2023 Annual Groundwater Monitoring Report

REVIEWED
By Mike Buchanan at 4:36 pm, Aug 01, 2024

Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch Section 31
Lea County, New Mexico
Unit Letter "K", Section 31, Township 20 South, Range 37 East
Latitude 32.52733 North, Longitude 103.2906 West
Plains SRS #: 2009-084
NMOCD Reference #: 1RP-2166
NMOCD Incident ID #: nAPP2109734163

Review of the DCP Plant to Lea Station 6-Inch Section 31: content satisfactory
1. Continue to conduct groundwater monitoring on a semi-annual schedule for MW-3 and MW-6. Conduct quarterly monitoring events for MW-2, MW-4 and MW-5.
2. For MW-1, conduct AFR events on a monthly schedule as prescribed.
3. Continue to run and conduct O&M of the SVE system with emission sampling.
4. Submit the 2024 annual report to OCD by April 1, 2025.

Prepared By:

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1.0 INTRODUCTION & SITE DESCRIPTION

Etech Environmental & Safety Solutions (Etech), on behalf of Plains All American Pipeline, LP (Plains), has prepared this *2023 Annual Groundwater Monitoring Report* for the DCP Plant to Lea Station 6-Inch Section 31 Release Site in accordance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an *Annual Monitoring Report* by April 1st of each year.

The legal description of the Site is Unit Letter "K" (NE/SW), Section 31, Township 20 South, Range 37 East, in Lea County, New Mexico. The property affected by the release is owned by the State of New Mexico and administered by the New Mexico State Land Office (NMSLO). The geographic coordinates of the Release Site are 32.52733° North latitude and 103.2906° West longitude. A "Site Location Map" is provided as Figure 1.

2.0 BACKGROUND INFORMATION

On April 2, 2009, Plains discovered a crude oil release from a 6-inch steel pipeline. During initial response activities, Plains installed a temporary clamp on the pipeline to mitigate the release. The crude oil release resulted in a surface stain measuring approximately six (6) feet in width by eight (8) feet in length. Plains initially classified the release as “non-reportable”. On further investigation, Plains reclassified the release as "reportable", notified the NMOCD Hobbs District Office, and submitted a "Release Notification and Corrective Action" (Form C-141) on April 29, 2009. The cause of the release was attributed to external corrosion of the pipeline. The C-141 indicated approximately 20 barrels (bbls) of crude oil was released from the pipeline, with no recovery.

On April 15, 2009, one (1) soil boring (SB-1) was advanced approximately 10 feet west of the release point to evaluate the vertical extent of impacted soil. During advancement of the soil boring, groundwater was encountered at approximately 77 feet below ground surface (bgs). Temporary casing was installed in the soil boring to obtain a preliminary groundwater sample. On April 16, 2009, a groundwater sample (SB-1) was collected from the temporary casing and submitted to the laboratory for analysis of total dissolved solids (TDS); chloride; and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Following the collection of the groundwater sample, the temporary casing was removed from the soil boring, and the soil boring was plugged with cement and bentonite, as required by the New Mexico Office of the State Engineer (NMOSE). Laboratory analytical results indicated a benzene concentration of 1.915 mg/L, a BTEX concentration of 4.7711 mg/L, a chloride concentration of 54.6 mg/L, and a TDS concentration of 788 mg/L. Based on the analytical results of the submitted groundwater sample, Plains notified NMOCD representatives in the Hobbs District Office and the Santa Fe Office of the laboratory-confirmed impact to groundwater at the Release Site.

On June 2, 2009, following advancement of the soil boring, excavation of hydrocarbon-impacted soil commenced. Excavated soil was stockpiled on-site on a plastic liner to mitigate the potential leaching of the contaminants into the vadose zone. Approximately 1,400 cubic yards (cy) of soil was stockpiled on-site, pending final disposition. The final dimensions of the excavation were approximately 77 feet in width, approximately 80 feet in length, and 15 feet in depth.

On September 21 through September 23, 2009, Plains installed and developed four (4) monitor wells (MW-1 through MW-4) at the Release Site, as approved by the NMOCD. Soil samples were collected at five (5) foot drilling intervals and field screened using a Photo-Ionization Detector (PID). Selected soil samples were submitted to the laboratory for determination of concentrations of BTEX and total petroleum hydrocarbons (TPH) using EPA Methods SW-846 8021b and SW-846 8015M, respectively.

Monitor well MW-1 was installed on the floor of the excavation, at approximately 15 feet bgs, to a total depth of approximately 86 feet bgs. Soil samples collected at 25, 35, 45, 55, 65, and 75 feet bgs were submitted to the laboratory for analysis. Laboratory analytical results indicated benzene concentrations were less than the appropriate laboratory method detection limit (MDL) for all of the submitted soil samples. BTEX concentrations ranged from 0.0359 mg/kg for the soil sample collected at 25 feet bgs to 13.444 mg/kg for the soil sample collected at 55 feet bgs. TPH concentrations ranged from 286 mg/kg for the soil sample collected at 25 feet bgs to 1,538 mg/kg for the soil sample collected at 55 feet bgs.

Monitor well MW-2 is located approximately 75 feet northwest (up-gradient) of the release point. The monitor well was installed to a total depth of approximately 90 feet bgs. Soil samples collected at 15, 30, 45, 60, and 75 feet bgs were submitted to the laboratory for analysis. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL in each of the submitted soil samples.

Monitor well MW-3 is located approximately 75 feet to the southwest (cross-gradient) of the release point. The monitor well was installed to a total depth of approximately 90 feet bgs. Soil samples collected at 15, 30, 45 and 60 feet were submitted to the laboratory for analysis. Laboratory analytical results indicated benzene concentrations ranged from less than the appropriate laboratory MDL for the soil samples collected at 15, 30, 45, and 60 feet bgs to 0.0025 mg/kg for the soil sample collected at 60 feet bgs. Analytical results indicated BTEX concentrations ranged from less than the appropriate laboratory MDL for the soil samples collected at 15, 30, and 45 feet bgs to 0.0052 mg/kg for the soil sample collected at 60 feet bgs. TPH concentrations were less than the appropriate laboratory MDL in each of the submitted soil samples.

Monitor well MW-4 is located approximately 75 feet to the southeast (down-gradient) of the release point. The monitor well was installed to a total depth of approximately eighty-nine 89 feet bgs. Soil samples collected at 15, 30, 45, and 60 feet bgs were submitted to the laboratory for analysis. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL in each of the submitted soil samples.

On January 25, 2011, one (1) additional monitor well (MW-5) was installed to further monitor the down-gradient migration of the PSH plume. Monitor well MW-5 is located approximately 60 feet to the southeast (down-gradient) of the release point. The monitor well was installed to a total depth of approximately 95 feet bgs. Soil samples collected at 15, 25, 45, 65, and 75 feet bgs were submitted to the laboratory for analysis. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL in each of the submitted soil samples. PSH was not observed in monitor well MW-5.

On September 11, 2013, one (1) additional monitor well (MW-6) was installed to further monitor the down-gradient migration of the PSH plume. Monitor well MW-6 is located approximately 95 feet to the east (cross-gradient) of the release point. The monitor well was installed to a total depth of approximately 100 feet bgs. Soil samples collected at five (5), 40, and 75 feet bgs were submitted to the laboratory for analysis. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL for all of the submitted soil samples. PSH was not observed in monitor well MW-6.

On March 6, 2020, a soil vapor extraction (SVE) unit was installed on monitor well MW-1. Previously a mobile dual phase extraction (MDPE) unit was utilized for the extraction of soil vapor. Monthly effluent air samples were collected from the SVE unit to ensure compliance with New Mexico Environment Department (NMED) Air Quality Bureau Action Levels. Results of effluent sample analyses are summarized in Table 3.

In February 2023, Etech, at the request of Plains, assumed project management and oversight responsibilities for groundwater remediation activities at the DCP Plant to Lea Station 6-Inch Section 31.

Currently, a total of six (6) monitor wells (MW-1 through MW-6) are located at the DCP Plant to Lea Station 6-Inch Section 31 Release Site. Monitor wells MW-2, MW-4, and MW-5 are gauged and sampled on a quarterly schedule. A semi-annual monitoring schedule was approved by the NMOCD for monitor wells MW-3 and MW-6 in August 2022. Monitor well MW-1 is gauged monthly but not sampled due to the presence of PSH.

3.0 FIELD ACTIVITIES

3.1 Product Recovery Efforts

A measurable thickness of PSH was detected in monitor well MW-1 during the initial site investigation. Manual recovery of PSH from MW-1 commenced in October 2009, and approximately 5,783 gallons (138 barrels) of PSH have been recovered since inception. Approximately 91.0 gallons of dissolved-phase hydrocarbon-impacted groundwater and 2.27 gallons of PSH were recovered by manual recovery from MW-1 during the 2023 reporting period. The average PSH thickness measured in monitor well MW-1 during the reporting period was 0.93 feet, and the maximum PSH thickness observed was 1.15 feet on July 28, 2023. Groundwater gauging and recovery data for monitor well MW-1 is summarized in Table 4.

An Aggressive Fluid Recovery (AFR) event was conducted on monitor well MW-1 in August 2023. During the AFR event, a submersible pump was utilized to conduct a prolonged recovery event consisting of approximately 5-7 hours of pumping. A total of approximately 350 gallons (8.33 bbls) of hydrocarbon-impacted groundwater were recovered from the monitor well during the event. The recovered fluid was pumped directly into the on-site polystyrene aboveground storage tank (AST), pending transport to an NMOCD-approved disposal facility.

In September 2012, an MDPE unit was installed on monitor well MW-1 by Talon LPE. The MDPE unit was shared with the nearby Release Site known as DCP Plant to Lea Station 6-Inch #2

(NMOCD Incident #nAPP2109730917), and the location of the unit was alternated periodically until an SVE was installed at the aforementioned Site on July 19, 2017.
On March 6, 2020, an SVE unit was installed on monitor well MW-1. Monthly effluent air samples are collected from the SVE unit to ensure compliance with NMED Air Quality Bureau (AQB) Action Levels.

Effluent air samples are collected from the exhaust port of the SVE system during each monthly recovery event. Emission mass calculations resulted in a decrease in average emissions of TPH from 2.25 tons/year in 2022 to 0.93 tons/year in 2023. The average emission volume decreased from 2.11 gal/day in 2022 to 0.86 gal/day in 2023. Effluent air samples were below the AQB criteria of 10 tons of TPH per year throughout the 2023 reporting period. Laboratory analytical results for effluent air samples are summarized in Table 3, and laboratory analytical reports are provided in Appendix B.

3.2 Groundwater Monitoring

The on-site monitor wells were gauged and sampled on March 29 and 30 (1Q2023); June 21 (2Q2023); September 19 (3Q2023); and December 7, 2023 (4Q2023). The groundwater monitoring events consisted of measuring static water levels in the on-site monitor wells (MW-1 through MW-6), checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. Purged water was placed into the on-site 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 2023 quarterly sampling events, are depicted in Figures 2A through 2D. The maps indicate a general groundwater gradient of 0.002 to 0.003 feet/foot to the south-southeast, as measured between monitor wells MW-2 and MW-4. Groundwater elevation and PSH thickness data is 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 monitoring events were delivered to Permian Basin Environmental Lab (PBEL) and/or Pace Analytical in Midland, Texas, for determination of BTEX 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 2023 reporting period due to the presence of PSH in the well.

Monitor Well MW-2

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

Monitor Well MW-3

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

Monitor Well MW-4

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

Monitor Well MW-5

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

Monitor Well MW-6

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

5.0 SUMMARY

This report presents the results of the monitoring activities for the 2023 annual monitoring period. Currently, there are six (6) groundwater monitor wells (MW-1 through MW-6) on-site. Monitor well MW-1 was not sampled in 2022 due to the presence of PSH in the well. Monitor wells MW-2, MW-4, and MW-5 were sampled during all four quarters of the monitoring period. Monitor wells MW-3 and MW-6 are on a semi-annual monitoring schedule and were not sampled during 2Q2023. The results of these sampling events are summarized above.

Groundwater gauging data collected during the monitoring period indicates a general gradient of approximately 0.002 to 0.003 feet/foot to the south-southeast as measured between monitor wells MW-2 and MW-4.

During the reporting period, approximately 91.0 gallons of dissolved-phase hydrocarbon-impacted groundwater and 2.27 gallons of PSH were recovered by manual recovery from monitor well MW-1. The average PSH thickness measured in monitor well MW-1 during the reporting period was 0.93 feet, and the maximum PSH thickness observed was 1.15 feet on July 28, 2023.

An AFR event was conducted on monitor well MW-1 in August 2023. A total of approximately 350 gallons (8.33 bbls) of hydrocarbon-impacted groundwater were recovered from the monitor well during the event.

Effluent air samples collected from the exhaust port of the SVE system during the monitoring period indicated a decrease in average emissions of TPH from 2.25 tons/year in 2022 to 0.93 tons/year in 2023. The average emission volume decreased from 2.11 gal/day in 2022 to 0.86 gal/day in 2023. Effluent air samples were below the AQB criteria of 10 tons of TPH per year throughout the 2023 reporting period.

Review of laboratory analytical results from groundwater samples collected during the reporting period indicated 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.

6.0 ANTICIPATED ACTIONS

Monitor wells MW-2, MW-4, and MW-5 will continue to be monitored and sampled quarterly. Monitor wells MW-3 and MW-6 will be sampled on a semi-annual basis.

In lieu of manual recovery, monthly AFR events will be conducted from monitor well MW-1 in an effort to control the down-gradient migration of the dissolved-phase plume.

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

Results from the 2024 sampling events will be reported in the *2024 Annual Monitoring Report*, which will be submitted to the NMOCD by April 1, 2025.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *2023 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 reference 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

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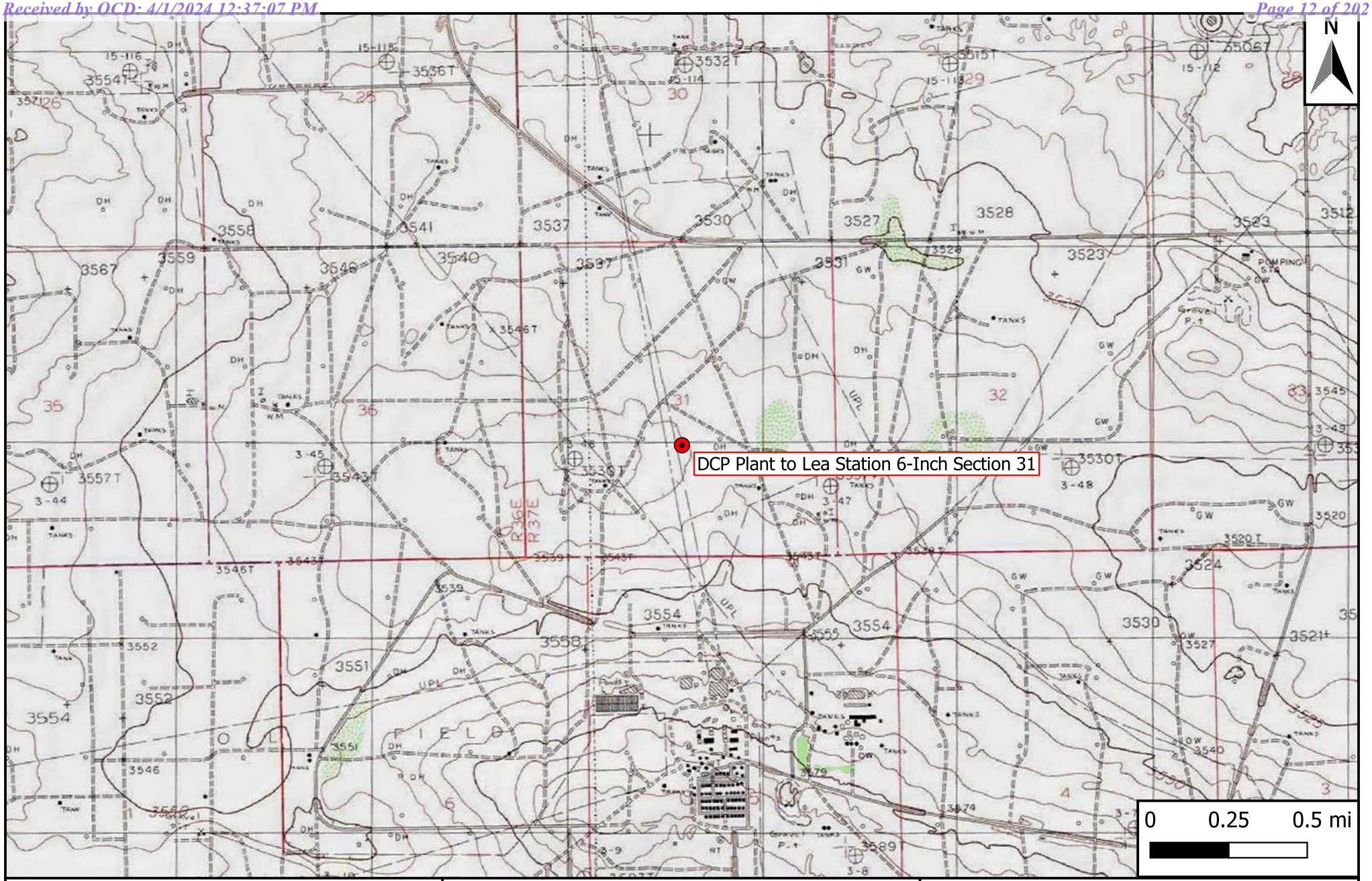
Jeff Dann
Plains All American Pipeline, LP
333 Clay Street, Suite 1600
Houston, Texas 77002

(Electronic Submission)

