

*All elevations are measured in feet above mean sea level*

Well ID	Date	Top of Casing (TOC) <sup>2</sup> Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH Thickness <sup>3</sup> (Feet)	Corrected Groundwater Elevation**	Total Fluid Recovery <sup>†</sup> (Gallons)
MW-4	02/19/2024	3,372.73	39.44	39.75	0.31	3,333.24	63.0
	03/20/2024		39.50	39.98	0.48	3,333.16	-
	03/27/2024		39.84	40.00	0.16	3,332.87	210
	04/16/2024		40.00	40.50	0.50	3,332.66	126
	05/21/2024		40.41	40.61	0.20	3,332.29	252
	06/20/2024		40.69	40.80	0.11	3,332.02	-
	06/25/2024		40.77	40.80	0.03	3,331.96	336
	07/30/2024		40.82	40.84	0.02	3,331.91	336
	08/20/2024		41.22	41.24	0.02	3,331.51	336
	09/23/2024		41.30	41.38	0.08	3,331.42	-
	09/26/2024		41.32	41.34	0.02	3,331.41	252
	10/22/2024		41.42	41.50	0.08	3,331.30	252
	11/20/2024		41.31	41.36	0.05	3,331.41	252
	12/12/2024		41.17	41.20	0.03	3,331.56	-
	12/17/2024		41.15	41.19	0.04	3,331.57	252
2024 Average PSH Thickness					0.14	2024 Total	2,667

**Notes:**

1. NMOCD = New Mexico Oil Conservation Division

2. TOC = Top Of Casing

3. 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 monitor well.

† Via Aggressive Fluid Recovery (AFR) and/or Manual Recovery.

**Table 5**  
**MW-5 Recovery Summary**

**Livingston Ridge to Hugh – P. Sims**  
**Lea County, New Mexico**  
**Plains SRS #: 2001-11005**  
**Etech Project #: 17476**  
**NMOCD<sup>1</sup> Incident ID #: nAPP2109740065**

*All elevations are measured in feet above mean sea level*

Well ID	Date	Top of Casing (TOC) <sup>2</sup> Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH <sup>3</sup> Thickness (Feet)	Corrected Groundwater Elevation**	Total Fluid Recovery <sup>†</sup> (Gallons)
MW-5	02/19/2024	3,370.92	-	38.13	0.00	3,332.79	63.0
	03/21/2024		-	38.09	0.00	3,332.83	6.67
	03/28/2024		-	38.12	0.00	3,332.80	210
	04/17/2024		-	38.13	0.00	3,332.79	126
	05/22/2024		-	38.58	0.00	3,332.34	126
	06/20/2024		-	38.82	0.00	3,332.10	6.73
	06/26/2024		-	38.86	0.00	3,332.06	42.0
	07/31/2024		-	39.17	0.00	3,331.75	42.0
	08/21/2024		-	39.35	0.00	3,331.57	42.0
	09/23/2024		-	39.43	0.00	3,331.49	6.78
	09/27/2024		-	39.42	0.00	3,331.50	42.0
	10/23/2024		-	39.55	0.00	3,331.37	42.0
	11/21/2024		-	39.46	0.00	3,331.46	42.0
	12/12/2024		-	39.28	0.00	3,331.64	6.77
	12/18/2024		-	39.30	0.00	3,331.62	42.0
2024 Average PSH Thickness					0.00	2024 Total	846

**Notes:**

1. NMOCD = New Mexico Oil Conservation Division

2. TOC = Top Of Casing

3. 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 monitor well.

† Via Aggressive Fluid Recovery (AFR) and/or Manual Recovery.

**Table 6**  
**MW-12 Recovery Summary**

**Livingston Ridge to Hugh – P. Sims**  
**Lea County, New Mexico**  
**Plains SRS #: 2001-11005**  
**Etech Project #: 17476**  
**NMOCD<sup>1</sup> Incident ID #: nAPP2109740065**

*All elevations are measured in feet above mean sea level*

All elevations are measured in feet above mean sea level.							
Well ID	Date	Top of Casing (TOC) <sup>2</sup> Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH Thickness <sup>3</sup> (Feet)	Corrected Groundwater Elevation**	Total Fluid Recovery <sup>†</sup> (Gallons)
MW-12	02/19/2024	3,372.41	-	39.88	0.00	3,332.53	63.0
	03/21/2024		-	39.81	0.00	3,332.60	7.59
	03/28/2024		-	39.83	0.00	3,332.58	210
	04/17/2024		-	39.84	0.00	3,332.57	126
	05/22/2024		-	40.47	0.00	3,331.94	210
	06/20/2024		-	40.50	0.00	3,331.91	7.64
	06/26/2024		-	40.53	0.00	3,331.88	336
	07/31/2024		-	40.85	0.00	3,331.56	336
	08/21/2024		-	41.00	0.00	3,331.41	336
	09/23/2024		-	41.12	0.00	3,331.29	7.70
	09/27/2024		-	41.12	0.00	3,331.29	210
	10/23/2024		-	41.23	0.00	3,331.18	210
	11/21/2024		-	41.15	0.00	3,331.26	210
	12/12/2024		-	41.00	0.00	3,331.41	7.69
	12/18/2024		-	41.01	0.00	3,331.40	210
2024 Average PSH Thickness					0.00	2024 Total	2,488

**Notes:**

1. NMOCD = New Mexico Oil Conservation Division

2. TOC = Top Of Casing

3. 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 monitor well.

† Via Aggressive Fluid Recovery (AFR) and/or Manual Recovery.

**Table 7**  
**TMW-1R Recovery Summary**

**Livingston Ridge to Hugh – P. Sims**  
**Lea County, New Mexico**  
**Plains SRS #: 2001-11005**  
**Etech Project #: 17476**  
**NMOCD<sup>1</sup> Incident ID #: nAPP2109740065**

*All elevations are measured in feet above mean sea level*

All elevations are measured in feet above mean sea level							
Well ID	Date	Top of Casing (TOC) <sup>2</sup> Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH <sup>3</sup> Thickness (feet)	Corrected Groundwater Elevation**	Total Fluid Recovery <sup>†</sup> (Gallons)
TMW-1R	02/19/2024	3,431.82	39.44	39.75	0.31	3,392.33	210
	03/20/2024		38.77	39.40	0.63	3,392.96	-
	03/27/2024		39.45	39.76	0.31	3,392.32	210
	04/16/2024		39.40	39.59	0.19	3,392.39	252
	05/21/2024		39.84	40.05	0.21	3,391.95	378
	06/20/2024		40.11	42.79	2.68	3,391.31	-
	06/25/2024		40.15	40.39	0.24	3,391.63	420
	07/30/2024		40.27	40.45	0.18	3,391.52	420
	08/20/2024		40.66	40.72	0.06	3,391.15	420
	09/23/2024		40.74	40.8	0.06	3,391.07	-
	09/26/2024		40.70	40.74	0.04	3,391.11	336
	10/22/2024		40.91	41.09	0.18	3,390.88	336
	11/20/2024		40.79	40.95	0.16	3,391.01	336
	12/12/2024		40.62	40.73	0.11	3,391.18	-
	12/17/2024		40.15	40.28	0.13	3,391.65	336
2024 Average PSH Thickness					0.37	2024 Total	3,654

**Notes:**

1. NMOCD = New Mexico Oil Conservation Division

2. TOC = Top Of Casing

3. 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 monitor well.

† Via Aggressive Fluid Recovery (AFR) and/or Manual Recovery.

## **Appendix A**

### **Laboratory Analytical Reports**





## ANALYTICAL REPORT

April 03, 2024

**Plains All American Pipeline - ETECH**

Sample Delivery Group: L1718435  
Samples Received: 03/23/2024  
Project Number: SRS #2001-11005  
Description: Livingston Ridge - Hugh P. Sims  
Site: SRS #2001-11005  
Report To: Kimble Thrash  
PO Box 62228  
Midland, TX 79711

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

Entire Report Reviewed By:

A handwritten signature in blue ink, reading "Lori Vahrenkamp".