Figure 1
Site Location Map



Legend

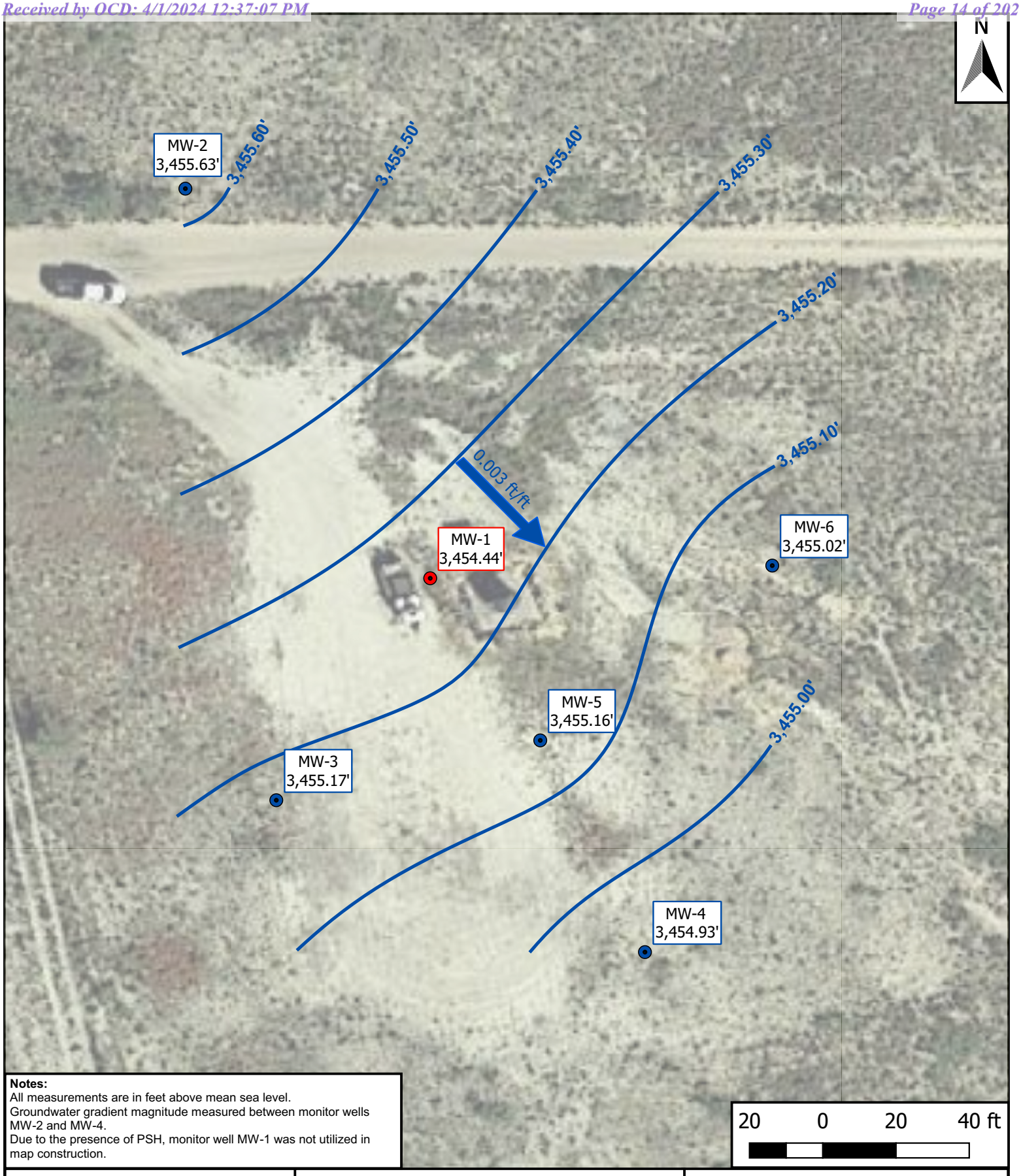
- Site Location

Figure 1
Site Location Map
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch Section 31
GPS: 32.52733,-103.29060
Lea County, New Mexico

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 3/28/24

Figures 2A - 2D
Inferred Groundwater Gradient Maps



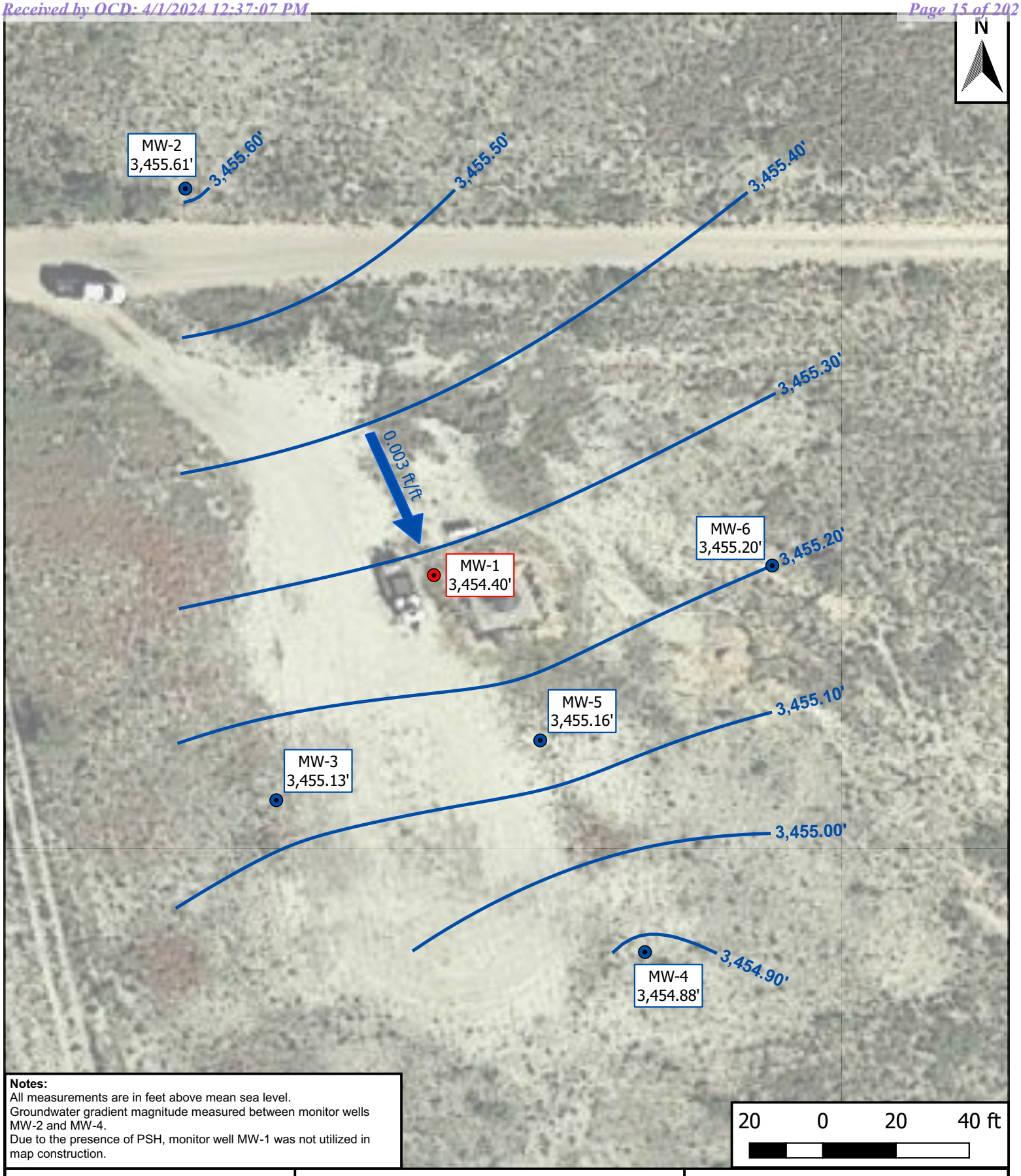
Notes:
All measurements are in feet above mean sea level.
Groundwater gradient magnitude measured between monitor wells MW-2 and MW-4.
Due to the presence of PSH, monitor well MW-1 was not utilized in map construction.

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

Figure 2A
Inferred Groundwater Gradient Map – 1Q2023
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch Section 31
GPS: 32.52733,-103.29060
Lea County, New Mexico

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 3/28/24



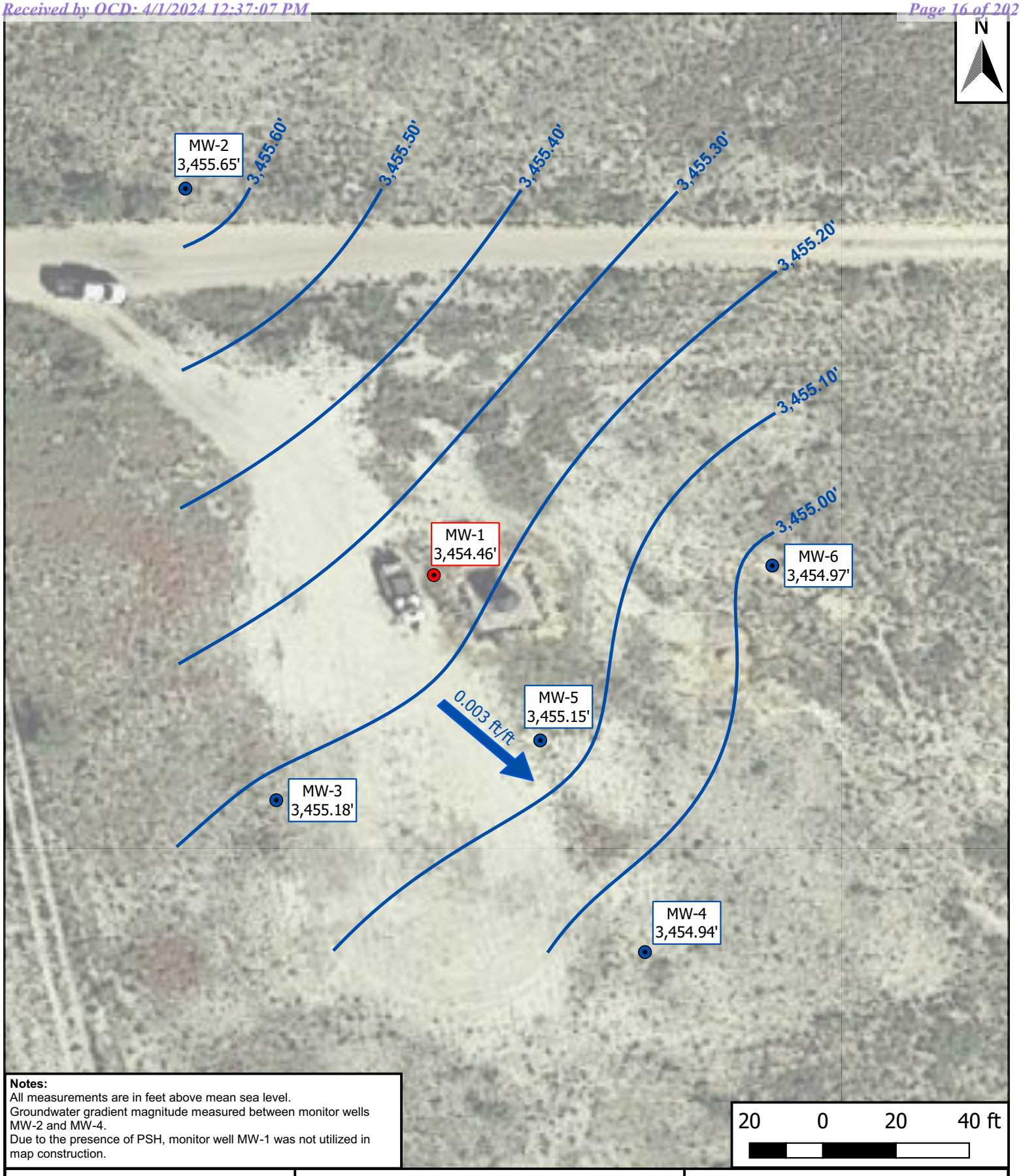
Notes:
All measurements are in feet above mean sea level.
Groundwater gradient magnitude measured between monitor wells MW-2 and MW-4.
Due to the presence of PSH, monitor well MW-1 was not utilized in map construction.

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

Figure 2B
Inferred Groundwater Gradient Map – 2Q2023
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch Section 31
GPS: 32.52733,-103.29060
Lea County, New Mexico

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 3/28/24



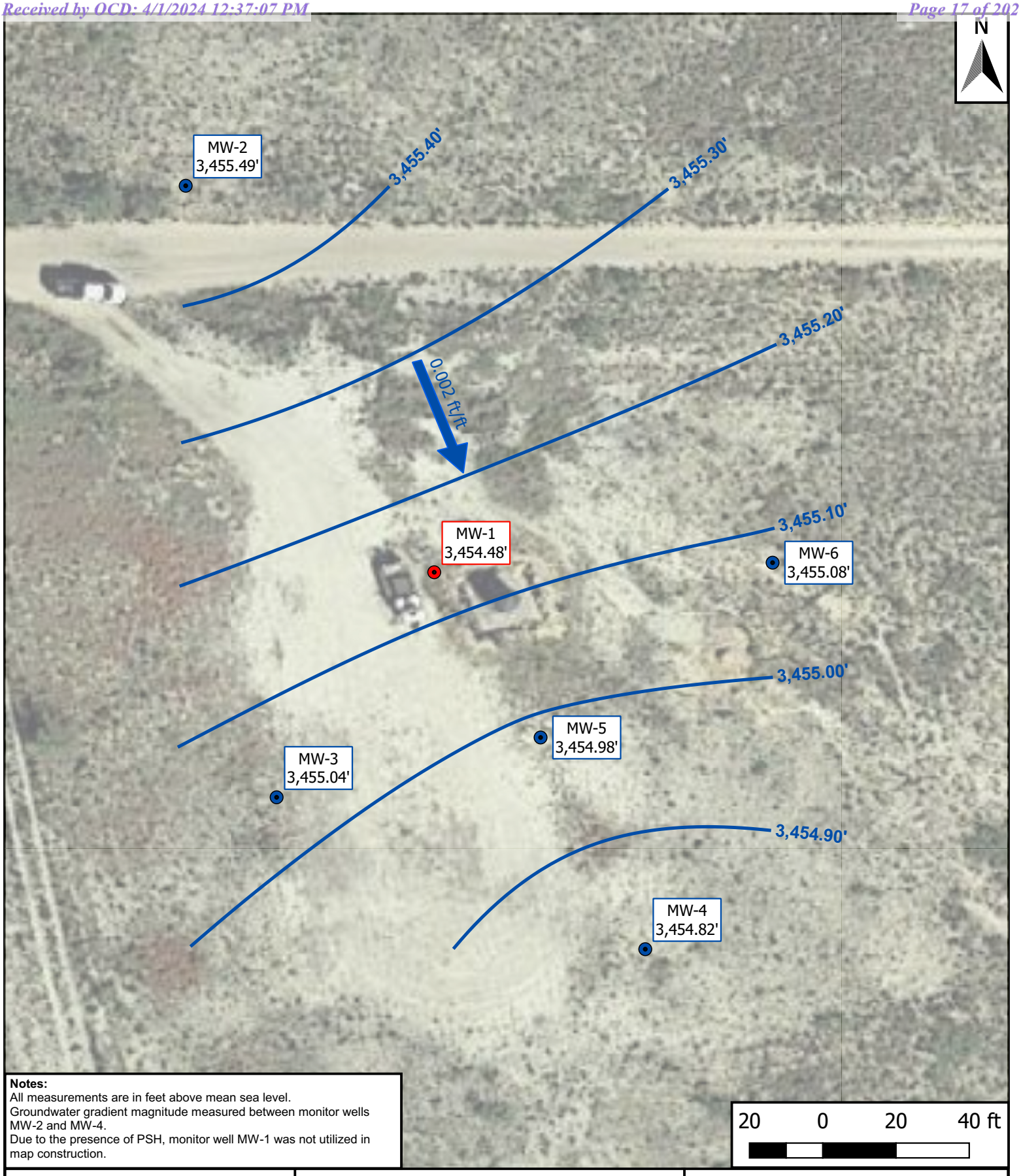
Notes:
All measurements are in feet above mean sea level.
Groundwater gradient magnitude measured between monitor wells MW-2 and MW-4.
Due to the presence of PSH, monitor well MW-1 was not utilized in map construction.

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

Figure 2C
Inferred Groundwater Gradient Map – 3Q2023
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch Section 31
GPS: 32.52733,-103.29060
Lea County, New Mexico

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 3/28/24



Notes:
All measurements are in feet above mean sea level.
Groundwater gradient magnitude measured between monitor wells MW-2 and MW-4.
Due to the presence of PSH, monitor well MW-1 was not utilized in map construction.

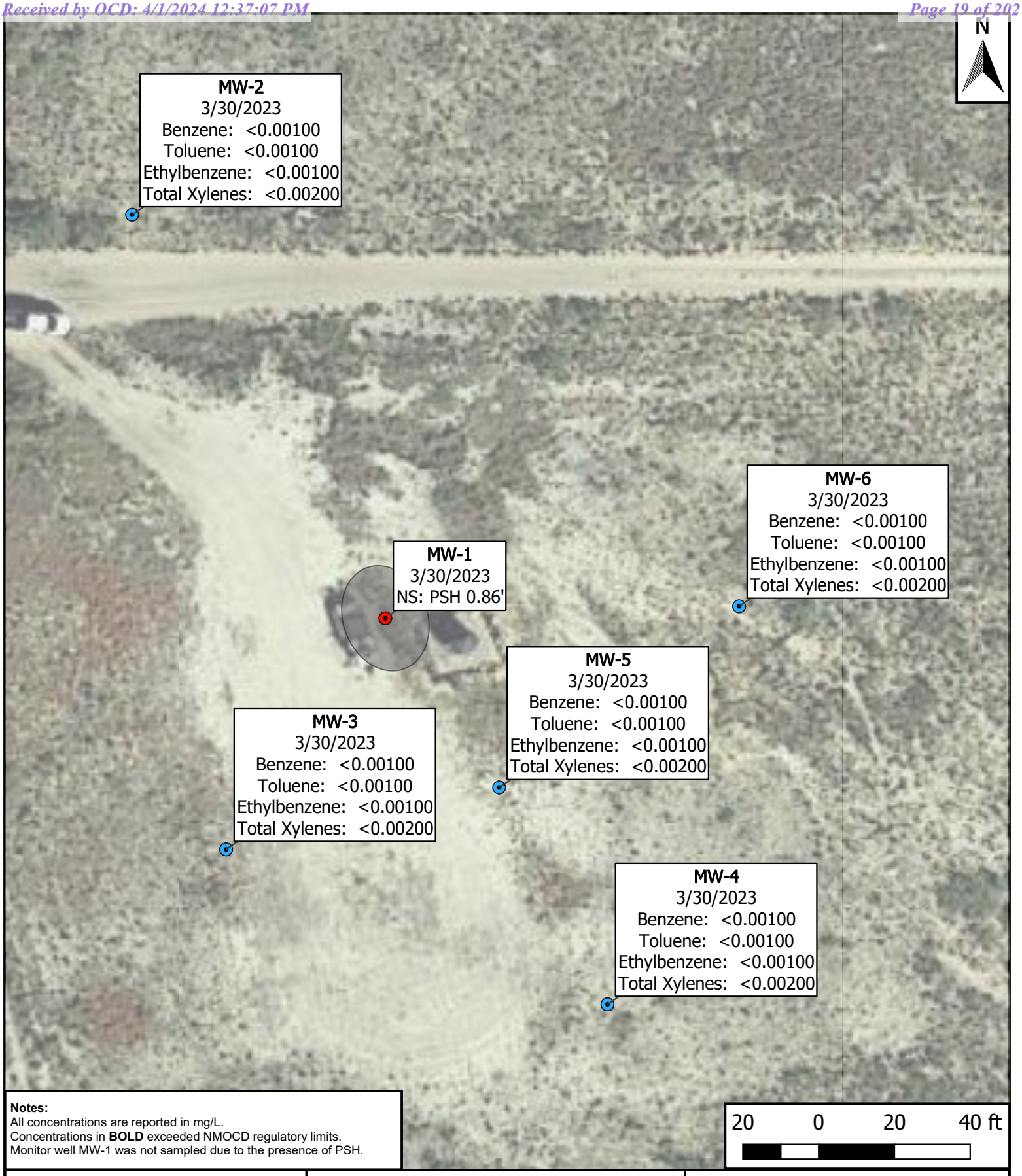
Legend
- Monitor Well
- Recovery Well
- Groundwater Gradient/Magnitude
- Groundwater Elevation Contour (ft)

Figure 2D
Inferred Groundwater Gradient Map – 4Q2023
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch Section 31
GPS: 32.52733,-103.29060
Lea County, New Mexico

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 3/28/24

Figures 3A - 3D
Groundwater Concentration Maps



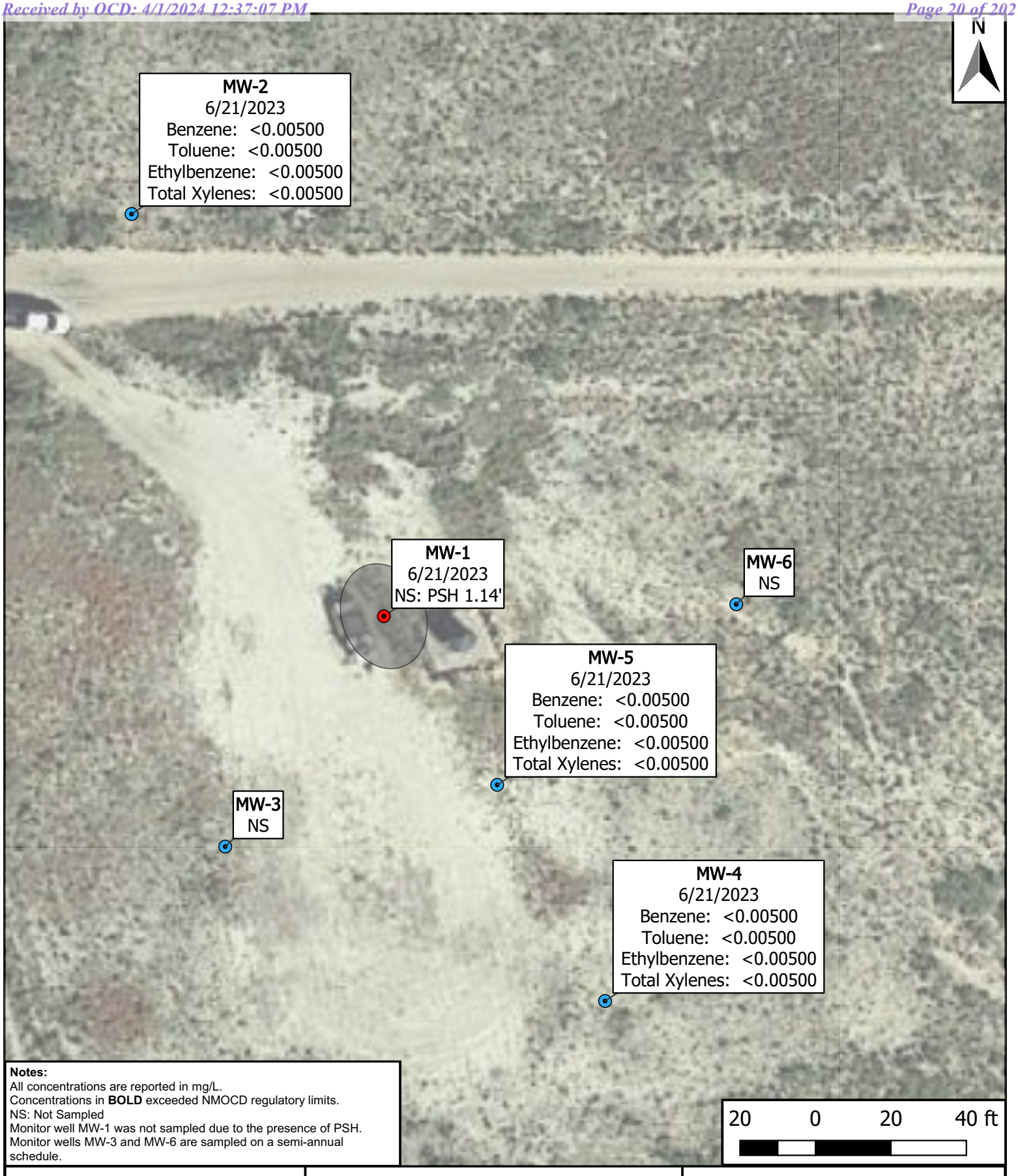
Notes:
All concentrations are reported in mg/L.
Concentrations in **BOLD** exceeded NMOCD regulatory limits.
Monitor well MW-1 was not sampled due to the presence of PSH.

Legend
- Monitor Well (MW)
- Recovery Well
- Free Phase Plume

Figure 3A
Groundwater Concentration Map – 1Q2023
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch Section 31
GPS: 32.52733,-103.29060
Lea County, New Mexico

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 4/18/23



Notes:
All concentrations are reported in mg/L.
Concentrations in **BOLD** exceeded NMOCD regulatory limits.
NS: Not Sampled
Monitor well MW-1 was not sampled due to the presence of PSH.
Monitor wells MW-3 and MW-6 are sampled on a semi-annual schedule.

Legend
- Monitor Well
- Recovery Well
- Free Phase Plume

Figure 3B
Groundwater Concentration Map – 2Q2023
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch Section 31
GPS: 32.52733,-103.29060
Lea County, New Mexico

eTECH Environmental & Safety Solutions, Inc.

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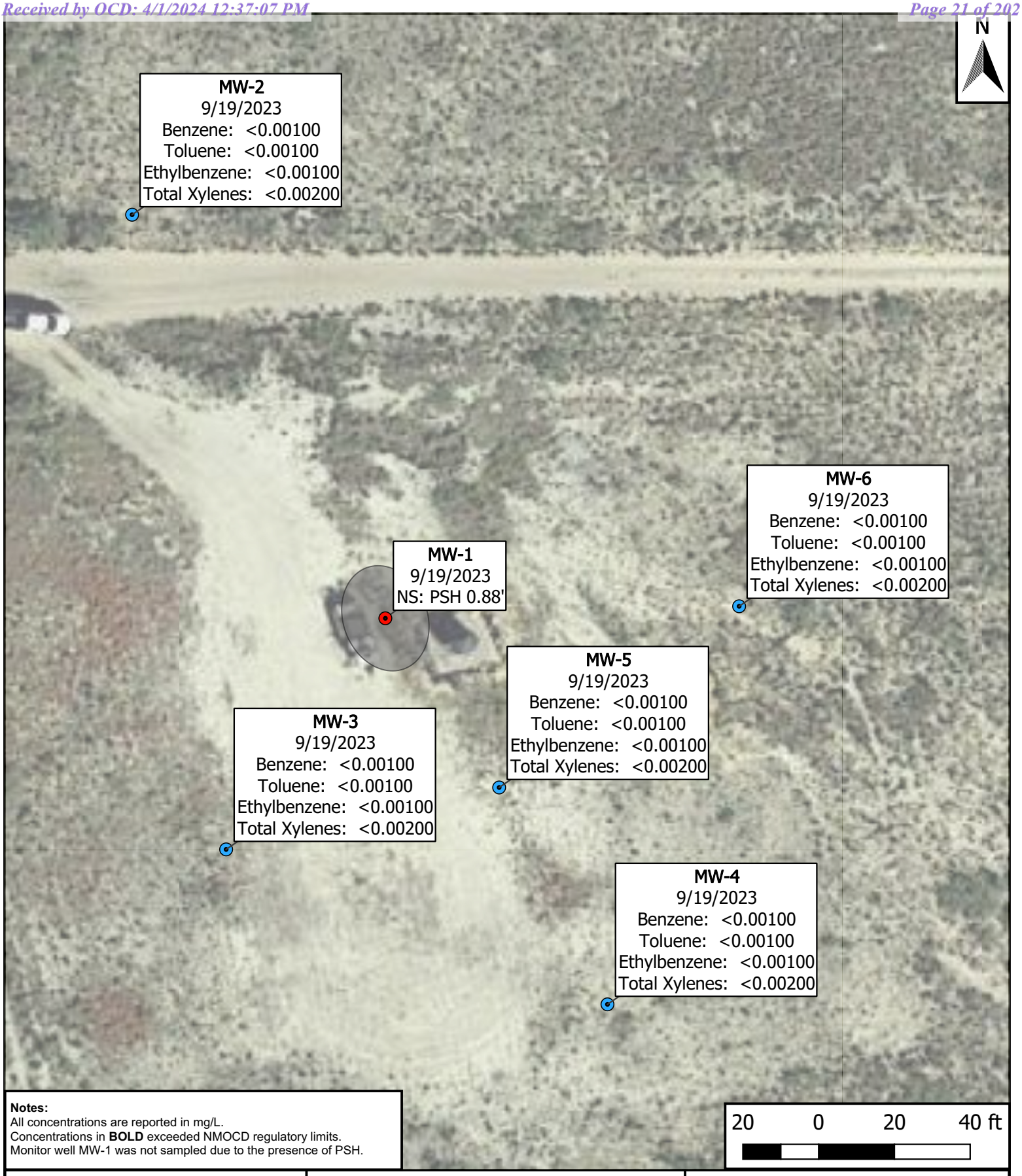


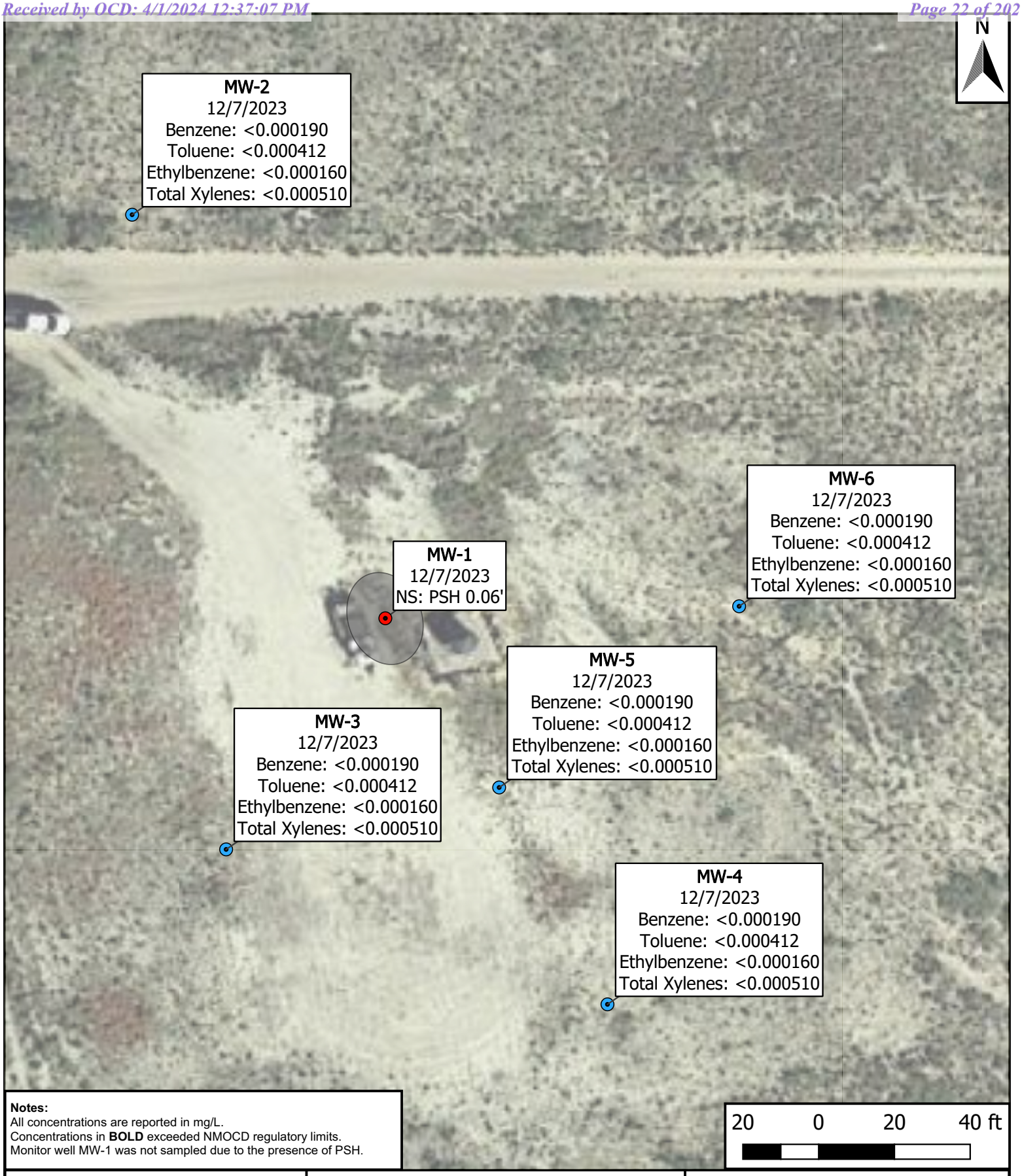
Notes:
All concentrations are reported in mg/L.
Concentrations in **BOLD** exceeded NMOCD regulatory limits.
Monitor well MW-1 was not sampled due to the presence of PSH.

Legend
- Monitor Well
- Recovery Well
- Free Phase Plume

Figure 3C
Groundwater Concentration Map – 3Q2023
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch Section 31
GPS: 32.52733,-103.29060
Lea County, New Mexico

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 9/25/23



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

Legend
- Monitor Well
- Recovery Well
- Free Phase Plume

Figure 3D
Groundwater Concentration Map – 4Q2023
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch Section 31
GPS: 32.52733,-103.29060
Lea County, New Mexico

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 2/7/24

Tables 1 - 4

Table 1
Groundwater Elevation & PSH[1] Thickness Summary

DCP Plant to Lea Station 6-Inch Sec. 31
Lea County, New Mexico
Plains SRS #: 2009-084
Etech Project #: 14743
NMOCD[2] Incident ID #: nAPP2109734163

All elevation measurements are in feet above mean sea level

Monitoring Well (Well Diameter ")	Date Gauged	Top of Casing (TOC)[3] Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation
MW-1 (4")	03/10/2022	3,539.59	85.09	85.95	0.86	3,454.37
	06/13/2022		85.00	86.00	1.00	3,454.44
	09/06/2022		84.49	85.13	0.64	3,455.00
	02/10/2023		85.09	86.19	1.10	3,454.34
	03/29/2023		85.02	85.88	0.86	3,454.44
	06/21/2023		85.02	86.16	1.14	3,454.40
	09/19/2023		85.00	85.88	0.88	3,454.46
	12/07/2023		85.10	85.16	0.06	3,454.48
MW-2 (2")	03/10/2022	3,539.37	-	83.78	-	3,455.59
	06/13/2022		-	83.71	-	3,455.66
	09/06/2022		-	83.77	-	3,455.60
	02/10/2023		-	83.79	-	3,455.58
	03/29/2023		-	83.74	-	3,455.63
	06/21/2023		-	83.76	-	3,455.61
	09/19/2023		-	83.72	-	3,455.65
	12/07/2023		-	83.88	-	3,455.49
MW-3 (2")	03/10/2022	3,539.28	-	84.00	-	3,455.28
	6/13/2022		-	84.10	-	3,455.18
	09/06/2022		-	84.11	-	3,455.17
	02/10/2023		-	84.15	-	3,455.13
	03/29/2023		-	84.11	-	3,455.17
	06/21/2023		-	84.15	-	3,455.13
	09/19/2023		-	84.10	-	3,455.18
	12/07/2023		-	84.24	-	3,455.04
MW-4 (2")	03/10/2022	3,540.07	-	85.16	-	3,454.91
	06/13/2022		-	85.05	-	3,455.02
	09/06/2022		-	85.13	-	3,454.94
	02/10/2023		-	85.19	-	3,454.88
	03/29/2023		-	85.14	-	3,454.93
	06/21/2023		-	85.19	-	3,454.88
	09/19/2023		-	85.13	-	3,454.94
	12/07/2023		-	85.25	-	3,454.82
MW-5 (4")	03/10/2022	3,539.90	-	84.79	-	3,455.11
	06/13/2022		-	84.68	-	3,455.22
	09/06/2022		-	84.74	-	3,455.16
	02/10/2023		-	84.83	-	3,455.07
	03/29/2023		-	84.74	-	3,455.16
	06/21/2023		-	84.74	-	3,455.16
	09/19/2023		-	84.75	-	3,455.15
	12/07/2023		-	84.92	-	3,454.98
MW-6 (2")	03/10/2022	3,540.82	-	85.58	-	3,455.24
	06/13/2022		-	85.55	-	3,455.27
	09/06/2022		-	85.60	-	3,455.22
	02/10/2023		-	85.68	-	3,455.14
	03/29/2023		-	85.80	-	3,455.02
	06/21/2023		-	85.62	-	3,455.20
	09/19/2023		-	85.85	-	3,454.97
	12/07/2023		-	85.74	-	3,455.08

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.