Lori A Vahrenkamp  
Project Manager

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

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

Cp: Cover Page	1	<sup>1</sup> Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	<sup>2</sup> Tc
Cn: Case Narrative	5	
Sr: Sample Results	6	<sup>3</sup> Ss
MW-2 L1718435-01	6	
MW-5 L1718435-02	7	<sup>4</sup> Cn
MW-6 L1718435-03	8	<sup>5</sup> Sr
MW-7 L1718435-04	9	
MW-8 L1718435-05	10	<sup>6</sup> Qc
MW-9 L1718435-06	11	
MW-10 L1718435-07	12	<sup>7</sup> Gl
MW-11 L1718435-08	13	<sup>8</sup> Al
MW-12 L1718435-09	14	
MW-13 L1718435-10	15	<sup>9</sup> Sc
MW-14 L1718435-11	16	
MW-15 L1718435-12	17	
DUP-1 L1718435-13	18	
DUP-2 L1718435-14	19	
TRIP BLANK L1718435-15	20	
Qc: Quality Control Summary	21	
Volatile Organic Compounds (GC) by Method 8021B	21	
Gl: Glossary of Terms	24	
Al: Accreditations & Locations	25	
Sc: Sample Chain of Custody	26	

MW-2 L1718435-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2258885	1	04/03/24 01:28	04/03/24 01:28	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

Collected date/time  
03/20/24 16:00

Received date/time  
03/23/24 09:00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

MW-5 L1718435-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2258885	1	04/03/24 01:50	04/03/24 01:50	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

Collected date/time  
03/21/24 12:00

Received date/time  
03/23/24 09:00

MW-6 L1718435-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2255746	1	03/28/24 19:22	03/28/24 19:22	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

Collected date/time  
03/20/24 16:30

Received date/time  
03/23/24 09:00

MW-7 L1718435-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2255746	1	03/28/24 19:45	03/28/24 19:45	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

Collected date/time  
03/20/24 17:15

Received date/time  
03/23/24 09:00

MW-8 L1718435-05 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2255746	1	03/28/24 20:08	03/28/24 20:08	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

Collected date/time  
03/21/24 12:35

Received date/time  
03/23/24 09:00

MW-9 L1718435-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2255746	1	03/28/24 20:31	03/28/24 20:31	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

Collected date/time  
03/20/24 15:20

Received date/time  
03/23/24 09:00

MW-10 L1718435-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2255746	1	03/28/24 20:54	03/28/24 20:54	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

Collected date/time  
03/20/24 17:30

Received date/time  
03/23/24 09:00

MW-11 L1718435-08 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2255746	1	03/28/24 21:16	03/28/24 21:16	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

Collected date/time  
03/21/24 14:15

Received date/time  
03/23/24 09:00

MW-12 L1718435-09 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2258885	1	04/03/24 02:13	04/03/24 02:13	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

Collected date/time  
03/21/24 13:00

Received date/time  
03/23/24 09:00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

MW-13 L1718435-10 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2255750	1	03/28/24 14:00	03/28/24 14:00	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

Collected date/time  
03/21/24 14:50

Received date/time  
03/23/24 09:00

<sup>4</sup>Cn

<sup>5</sup>Sr

MW-14 L1718435-11 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2255750	1	03/28/24 14:23	03/28/24 14:23	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

Collected date/time  
03/21/24 15:15

Received date/time  
03/23/24 09:00

<sup>6</sup>Qc

<sup>7</sup>Gl

MW-15 L1718435-12 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2255750	1	03/28/24 14:45	03/28/24 14:45	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

Collected date/time  
03/21/24 15:45

Received date/time  
03/23/24 09:00

<sup>8</sup>Al

<sup>9</sup>Sc

DUP-1 L1718435-13 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2255750	1	03/28/24 15:08	03/28/24 15:08	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

Collected date/time  
03/21/24 13:01

Received date/time  
03/23/24 09:00

DUP-2 L1718435-14 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2255750	1	03/28/24 15:31	03/28/24 15:31	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

Collected date/time  
03/21/24 14:16

Received date/time  
03/23/24 09:00

TRIP BLANK L1718435-15 GW

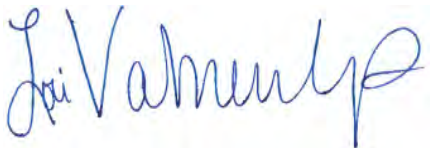
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2255750	1	03/28/24 13:15	03/28/24 13:15	CDD	Mt. Juliet, TN

Collected by  
Robert Peters

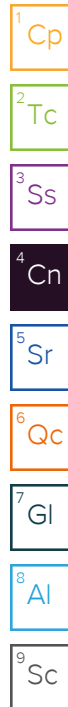
Collected date/time  
03/20/24 00:00

Received date/time  
03/23/24 09:00

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



Lori A Vahrenkamp  
Project Manager



Collected date/time: 03/20/24 16:00

L1718435

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	04/03/2024 01:28	<a href="#">WG2258885</a>
Toluene	0.00383	B	0.000412	0.00100	1	04/03/2024 01:28	<a href="#">WG2258885</a>
Ethylbenzene	U		0.000160	0.000500	1	04/03/2024 01:28	<a href="#">WG2258885</a>
Total Xylene	U		0.000510	0.00150	1	04/03/2024 01:28	<a href="#">WG2258885</a>
(S) a,a,a-Trifluorotoluene(PID)	92.3			79.0-125		04/03/2024 01:28	<a href="#">WG2258885</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 03/21/24 12:00

L1718435

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	04/03/2024 01:50	<a href="#">WG2258885</a>
Toluene	U		0.000412	0.00100	1	04/03/2024 01:50	<a href="#">WG2258885</a>
Ethylbenzene	U		0.000160	0.000500	1	04/03/2024 01:50	<a href="#">WG2258885</a>
Total Xylene	U		0.000510	0.00150	1	04/03/2024 01:50	<a href="#">WG2258885</a>
(S) a,a,a-Trifluorotoluene(PID)	92.2			79.0-125		04/03/2024 01:50	<a href="#">WG2258885</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/20/24 16:30

L1718435

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000243	J	0.000190	0.000500	1	03/28/2024 19:22	<a href="#">WG2255746</a>
Toluene	U		0.000412	0.00100	1	03/28/2024 19:22	<a href="#">WG2255746</a>
Ethylbenzene	U		0.000160	0.000500	1	03/28/2024 19:22	<a href="#">WG2255746</a>
Total Xylene	U		0.000510	0.00150	1	03/28/2024 19:22	<a href="#">WG2255746</a>
(S) a,a,a-Trifluorotoluene(PID)	99.3			79.0-125		03/28/2024 19:22	<a href="#">WG2255746</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/20/24 17:15

L1718435

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/28/2024 19:45	<a href="#">WG2255746</a>
Toluene	U		0.000412	0.00100	1	03/28/2024 19:45	<a href="#">WG2255746</a>
Ethylbenzene	U		0.000160	0.000500	1	03/28/2024 19:45	<a href="#">WG2255746</a>
Total Xylene	U		0.000510	0.00150	1	03/28/2024 19:45	<a href="#">WG2255746</a>
(S) a,a,a-Trifluorotoluene(PID)	99.8			79.0-125		03/28/2024 19:45	<a href="#">WG2255746</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/21/24 12:35

L1718435

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/28/2024 20:08	<a href="#">WG2255746</a>
Toluene	U		0.000412	0.00100	1	03/28/2024 20:08	<a href="#">WG2255746</a>
Ethylbenzene	U		0.000160	0.000500	1	03/28/2024 20:08	<a href="#">WG2255746</a>
Total Xylene	U		0.000510	0.00150	1	03/28/2024 20:08	<a href="#">WG2255746</a>
(S) a,a,a-Trifluorotoluene(PID)	99.8			79.0-125		03/28/2024 20:08	<a href="#">WG2255746</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/20/24 15:20

L1718435

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/28/2024 20:31	<a href="#">WG2255746</a>
Toluene	U		0.000412	0.00100	1	03/28/2024 20:31	<a href="#">WG2255746</a>
Ethylbenzene	U		0.000160	0.000500	1	03/28/2024 20:31	<a href="#">WG2255746</a>
Total Xylene	U		0.000510	0.00150	1	03/28/2024 20:31	<a href="#">WG2255746</a>
(S) a,a,a-Trifluorotoluene(PID)	100			79.0-125		03/28/2024 20:31	<a href="#">WG2255746</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/20/24 17:30

L1718435

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/28/2024 20:54	<a href="#">WG2255746</a>
Toluene	U		0.000412	0.00100	1	03/28/2024 20:54	<a href="#">WG2255746</a>
Ethylbenzene	U		0.000160	0.000500	1	03/28/2024 20:54	<a href="#">WG2255746</a>
Total Xylene	U		0.000510	0.00150	1	03/28/2024 20:54	<a href="#">WG2255746</a>
(S) a,a,a-Trifluorotoluene(PID)	101			79.0-125		03/28/2024 20:54	<a href="#">WG2255746</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 03/21/24 14:15