Table 2
Groundwater BTEX[1] Concentration Analytical Summary

DCP Plant to Lea Station 6-Inch Sec. 31
Lea County, New Mexico
Plains SRS #: 2009-084
Etech Project #: 17473
NMOCD[2] Incident ID #: nAPP2109734163

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

Monitoring Well	Date Sampled	EPA SW846-8021B						
		Benzene	Toluene	Ethylbenzene	M,P-Xylenes	O-Xylenes	Total Xylenes	Total BTEX
NMOCD RRAL CRITERIA[3]		0.01	0.75	0.75	TOTAL XYLENES 0.62			NE[4]
MW-1	03/10/22	Not Sampled due to presence of PSH						
	06/13/22							
	09/08/22							
	02/10/23							
	03/30/23							
	06/21/23							
	09/19/23							
	12/07/23							
MW-2	03/10/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400
	DUP-1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400
	06/13/22	<0.000408	0.000614 J	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	09/08/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124
	02/10/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.0100
	03/30/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	06/21/23	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.0100
	09/19/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	12/07/23	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
MW-3	03/10/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400
	06/13/22	Inadvertently Not Sampled						
	09/08/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124
	02/10/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.0100
	03/30/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	06/21/23	Well Not Sampled (Semi-Annual Schedule)						
	09/19/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	12/07/23	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
MW-4	03/10/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400
	06/13/22	<0.000408	0.000620 J	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	09/08/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124
	02/10/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.0100
	03/30/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	06/21/23	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.0100
	09/19/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	12/07/23	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
MW-5	03/10/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400
	06/13/22	<0.000408	0.000957 J	<0.000657	<0.000629	<0.000642	<0.000642	0.000957
	DUP-1	<0.000408	0.000684 J	<0.000657	<0.000629	<0.000642	<0.000642	0.000684
	09/08/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124
	DUP-1	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124
	02/10/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.0100
	03/30/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	06/21/23	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.0100
	09/19/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	12/07/23	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
	DUP-1	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
MW-6	03/10/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400
	06/13/22	Inadvertently Not Sampled						
	09/08/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124
	02/10/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.0100
	03/30/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	06/21/23	Well Not Sampled (Semi-Annual Schedule)						
	09/19/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	12/07/23	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510

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

TABLE 3
SVE[1] Emission Analytical Summary - BTEX[2] & TPH[3]

DCP Plant to Lea Station 6-Inch Sec. 31
Lea County, New Mexico
Etech Project #: 17473
Plains SRS#: 2009-084
NMOCD Incident ID#: nAPP2109734163

Sample I.D.	Sample Date	Laboratory	BTEX / TPH (mg/m³)	Emission Mass[4] (tons/year)	Emission Volume (gal/day)
New Mexico Environment Department (NMED) Air Quality Burea (AQB) Action Level requiring an Air Permit				**10**	-
EFF-1 (03323)	03/03/2023	Eurofins Xenco	Benzene - 0.359	0.000244	0.000184
			Toluene - 0.275	0.000187	0.000141
			Ethylbenzene - <0.230	0.00	0.00
			Total Xylene - 0.784	0.000534	0.000534
			Total BTEX - 1.42	0.000965	0.000965
			TPH - GRO - 575	0.391421	0.361421
EFF-1 (051523)	05/15/2023	PBEL	Benzene - 0.255	0.000174	0.000131
			Toluene - 0.182	0.000124	0.000093
			Ethylbenzene - <0.500	0.00	0.00
			Total Xylene - 0.430	0.000293	0.000220
			Total BTEX - 0.867	0.000590	0.000444
			TPH - GRO - NA	NA	NA
EFF-1 (060223)	06/20/2023	Pace	Benzene - 2.48	0.00169	0.00127
			Toluene - 1.95	0.00133	0.000998
			Ethylbenzene - 0.51	0.000345	0.000259
			Total Xylene - 6.25	0.00425	0.00320
			Total BTEX - 11.2	0.00762	0.00573
			TPH - GRO - 2,340	1.59	1.47
EFF-1 (072823)	07/28/2023	Pace	Benzene - 0.594	0.000404	0.000304
			Toluene - 1.10	0.000749	0.000563
			Ethylbenzene - 0.43	0.000295	0.000222
			Total Xylene - 4.39	0.00299	0.00225
			Total BTEX - 6.52	0.00444	0.00334
			TPH - GRO - 810	0.55	0.51

Notes:

1. SVE: Soil Vapor Extraction
2. BTEX: Benzene, toluene, ethylbenzene, total xylene analyzed by EPA Method 8021B
3. TPH: Total petroleum hydrocarbons analyzed by EPA Method 8015
4. Emission Mass calculated assuming flowrate 1.1073 (m^3/min) and constituent concentration were constant for the entirety of a year.

NA: Indicates constituant was not analyzed

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

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

TABLE 3
SVE[1] Emission Analytical Summary - BTEX[2] & TPH[3]

DCP Plant to Lea Station 6-Inch Sec. 31
Lea County, New Mexico
Etech Project #: 17473
Plains SRS#: 2009-084
NMOCD Incident ID#: nAPP2109734163

Sample I.D.	Sample Date	Laboratory	BTEX / TPH (mg/m³)	Emission Mass[4] (tons/year)	Emission Volume (gal/day)
New Mexico Environment Department (NMED) Air Quality Burea (AQB) Action Level requiring an Air Permit				**10**	-
EFF-1 (082523)	08/25/2023	Pace	Benzene - 1.25	0.000851	0.000640
			Toluene - 1.13	0.000769	0.000578
			Ethylbenzene - 0.41	0.000278	0.000209
			Total Xylene - 5.34	0.00364	0.00273
			Total BTEX - 8.13	0.00553	0.00416
			TPH - GRO - 1,310	0.89	0.82
EFF-1 (092923)	09/29/2023	Pace	Benzene - <0.639	0.00	0.00
			Toluene - 0.258	0.000176	0.000132
			Ethylbenzene - 0.101	0.0000688	0.0000517
			Total Xylene - 1.02	0.000694	0.000522
			Total BTEX - 1.38	0.000939	0.000706
			TPH - GRO - 673	0.458	0.424
EFF-1 (112023)	11/20/2023	PBEL	Benzene - <0.00400	0.00	0.00
			Toluene - <0.0100	0.00	0.00
			Ethylbenzene - <0.0100	0.00	0.00
			Total Xylene - <0.0200	0.00	0.00
			Total BTEX - <0.0200	0.00	0.00
			TPH - GRO - NA	NA	NA
EFF-1 (122823)	12/28/2023	Pace	Benzene - 0.543	0.000370	0.000278
			Toluene - 1.31	0.000892	0.000670
			Ethylbenzene - 0.46	0.000310	0.000233
			Total Xylene - 3.12	0.00212	0.00160
			Total BTEX - 5.43	0.00370	0.00278
			TPH - GRO - 2,480	1.69	1.56
			2023 TPH Average:	0.93	0.86

Notes:

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

NA: Indicates constituant was not analyzed

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

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

Table 4

MW-1 SVE[1] System Operation, PSH[2] Thickness & Recovery Summary

DCP Plant to Lea Station 6-Inch Sec. 31

Lea County, New Mexico

Plains SRS #: 2009-084

Etech Project #: 17473

NMOCD[3] Incident ID #: nAPP2109734163

All measurements are in feet above mean sea level

Monitoring Well	Date	Top of Casing (TOC)[4] Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH Thickness (feet)	PID[5] Reading	SVE Unit Hours of Operation	Total Fluid Recovery (gallons)	PSH Recovered (gallons)
MW-1	01/27/2022	3,540.25	85.01	85.88	0.87	4,374.0	1,510.0	5.00	0.14
	02/24/2022		85.18	85.97	0.79	874.5	1,512.0	5.00	0.13
	03/28/2022		84.67	85.26	0.59	475.2	1,517.0	5.00	0.10
	04/25/2022		84.98	85.62	0.64	727.9	1,514.0	10.0	0.10
	05/19/2022		84.82	85.35	0.53	411.4	1,514.0	5.00	0.086
	06/13/2022		85.00	86.00	1.00	-	-	-	-
	06/29/2022		84.94	86.00	1.06	128.5	1,515.0	5.00	0.17
	08/22/2022		84.76	85.51	0.75	-	-	5.00	0.12
	09/06/2022		84.49	85.13	0.64	-	-	-	-
	09/29/2022		84.47	85.14	0.67	-	686.1	5.00	0.11
	10/20/2022		84.57	85.34	0.77	374.4	1,131.7	5.00	0.13
	11/28/2022		84.60	85.49	0.89	637.8	-	5.00	0.15
	02/10/2023		85.09	86.19	1.10	-	-	-	0.18
	03/03/2023		-	-	-	-	-	5.0	0.15
	03/29/2023		85.02	85.88	0.86	-	-	11.0	0.14
	05/09/2023		-	-	-	-	-	5.0	0.15
	05/15/2023		84.71	85.49	0.78	-	4,593.8	4.50	0.13
	05/30/2023		84.88	85.79	0.91		4,950.9	5.00	0.15
	06/21/2023		85.02	86.16	1.14	-	-	5.00	0.19
	07/28/2023		85.01	86.16	1.15	-	5,842.0	5.00	0.19
	08/07/2023		84.72	85.48	0.76	-	-	350	0.12
	08/22/2023		-	-	-	-	-	5.0	0.15
	08/25/2023		84.70	85.50	0.80		6,290.7	5.00	0.13
	09/19/2023		85.00	85.88	0.88	-	-	5.00	0.14
	10/09/2023		-	-	-	-	-	25.0	0.16
	11/20/2023		85.14	86.21	1.07	-	7,030.1	5.00	0.17
	12/28/2023		84.72	85.45	0.73	-	-	5.00	0.12
2023 Average PSH Thickness					**0.93**	**2023 Totals Recovered**		**441**	**2.27**

Notes:

1. SVE: Soil Vapor Extraction
2. PSH: Phase Separated Hydrocarbons
3. NMOCD: New Mexico Oil Conservation Division
4. TOC: Top Of Casing
5. PID: Photoionization Detector

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

Appendix A
Laboratory Analytical Reports
(Groundwater)

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

PBELAB

Analytical Report

Prepared for:

Joel Lowry

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100

Odessa, TX 79765

Project: Plains-DCP Sec. 31

Project Number: 17473

Location: Lea County, NM

Lab Order Number: 3D03010

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 04/17/23

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	3D03010-01	Water	03/30/23 08:25	04-03-2023 14:40
MW-6	3D03010-02	Water	03/30/23 10:00	04-03-2023 14:40
MW-3	3D03010-03	Water	03/30/23 08:45	04-03-2023 14:40
MW-5	3D03010-04	Water	03/30/23 09:25	04-03-2023 14:40
MW-2	3D03010-05	Water	03/30/23 10:10	04-03-2023 14:40

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

MW-4

3D03010-01 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 23:56	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 23:56	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 23:56	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 23:56	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 23:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3D0603*	*04/06/23 10:11*	*04/06/23 23:56*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*80-120*		*P3D0603*	*04/06/23 10:11*	*04/06/23 23:56*	*EPA 8021B*	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

MW-6

3D03010-02 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/07/23 00:17	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/07/23 00:17	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/07/23 00:17	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3D0603	04/06/23 10:11	04/07/23 00:17	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/07/23 00:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3D0603*	*04/06/23 10:11*	*04/07/23 00:17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.2 %*	*80-120*		*P3D0603*	*04/06/23 10:11*	*04/07/23 00:17*	*EPA 8021B*	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

MW-3

3D03010-03 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:05	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:05	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:05	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:05	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P3D0606*	*04/06/23 11:35*	*04/07/23 03:05*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.9 %*	*80-120*		*P3D0606*	*04/06/23 11:35*	*04/07/23 03:05*	*EPA 8021B*	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

MW-5

3D03010-04 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:27	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:27	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:27	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:27	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:27	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3D0606*	*04/06/23 11:35*	*04/07/23 03:27*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.9 %*	*80-120*		*P3D0606*	*04/06/23 11:35*	*04/07/23 03:27*	*EPA 8021B*	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

MW-2

3D03010-05 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:48	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:48	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:48	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:48	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3D0606	04/06/23 11:35	04/07/23 03:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3D0606*	*04/06/23 11:35*	*04/07/23 03:48*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.3 %*	*80-120*		*P3D0606*	*04/06/23 11:35*	*04/07/23 03:48*	*EPA 8021B*	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

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 P3D0603 - * DEFAULT PREP *** **										
Blank (P3D0603-BLK1)				Prepared & Analyzed: 04/06/23						
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	*0.111*		"	*0.120*		*92.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.123*		"	*0.120*		*103*	*80-120*			
LCS (P3D0603-BS1)				Prepared & Analyzed: 04/06/23						
Benzene	0.118	0.00100	mg/L	0.100		118	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.225	0.00200	"	0.200		112	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	*0.112*		"	*0.120*		*93.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.120*		*102*	*80-120*			
LCS Dup (P3D0603-BSD1)				Prepared & Analyzed: 04/06/23						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120	1.28	20	
Toluene	0.119	0.00100	"	0.100		119	80-120	5.95	20	
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120	5.28	20	
Xylene (p/m)	0.239	0.00200	"	0.200		119	80-120	6.05	20	
Xylene (o)	0.111	0.00100	"	0.100		111	80-120	6.13	20	
Surrogate: 4-Bromofluorobenzene	*0.115*		"	*0.120*		*95.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.120*		*102*	*80-120*			
Calibration Blank (P3D0603-CCB1)				Prepared & Analyzed: 04/06/23						
Benzene	0.180		ug/l							
Toluene	0.320		"							
Ethylbenzene	0.570		"							
Xylene (p/m)	1.00		"							
Xylene (o)	0.580		"							
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

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 P3D0603 - * DEFAULT PREP *** **										
Calibration Blank (P3D0603-CCB2)				Prepared & Analyzed: 04/06/23						
Benzene	0.170		ug/l							
Toluene	0.180		"							
Ethylbenzene	0.270		"							
Xylene (p/m)	0.630		"							
Xylene (o)	0.330		"							
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*98.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.9*	*80-120*			
Calibration Check (P3D0603-CCV1)				Prepared & Analyzed: 04/06/23						
Benzene	0.115	0.00100	mg/L	0.100		115	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.224	0.00200	"	0.200		112	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			
Calibration Check (P3D0603-CCV2)				Prepared & Analyzed: 04/06/23						
Benzene	0.0938	0.00100	mg/L	0.100		93.8	80-120			
Toluene	0.0903	0.00100	"	0.100		90.3	80-120			
Ethylbenzene	0.0861	0.00100	"	0.100		86.1	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.4	80-120			
Xylene (o)	0.0846	0.00100	"	0.100		84.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.118*		*"*	*0.120*		*98.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.1*	*80-120*			
Calibration Check (P3D0603-CCV3)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.106	0.00100	mg/L	0.100		106	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.214	0.00200	"	0.200		107	80-120			
Xylene (o)	0.0994	0.00100	"	0.100		99.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*98.9*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
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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 P3D0603 - * DEFAULT PREP *** **										
Matrix Spike (P3D0603-MS1)	**Source: 3C28006-01**			Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.116	0.00100	mg/L	0.100	ND	116	80-120			
Toluene	0.115	0.00100	"	0.100	ND	115	80-120			
Ethylbenzene	0.120	0.00100	"	0.100	ND	120	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200	ND	117	80-120			
Xylene (o)	0.104	0.00100	"	0.100	ND	104	80-120			
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Matrix Spike Dup (P3D0603-MSD1)	**Source: 3C28006-01**			Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.106	0.00100	mg/L	0.100	ND	106	80-120	9.04	20	
Toluene	0.106	0.00100	"	0.100	ND	106	80-120	8.25	20	
Ethylbenzene	0.111	0.00100	"	0.100	ND	111	80-120	7.57	20	
Xylene (p/m)	0.220	0.00200	"	0.200	ND	110	80-120	6.51	20	
Xylene (o)	0.0981	0.00100	"	0.100	ND	98.1	80-120	5.82	20	
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.120*		*107*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			
Batch P3D0606 - * DEFAULT PREP *** **										
Blank (P3D0606-BLK1)				Prepared: 04/06/23 Analyzed: 04/07/23						
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	*0.123*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*96.2*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

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 P3D0606 - * DEFAULT PREP *** **										
LCS (P3D0606-BS1)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.0980	0.00100	mg/L	0.100		98.0	80-120			
Toluene	0.0975	0.00100	"	0.100		97.5	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0910	0.00100	"	0.100		91.0	80-120			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.5*	*80-120*			
LCS Dup (P3D0606-BSD1)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.0974	0.00100	mg/L	0.100		97.4	80-120	0.645	20	
Toluene	0.0972	0.00100	"	0.100		97.2	80-120	0.308	20	
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120	0.500	20	
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120	0.0248	20	
Xylene (o)	0.0912	0.00100	"	0.100		91.2	80-120	0.165	20	
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.1*	*80-120*			
Calibration Blank (P3D0606-CCB1)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.120		ug/l							
Toluene	0.240		"							
Ethylbenzene	0.500		"							
Xylene (p/m)	1.00		"							
Xylene (o)	0.520		"							
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*98.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.3*	*80-120*			
Calibration Blank (P3D0606-CCB2)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.150		ug/l							
Toluene	0.200		"							
Ethylbenzene	0.330		"							
Xylene (p/m)	0.670		"							
Xylene (o)	0.410		"							
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.3*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
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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 P3D0606 - * DEFAULT PREP *** **										
Calibration Check (P3D0606-CCV1)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.106	0.00100	mg/L				80-120			
Toluene	0.105	0.00100	"				80-120			
Ethylbenzene	0.101	0.00100	"				80-120			
Xylene (p/m)	0.214	0.00200	"				80-120			
Xylene (o)	0.0994	0.00100	"				80-120			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*98.9*	*80-120*			
Calibration Check (P3D0606-CCV2)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.112	0.00100	mg/L				80-120			
Toluene	0.112	0.00100	"				80-120			
Ethylbenzene	0.108	0.00100	"				80-120			
Xylene (p/m)	0.226	0.00200	"				80-120			
Xylene (o)	0.104	0.00100	"				80-120			
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.120*		*107*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.4*	*80-120*			
Calibration Check (P3D0606-CCV3)				Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.0994	0.00100	mg/L				80-120			
Toluene	0.0977	0.00100	"				80-120			
Ethylbenzene	0.0941	0.00100	"				80-120			
Xylene (p/m)	0.199	0.00200	"				80-120			
Xylene (o)	0.0914	0.00100	"				80-120			
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*94.8*	*80-120*			
Matrix Spike (P3D0606-MS1)		**Source: 3D03010-03**		Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.0960	0.00100	mg/L	0.100	ND	96.0	80-120			
Toluene	0.0928	0.00100	"	0.100	ND	92.8	80-120			
Ethylbenzene	0.0921	0.00100	"	0.100	ND	92.1	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200	ND	89.5	80-120			
Xylene (o)	0.0808	0.00100	"	0.100	ND	80.8	80-120			
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.7*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

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 P3D0606 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3D0606-MSD1)	**Source: 3D03010-03**			Prepared: 04/06/23 Analyzed: 04/07/23						
Benzene	0.0942	0.00100	mg/L	0.100	ND	94.2	80-120	1.88	20	
Toluene	0.0911	0.00100	"	0.100	ND	91.1	80-120	1.85	20	
Ethylbenzene	0.0929	0.00100	"	0.100	ND	92.9	80-120	0.800	20	
Xylene (p/m)	0.181	0.00200	"	0.200	ND	90.6	80-120	1.23	20	
Xylene (o)	0.0826	0.00100	"	0.100	ND	82.6	80-120	2.19	20	
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

Notes and Definitions

ROI	Received on Ice
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: Brent Barron Date: 4/17/2023

Brent Barron, Laboratory Director/Technical Director

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Manager: Joel Lowry
Company Name: Plains All American Pipeline, L.P.
Company Address: 1106 Griffith Drive
City/State/Zip: Midland, TX 79706
Telephone No: Fax No:
Sampler Signature: Miguel Ramirez e-mail: pm@etechenv.com

Project Name: DCP Sec. 31
Project #: 17473
Project Loc: Lea County, NM
PO #: 2009-084
Report Format: X Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 3003010

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3 250ml Poly	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None 1L Poly	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge / GW = Groundwater S=Soil/Solid / NP=Non-Potable Specify Other	Analyze For: TPH by TX 1005 8015B 8015M	Chloride	BTEX by 8021B	Rush 24 48 72 (Please call)	Standard
1	MW 4	-	-	03/30/23	8:25		3	X		X						GW			X		X
2	MW 6	-	-	03/30/23	10:00		3	X		X						GW			X		X
3	MW 3	-	-	03/30/23	8:45		3	X		X						GW			X		X
4	MW 5	-	-	03/30/23	9:25		3	X		X						GW			X		X
5	MW 2	-	-	03/30/23	10:10		3	X		X						GW			X		X
		-	-				3	X		X						GW			X		X
		-	-				3	X		X						GW			X		X
		-	-				3	X		X						GW			X		X
		-	-				3	X		X						GW			X		X
		-	-				3	X		X						GW			X		X

Special Instructions:
Bill to Plains, Care of Camille Bryant

Relinquished by:	Date	Time	Received by:	Date	Time
Joel Lowry	4/3/23	14:40			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
			Tina Bledsoe	4/5/23	14:40

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Couner? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 4.3 °C
Adjusted: °C Factor NCF 3

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

PBELAB

Analytical Report

Prepared for:

Joel Lowry

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100

Odessa, TX 79765

Project: DCP sec. 31

Project Number: 17473

Location: RURAL LEA COUNTY, NM

Lab Order Number: 3F29013

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 07/17/23

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW2	3F29013-01	Water	06/21/23 13:30	06-29-2023 13:09
MW4	3F29013-02	Water	06/21/23 12:46	06-29-2023 13:09
MW5	3F29013-03	Water	06/21/23 11:10	06-29-2023 13:09

8260 BTEX analysis was subcontracted to ALS Houston. Their report is attached after the Chain of Custody These samples were analyzed 2 days after holding time expiration. Their TCEQ TNI certification number can be found here: https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

MW2

3F29013-01 (Water)

Permian Basin Environmental Lab, L.P.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.00500	mg/L	1	P3G1713	07/07/23 13:47	07/07/23 13:47	EPA 8260B	O-04, SUB-13
Ethylbenzene	ND	0.00500	mg/L	1	P3G1713	07/07/23 13:47	07/07/23 13:47	EPA 8260B	O-04, SUB-13
m,p-Xylene	ND	0.0100	mg/L	1	P3G1713	07/07/23 13:47	07/07/23 13:47	EPA 8260B	O-04, SUB-13
o-Xylene	ND	0.00500	mg/L	1	P3G1713	07/07/23 13:47	07/07/23 13:47	EPA 8260B	O-04, SUB-13
Toluene	ND	0.00500	mg/L	1	P3G1713	07/07/23 13:47	07/07/23 13:47	EPA 8260B	O-04, SUB-13
Xylenes, total (v/v)	ND	0.00500	mg/L	1	P3G1713	07/07/23 13:47	07/07/23 13:47	EPA 8260B	O-04, SUB-13

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

MW4

3F29013-02 (Water)

Permian Basin Environmental Lab, L.P.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.00500	mg/L	1	P3G1713	07/07/23 14:09	07/07/23 14:09	EPA 8260B	O-04, SUB-13
Ethylbenzene	ND	0.00500	mg/L	1	P3G1713	07/07/23 14:09	07/07/23 14:09	EPA 8260B	O-04, SUB-13
m,p-Xylene	ND	0.0100	mg/L	1	P3G1713	07/07/23 14:09	07/07/23 14:09	EPA 8260B	O-04, SUB-13
o-Xylene	ND	0.00500	mg/L	1	P3G1713	07/07/23 14:09	07/07/23 14:09	EPA 8260B	O-04, SUB-13
Toluene	ND	0.00500	mg/L	1	P3G1713	07/07/23 14:09	07/07/23 14:09	EPA 8260B	O-04, SUB-13
Xylenes, total (v/v)	ND	0.00500	mg/L	1	P3G1713	07/07/23 14:09	07/07/23 14:09	EPA 8260B	O-04, SUB-13

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

MW5

3F29013-03 (Water)

Permian Basin Environmental Lab, L.P.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.00500	mg/L	1	P3G1713	07/07/23 14:32	07/07/23 14:32	EPA 8260B	O-04, SUB-13
Ethylbenzene	ND	0.00500	mg/L	1	P3G1713	07/07/23 14:32	07/07/23 14:32	EPA 8260B	O-04, SUB-13
m,p-Xylene	ND	0.0100	mg/L	1	P3G1713	07/07/23 14:32	07/07/23 14:32	EPA 8260B	O-04, SUB-13
o-Xylene	ND	0.00500	mg/L	1	P3G1713	07/07/23 14:32	07/07/23 14:32	EPA 8260B	O-04, SUB-13
Toluene	ND	0.00500	mg/L	1	P3G1713	07/07/23 14:32	07/07/23 14:32	EPA 8260B	O-04, SUB-13
Xylenes, total (v/v)	ND	0.00500	mg/L	1	P3G1713	07/07/23 14:32	07/07/23 14:32	EPA 8260B	O-04, SUB-13

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

Notes and Definitions

SUB-13	Subcontract of analyte/analysis to ALS Houston.
ROI	Received on Ice
pH1	The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.
O-04	This sample was analyzed outside the EPA recommended holding time.
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: Brent Barron Date: 7/17/2023

Brent Barron, Laboratory Director/Technical Director

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Manager: Zach Conder
Company Name: ETech Environmental
Company Address: 2617 W. Marland
City/State/Zip: Hobbs, NM 88240
Telephone No: 575-396-2378 Fax No: 575-396-1429
Sampler Signature: [signature] e-mail: PM@etechenv.com

Project Name: DCP Sec. 31
Project #: 17431
Project Loc: Rural Lea co., NM
PO #: 2009-084
Report Format: X Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 3F29013

1/1

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3 250 ml Poly	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None 1L Poly	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH by TX 1005 8015B 8015M	Chloride	BTEX by 8021B	Rush 24 48 72 (Please call)	Standard
1	MW2	-	-	6/21/23	1:30	G	3	X		X						GW			X		X
2	MW4	-	-	6.21.23	12:46	G	3	X		X						GW			X		X
3	MW5	-	-	6.21.23	11:10	G	3	X		X						GW			X		X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: [signature]	Date 6/29/23	Time 13:09

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 6.0 °C
Adjusted: 6.0 °C Factor

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron — **Project Name:** SUBCONTRACT

Company Name: PBEL — **Project #:**

Company Address: 1400 Rankin HWY — **Project Loc:**

City/State/Zip: Midland Texas 79701 — **PO #:**

Telephone No: 432-661-4184 — Fax No: — **Report Format:** X Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A — e-mail: brentbarron@pbelab.com

ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE	NONE 3 AMBER VOAA VIALS	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: BTEX 8021B TOTAL CALC												24 HOUR	STANDARD
	3F29013-01			6/21/2023	13:30		3	X		X						W	X												X
	3F29013-02			6/21/2023	12:46		3	X		X						W	X												X
	3F29013-03			6/21/2023	11:10		3	X		X						W	X												X

SPECIAL INSTRUCTIONS: **REPORT TO MDL RUN REGARDLESS OF HOLD TIME**

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: °C
Adjusted: °C Factor

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

July 10, 2023

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS23070254**

Laboratory Results for: **3F29013**

Dear Brent Barron,

ALS Environmental received 3 sample(s) on Jul 07, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Anna Kinchen
Project Manager

ALS Houston, US Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F29013
Work Order: HS23070254

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23070254-01	3F29013-01	Water		21-Jun-2023 13:30	07-Jul-2023 09:20	☐
HS23070254-02	3F29013-02	Water		21-Jun-2023 12:46	07-Jul-2023 09:20	☐
HS23070254-03	3F29013-03	Water		21-Jun-2023 11:10	07-Jul-2023 09:20	☐

ALS Houston, US Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP **CASE NARRATIVE**
Project: 3F29013
Work Order: HS23070254

GCMS Volatiles by Method SW8260

Batch ID: R440835

- Samples received and run out of hold.

ALS Houston, US Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F29013
Sample ID: 3F29013-01
Collection Date: 21-Jun-2023 13:30

ANALYTICAL REPORT
WorkOrder:HS23070254
Lab ID:HS23070254-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	**Method:SW8260**					Analyst: PC
Benzene	ND	H	0.0050	mg/L	1	07-Jul-2023 13:47
Ethylbenzene	ND	H	0.0050	mg/L	1	07-Jul-2023 13:47
m,p-Xylene	ND	H	0.010	mg/L	1	07-Jul-2023 13:47
o-Xylene	ND	H	0.0050	mg/L	1	07-Jul-2023 13:47
Toluene	ND	H	0.0050	mg/L	1	07-Jul-2023 13:47
Xylenes, Total	ND	H	0.0050	mg/L	1	07-Jul-2023 13:47
Surr: 1,2-Dichloroethane-d4	*104*		*70-126*	*%REC*	*1*	*07-Jul-2023 13:47*
Surr: 4-Bromofluorobenzene	*94.1*		*82-124*	*%REC*	*1*	*07-Jul-2023 13:47*
Surr: Dibromofluoromethane	*98.7*		*77-123*	*%REC*	*1*	*07-Jul-2023 13:47*
Surr: Toluene-d8	*106*		*82-127*	*%REC*	*1*	*07-Jul-2023 13:47*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F29013
Sample ID: 3F29013-02
Collection Date: 21-Jun-2023 12:46

ANALYTICAL REPORT
WorkOrder:HS23070254
Lab ID:HS23070254-02
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	**Method:SW8260**					Analyst: PC
Benzene	ND	H	0.0050	mg/L	1	07-Jul-2023 14:09
Ethylbenzene	ND	H	0.0050	mg/L	1	07-Jul-2023 14:09
m,p-Xylene	ND	H	0.010	mg/L	1	07-Jul-2023 14:09
o-Xylene	ND	H	0.0050	mg/L	1	07-Jul-2023 14:09
Toluene	ND	H	0.0050	mg/L	1	07-Jul-2023 14:09
Xylenes, Total	ND	H	0.0050	mg/L	1	07-Jul-2023 14:09
Surr: 1,2-Dichloroethane-d4	*102*		*70-126*	*%REC*	*1*	*07-Jul-2023 14:09*
Surr: 4-Bromofluorobenzene	*95.2*		*82-124*	*%REC*	*1*	*07-Jul-2023 14:09*
Surr: Dibromofluoromethane	*98.2*		*77-123*	*%REC*	*1*	*07-Jul-2023 14:09*
Surr: Toluene-d8	*109*		*82-127*	*%REC*	*1*	*07-Jul-2023 14:09*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F29013
Sample ID: 3F29013-03
Collection Date: 21-Jun-2023 11:10

ANALYTICAL REPORT
WorkOrder:HS23070254
Lab ID:HS23070254-03
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		**Method:SW8260**				Analyst: PC
Benzene	ND	H	0.0050	mg/L	1	07-Jul-2023 14:32
Ethylbenzene	ND	H	0.0050	mg/L	1	07-Jul-2023 14:32
m,p-Xylene	ND	H	0.010	mg/L	1	07-Jul-2023 14:32
o-Xylene	ND	H	0.0050	mg/L	1	07-Jul-2023 14:32
Toluene	ND	H	0.0050	mg/L	1	07-Jul-2023 14:32
Xylenes, Total	ND	H	0.0050	mg/L	1	07-Jul-2023 14:32
Surr: 1,2-Dichloroethane-d4	*104*		*70-126*	*%REC*	*1*	*07-Jul-2023 14:32*
Surr: 4-Bromofluorobenzene	*93.5*		*82-124*	*%REC*	*1*	*07-Jul-2023 14:32*
Surr: Dibromofluoromethane	*98.5*		*77-123*	*%REC*	*1*	*07-Jul-2023 14:32*
Surr: Toluene-d8	*108*		*82-127*	*%REC*	*1*	*07-Jul-2023 14:32*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F29013
WorkOrder: HS23070254

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R440835 (0)	**Test Name :** VOLATILES - SW8260C				**Matrix:** Water	
HS23070254-01	3F29013-01	21 Jun 2023 13:30			07 Jul 2023 13:47	1
HS23070254-02	3F29013-02	21 Jun 2023 12:46			07 Jul 2023 14:09	1
HS23070254-03	3F29013-03	21 Jun 2023 11:10			07 Jul 2023 14:32	1

ALS Houston, US Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F29013
WorkOrder: HS23070254

QC BATCH REPORT

Batch ID: R440835 (0) **Instrument: VOA9** **Method: VOLATILES - SW8260C**

MBLK Sample ID: **VBLKW-230707** Units: **ug/L** Analysis Date: **07-Jul-2023 13:02**
Client ID: Run ID: **VOA9_440835** SeqNo: **7409148** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
o-Xylene	ND	5.0								
Toluene	ND	5.0								
Xylenes, Total	ND	5.0								
Surr: 1,2-Dichloroethane-d4	*51.91*	*0*	*50*	*0*	*104*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*48.02*	*0*	*50*	*0*	*96.0*	*82 - 115*				
Surr: Dibromofluoromethane	*49.72*	*0*	*50*	*0*	*99.4*	*73 - 126*				
Surr: Toluene-d8	*53.07*	*0*	*50*	*0*	*106*	*81 - 120*				

LCS Sample ID: **VLCSW-230707** Units: **ug/L** Analysis Date: **07-Jul-2023 12:17**
Client ID: Run ID: **VOA9_440835** SeqNo: **7409147** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.26	5.0	20	0	106	74 - 120				
Ethylbenzene	21.3	5.0	20	0	107	77 - 117				
m,p-Xylene	44.94	10	40	0	112	77 - 122				
o-Xylene	22.42	5.0	20	0	112	75 - 119				
Toluene	21.76	5.0	20	0	109	77 - 118				
Xylenes, Total	67.35	5.0	60	0	112	75 - 122				
Surr: 1,2-Dichloroethane-d4	*56.24*	*0*	*50*	*0*	*112*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*52.1*	*0*	*50*	*0*	*104*	*82 - 115*				
Surr: Dibromofluoromethane	*54.38*	*0*	*50*	*0*	*109*	*73 - 126*				
Surr: Toluene-d8	*51.35*	*0*	*50*	*0*	*103*	*81 - 120*				

ALS Houston, US Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F29013
WorkOrder: HS23070254

QC BATCH REPORT

Batch ID: R440835 (0) **Instrument: VOA9** **Method: VOLATILES - SW8260C**

MS Sample ID: **HS23070249-01MS** Units: **ug/L** Analysis Date: **07-Jul-2023 16:01**
Client ID: Run ID: **VOA9_440835** SeqNo: **7409156** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.9	5.0	20	0	104	70 - 127				
Ethylbenzene	22.29	5.0	20	0	111	70 - 124				
m,p-Xylene	45.92	10	40	0	115	70 - 130				
o-Xylene	22.35	5.0	20	0	112	70 - 124				
Toluene	22.33	5.0	20	0	112	70 - 123				
Xylenes, Total	68.27	5.0	60	0	114	70 - 130				
Surr: 1,2-Dichloroethane-d4	*50.11*	*0*	*50*	*0*	*100*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*49.54*	*0*	*50*	*0*	*99.1*	*82 - 124*				
Surr: Dibromofluoromethane	*49.61*	*0*	*50*	*0*	*99.2*	*77 - 123*				
Surr: Toluene-d8	*56.11*	*0*	*50*	*0*	*112*	*82 - 127*				