L1718435

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/28/2024 21:16	<a href="#">WG2255746</a>
Toluene	U		0.000412	0.00100	1	03/28/2024 21:16	<a href="#">WG2255746</a>
Ethylbenzene	U		0.000160	0.000500	1	03/28/2024 21:16	<a href="#">WG2255746</a>
Total Xylene	0.00141	J	0.000510	0.00150	1	03/28/2024 21:16	<a href="#">WG2255746</a>
(S) a,a,a-Trifluorotoluene(PID)	99.6			79.0-125		03/28/2024 21:16	<a href="#">WG2255746</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/21/24 13:00

L1718435

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	04/03/2024 02:13	<a href="#">WG2258885</a>
Toluene	U		0.000412	0.00100	1	04/03/2024 02:13	<a href="#">WG2258885</a>
Ethylbenzene	U		0.000160	0.000500	1	04/03/2024 02:13	<a href="#">WG2258885</a>
Total Xylene	0.00148	J	0.000510	0.00150	1	04/03/2024 02:13	<a href="#">WG2258885</a>
(S) a,a,a-Trifluorotoluene(PID)	92.1			79.0-125		04/03/2024 02:13	<a href="#">WG2258885</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/21/24 14:50

L1718435

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/28/2024 14:00	<a href="#">WG2255750</a>
Toluene	U		0.000412	0.00100	1	03/28/2024 14:00	<a href="#">WG2255750</a>
Ethylbenzene	U		0.000160	0.000500	1	03/28/2024 14:00	<a href="#">WG2255750</a>
Total Xylene	0.00306		0.000510	0.00150	1	03/28/2024 14:00	<a href="#">WG2255750</a>
(S) a,a,a-Trifluorotoluene(PID)	93.5			79.0-125		03/28/2024 14:00	<a href="#">WG2255750</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/21/24 15:15

L1718435

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/28/2024 14:23	<a href="#">WG2255750</a>
Toluene	U		0.000412	0.00100	1	03/28/2024 14:23	<a href="#">WG2255750</a>
Ethylbenzene	U		0.000160	0.000500	1	03/28/2024 14:23	<a href="#">WG2255750</a>
Total Xylene	U		0.000510	0.00150	1	03/28/2024 14:23	<a href="#">WG2255750</a>
(S) a,a,a-Trifluorotoluene(PID)	92.9			79.0-125		03/28/2024 14:23	<a href="#">WG2255750</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/21/24 15:45

L1718435

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/28/2024 14:45	<a href="#">WG2255750</a>
Toluene	U		0.000412	0.00100	1	03/28/2024 14:45	<a href="#">WG2255750</a>
Ethylbenzene	U		0.000160	0.000500	1	03/28/2024 14:45	<a href="#">WG2255750</a>
Total Xylene	U		0.000510	0.00150	1	03/28/2024 14:45	<a href="#">WG2255750</a>
(S) a,a,a-Trifluorotoluene(PID)	92.6			79.0-125		03/28/2024 14:45	<a href="#">WG2255750</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 03/21/24 13:01

L1718435

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/28/2024 15:08	<a href="#">WG2255750</a>
Toluene	U		0.000412	0.00100	1	03/28/2024 15:08	<a href="#">WG2255750</a>
Ethylbenzene	U		0.000160	0.000500	1	03/28/2024 15:08	<a href="#">WG2255750</a>
Total Xylene	U		0.000510	0.00150	1	03/28/2024 15:08	<a href="#">WG2255750</a>
(S) a,a,a-Trifluorotoluene(PID)	91.0			79.0-125		03/28/2024 15:08	<a href="#">WG2255750</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/21/24 14:16

L1718435

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/28/2024 15:31	<a href="#">WG2255750</a>
Toluene	U		0.000412	0.00100	1	03/28/2024 15:31	<a href="#">WG2255750</a>
Ethylbenzene	U		0.000160	0.000500	1	03/28/2024 15:31	<a href="#">WG2255750</a>
Total Xylene	0.000701	J	0.000510	0.00150	1	03/28/2024 15:31	<a href="#">WG2255750</a>
(S) a,a,a-Trifluorotoluene(PID)	92.6			79.0-125		03/28/2024 15:31	<a href="#">WG2255750</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/20/24 00:00

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/28/2024 13:15	<a href="#">WG2255750</a>
Toluene	U		0.000412	0.00100	1	03/28/2024 13:15	<a href="#">WG2255750</a>
Ethylbenzene	U		0.000160	0.000500	1	03/28/2024 13:15	<a href="#">WG2255750</a>
Total Xylene	U		0.000510	0.00150	1	03/28/2024 13:15	<a href="#">WG2255750</a>
(S) a,a,a-Trifluorotoluene(PID)	93.2			79.0-125		03/28/2024 13:15	<a href="#">WG2255750</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4052792-4 03/28/24 12:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	101			79.0-125

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R4052792-1 03/28/24 10:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0511	102	77.0-122	
Toluene	0.0500	0.0502	100	80.0-121	
Ethylbenzene	0.0500	0.0518	104	80.0-123	
Total Xylene	0.150	0.154	103	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			99.4	79.0-125	

Volatile Organic Compounds (GC) by Method 8021B [L1718435-10,11,12,13,14,15](#)

Method Blank (MB)

(MB) R4051135-3 03/28/24 12:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	93.9			79.0-125

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R4051135-1 03/28/24 11:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0485	97.0	77.0-122	
Toluene	0.0500	0.0452	90.4	80.0-121	
Ethylbenzene	0.0500	0.0510	102	80.0-123	
Total Xylene	0.150	0.142	94.7	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			91.1	79.0-125	

Method Blank (MB)

(MB) R4053159-1 04/02/24 21:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	0.000599	U	0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	95.0			79.0-125

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R4053159-2 04/02/24 19:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0507	101	77.0-122	
Toluene	0.0500	0.0437	87.4	80.0-121	
Ethylbenzene	0.0500	0.0498	99.6	80.0-123	
Total Xylene	0.150	0.137	91.3	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			89.5	79.0-125	



Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

QualifierDescription

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn


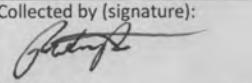
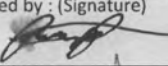
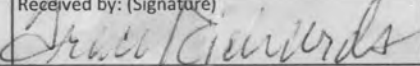
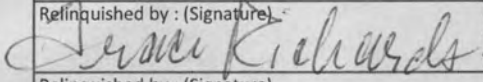
<sup>5</sup>Sr

<sup>6</sup>Qc


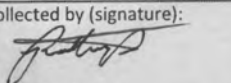
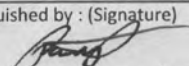
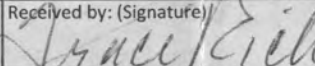
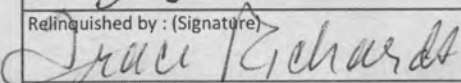
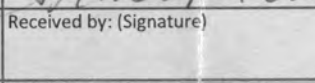
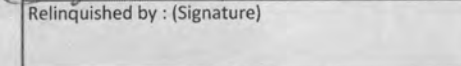
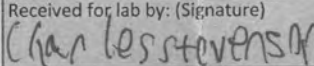
<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Company Name/Address: <b>Plains All American Pipeline - ETECH</b>  PO Box 62228 Midland, TX 79711				Billing Information: <b>Accounts Payable</b> 333 Clay St Suite 1600 Houston, TX 77002				Pres Chk		Analysis / Container / Preservative								Chain of Custody Page <u>1</u> of <u>2</u>	
Report to: <b>Kimble Thrash</b>				Email To: camille.bryant@plains.com;karolanne.hudgens@plains.com														 <b>MT JULIET, TN</b> 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <a href="https://info.pacelabs.com/hubfs/pas-standard-terms.pdf">https://info.pacelabs.com/hubfs/pas-standard-terms.pdf</a> SDG # <b>1718435</b> <b>H130</b> Acctnum: <b>PLAINSETECH</b> Template: <b>T242882</b> Prelogin: <b>P1061385</b> PM: <b>3587 - Lori A Vahrenkamp</b> PB: Shipped Via: <b>Courier</b>	
Project Description: <b>Livingston Ridge - Hugh P. Sims</b>				City/State Collected: <b>Ennice, NM</b>		Please Circle: PT MT CT ET													
Phone: <b>432-894-9996</b>		Client Project # <b>SRS #2001-11005</b>		Lab Project # <b>PLAINSETECH-NM GW</b>															
Collected by (print): <b>ROBERT PETERS</b>		Site/Facility ID # <b>SRS # 2001-11005</b>		P.O. #															
Collected by (signature): 		<b>Rush?</b> (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #															
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>				Date Results Needed				No. of Cntrs											
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time														
MW-1		GW																	
MW-2	GRAB	GW	N/A	3-20-24	16:00	3	X												
MW-3		GW																	
MW-4		GW																	
MW-5	GRAB	GW	N/A	3-21-24	12:00	5	X												
MW-6	GRAB	GW	N/A	3-20-24	16:30	3	X												
MW-7	GRAB	GW	N/A	3-20-24	17:15	3	X												
MW-8	GRAB	GW	N/A	3-21-24	12:35	3	X												
MW-9	GRAB	GW	N/A	3-20-24	15:20	3	X												
MW-10	GRAB	GW	N/A	3-20-24	17:30	3	X												
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other				Remarks: Order Includes: 17xGW BTEX; 1xTrip Blank				pH _____ Temp _____ Flow _____ Other _____				Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N							
Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier				Tracking # <b>642683092094</b>															
Relinquished by: (Signature) 		Date: <b>3/22/24</b>		Time: <b>12:30</b>		Received by: (Signature) 		Trip Blank Received: <input checked="" type="checkbox"/> Yes / No HCL / MeOH TBR											
Relinquished by: (Signature) 		Date: <b>3/22/24</b>		Time: <b>12:45</b>		Received by: (Signature)		Temp: <b>74.0</b> °C <b>0.740 ± 0.3</b>		Bottles Received: <b>48</b>		If preservation required by Login: Date/Time							
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) <b>Charles Stevenson</b>		Date: <b>3-27-24</b>		Time: <b>9:00</b>		Hold:		Condition: NCF / <b>OK</b>					