MSD Sample ID: **HS23070249-01MSD** Units: **ug/L** Analysis Date: **07-Jul-2023 16:24**
Client ID: Run ID: **VOA9_440835** SeqNo: **7409157** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.42	5.0	20	0	102	70 - 127	20.9	2.31	20	
Ethylbenzene	21.97	5.0	20	0	110	70 - 124	22.29	1.44	20	
m,p-Xylene	45.71	10	40	0	114	70 - 130	45.92	0.444	20	
o-Xylene	22.11	5.0	20	0	111	70 - 124	22.35	1.09	20	
Toluene	21.44	5.0	20	0	107	70 - 123	22.33	4.03	20	
Xylenes, Total	67.82	5.0	60	0	113	70 - 130	68.27	0.653	20	
Surr: 1,2-Dichloroethane-d4	*50.18*	*0*	*50*	*0*	*100*	*70 - 126*	*50.11*	*0.147*	*20*	
Surr: 4-Bromofluorobenzene	*50.6*	*0*	*50*	*0*	*101*	*82 - 124*	*49.54*	*2.12*	*20*	
Surr: Dibromofluoromethane	*49.78*	*0*	*50*	*0*	*99.6*	*77 - 123*	*49.61*	*0.328*	*20*	
Surr: Toluene-d8	*54.65*	*0*	*50*	*0*	*109*	*82 - 127*	*56.11*	*2.64*	*20*	

The following samples were analyzed in this batch: HS23070254-01 HS23070254-02 HS23070254-03

ALS Houston, US Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F29013
WorkOrder: **HS23070254**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

ALS Houston, US Date: 10-Jul-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087-2023	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US Date: 10-Jul-23

Sample Receipt Checklist

Work Order ID: HS23070254 **Date/Time Received:** 07-Jul-2023 09:20

Client Name: Permian Basin Lab **Received by:** Paresh M. Giga

Completed By:	/S/ Ragen Giga	07-Jul-2023 10:57	**Reviewed by:**	/S/ Anna Kinchen	10-Jul-2023 09:54
	eSignature	Date/Time		eSignature	Date/Time

Matrices: water Carrier name: FedEx Priority Overnight

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☐	No ☑	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☐	No ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	5.8uc/5.7c	IR31
Cooler(s)/Kit(s):	Red	
Date/Time sample(s) sent to storage:	07/07/2023 11:30	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes: Proceed with analyses (sample past Hold Time)

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

HS23070254

Permian Basin Environmental Lab, LP
3F29013

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Manager: Brent Barron

Company Name: PBEL

Company Address: 1400 Rankin HWY

City/State/Zip: Midland Texas 79701

Telephone No: 432-661-4184

Fax No:

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

Project #:

Project Loc:

PO #:

Report Format: X Standard ☐ TRRP ☐ NPDES

ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	ICE (Preservation & # of Containers)	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE	NONE 3 AMBER VOAA VIALS	Matrix (DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	BTEX 8021B TOTAL CALC (Analyze For:)													24 HOUR	STANDARD
	3F29013-01			6/21/2023	13:30		3	X		X						W	X														X
	3F29013-02			6/21/2023	12:46		3	X		X						W	X														X
	3F29013-03			6/21/2023	11:10		3	X		X						W	X														X

Res UVC 5.8° #31 CF-01

SPECIAL INSTRUCTIONS: <u>REPORT TO MDL RUN REGARDLESS OF HOLD TIME</u>

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron	7/5/23	17:00	7/7/23		
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received: °C
Adjusted: °C Factor

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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

PBELAB

Analytical Report

Prepared for:

Joel Lowry

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100

Odessa, TX 79765

Project: Plains-DCP Sec. 31

Project Number: 17473

Location: Lea County, NM

Lab Order Number: 3I19025

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 09/22/23

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	3I19025-01	Water	09/19/23 08:00	09-19-2023 14:16
MW-3	3I19025-02	Water	09/19/23 08:30	09-19-2023 14:16
MW-4	3I19025-03	Water	09/19/23 09:00	09-19-2023 14:16
MW-5	3I19025-04	Water	09/19/23 09:30	09-19-2023 14:16
MW-6	3I19025-05	Water	09/19/23 10:30	09-19-2023 14:16

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

MW-2

3I19025-01 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I2010	09/20/23 10:20	09/21/23 08:39	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2010	09/20/23 10:20	09/21/23 08:39	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2010	09/20/23 10:20	09/21/23 08:39	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2010	09/20/23 10:20	09/21/23 08:39	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2010	09/20/23 10:20	09/21/23 08:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*92.4 %*	*80-120*		*P3I2010*	*09/20/23 10:20*	*09/21/23 08:39*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.7 %*	*80-120*		*P3I2010*	*09/20/23 10:20*	*09/21/23 08:39*	*EPA 8021B*	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

MW-3

3I19025-02 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I2010	09/20/23 10:20	09/21/23 09:02	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2010	09/20/23 10:20	09/21/23 09:02	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2010	09/20/23 10:20	09/21/23 09:02	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2010	09/20/23 10:20	09/21/23 09:02	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2010	09/20/23 10:20	09/21/23 09:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.9 %*	*80-120*		*P3I2010*	*09/20/23 10:20*	*09/21/23 09:02*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.2 %*	*80-120*		*P3I2010*	*09/20/23 10:20*	*09/21/23 09:02*	*EPA 8021B*	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

MW-4

3I19025-03 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:10	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:10	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:10	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:10	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*92.9 %*	*80-120*		*P3I2104*	*09/21/23 09:38*	*09/21/23 13:10*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.8 %*	*80-120*		*P3I2104*	*09/21/23 09:38*	*09/21/23 13:10*	*EPA 8021B*	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

MW-5

3I19025-04 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:33	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:33	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:33	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:33	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*80-120*		*P3I2104*	*09/21/23 09:38*	*09/21/23 13:33*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.9 %*	*80-120*		*P3I2104*	*09/21/23 09:38*	*09/21/23 13:33*	*EPA 8021B*	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

MW-6

3I19025-05 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:57	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:57	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:57	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:57	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 13:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*94.5 %*	*80-120*		*P3I2104*	*09/21/23 09:38*	*09/21/23 13:57*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.6 %*	*80-120*		*P3I2104*	*09/21/23 09:38*	*09/21/23 13:57*	*EPA 8021B*	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

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 P3I2010 - * DEFAULT PREP *** **										
Blank (P3I2010-BLK1)				Prepared: 09/20/23 Analyzed: 09/21/23						
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	*0.111*		"	*0.120*		*92.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.5*	*80-120*			
LCS (P3I2010-BS1)				Prepared & Analyzed: 09/20/23						
Benzene	0.0976	0.00100	mg/L	0.100		97.6	80-120			
Toluene	0.0931	0.00100	"	0.100		93.1	80-120			
Ethylbenzene	0.0956	0.00100	"	0.100		95.6	80-120			
Xylene (p/m)	0.191	0.00200	"	0.200		95.5	80-120			
Xylene (o)	0.0844	0.00100	"	0.100		84.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.106*		"	*0.120*		*88.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.1*	*80-120*			
LCS Dup (P3I2010-BSD1)				Prepared: 09/20/23 Analyzed: 09/21/23						
Benzene	0.0941	0.00100	mg/L	0.100		94.1	80-120	3.63	20	
Toluene	0.0902	0.00100	"	0.100		90.2	80-120	3.11	20	
Ethylbenzene	0.0935	0.00100	"	0.100		93.5	80-120	2.17	20	
Xylene (p/m)	0.186	0.00200	"	0.200		93.1	80-120	2.55	20	
Xylene (o)	0.0817	0.00100	"	0.100		81.7	80-120	3.28	20	
Surrogate: 4-Bromofluorobenzene	*0.110*		"	*0.120*		*92.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.2*	*80-120*			
Calibration Blank (P3I2010-CCB1)				Prepared & Analyzed: 09/20/23						
Benzene	0.0900		ug/l							
Toluene	0.0500		"							
Ethylbenzene	0.0900		"							
Xylene (p/m)	0.100		"							
Xylene (o)	0.0800		"							
Surrogate: 4-Bromofluorobenzene	*0.107*		"	*0.120*		*89.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.5*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

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 P3I2010 - * DEFAULT PREP *** **										
Calibration Blank (P3I2010-CCB2)				Prepared: 09/20/23 Analyzed: 09/21/23						
Benzene	0.130		ug/l							
Toluene	0.100		"							
Ethylbenzene	0.0500		"							
Xylene (p/m)	0.0800		"							
Xylene (o)	0.100		"							
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.120*		*91.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.5*	*80-120*			
Calibration Check (P3I2010-CCV1)				Prepared & Analyzed: 09/20/23						
Benzene	0.0897	0.00100	mg/L	0.100		89.7	80-120			
Toluene	0.0933	0.00100	"	0.100		93.3	80-120			
Ethylbenzene	0.0956	0.00100	"	0.100		95.6	80-120			
Xylene (p/m)	0.200	0.00200	"	0.200		99.9	80-120			
Xylene (o)	0.0912	0.00100	"	0.100		91.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.120*		*91.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.4*	*80-120*			
Calibration Check (P3I2010-CCV2)				Prepared: 09/20/23 Analyzed: 09/21/23						
Benzene	0.0881	0.00100	mg/L	0.100		88.1	80-120			
Toluene	0.0941	0.00100	"	0.100		94.1	80-120			
Ethylbenzene	0.0974	0.00100	"	0.100		97.4	80-120			
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0931	0.00100	"	0.100		93.1	80-120			
Surrogate: 4-Bromofluorobenzene	*0.109*		*"*	*0.120*		*90.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.4*	*80-120*			
Calibration Check (P3I2010-CCV3)				Prepared: 09/20/23 Analyzed: 09/21/23						
Benzene	0.0894	0.00100	mg/L	0.100		89.4	80-120			
Toluene	0.0943	0.00100	"	0.100		94.3	80-120			
Ethylbenzene	0.0978	0.00100	"	0.100		97.8	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200		100	80-120			
Xylene (o)	0.0924	0.00100	"	0.100		92.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.120*		*91.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.4*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

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 P3I2010 - * DEFAULT PREP *** **										
Matrix Spike (P3I2010-MS1)	**Source: 3I15006-01**			Prepared: 09/20/23 Analyzed: 09/21/23						
Benzene	0.0991	0.00100	mg/L	0.100	ND	99.1	80-120			
Toluene	0.0910	0.00100	"	0.100	ND	91.0	80-120			
Ethylbenzene	0.0932	0.00100	"	0.100	ND	93.2	80-120			
Xylene (p/m)	0.182	0.00200	"	0.200	ND	91.1	80-120			
Xylene (o)	0.0792	0.00100	"	0.100	ND	79.2	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.100*		"	*0.120*		*83.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*94.8*	*80-120*			
Matrix Spike Dup (P3I2010-MSD1)	**Source: 3I15006-01**			Prepared: 09/20/23 Analyzed: 09/21/23						
Benzene	0.0913	0.00100	mg/L	0.100	ND	91.3	80-120	8.21	20	
Toluene	0.0865	0.00100	"	0.100	ND	86.5	80-120	5.00	20	
Ethylbenzene	0.0887	0.00100	"	0.100	ND	88.7	80-120	4.97	20	
Xylene (p/m)	0.175	0.00200	"	0.200	ND	87.7	80-120	3.81	20	
Xylene (o)	0.0759	0.00100	"	0.100	ND	75.9	80-120	4.32	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.120*		*85.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.4*	*80-120*			
Batch P3I2104 - * DEFAULT PREP *** **										
Blank (P3I2104-BLK1)				Prepared & Analyzed: 09/21/23						
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	*0.111*		"	*0.120*		*92.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.8*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

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 P3I2104 - * DEFAULT PREP *** **										
LCS (P3I2104-BS1)				Prepared & Analyzed: 09/21/23						
Benzene	0.0985	0.00100	mg/L	0.100		98.5	80-120			
Toluene	0.0957	0.00100	"	0.100		95.7	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.1	80-120			
Xylene (o)	0.0869	0.00100	"	0.100		86.9	80-120			
Surrogate: 4-Bromofluorobenzene	*0.110*		"	*0.120*		*91.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.3*	*80-120*			
LCS Dup (P3I2104-BSD1)				Prepared & Analyzed: 09/21/23						
Benzene	0.0946	0.00100	mg/L	0.100		94.6	80-120	4.13	20	
Toluene	0.0912	0.00100	"	0.100		91.2	80-120	4.87	20	
Ethylbenzene	0.0956	0.00100	"	0.100		95.6	80-120	5.12	20	
Xylene (p/m)	0.189	0.00200	"	0.200		94.5	80-120	4.80	20	
Xylene (o)	0.0829	0.00100	"	0.100		82.9	80-120	4.75	20	
Surrogate: 4-Bromofluorobenzene	*0.111*		"	*0.120*		*92.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.9*	*80-120*			
Calibration Blank (P3I2104-CCB1)				Prepared & Analyzed: 09/21/23						
Benzene	0.0900		ug/l							
Toluene	0.130		"							
Ethylbenzene	0.0700		"							
Xylene (p/m)	0.100		"							
Xylene (o)	0.120		"							
Surrogate: 4-Bromofluorobenzene	*0.110*		"	*0.120*		*91.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.8*	*80-120*			
Calibration Blank (P3I2104-CCB2)				Prepared & Analyzed: 09/21/23						
Benzene	0.120		ug/l							
Toluene	0.130		"							
Ethylbenzene	0.0900		"							
Xylene (p/m)	0.0900		"							
Xylene (o)	0.140		"							
Surrogate: 4-Bromofluorobenzene	*0.110*		"	*0.120*		*92.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.4*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

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 P3I2104 - * DEFAULT PREP *** **										
Calibration Check (P3I2104-CCV1)				Prepared & Analyzed: 09/21/23						
Benzene	0.0891	0.00100	mg/L	0.100		89.1	80-120			
Toluene	0.0947	0.00100	"	0.100		94.7	80-120			
Ethylbenzene	0.0990	0.00100	"	0.100		99.0	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.0931	0.00100	"	0.100		93.1	80-120			
Surrogate: 4-Bromofluorobenzene	*0.108*		*"*	*0.120*		*90.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*96.0*	*80-120*			
Calibration Check (P3I2104-CCV2)				Prepared & Analyzed: 09/21/23						
Benzene	0.0881	0.00100	mg/L	0.100		88.1	80-120			
Toluene	0.0932	0.00100	"	0.100		93.2	80-120			
Ethylbenzene	0.0958	0.00100	"	0.100		95.8	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.6	80-120			
Xylene (o)	0.0914	0.00100	"	0.100		91.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.109*		*"*	*0.120*		*90.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.1*	*80-120*			
Calibration Check (P3I2104-CCV3)				Prepared & Analyzed: 09/21/23						
Benzene	0.0878	0.00100	mg/L	0.100		87.8	80-120			
Toluene	0.0907	0.00100	"	0.100		90.7	80-120			
Ethylbenzene	0.0932	0.00100	"	0.100		93.2	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		96.8	80-120			
Xylene (o)	0.0889	0.00100	"	0.100		88.9	80-120			
Surrogate: 4-Bromofluorobenzene	*0.107*		*"*	*0.120*		*89.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.6*	*80-120*			
Matrix Spike (P3I2104-MS1)		**Source: 3I19025-03**		Prepared & Analyzed: 09/21/23						
Benzene	0.0913	0.00100	mg/L	0.100	ND	91.3	80-120			
Toluene	0.0883	0.00100	"	0.100	ND	88.3	80-120			
Ethylbenzene	0.0922	0.00100	"	0.100	ND	92.2	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200	ND	91.6	80-120			
Xylene (o)	0.0799	0.00100	"	0.100	ND	79.9	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.109*		*"*	*0.120*		*90.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.2*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

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 P3I2104 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3I2104-MSD1)		**Source: 3I19025-03**		Prepared & Analyzed: 09/21/23						
Benzene	0.0862	0.00100	mg/L	0.100	ND	86.2	80-120	5.72	20	
Toluene	0.0806	0.00100	"	0.100	ND	80.6	80-120	9.12	20	
Ethylbenzene	0.0832	0.00100	"	0.100	ND	83.2	80-120	10.2	20	
Xylene (p/m)	0.165	0.00200	"	0.200	ND	82.4	80-120	10.6	20	
Xylene (o)	0.0713	0.00100	"	0.100	ND	71.3	80-120	11.4	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.107*		*"*	*0.120*		*88.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*96.1*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

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: Brent Barron Date: 9/22/2023

Brent Barron, Laboratory Director/Technical Director

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Plains-DCP Sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Manager: Joel Lowry

Company Name: Plains All American Pipeline, L.P.

Company Address: 1106 Griffith Drive

City/State/Zip: Midland, TX 79706

Telephone No: 575·318·1735 Fax No:

Sampler Signature: Miguel Ramirez e-mail: pm@etechenv.com

Project Name: DCP Sec. 31

Project #: 17473

Project Loc: Lea County, NM

PO #: 2009-084

Report Format: X Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: 3I19025

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3 250ml Poly	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None 1L Poly	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TPH by TX 1005 8015B 8015M	Chloride	BTEX by 8021B	Rush 24 48 72 (Please call)	Standard
1	MW2			9/19/23	08:00		3	X		X							GW				X		X
2	MW3			9/19/23	08:30		3	X		X							GW				X		X
3	MW4			9/19/23	9:00		3	X		X							GW				X		X
4	MW5			9/19/23	9:30		3	X		X							GW				X		X
5	MW6			9/19/23	10:30		3	X		X							GW				X		X

Special Instructions:
Bill to Plains, Care of Camille Bryant

	Date	Time		Date	Time
Relinquished by:	9/19/23	14:16			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: Thomas Bledsoe	9/19/23	14:16

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 4.1 °C
Adjusted: 4.1 °C Factor

NCF 13

ANALYTICAL REPORT

December 27, 2023

Plains All American Pipeline - ETECH

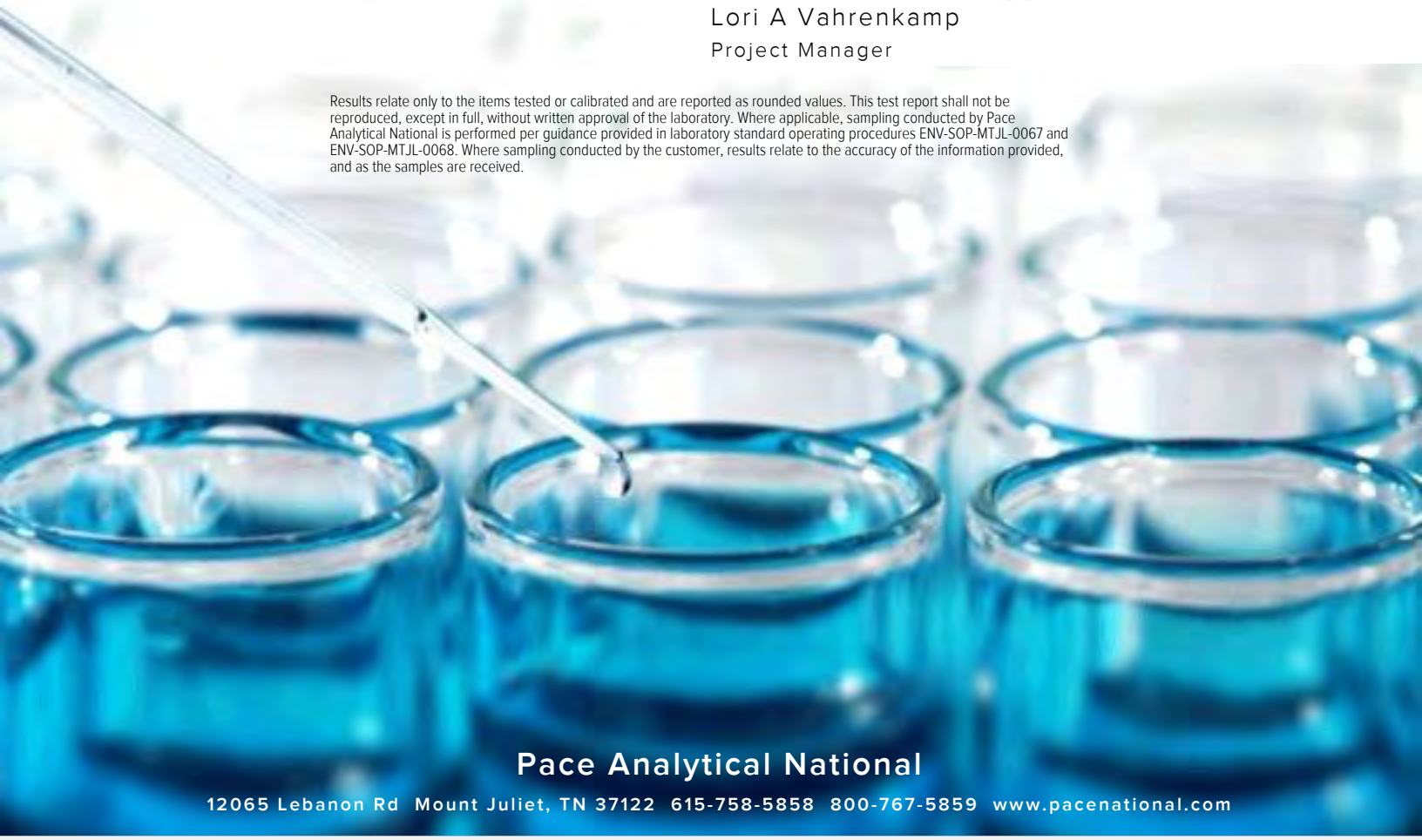
Sample Delivery Group:	L1686256
Samples Received:	12/09/2023
Project Number:	SRS #2009-084
Description:	DCP Plant to Lea Station 6" Section 31

Report To: Kimble Thrash
PO Box 62228
Midland, TX 79711

Entire Report Reviewed By:

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

TABLE OF CONTENTS

MW-2 L1686256-02 GW

			Collected by	Collected date/time	Received date/time	
				12/07/23 09:25	12/09/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2190177	1	12/15/23 21:50	12/15/23 21:50	ACG	Mt. Juliet, TN

MW-3 L1686256-03 GW

			Collected by	Collected date/time	Received date/time	
				12/07/23 11:15	12/09/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2190177	1	12/15/23 22:13	12/15/23 22:13	ACG	Mt. Juliet, TN

MW-4 L1686256-04 GW

			Collected by	Collected date/time	Received date/time	
				12/07/23 12:35	12/09/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2190177	1	12/15/23 22:36	12/15/23 22:36	ACG	Mt. Juliet, TN

MW-5 L1686256-05 GW

			Collected by	Collected date/time	Received date/time	
				12/07/23 14:00	12/09/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2190177	1	12/15/23 22:58	12/15/23 22:58	ACG	Mt. Juliet, TN

MW-6 L1686256-06 GW

			Collected by	Collected date/time	Received date/time	
				12/07/23 10:30	12/09/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2190177	1	12/15/23 23:21	12/15/23 23:21	ACG	Mt. Juliet, TN

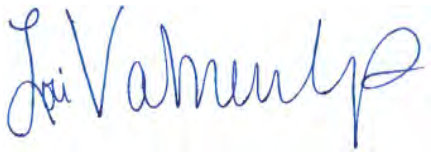
DUP-1 L1686256-07 GW

			Collected by	Collected date/time	Received date/time	
				12/07/23 14:01	12/09/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2190177	1	12/15/23 23:44	12/15/23 23:44	ACG	Mt. Juliet, TN

TRIP BLANK L1686256-08 GW

			Collected by	Collected date/time	Received date/time	
				12/07/23 00:00	12/09/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2190177	1	12/15/23 13:31	12/15/23 13:31	AV	Mt. Juliet, TN

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



Lori A Vahrenkamp
Project Manager

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	1	12/15/2023 21:50	WG2190177
Toluene	U		0.000412	0.00100	1	12/15/2023 21:50	WG2190177
Ethylbenzene	U		0.000160	0.000500	1	12/15/2023 21:50	WG2190177
Total Xylene	U		0.000510	0.00150	1	12/15/2023 21:50	WG2190177
(S) a,a,a-Trifluorotoluene(PID)	*103*			*79.0-125*		*12/15/2023 21:50*	WG2190177

MW-3
Collected date/time: 12/07/23 11:15
L1686256

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	1	12/15/2023 22:13	WG2190177
Toluene	U		0.000412	0.00100	1	12/15/2023 22:13	WG2190177
Ethylbenzene	U		0.000160	0.000500	1	12/15/2023 22:13	WG2190177
Total Xylene	U		0.000510	0.00150	1	12/15/2023 22:13	WG2190177
(S) a,a,a-Trifluorotoluene(PID)	*102*			*79.0-125*		*12/15/2023 22:13*	WG2190177

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	1	12/15/2023 22:36	WG2190177
Toluene	U		0.000412	0.00100	1	12/15/2023 22:36	WG2190177
Ethylbenzene	U		0.000160	0.000500	1	12/15/2023 22:36	WG2190177
Total Xylene	U		0.000510	0.00150	1	12/15/2023 22:36	WG2190177
(S) a,a,a-Trifluorotoluene(PID)	*103*			*79.0-125*		*12/15/2023 22:36*	WG2190177

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	12/15/2023 22:58	WG2190177
Toluene	U		0.000412	0.00100	1	12/15/2023 22:58	WG2190177
Ethylbenzene	U		0.000160	0.000500	1	12/15/2023 22:58	WG2190177
Total Xylene	U		0.000510	0.00150	1	12/15/2023 22:58	WG2190177
(S) a,a,a-Trifluorotoluene(PID)	*102*			*79.0-125*		*12/15/2023 22:58*	WG2190177

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	12/15/2023 23:21	WG2190177
Toluene	U		0.000412	0.00100	1	12/15/2023 23:21	WG2190177
Ethylbenzene	U		0.000160	0.000500	1	12/15/2023 23:21	WG2190177
Total Xylene	U		0.000510	0.00150	1	12/15/2023 23:21	WG2190177
(S) a,a,a-Trifluorotoluene(PID)	*102*			*79.0-125*		*12/15/2023 23:21*	WG2190177

DUP-1
Collected date/time: 12/07/23 14:01
L1686256

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	12/15/2023 23:44	WG2190177
Toluene	U		0.000412	0.00100	1	12/15/2023 23:44	WG2190177
Ethylbenzene	U		0.000160	0.000500	1	12/15/2023 23:44	WG2190177
Total Xylene	U		0.000510	0.00150	1	12/15/2023 23:44	WG2190177
(S) a,a,a-Trifluorotoluene(PID)	*102*			*79.0-125*		*12/15/2023 23:44*	WG2190177

TRIP BLANK
Collected date/time: 12/07/23 00:00
L1686256

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	1	12/15/2023 13:31	WG2190177
Toluene	0.000632	J	0.000412	0.00100	1	12/15/2023 13:31	WG2190177
Ethylbenzene	U		0.000160	0.000500	1	12/15/2023 13:31	WG2190177
Total Xylene	U		0.000510	0.00150	1	12/15/2023 13:31	WG2190177
(S) a,a,a-Trifluorotoluene(PID)	*102*			*79.0-125*		*12/15/2023 13:31*	WG2190177

Method Blank (MB)

(MB) R4013233-3 12/15/23 11:15

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)	*102*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R4013233-1 12/15/23 10:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0471	94.2	77.0-122	
Toluene	0.0500	0.0433	86.6	80.0-121	
Ethylbenzene	0.0500	0.0483	96.6	80.0-123	
Total Xylene	0.150	0.139	92.7	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*101*	*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.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
Plains All American Pipeline - ETECH

PO Box 62228
Midland, TX 79711

Billing Information:
Accounts Payable
333 Clay St
Suite 1600
Houston, TX 77002

Pres Chk

Report to: **Kimble Thrash**

Email To: **kimble@etechenv.com**

Project Description: **DCP Plant to Lea Station 6" Section 31**

City/State Collected: LEA COUNTY, NM

Please Circle: PT MT CT ET

Phone: 432 894 9996

Client Project # **SRS #2009-084**

Lab Project # **PLAINSETECH-NM GW**

Collected by (print): KIMBLE THRASH

Site/Facility ID # SRS #2009-084

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Date Results Needed

Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mlAmb-HCl 8021B	BTEX 40mlAmb-HCl-Blk 8021B								Remarks	Sample # (lab only)
[redacted]		GW					X										
MW-2	G	GW	N/A	12-7-23	0925	3	X										-01
MW-3	G	GW	N/A	12-7-23	1115	3	X										-03
MW-4	G	GW	N/A	12-7-23	1235	3	X										-04
MW-5	G	GW	N/A	12-7-23	1400	3	X										-04
MW-6	G	GW	N/A	12-7-23	1030	3	X										-05
DUP-1	G	GW	N/A	12-7-23	1401	3	X										-06
TRIP BLANK		GW				2		X									-07
XXX END OF COC XXX																	

Chain of Custody Page 1 of 1

Pace PEOPLE ADVANCING SCIENCE

MT JULIET, TN

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

SDG # J048

Acctnum: [redacted]

Template: **T242877**

Prelogin: **P1041690**

PM: **3587 - Lori A Vahrenkamp**

PB:

Shipped Via: **Courier**

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

Remarks:Order Includes: 7xGW for BTEX, plus 1xTrip Blank

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 526 9662 1615

Sample Receipt Checklist

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	12-8-23	1300		2	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: CCAS 2.5+0=2.5	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/9/23 Time: 0900	Hold: / Condition: NCF / OK

Appendix B
Laboratory Analytical Reports
(Air Emissions)

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/10/2023 11:53:08 AM

JOB DESCRIPTION

DCP Sec 31
SDG NUMBER Lea County NM

JOB NUMBER

860-44413-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Eurofins Houston

Job Notes

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

Authorization

Generated
3/10/2023 11:53:08 AM

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

Table of Contents

Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP Sec 31

Job ID: 860-44413-1
SDG: Lea County NM

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: DCP Sec 31

Job ID: 860-44413-1
SDG: Lea County NM

Job ID: 860-44413-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-44413-1

Receipt
The sample was received on 3/4/2023 9:12 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.6°C

GC/MS VOA
Method 8260C_GRO: The following sample was analyzed outside of analytical holding time due to receiving sample out of holding time: EFF-1 (03323)) (860-44413-1).

Method 8260C_GRO: The following sample was received outside of holding time: EFF-1 (03323)) (860-44413-1).

Method 8260C_MOD: The following sample was analyzed outside of analytical holding time due to receiving sample outside of holding time: EFF-1 (03323)) (860-44413-1).

Method 8260C_MOD: The following sample was received outside of holding time: EFF-1 (03323)) (860-44413-1).

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

Detection Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP Sec 31

Job ID: 860-44413-1
SDG: Lea County NM

Client Sample ID: EFF-1 (03323))

Lab Sample ID: 860-44413-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics	575	H	12.2	6.11	ppm v/v	1		8260C GRO	Total/NA
Benzene	0.359	J H	3.13	0.313	ppm v/v	1		8260C	Total/NA
Toluene	0.275	J H	2.65	0.265	ppm v/v	1		8260C	Total/NA
m,p-Xylenes	0.784	J H	4.61	0.461	ppm v/v	1		8260C	Total/NA
Xylenes, Total	0.784	J H	4.61	0.461	ppm v/v	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP Sec 31

Job ID: 860-44413-1
SDG: Lea County NM

Client Sample ID: EFF-1 (03323))

Lab Sample ID: 860-44413-1

Date Collected: 03/03/23 12:10
Matrix: Air
Date Received: 03/04/23 09:12
Sample Container: Tedlar Bag 1L

Method: SW846 8260C GRO - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	575	H	12.2	6.11	ppm v/v			03/07/23 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*03/07/23 14:54*	*1*

Method: SW846 8260C - Volatile Organic Compounds (GCMS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.359	J H	3.13	0.313	ppm v/v			03/07/23 14:54	1
Toluene	0.275	J H	2.65	0.265	ppm v/v			03/07/23 14:54	1
Ethylbenzene	<0.230	U H	2.30	0.230	ppm v/v			03/07/23 14:54	1
m,p-Xylenes	0.784	J H	4.61	0.461	ppm v/v			03/07/23 14:54	1
o-Xylene	<0.230	U H	2.30	0.230	ppm v/v			03/07/23 14:54	1
Xylenes, Total	0.784	J H	4.61	0.461	ppm v/v			03/07/23 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 135*		*03/07/23 14:54*	*1*

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP Sec 31

Job ID: 860-44413-1
SDG: Lea County NM

Method: 8260C - Volatile Organic Compounds (GCMS)

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

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB							
Lab Sample ID	Client Sample ID	(70-135)							
860-44413-1	EFF-1 (03323))	105							
LCS 860-92970/3	Lab Control Sample	106							
LCSD 860-92970/4	Lab Control Sample Dup	107							
MB 860-92970/6	Method Blank	103							

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB							
Lab Sample ID	Client Sample ID	(60-140)							
860-44413-1	EFF-1 (03323))	96							
LCS 860-92971/4	Lab Control Sample	104							
LCSD 860-92971/5	Lab Control Sample Dup	94							
MB 860-92971/7	Method Blank	98							

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP Sec 31

Job ID: 860-44413-1
SDG: Lea County NM

Method: 8260C - Volatile Organic Compounds (GCMS)

Lab Sample ID: MB 860-92970/6
Matrix: Air
Analysis Batch: 92970

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.313	U	3.13	0.313	ppm v/v			03/07/23 14:08	1
Toluene	<0.265	U	2.65	0.265	ppm v/v			03/07/23 14:08	1
Ethylbenzene	<0.230	U	2.30	0.230	ppm v/v			03/07/23 14:08	1
m,p-Xylenes	<0.461	U	4.61	0.461	ppm v/v			03/07/23 14:08	1
o-Xylene	<0.230	U	2.30	0.230	ppm v/v			03/07/23 14:08	1
Xylenes, Total	<0.461	U	4.61	0.461	ppm v/v			03/07/23 14:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 135*		*03/07/23 14:08*	*1*

Lab Sample ID: LCS 860-92970/3
Matrix: Air
Analysis Batch: 92970

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			15.7	13.43		ppm v/v		86	70 - 125		
Toluene			13.3	11.66		ppm v/v		88	70 - 125		
Ethylbenzene			11.5	9.914		ppm v/v		86	70 - 125		
m,p-Xylenes			11.5	9.991		ppm v/v		87	70 - 125		
o-Xylene			11.5	9.784		ppm v/v		85	70 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 135*

Lab Sample ID: LCSD 860-92970/4
Matrix: Air
Analysis Batch: 92970

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			15.7	14.12		ppm v/v		90	70 - 125	5	35
Toluene			13.3	11.81		ppm v/v		89	70 - 125	1	35
Ethylbenzene			11.5	9.920		ppm v/v		86	70 - 125	0	35
m,p-Xylenes			11.5	9.958		ppm v/v		86	70 - 125	0	35
o-Xylene			11.5	9.737		ppm v/v		85	70 - 125	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 135*

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

Lab Sample ID: MB 860-92971/7
Matrix: Air
Analysis Batch: 92971

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<6.11	U	12.2	6.11	ppm v/v			03/07/23 14:08	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP Sec 31

Job ID: 860-44413-1
SDG: Lea County NM

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

Lab Sample ID: MB 860-92971/7
Matrix: Air
Analysis Batch: 92971

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140		03/07/23 14:08	1

Lab Sample ID: LCS 860-92971/4
Matrix: Air
Analysis Batch: 92971

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics			122	114.7		ppm v/v		94	60 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		60 - 140

Lab Sample ID: LCSD 860-92971/5
Matrix: Air
Analysis Batch: 92971

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics			122	104.9		ppm v/v		86	60 - 140	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		60 - 140

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP Sec 31

Job ID: 860-44413-1
SDG: Lea County NM

GC/MS VOA

Analysis Batch: 92970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-44413-1	EFF-1 (03323))	Total/NA	Air	8260C	
MB 860-92970/6	Method Blank	Total/NA	Air	8260C	
LCS 860-92970/3	Lab Control Sample	Total/NA	Air	8260C	
LCSD 860-92970/4	Lab Control Sample Dup	Total/NA	Air	8260C	

Analysis Batch: 92971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-44413-1	EFF-1 (03323))	Total/NA	Air	8260C GRO	
MB 860-92971/7	Method Blank	Total/NA	Air	8260C GRO	
LCS 860-92971/4	Lab Control Sample	Total/NA	Air	8260C GRO	
LCSD 860-92971/5	Lab Control Sample Dup	Total/NA	Air	8260C GRO	

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: DCP Sec 31

Job ID: 860-44413-1
SDG: Lea County NM

Client Sample ID: EFF-1 (03323))
Date Collected: 03/03/23 12:10
Date Received: 03/04/23 09:12

Lab Sample ID: 860-44413-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	92970	03/07/23 14:54	JBS	EET HOU
Total/NA	Analysis	8260C GRO		1	5 mL	5 mL	92971	03/07/23 14:54	JBS	EET HOU

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 860-44413-1
Project/Site: DCP Sec 31
SDG: Lea County NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP Sec 31

Job ID: 860-44413-1
SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GCMS)	SW846	EET HOU
8260C GRO	Volatile Organic Compounds (GC/MS)	SW846	EET HOU
5030C	Collection/Prep Tedlar Bag (P&T)	SW846	EET HOU

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP Sec 31

Job ID: 860-44413-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-44413-1	EFF-1 (03323))	Air	03/03/23 12:10	03/04/23 09:12

eurofins | Environment Testing Xenco

Chain of Custody

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

860-44413 Chain of Custody

www.xenco.com Page _____ of _____

Project Manager	Joel Lowry	Bill to: (if different)	Camille Bryant
Company Name:	eTech Environmental	Company Name:	Plains All American Pipeline
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:	pm@etechenv.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other

Project Name:	DCP Sec. 31	Turn Around	
Project Number:	17473	☑ Routine ☐ Rush	
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	Luis Cordo	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	2009-084		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes (No)	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:	1	Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX (8021B)	Parameters: TPH (8015)
EFF-1 (03323)	A	3-3-23		—	G	1		X	X

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Temp: 19.8 IR ID:HOU-344
C/F: -0.2
Corrected Temp: 19.6

Total 200.7 / 6010 200.8 / 6020 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg. 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		3/3/23 2:45	2	Fedex	
3 Fedex	YCRS	3/4/23 09R	4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 860-44413-1
SDG Number: Lea County NM

Login Number: 44413
List Number: 1
Creator: Rubio, Yuri

List Source: Eurofins Houston

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

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

PBELAB

Analytical Report

Prepared for:

Joel Lowry

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100

Odessa, TX 79765

Project: DCP sec. 31

Project Number: 17473

Location: Lea County, NM

Lab Order Number: 3E15005

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 05/26/23

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFF-1 (051523)	3E15005-01	Air	05/15/23 09:00	05-15-2023 12:30

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

EFF-1 (051523)

3E15005-01 (Air)

Permian Basin Environmental Lab, L.P.