Company Name/Address: <b>Plains All American Pipeline - ETECH</b>  PO Box 62228 Midland, TX 79711				Billing Information: <b>Accounts Payable</b> 333 Clay St Suite 1600 Houston, TX 77002				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <b>2</b> of <b>2</b>	
Report to: <b>Kimble Thrash</b>				Email To: camille.bryant@plains.com;karolanne.hudgens																 <b>MT JULIET, TN</b> <small>12065 Lebanon Rd. Mount Juliet, TN 37122          Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <a href="https://info.pacelabs.com/hubfs/pas-standard-terms.pdf">https://info.pacelabs.com/hubfs/pas-standard-terms.pdf</a></small>	
Project Description: <b>Livingston Ridge - Hugh P. Sims</b>				City/State Collected: <b>Ennice, NM</b>		Please Circle: PT MT CT ET														SDG # <b>1718439</b>  Table #  Acctnum: <b>PLAINSETECH</b> Template: <b>T242882</b> Prelogin: <b>P1061385</b> PM: <b>3587 - Lori A Vahrenkamp</b> PB: Shipped Via: <b>Courier</b>	
Phone: <b>432-894-9996</b>		Client Project # <b>SRS #2001-11005</b>		Lab Project # <b>PLAINSETECH-NM GW</b>																BTEX 40m/Amb-HCl BTEX 40m/Amb-HCl-Blk SVOC 1L-Amb-NoPres	
Collected by (print): <b>ROBERT PETERS</b>		Site/Facility ID # <b>SRS # 2001 - 11005</b>		P.O. #																Quote #	
Collected by (signature): 		<b>Rush?</b> (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Date Results Needed				No. of Cntrs												Date Results Needed	
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>																					
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40m/Amb-HCl	BTEX 40m/Amb-HCl-Blk	SVOC 1L-Amb-NoPres	HCL / MeOH TBR	Temp	Flow	Other	pH	Temp	Sample Receipt Checklist				
MW-11		GRAB	GW	N/A	3-21-24	14:15	3	X	X	X	X	X	X	X	X	X	X				
MW-12		GRAB	GW	N/A	3-21-24	13:00	5	X	X	X	X	X	X	X	X	X	X				
MW-13		GRAB	GW	N/A	3-21-24	14:50	3	X	X	X	X	X	X	X	X	X	X				
MW-14		GRAB	GW	N/A	3-21-24	15:15	3	X	X	X	X	X	X	X	X	X	X				
MW-15		GRAB	GW	N/A	3-21-24	15:45	3	X	X	X	X	X	X	X	X	X	X				
DUP-1		GRAB	GW	N/A	3-21-24	13:01	5	X	X	X	X	X	X	X	X	X	X				
DUP-2		GRAB	GW	N/A	3-21-24	14:16	3	X	X	X	X	X	X	X	X	X	X				
TRIP BLANK		GRAB	GW	N/A	3-21-24	14:16	3	X	X	X	X	X	X	X	X	X	X				
END OF COC		END OF COC	END OF COC	END OF COC	END OF COC	END OF COC	END OF COC	END OF COC	END OF COC	END OF COC	END OF COC	END OF COC	END OF COC	END OF COC	END OF COC	END OF COC	END OF COC				
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Order Includes: 17xGW BTEX; 1xTrip Blank																			
Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Tracking #																			
Relinquished by: (Signature) 		Date: <b>3/22/24</b>	Time: <b>12:30</b>	Received by: (Signature) 				Trip Blank Received: <input checked="" type="checkbox"/> Yes / No HCL / MeOH TBR				Temp: <b>0.3+0=0.3</b>				Bottles Received: <b>98</b>					
Relinquished by: (Signature) 		Date: <b>3/22/24</b>	Time: <b>12:45</b>	Received by: (Signature) 				Temp: <b>0.3+0=0.3</b>				Bottles Received: <b>98</b>									
Relinquished by: (Signature) 		Date: <b>3-23-24</b>	Time: <b>9:00</b>	Received for lab by: (Signature) 				Temp: <b>0.3+0=0.3</b>				Bottles Received: <b>98</b>									
Hold:		Condition: <b>NCF / OK</b>																			

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Kimble Thrash  
E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa, TX 79765

Project: SRS 2001-11005  
Project Number: SRS 2001-11005  
Location: Lea County, NM  
Lab Order Number: 4F20023



**Current Certification**

Report Date: 06/25/24

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	4F20023-01	Water	06/20/24 09:00	06-20-2024 16:26
MW-5	4F20023-02	Water	06/20/24 13:00	06-20-2024 16:26
MW-11	4F20023-03	Water	06/20/24 10:30	06-20-2024 16:26
MW-12	4F20023-04	Water	06/20/24 11:30	06-20-2024 16:26
DUP-1	4F20023-05	Water	06/20/24 10:31	06-20-2024 16:26



E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2001-11005
13000 West County Road 100	Project Number: SRS 2001-11005
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-2  
4F20023-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

<b>BTEX by 8021B</b>									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/24/24 12:30	06/24/24 17:18	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/24/24 12:30	06/24/24 17:18	EPA 8021B	
<b>Organics by GC</b>									
Benzene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 17:18	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 17:18	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 17:18	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 17:18	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 17:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	88.7 %		80-120		P4F2408	06/24/24 12:30	06/24/24 17:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	111 %		80-120		P4F2408	06/24/24 12:30	06/24/24 17:18	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2001-11005
13000 West County Road 100	Project Number: SRS 2001-11005
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-5  
4F20023-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

<b>BTEX by 8021B</b>									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/24/24 12:30	06/24/24 17:40	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/24/24 12:30	06/24/24 17:40	EPA 8021B	
<b>Organics by GC</b>									
Benzene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 17:40	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 17:40	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 17:40	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 17:40	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 17:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	86.6 %		80-120		P4F2408	06/24/24 12:30	06/24/24 17:40	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	109 %		80-120		P4F2408	06/24/24 12:30	06/24/24 17:40	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: SRS 2001-11005  
 Project Number: SRS 2001-11005  
 Project Manager: Kimble Thrash

**MW-11****4F20023-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.****BTEX by 8021B**

Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/24/24 12:30	06/24/24 18:02	EPA 8021B
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/24/24 12:30	06/24/24 18:02	EPA 8021B

**Organics by GC**

Benzene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 18:02	EPA 8021B
Toluene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 18:02	EPA 8021B
Ethylbenzene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 18:02	EPA 8021B
Xylene (p/m)	ND	0.00200	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 18:02	EPA 8021B
Xylene (o)	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 18:02	EPA 8021B

Surrogate: 4-Bromofluorobenzene 88.8 % 80-120 P4F2408 06/24/24 12:30 06/24/24 18:02 EPA 8021B

Surrogate: 1,4-Difluorobenzene 108 % 80-120 P4F2408 06/24/24 12:30 06/24/24 18:02 EPA 8021B

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2001-11005
13000 West County Road 100	Project Number: SRS 2001-11005
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-12  
4F20023-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

<b>BTEX by 8021B</b>									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/24/24 12:30	06/24/24 19:09	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/24/24 12:30	06/24/24 19:09	EPA 8021B	
<b>Organics by GC</b>									
Benzene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 19:09	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 19:09	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 19:09	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 19:09	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 19:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	86.3 %		80-120		P4F2408	06/24/24 12:30	06/24/24 19:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	110 %		80-120		P4F2408	06/24/24 12:30	06/24/24 19:09	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2001-11005
13000 West County Road 100	Project Number: SRS 2001-11005
Odessa TX, 79765	Project Manager: Kimble Thrash

DUP-1  
4F20023-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

<b>BTEX by 8021B</b>									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/24/24 12:30	06/24/24 19:31	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/24/24 12:30	06/24/24 19:31	EPA 8021B	
<b>Organics by GC</b>									
Benzene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 19:31	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 19:31	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 19:31	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 19:31	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F2408	06/24/24 12:30	06/24/24 19:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	86.8 %		80-120		P4F2408	06/24/24 12:30	06/24/24 19:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	111 %		80-120		P4F2408	06/24/24 12:30	06/24/24 19:31	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: SRS 2001-11005  
 Project Number: SRS 2001-11005  
 Project Manager: Kimble Thrash

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch P4F2408 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P4F2408-BLK1)**

Prepared & Analyzed: 06/24/24

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		107	80-120			

**LCS (P4F2408-BS1)**

Prepared & Analyzed: 06/24/24

Benzene	0.111	0.00100	mg/L	0.100		111	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.231	0.00200	"	0.200		115	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.138		"	0.120		115	80-120			

**LCS Dup (P4F2408-BSD1)**

Prepared & Analyzed: 06/24/24

Benzene	0.108	0.00100	mg/L	0.100		108	80-120	2.59	20	
Toluene	0.0987	0.00100	"	0.100		98.7	80-120	9.84	20	
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120	10.3	20	
Xylene (p/m)	0.210	0.00200	"	0.200		105	80-120	9.60	20	
Xylene (o)	0.0920	0.00100	"	0.100		92.0	80-120	9.03	20	
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.141		"	0.120		117	80-120			

**Calibration Blank (P4F2408-CCB1)**

Prepared & Analyzed: 06/24/24

Benzene	0.180		ug/l							
Toluene	0.150		"							
Ethylbenzene	0.270		"							
Xylene (p/m)	0.500		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: SRS 2001-11005  
 Project Number: SRS 2001-11005  
 Project Manager: Kimble Thrash

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P4F2408 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Blank (P4F2408-CCB2)**

Prepared & Analyzed: 06/24/24

Benzene	0.0800		ug/l							
Toluene	0.0700		"							
Ethylbenzene	0.280		"							
Xylene (p/m)	0.550		"							
Xylene (o)	0.190		"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.129		"	0.120		107	80-120			

**Calibration Check (P4F2408-CCV1)**

Prepared & Analyzed: 06/24/24

Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.229	0.00200	"	0.200		114	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.135		"	0.120		112	80-120			

**Calibration Check (P4F2408-CCV2)**

Prepared & Analyzed: 06/24/24

Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.114	0.00100	"	0.100		114	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.140		"	0.120		116	80-120			

**Calibration Check (P4F2408-CCV3)**

Prepared & Analyzed: 06/24/24

Benzene	0.113	0.00100	mg/L	0.100		113	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.222	0.00200	"	0.200		111	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.139		"	0.120		116	80-120			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235



E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2001-11005
13000 West County Road 100	Project Number: SRS 2001-11005
Odessa TX, 79765	Project Manager: Kimble Thrash

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P4F2408 - \*\*\* DEFAULT PREP \*\*\*

Matrix Spike (P4F2408-MS1)		Source: 4F19020-06			Prepared & Analyzed: 06/24/24					
Benzene	0.122	0.00100	mg/L	0.100	ND	122	80-120			QM-05
Toluene	0.112	0.00100	"	0.100	ND	112	80-120			
Ethylbenzene	0.119	0.00100	"	0.100	ND	119	80-120			
Xylene (p/m)	0.231	0.00200	"	0.200	ND	116	80-120			
Xylene (o)	0.103	0.00100	"	0.100	ND	103	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.139		"	0.120		116	80-120			
Matrix Spike Dup (P4F2408-MSD1)		Source: 4F19020-06			Prepared & Analyzed: 06/24/24					
Benzene	0.123	0.00100	mg/L	0.100	ND	123	80-120	1.22	20	QM-05
Toluene	0.112	0.00100	"	0.100	ND	112	80-120	0.196	20	
Ethylbenzene	0.119	0.00100	"	0.100	ND	119	80-120	0.295	20	
Xylene (p/m)	0.234	0.00200	"	0.200	ND	117	80-120	1.15	20	
Xylene (o)	0.104	0.00100	"	0.100	ND	104	80-120	1.01	20	
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.141		"	0.120		118	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: SRS 2001-11005  
Project Number: SRS 2001-11005  
Project Manager: Kimble Thrash

### Notes and Definitions

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

6/25/2024

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: SRS 2001-11005  
Project Number: SRS 2001-11005  
Project Manager: Kimble Thrash

---

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235



## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin HWY  
Midland, Texas 79701

L: CH: W:

Phone: 432-686-7235

**Project Manager:** Kimble Thrash

Project Name: SRS 2001-11005

**Company Name:** Etech Environmental & Safety Solutions, Inc.

Project #: SRS 2001-11005

Company Address: P.O. Box 6228

Project Loc: Lea County, NM

City/State/Zip: Midland, TX 79711

PO #: \_\_\_\_\_

Telephone No: (432) 563-2200 Fax No: (432) 563-2213

Fax No: (432) 563-2213

Report Format: ☐ Standard ☐ TRRP ☐ NPDES

**Sampler Signature:** \_\_\_\_\_

**e-mail:** kimble@etechenv.com; shane@etechenv.com; camille.bryant@plains.com; karolanne.hudgens@plains.com

[illegible]

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Kimble Thrash  
E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa, TX 79765

Project: SRS 2001-11005  
Project Number: SRS 2001-11005  
Location: Lea County, NM  
Lab Order Number: 4126013



**Current Certification**

Report Date: 10/07/24

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: SRS 2001-11005  
Project Number: SRS 2001-11005  
Project Manager: Kimble Thrash

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	4I26013-01	Water	09/24/24 10:30	09-26-2024 11:17
MW-5	4I26013-02	Water	09/25/24 15:00	09-26-2024 11:17
MW-6	4I26013-03	Water	09/24/24 12:15	09-26-2024 11:17
MW-7	4I26013-04	Water	09/24/24 15:45	09-26-2024 11:17
MW-8	4I26013-05	Water	09/24/24 17:30	09-26-2024 11:17
MW-9	4I26013-06	Water	09/24/24 14:00	09-26-2024 11:17
MW-10	4I26013-07	Water	09/23/24 16:00	09-26-2024 11:17
MW-11	4I26013-08	Water	09/25/24 10:00	09-26-2024 11:17
MW-12	4I26013-09	Water	09/25/24 11:30	09-26-2024 11:17
MW-13	4I26013-10	Water	09/25/24 13:00	09-26-2024 11:17
MW-14	4I26013-11	Water	09/23/24 17:15	09-26-2024 11:17
MW-15	4I26013-12	Water	09/23/24 18:30	09-26-2024 11:17
DUP-1	4I26013-13	Water	09/25/24 11:31	09-26-2024 11:17
DUP-2	4I26013-14	Water	09/25/24 15:01	09-26-2024 11:17

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2001-11005
13000 West County Road 100	Project Number: SRS 2001-11005
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-2  
4126013-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 18:43	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 18:43	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 18:43	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P412704	09/27/24 11:28	09/27/24 18:43	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 18:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	118 %		80-120		P412704	09/27/24 11:28	09/27/24 18:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	86.2 %		80-120		P412704	09/27/24 11:28	09/27/24 18:43	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 18:43	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 18:43	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235



E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

MW-5  
4126013-02 (Water)

Analyte	Reporting Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	---------------------	-------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

<b>Organics by GC</b>									
Benzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 19:05	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 19:05	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 19:05	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P412704	09/27/24 11:28	09/27/24 19:05	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 19:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	80-120		P412704	09/27/24 11:28	09/27/24 19:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.9 %	80-120		P412704	09/27/24 11:28	09/27/24 19:05	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 19:05	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 19:05	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

MW-6  
4126013-03 (Water)

Analyte	Reporting Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	---------------------	-------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

<b>Organics by GC</b>									
Benzene	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 19:27	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 19:27	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 19:27	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 19:27	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 19:27	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	80-120		P4I2704	09/27/24 11:28	09/27/24 19:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.0 %	80-120		P4I2704	09/27/24 11:28	09/27/24 19:27	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 19:27	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 19:27	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2001-11005
13000 West County Road 100	Project Number: SRS 2001-11005
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-7

4126013-04 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 20:33	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 20:33	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 20:33	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 20:33	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 20:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	116 %		80-120		P4I2704	09/27/24 11:28	09/27/24 20:33	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	85.8 %		80-120		P4I2704	09/27/24 11:28	09/27/24 20:33	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 20:33	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 20:33	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

MW-8  
4126013-05 (Water)

Analyte	Reporting Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	---------------------	-------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 20:55	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 20:55	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 20:55	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P412704	09/27/24 11:28	09/27/24 20:55	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 20:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	117 %	80-120			P412704	09/27/24 11:28	09/27/24 20:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	86.1 %	80-120			P412704	09/27/24 11:28	09/27/24 20:55	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 20:55	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 20:55	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2001-11005
13000 West County Road 100	Project Number: SRS 2001-11005
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-9  
4126013-06 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

<b>Organics by GC</b>									
Benzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 21:17	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 21:17	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 21:17	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P412704	09/27/24 11:28	09/27/24 21:17	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 21:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	117 %	80-120			P412704	09/27/24 11:28	09/27/24 21:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	86.4 %	80-120			P412704	09/27/24 11:28	09/27/24 21:17	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 21:17	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 21:17	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2001-11005
13000 West County Road 100	Project Number: SRS 2001-11005
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-10  
4126013-07 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 21:39	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 21:39	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 21:39	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P412704	09/27/24 11:28	09/27/24 21:39	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 21:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	117 %		80-120		P412704	09/27/24 11:28	09/27/24 21:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	85.6 %		80-120		P412704	09/27/24 11:28	09/27/24 21:39	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 21:39	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 21:39	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

MW-11  
4126013-08 (Water)

Analyte	Reporting Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	---------------------	-------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

<b>Organics by GC</b>									
Benzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 22:00	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 22:00	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 22:00	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P412704	09/27/24 11:28	09/27/24 22:00	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 22:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	117 %	80-120			P412704	09/27/24 11:28	09/27/24 22:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	86.4 %	80-120			P412704	09/27/24 11:28	09/27/24 22:00	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 22:00	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 22:00	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235



E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2001-11005
13000 West County Road 100	Project Number: SRS 2001-11005
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-12

4126013-09 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 22:22	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 22:22	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 22:22	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P412704	09/27/24 11:28	09/27/24 22:22	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 22:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	117 %	80-120			P412704	09/27/24 11:28	09/27/24 22:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	86.7 %	80-120			P412704	09/27/24 11:28	09/27/24 22:22	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 22:22	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 22:22	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

MW-13  
4126013-10 (Water)

Analyte	Reporting Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	---------------------	-------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

<b>Organics by GC</b>									
Benzene	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 22:44	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 22:44	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 22:44	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 22:44	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 22:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	118 %	80-120			P4I2704	09/27/24 11:28	09/27/24 22:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	86.1 %	80-120			P4I2704	09/27/24 11:28	09/27/24 22:44	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 22:44	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 22:44	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

MW-14  
4I26013-11 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 23:06	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 23:06	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 23:06	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 23:06	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I2704	09/27/24 11:28	09/27/24 23:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	117 %		80-120		P4I2704	09/27/24 11:28	09/27/24 23:06	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	86.5 %		80-120		P4I2704	09/27/24 11:28	09/27/24 23:06	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 23:06	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 23:06	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

MW-15  
4126013-12 (Water)

Analyte	Reporting Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	---------------------	-------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

<b>Organics by GC</b>									
Benzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 23:28	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 23:28	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 23:28	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P412704	09/27/24 11:28	09/27/24 23:28	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 23:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	80-120		P412704	09/27/24 11:28	09/27/24 23:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.4 %	80-120		P412704	09/27/24 11:28	09/27/24 23:28	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 23:28	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 23:28	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

DUP-1  
4126013-13 (Water)

Analyte	Reporting Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	---------------------	-------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

<b>Organics by GC</b>									
Benzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 23:49	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 23:49	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 23:49	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P412704	09/27/24 11:28	09/27/24 23:49	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P412704	09/27/24 11:28	09/27/24 23:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	80-120		P412704	09/27/24 11:28	09/27/24 23:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.5 %	80-120		P412704	09/27/24 11:28	09/27/24 23:49	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 23:49	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:28	09/27/24 23:49	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

DUP-2  
4I26013-14 (Water)

Analyte	Reporting Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	---------------------	-------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

<b>Organics by GC</b>									
Benzene	ND	0.00100	mg/L	1	P4I2705	09/27/24 11:35	09/28/24 02:43	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I2705	09/27/24 11:35	09/28/24 02:43	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I2705	09/27/24 11:35	09/28/24 02:43	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I2705	09/27/24 11:35	09/28/24 02:43	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I2705	09/27/24 11:35	09/28/24 02:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	80-120		P4I2705	09/27/24 11:35	09/28/24 02:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.9 %	80-120		P4I2705	09/27/24 11:35	09/28/24 02:43	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:35	09/28/24 02:43	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/27/24 11:35	09/28/24 02:43	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: SRS 2001-11005  
Project Number: SRS 2001-11005  
Project Manager: Kimble Thrash

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch P4I2704 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P4I2704-BLK1)**

Prepared & Analyzed: 09/27/24

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.144		"	0.120		120	80-120			
Surrogate: 1,4-Difluorobenzene	0.102		"	0.120		85.2	80-120			

**LCS (P4I2704-BS1)**

Prepared & Analyzed: 09/27/24

Benzene	0.0960	0.00100	mg/L	0.100		96.0	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.145		"	0.120		121	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.1	80-120			

**LCS Dup (P4I2704-BS1)**

Prepared & Analyzed: 09/27/24

Benzene	0.0980	0.00100	mg/L	0.100		98.0	80-120	2.14	20	
Toluene	0.107	0.00100	"	0.100		107	80-120	2.75	20	
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120	4.45	20	
Xylene (p/m)	0.239	0.00200	"	0.200		119	80-120	1.83	20	
Xylene (o)	0.110	0.00100	"	0.100		110	80-120	2.13	20	
Surrogate: 4-Bromofluorobenzene	0.136		"	0.120		114	80-120			
Surrogate: 1,4-Difluorobenzene	0.103		"	0.120		86.2	80-120			

**Calibration Blank (P4I2704-CCB1)**

Prepared & Analyzed: 09/27/24

Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.143		"	0.120		119	80-120			
Surrogate: 1,4-Difluorobenzene	0.102		"	0.120		84.8	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235



E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: SRS 2001-11005  
Project Number: SRS 2001-11005  
Project Manager: Kimble Thrash

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P4I2704 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Blank (P4I2704-CCB2)**

Prepared & Analyzed: 09/27/24

Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.141		"	0.120		118	80-120			
Surrogate: 1,4-Difluorobenzene	0.102		"	0.120		85.3	80-120			

**Calibration Blank (P4I2704-CCB3)**

Prepared: 09/27/24 Analyzed: 09/28/24

Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.138		"	0.120		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		86.3	80-120			

**Calibration Check (P4I2704-CCV1)**

Prepared & Analyzed: 09/27/24

Benzene	0.101	0.00100	mg/L	0.100		101	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		118	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.120		117	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.0	80-120			

**Calibration Check (P4I2704-CCV2)**

Prepared & Analyzed: 09/27/24

Benzene	0.102	0.00100	mg/L	0.100		102	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.120		117	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.3	80-120			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: SRS 2001-11005  
 Project Number: SRS 2001-11005  
 Project Manager: Kimble Thrash

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P4I2704 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Check (P4I2704-CCV3)**

Prepared: 09/27/24 Analyzed: 09/28/24

Benzene	0.101	0.00100	mg/L	0.100		101	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		119	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.138		"	0.120		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.8	80-120			

**Matrix Spike (P4I2704-MS1)**

Source: 4I26019-01

Prepared: 09/27/24 Analyzed: 09/28/24

Benzene	0.0953	0.00100	mg/L	0.100	ND	95.3	80-120			
Toluene	0.0984	0.00100	"	0.100	ND	98.4	80-120			
Ethylbenzene	0.111	0.00100	"	0.100	ND	111	80-120			
Xylene (p/m)	0.133	0.00200	"	0.200	ND	66.5	80-120			QM-05
Xylene (o)	0.0920	0.00100	"	0.100	ND	92.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.142		"	0.120		119	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.9	80-120			

**Matrix Spike Dup (P4I2704-MSD1)**

Source: 4I26019-01

Prepared: 09/27/24 Analyzed: 09/28/24

Benzene	0.109	0.00100	mg/L	0.100	ND	109	80-120	13.7	20	
Toluene	0.112	0.00100	"	0.100	ND	112	80-120	12.5	20	
Ethylbenzene	0.127	0.00100	"	0.100	ND	127	80-120	13.6	20	QM-05
Xylene (p/m)	0.112	0.00200	"	0.200	ND	56.2	80-120	16.8	20	QM-05
Xylene (o)	0.0905	0.00100	"	0.100	ND	90.5	80-120	1.64	20	
Surrogate: 4-Bromofluorobenzene	0.143		"	0.120		119	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.5	80-120			

**Batch P4I2705 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P4I2705-BLK1)**

Prepared: 09/27/24 Analyzed: 09/28/24

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.140		"	0.120		117	80-120			
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		86.3	80-120			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: SRS 2001-11005  
Project Number: SRS 2001-11005  
Project Manager: Kimble Thrash

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P4I2705 - \*\*\* DEFAULT PREP \*\*\***

**LCS (P4I2705-BS1)**

Prepared: 09/27/24 Analyzed: 09/28/24

Benzene	0.0983	0.00100	mg/L	0.100		98.3	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		118	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.143		"	0.120		119	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.2	80-120			

**LCS Dup (P4I2705-BSD1)**

Prepared: 09/27/24 Analyzed: 09/28/24

Benzene	0.100	0.00100	mg/L	0.100		100	80-120	2.12	20	
Toluene	0.105	0.00100	"	0.100		105	80-120	3.04	20	
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120	2.44	20	
Xylene (p/m)	0.238	0.00200	"	0.200		119	80-120	1.13	20	
Xylene (o)	0.106	0.00100	"	0.100		106	80-120	2.19	20	
Surrogate: 4-Bromofluorobenzene	0.142		"	0.120		118	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.8	80-120			

**Calibration Blank (P4I2705-CCB1)**

Prepared: 09/27/24 Analyzed: 09/28/24

Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.138		"	0.120		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		86.3	80-120			

**Calibration Blank (P4I2705-CCB2)**

Prepared: 09/27/24 Analyzed: 09/28/24

Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.141		"	0.120		117	80-120			
Surrogate: 1,4-Difluorobenzene	0.102		"	0.120		85.0	80-120			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: SRS 2001-11005  
 Project Number: SRS 2001-11005  
 Project Manager: Kimble Thrash

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P4I2705 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Check (P4I2705-CCV1)**

Prepared: 09/27/24 Analyzed: 09/28/24

Benzene	0.101	0.00100	mg/L	0.100		101	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		119	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.138		"	0.120		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.8	80-120			

**Calibration Check (P4I2705-CCV2)**

Prepared: 09/27/24 Analyzed: 09/28/24

Benzene	0.106	0.00100	mg/L	0.100		106	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 4-Bromofluorobenzene	0.132		"	0.120		110	80-120			
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		86.6	80-120			

**Calibration Check (P4I2705-CCV3)**

Prepared: 09/27/24 Analyzed: 09/28/24

Benzene	0.104	0.00100	mg/L	0.100		104	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 4-Bromofluorobenzene	0.136		"	0.120		114	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.8	80-120			

**Matrix Spike (P4I2705-MS1)**

Source: 4I26013-14

Prepared: 09/27/24 Analyzed: 09/28/24

Benzene	0.101	0.00100	mg/L	0.100	ND	101	80-120			
Toluene	0.105	0.00100	"	0.100	ND	105	80-120			
Ethylbenzene	0.119	0.00100	"	0.100	ND	119	80-120			
Xylene (p/m)	0.238	0.00200	"	0.200	ND	119	80-120			
Xylene (o)	0.104	0.00100	"	0.100	ND	104	80-120			
Surrogate: 4-Bromofluorobenzene	0.142		"	0.120		118	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.9	80-120			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

Organics by GC - Quality Control  
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P4I2705 - \*\*\* DEFAULT PREP \*\*\*

Matrix Spike Dup (P4I2705-MSD1)	Source: 4I26013-14			Prepared: 09/27/24 Analyzed: 09/28/24						
Benzene	0.102	0.00100	mg/L	0.100	ND	102	80-120	1.55	20	
Toluene	0.107	0.00100	"	0.100	ND	107	80-120	1.65	20	
Ethylbenzene	0.122	0.00100	"	0.100	ND	122	80-120	2.13	20	QM-05
Xylene (p/m)	0.242	0.00200	"	0.200	ND	121	80-120	1.58	20	QM-05
Xylene (o)	0.105	0.00100	"	0.100	ND	105	80-120	1.37	20	
Surrogate: 4-Bromofluorobenzene	0.140		"	0.120		117	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.6	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235



E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: SRS 2001-11005  
Project Number: SRS 2001-11005  
Project Manager: Kimble Thrash

### Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

10/7/2024

Brent Barron, Laboratory Director/Technical Director

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: SRS 2001-11005  
Project Number: SRS 2001-11005  
Project Manager: Kimble Thrash

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

**PBELAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin HWY  
Midland, Texas 79701

L: \_\_\_\_\_ CH: \_\_\_\_\_ W: \_\_\_\_\_

Phone: 432-686-7235

Project Manager: Kimble Thrash

Project Name: SRS 2001-11005

Company Name: Etech Environmental &amp; Safety Solutions, Inc.

Project #: SRS 2001-11005

Company Address: P.O. Box 6228

Project Loc: Lea County, NM

City/State/Zip: Midland, TX 79711

PO #:

Telephone No: (432) 563-2200

Fax No: (432) 563-2213

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: \_\_\_\_\_

e-mail: kimble@etechenv.com; shane@etechenv.com; camille.bryant@plains.com; karolanne.hudgens@plains.com

(lab use only)

ORDER #: 4I26013

(lab use only)												Analyze For:										RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers							Matrix		TCLP:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
								Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water GW = Groundwater NP=Non-Potable SL=Sludge S=Soil/Solid Specify Other		TOTAL:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

Special Instructions: Please invoice directly to Plains A/P 333 Clay St., Houston, TX 77002 and reference the SRS number in the Project Name.

Relinquished by: _____	Date: 9/26/24	Time: 11:17	Received by: _____	Date: _____	Time: _____	Laboratory Comments: Sample Containers Intact? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N VOCs Free of Headspace? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Labels on container(s) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Custody seals on container(s) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Custody seals on cooler(s) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sample Hand Delivered by Sampler/Client Rep. ? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N by Courier? <input type="checkbox"/> UPS <input type="checkbox"/> DHL <input type="checkbox"/> FedEx <input type="checkbox"/> Lone Star Temperature Upon Receipt: _____ Received: 9/26/24 11:17 Adjusted: 3.1 °C Thermometer: _____ °C Factor: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____	
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____	





**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report Rev. 1

**Prepared for:**

Kimble Thrash  
E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa, TX 79765

Project: SRS 2001-11005  
Project Number: SRS 2001-11005  
Location: Lea County, NM  
Lab Order Number: 4L13003



**Current Certification**

Report Date: 03/04/25



E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	4L13003-01	Water	12/12/24 12:15	12-13-2024 10:42
MW-5	4L13003-02	Water	12/12/24 13:35	12-13-2024 10:42
MW-11	4L13003-03	Water	12/12/24 15:55	12-13-2024 10:42
MW-12	4L13003-04	Water	12/12/24 17:10	12-13-2024 10:42
DUP-1	4L13003-05	Water	12/12/24 17:11	12-13-2024 10:42

PBEL was notified by client on 3/3/2025 that sample MW-2 for workorder 4L13003-01 contradicted historical results. Upon further investigation it was revealed that the original run of the sample was imported and reported in place of the rerun. The results on the revised report below are that of the rerun sample for MW-2. All samples were ran within method specified holding time. Nonconformance number SYS030425SG01 has been initiated to further investigate this issue and determine a root cause and resolution.

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2001-11005
13000 West County Road 100	Project Number: SRS 2001-11005
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-2  
4L13003-01 (Water)

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	-----------------	--------------------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/17/24 09:20	EPA 8021B
Toluene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/17/24 09:20	EPA 8021B
Ethylbenzene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/17/24 09:20	EPA 8021B
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1609	12/16/24 10:48	12/17/24 09:20	EPA 8021B
Xylene (o)	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/17/24 09:20	EPA 8021B
Surrogate: 4-Bromofluorobenzene	81.2 %	80-120		P4L1609	12/16/24 10:48	12/17/24 09:20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %	80-120		P4L1609	12/16/24 10:48	12/17/24 09:20	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/17/24 09:20	EPA 8021B
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/17/24 09:20	EPA 8021B

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

MW-5  
4L13003-02 (Water)

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	-----------------	--------------------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC								
Benzene	0.00354	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 16:48	EPA 8021B
Toluene	0.00165	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 16:48	EPA 8021B
Ethylbenzene	0.00203	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 16:48	EPA 8021B
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 16:48	EPA 8021B
Xylene (o)	0.00112	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 16:48	EPA 8021B
Surrogate: 4-Bromofluorobenzene	79.5 %	80-120			P4L1609	12/16/24 10:48	12/16/24 16:48	EPA 8021B S-GC
Surrogate: 1,4-Difluorobenzene	102 %	80-120			P4L1609	12/16/24 10:48	12/16/24 16:48	EPA 8021B
Total BTEX	0.00834	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 16:48	EPA 8021B
Xylenes (total)	0.00112	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 16:48	EPA 8021B

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

MW-11  
4L13003-03 (Water)

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	-----------------	--------------------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

<b>Organics by GC</b>								
Benzene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:10	EPA 8021B
Toluene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:10	EPA 8021B
Ethylbenzene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:10	EPA 8021B
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:10	EPA 8021B
Xylene (o)	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:10	EPA 8021B
Surrogate: 4-Bromofluorobenzene	78.2 %	80-120			P4L1609	12/16/24 10:48	12/16/24 17:10	EPA 8021B S-GC
Surrogate: 1,4-Difluorobenzene	102 %	80-120			P4L1609	12/16/24 10:48	12/16/24 17:10	EPA 8021B
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 17:10	EPA 8021B
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 17:10	EPA 8021B

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: SRS 2001-11005  
 Project Number: SRS 2001-11005  
 Project Manager: Kimble Thrash

**MW-12****4L13003-04 (Water)**

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	-----------------	--------------------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.****Organics by GC**

Benzene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:33	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:33	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:33	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:33	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	78.8 %	80-120			P4L1609	12/16/24 10:48	12/16/24 17:33	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	102 %	80-120			P4L1609	12/16/24 10:48	12/16/24 17:33	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 17:33	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 17:33	EPA 8021B	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235



E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2001-11005 Project Number: SRS 2001-11005 Project Manager: Kimble Thrash
---	---

DUP-1  
4L13003-05 (Water)

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	-----------------	--------------------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

<b>Organics by GC</b>								
Benzene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:55	EPA 8021B
Toluene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:55	EPA 8021B
Ethylbenzene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:55	EPA 8021B
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:55	EPA 8021B
Xylene (o)	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 17:55	EPA 8021B
Surrogate: 4-Bromofluorobenzene	79.7 %	80-120		P4L1609	12/16/24 10:48	12/16/24 17:55	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	102 %	80-120		P4L1609	12/16/24 10:48	12/16/24 17:55	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 17:55	EPA 8021B
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 17:55	EPA 8021B

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: SRS 2001-11005  
 Project Number: SRS 2001-11005  
 Project Manager: Kimble Thrash

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P4L1609 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P4L1609-BLK1)**

Prepared & Analyzed: 12/16/24

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.0921		"	0.120		76.7	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	80-120			

**LCS (P4L1609-BS1)**

Prepared & Analyzed: 12/16/24

Benzene	0.0974	0.00100	mg/L	0.100		97.4	80-120			
Toluene	0.0927	0.00100	"	0.100		92.7	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.207	0.00200	"	0.200		104	80-120			
Xylene (o)	0.0929	0.00100	"	0.100		92.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.0990		"	0.120		82.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.120		111	80-120			

**LCS Dup (P4L1609-BS1)**

Prepared & Analyzed: 12/16/24

Benzene	0.0955	0.00100	mg/L	0.100		95.5	80-120	1.96	20	
Toluene	0.0933	0.00100	"	0.100		93.3	80-120	0.699	20	
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120	1.78	20	
Xylene (p/m)	0.211	0.00200	"	0.200		105	80-120	1.63	20	
Xylene (o)	0.0933	0.00100	"	0.100		93.3	80-120	0.462	20	
Surrogate: 4-Bromofluorobenzene	0.100		"	0.120		83.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	80-120			

**Calibration Blank (P4L1609-CCB1)**

Prepared & Analyzed: 12/16/24

Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.200		"							
Xylene (p/m)	0.280		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0960		"	0.120		80.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: SRS 2001-11005  
Project Number: SRS 2001-11005  
Project Manager: Kimble Thrash

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P4L1609 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Blank (P4L1609-CCB2)**

Prepared & Analyzed: 12/16/24

Benzene	0.460		ug/l							
Toluene	0.340		"							
Ethylbenzene	0.260		"							
Xylene (p/m)	0.490		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0957		"	0.120		79.8	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			

**Calibration Check (P4L1609-CCV1)**

Prepared & Analyzed: 12/16/24

Benzene	0.0944	0.00100	mg/L	0.100		94.4	80-120			
Toluene	0.0914	0.00100	"	0.100		91.4	80-120			
Ethylbenzene	0.0912	0.00100	"	0.100		91.2	80-120			
Xylene (p/m)	0.200	0.00200	"	0.200		100	80-120			
Xylene (o)	0.0918	0.00100	"	0.100		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.0975		"	0.120		81.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	80-120			

**Calibration Check (P4L1609-CCV2)**

Prepared & Analyzed: 12/16/24

Benzene	0.0968	0.00100	mg/L	0.100		96.8	80-120			
Toluene	0.0912	0.00100	"	0.100		91.2	80-120			
Ethylbenzene	0.0893	0.00100	"	0.100		89.3	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		97.9	80-120			
Xylene (o)	0.0902	0.00100	"	0.100		90.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.0959		"	0.120		79.9	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	80-120			

**Calibration Check (P4L1609-CCV3)**

Prepared & Analyzed: 12/16/24

Benzene	0.104	0.00100	mg/L	0.100		104	80-120			
Toluene	0.0995	0.00100	"	0.100		99.5	80-120			
Ethylbenzene	0.0994	0.00100	"	0.100		99.4	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.0984		"	0.120		82.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.133		"	0.120		111	80-120			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: SRS 2001-11005  
 Project Number: SRS 2001-11005  
 Project Manager: Kimble Thrash

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P4L1609 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P4L1609-MS1)</b>		<b>Source: 4L16004-01</b>			<b>Prepared &amp; Analyzed: 12/16/24</b>					
Benzene	0.0949	0.00100	mg/L	0.100	0.00448	90.4	80-120			
Toluene	0.0888	0.00100	"	0.100	0.00604	82.7	80-120			
Ethylbenzene	0.0832	0.00100	"	0.100	ND	83.2	80-120			
Xylene (p/m)	0.170	0.00200	"	0.200	0.00235	84.0	80-120			
Xylene (o)	0.0770	0.00100	"	0.100	0.000690	76.3	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.0980		"	0.120		81.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.133		"	0.120		111	80-120			

<b>Matrix Spike Dup (P4L1609-MSD1)</b>		<b>Source: 4L16004-01</b>			<b>Prepared &amp; Analyzed: 12/16/24</b>					
Benzene	0.0991	0.00100	mg/L	0.100	0.00448	94.6	80-120	4.55	20	
Toluene	0.0942	0.00100	"	0.100	0.00604	88.2	80-120	6.44	20	
Ethylbenzene	0.0898	0.00100	"	0.100	ND	89.8	80-120	7.67	20	
Xylene (p/m)	0.182	0.00200	"	0.200	0.00235	89.9	80-120	6.78	20	
Xylene (o)	0.0822	0.00100	"	0.100	0.000690	81.5	80-120	6.53	20	
Surrogate: 4-Bromofluorobenzene	0.0964		"	0.120		80.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	80-120			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: SRS 2001-11005  
Project Number: SRS 2001-11005  
Project Manager: Kimble Thrash

### Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

3/4/2025

Brent Barron, Laboratory Director/Technical Director



E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: SRS 2001-11005  
Project Number: SRS 2001-11005  
Project Manager: Kimble Thrash

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235



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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 485173

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 485173
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
jburdine	Review of the 2024 Annual Groundwater Monitoring Report for Livingston Ridge to Hugh--P. Sims: approved 1. Continue to gauge and sample monitoring wells: MW-2, MW-5, MW-11 and MW-12 on a quarterly schedule as planned. 2. Conduct groundwater sampling for MW-7, MW-8, and MW-10 on an annual basis. 3. Conduct AFR events as prescribed to prevent down-gradient contamination. 4. Submit the 2025 annual report to the OCD by April 1, 2026.	7/30/2025