Organics by GC

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.255**	0.500	ppmv	1	P3E2602	05/18/23 10:00	05/18/23 10:00	EPA 8021B	SUB-8, J
Toluene	**0.182**	0.200	ppmv	1	P3E2602	05/18/23 10:00	05/18/23 10:00	EPA 8021B	SUB-8, J
Ethylbenzene	ND	0.500	ppmv	1	P3E2602	05/18/23 10:00	05/18/23 10:00	EPA 8021B	SUB-8
Xylene (p/m)	**0.353**	1.00	ppmv	1	P3E2602	05/18/23 10:00	05/18/23 10:00	EPA 8021B	SUB-8, J
Xylene (o)	**0.0770**	0.500	ppmv	1	P3E2602	05/18/23 10:00	05/18/23 10:00	EPA 8021B	SUB-8, J

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

Notes and Definitions

SUB-8	Subcontract of analyte/analysis to A&B Labs Houston.
NPBEL C(	Chain of Custody was not generated at PBELAB
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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: Brent Barron Date: 5/26/2023

Brent Barron, Laboratory Director/Technical Director

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Manager: Joel Lowry

Company Name: Etech Environmental & Safety Solutions, Inc.

Company Address: 2617 West Marland

City/State/Zip: Hobbs, NM 88240

Telephone No: (575) 264-9884 Fax No:

Sampler Signature: Joel Lowry e-mail: PM@etechenv.com

Project Name: ~~[illegible]~~ DEP. sec. 31

Project #: ~~[illegible]~~ 17473

Project Loc: ~~[illegible]~~ Rural Lea Co., NM

PO #: ~~[illegible]~~ 2009-054

Report Format: X Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 3E15005

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3 250 ml Poly	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None 1L Poly	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TPH by TX 1005 8015B 8015M	Chloride	BTEX by 8021B												Rush 24 48 72 (Please call)	Standard
1	EFF-1 (051523)	-	-	5/15/23	9:00	A	1									Air			X		X													X

Special Instructions:
Please email copy of COC to and results to PM@etechenv.com.

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	5/15/23	12:30			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: [signature] Bledsoe	5/15/23	12:30

Laboratory Comments:

Sample Containers Intact?	(Y)	N
VOCs Free of Headspace?	(Y)	N
Labels on container(s)	(Y)	N
Custody seals on container(s)	(Y)	N
Custody seals on cooler(s)	(Y)	N
Sample Hand Delivered	(Y)	N
by Sampler/Client Rep ?	(Y)	N
by Courier? UPS DHL	FedEx	Lone Star

Temperature Upon Receipt:
Received: °C NCF
Adjusted: 21.7 °C Factor 63

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron — **Project Name:** SUBCONTRACT

Company Name: PBEL — **Project #:**

Company Address: 1400 Rankin HWY — **Project Loc:**

City/State/Zip: Midland Texas 79701 — **PO #:**

Telephone No: 432-661-4184 — Fax No: — **Report Format:** X Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A — e-mail: brentbarron@pbelab.com

ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE	NONE 3 AMBER VOAA VIALS	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: 8021B BTEX												24 HOUR	STANDARD
	3E15005-01			5/15/2023	9:00		1							X		AIR	X												X

SPECIAL INSTRUCTIONS:

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt:
Received: °C
Adjusted: °C Factor

Pace Analytical®

ANALYTICAL REPORT

June 07, 2023

Plains All American Pipeline - ETECH

Sample Delivery Group:	L1622526
Samples Received:	06/03/2023
Project Number:	
Description:	Tedlars, New Mexico Samples

Report To: Joel Lowery
PO Box 62228
Midland, TX 79711

Entire Report Reviewed By:

Lori A Vahrenkamp
Project Manager

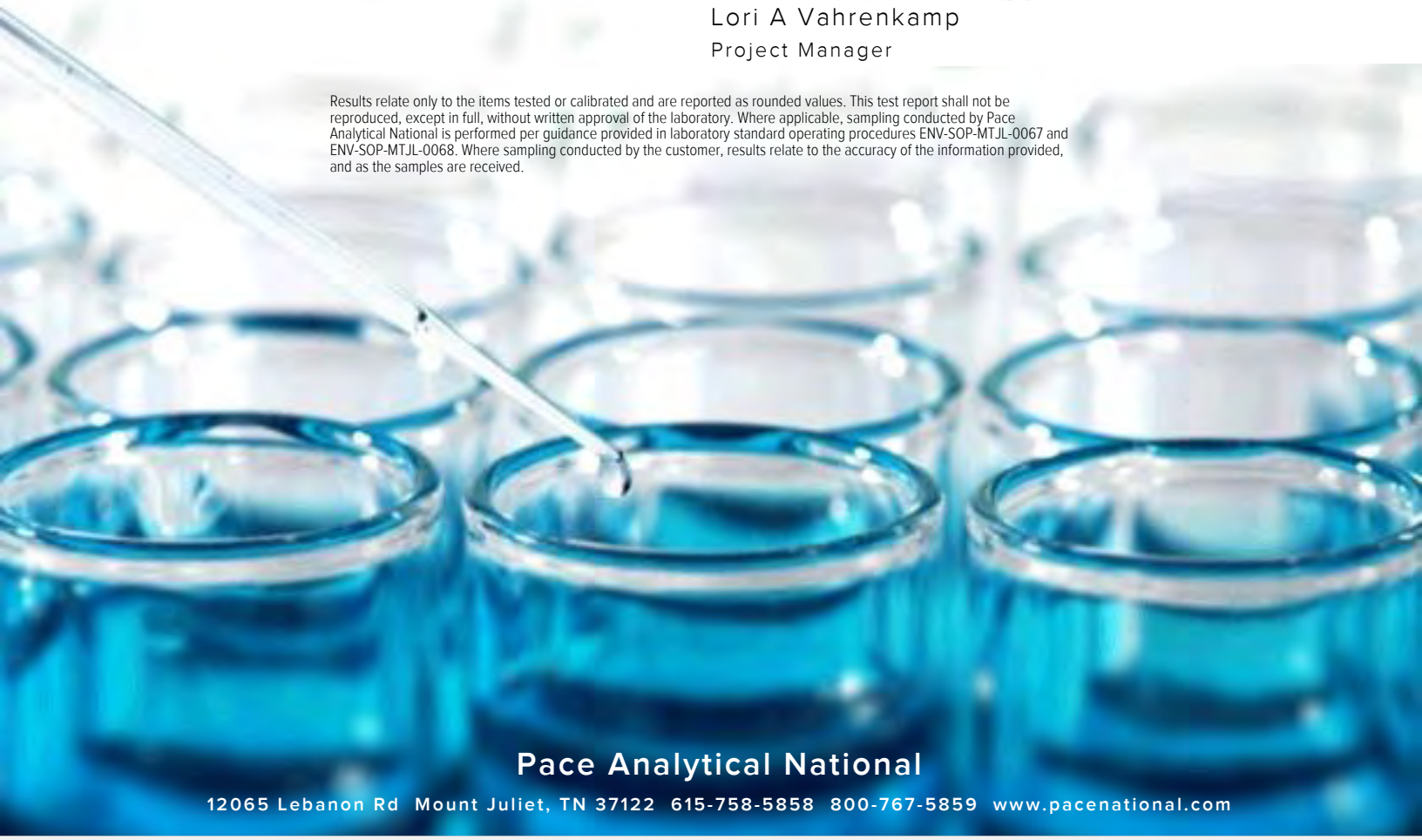


TABLE OF CONTENTS

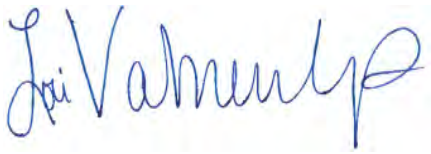
SAMPLE SUMMARY

EFF-1(060223) L1622526-01 Air

			Collected by	Collected date/time	Received date/time
				06/02/23 09:30	06/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2072009	400	06/06/23 05:52	06/06/23 05:52	DBB	Mt. Juliet, TN

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



Lori A Vahrenkamp
Project Manager

Sample Delivery Group (SDG) Narrative

Sample received in tedlar bag.

Lab Sample ID	Project Sample ID	Method
L1622526-01	EFF-1(060223)	TO-15

Revised May 2010

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

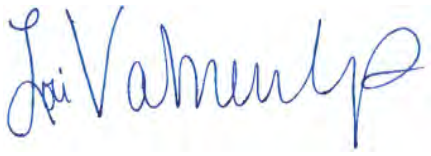
b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Lori A Vahrenkamp

Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 06/07/2023 14:02
Project Name: Tedlars, New Mexico Samples	Laboratory Job Number: L1622526-01
Reviewer Name: Lori A Vahrenkamp	Prep Batch Number(s): WG2072009

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 06/07/2023 14:02
Project Name: Tedlars, New Mexico Samples	Laboratory Job Number: L1622526-01
Reviewer Name: Lori A Vahrenkamp	Prep Batch Number(s): WG2072009

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 06/07/2023 14:02
Project Name: Tedlars, New Mexico Samples	Laboratory Job Number: L1622526-01
Reviewer Name: Lori A Vahrenkamp	Prep Batch Number(s): WG2072009

ER #[1]	Description
	The Exception Report intentionally left blank, there are no exceptions applied to this SDG.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	80.0	256	776	2480		400	WG2072009
TPH (GC/MS) Low Fraction	8006-61-9	101	80000	330000	566000	2340000		400	WG2072009
Ethylbenzene	100-41-4	106	80.0	347	117	507		400	WG2072009
MTBE	1634-04-4	88.10	80.0	288	ND	ND		400	WG2072009
Toluene	108-88-3	92.10	200	753	517	1950		400	WG2072009
Xylenes, Total	1330-20-7	106.16	240	1040	1440	6250		400	WG2072009
m&p-Xylene	1330-20-7	106	160	694	1150	4990		400	WG2072009
o-Xylene	95-47-6	106	80.0	347	295	1280		400	WG2072009
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*105*				WG2072009

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

Method Blank (MB)

(MB) R3933187-3 06/05/23 20:45

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Benzene	U		0.0715	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
Ethylbenzene	U		0.0835	0.200
MTBE	U		0.0647	0.200
Toluene	U		0.0870	0.500
Xylenes, Total	U		0.135	0.600
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	*94.4*			*60.0-140*

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

(LCS) R3933187-1 06/05/23 19:47 • (LCSD) R3933187-2 06/05/23 20:17

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	3.75	3.65	3.57	97.3	95.2	70.0-130			2.22	25
TPH (GC/MS) Low Fraction	188	177	175	94.1	93.1	70.0-130			1.14	25
Ethylbenzene	3.75	3.68	3.63	98.1	96.8	70.0-130			1.37	25
MTBE	3.75	3.79	3.74	101	99.7	70.0-130			1.33	25
Toluene	3.75	3.73	3.74	99.5	99.7	70.0-130			0.268	25
Xylenes, Total	11.3	11.2	11.1	99.1	98.2	70.0-130			0.897	25
m&p-Xylene	7.50	7.32	7.25	97.6	96.7	70.0-130			0.961	25
o-Xylene	3.75	3.84	3.81	102	102	70.0-130			0.784	25
(S) 1,4-Bromofluorobenzene				*99.9*	*100*	*60.0-140*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation 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 Sample Detection Limit.
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.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
Plains All American Pipeline - ETECH

PO Box 62228
Midland, TX 79711

Billing Information:
Accounts Payable
333 Clay St
Suite 1600
Houston, TX 77002

Pres Chk

Report to: Joel Lowery

Email To: joel@etechenv.com;miquel@etechenv.com;zac

Project Description: Tedlars, New Mexico Samples

City/State Collected: Lea County

Please Circle: PT MT CT ET

Phone: (575) 264-9884

Client Project # 17473

Lab Project # PLAINSETECH - NM AIR

Collected by (print): Dried Ontiveros

Site/Facility ID # DCP #31

P.O. # 2009-084

Collected by (signature):

Immediately Packed on Ice N X Y ___

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

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

TO-15TEDLAR Tedlar

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
EFF-1 (060223)	Grab	Air		6/2/23	9:30	1
		Air				
		Air				
		Air				
		Air				
		Air				
		Air				
		Air				
		Air				
		Air				

Chain of Custody

Pace
PEOPLE ADVANCING SCIENCE

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

SDG # L1677526

H169

Acctnum: PLAINSETECH
Template: T230533
Prelogin: P1000245
PM: 3587 - Lori A Vahrenkamp
PB:
Shipped Via: FedEx Ground

Remarks	Sample # (lab only)
	-9

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier _____

Tracking # 6337 2249 9864

Sample Receipt Checklist

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	6-2-23	10:00	BCox		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp 0.5°C Bottles Received: 1	
			AMB		
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/3/23 Time: 0900	Hold: / Condition: NCF / OK
			(TB)		

Pace Analytical®

ANALYTICAL REPORT

July 31, 2023

Plains All American Pipeline - ETECH

Sample Delivery Group:	L1640337
Samples Received:	07/29/2023
Project Number:	174763
Description:	Tedlars, New Mexico Samples
Site:	DCP #31
Report To:	Joel Lowery PO Box 62228 Midland, TX 79711

Entire Report Reviewed By:

Justin Carr
Project Manager

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

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

TABLE OF CONTENTS

SAMPLE SUMMARY

EFF-1(072823) L1640337-01 Air

			Collected by	Collected date/time	Received date/time
			Miguel Ramirez	07/28/23 08:40	07/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2104007	100	07/29/23 23:39	07/29/23 23:39	JAP	Mt. Juliet, TN

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

Justin Carr
Project Manager

Sample Delivery Group (SDG) Narrative

Sample received in tedlar bag.

Lab Sample ID	Project Sample ID	Method
L1640337-01	EFF-1(072823)	TO-15

Revised May 2010

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Justin Carr

Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 07/31/2023 17:07
Project Name: Tedlars, New Mexico Samples	Laboratory Job Number: L1640337-01
Reviewer Name: Justin Carr	Prep Batch Number(s): WG2104007

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 07/31/2023 17:07
Project Name: Tedlars, New Mexico Samples	Laboratory Job Number: L1640337-01
Reviewer Name: Justin Carr	Prep Batch Number(s): WG2104007

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 07/31/2023 17:07
Project Name: Tedlars, New Mexico Samples	Laboratory Job Number: L1640337-01
Reviewer Name: Justin Carr	Prep Batch Number(s): WG2104007

ER #[1]	Description
	The Exception Report intentionally left blank, there are no exceptions applied to this SDG.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	20.0	63.9	186	594		100	WG2104007
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	196000	810000		100	WG2104007
Ethylbenzene	100-41-4	106	20.0	86.7	100	434		100	WG2104007
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2104007
Toluene	108-88-3	92.10	50.0	188	292	1100		100	WG2104007
Xylenes, Total	1330-20-7	106.16	60.0	261	1010	4390		100	WG2104007
m&p-Xylene	1330-20-7	106	40.0	173	789	3420		100	WG2104007
o-Xylene	95-47-6	106	20.0	86.7	219	949		100	WG2104007
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*108*				WG2104007

Method Blank (MB)

(MB) R3954651-3 07/29/23 09:42

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Benzene	U		0.0715	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
Ethylbenzene	U		0.0835	0.200
MTBE	U		0.0647	0.200
Toluene	U		0.0870	0.500
Xylenes, Total	U		0.135	0.600
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	*98.5*			*60.0-140*

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

(LCS) R3954651-1 07/29/23 08:16 • (LCSD) R3954651-2 07/29/23 09:00

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	3.75	3.88	3.83	103	102	70.0-130			1.30	25
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Ethylbenzene	3.75	3.83	3.88	102	103	70.0-130			1.30	25
MTBE	3.75	3.83	3.78	102	101	70.0-130			1.31	25
Toluene	3.75	3.80	3.80	101	101	70.0-130			0.000	25
Xylenes, Total	11.3	11.6	11.6	103	103	70.0-130			0.000	25
m&p-Xylene	7.50	7.73	7.72	103	103	70.0-130			0.129	25
o-Xylene	3.75	3.83	3.83	102	102	70.0-130			0.000	25
(S) 1,4-Bromofluorobenzene				*99.4*	*99.7*	*60.0-140*				

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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 Sample Detection Limit.
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.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
Plains All American Pipeline - ETECH

PO Box 62228
Midland, TX 79711

Billing Information:
Accounts Payable
333 Clay St
Suite 1600
Houston, TX 77002

Pres Chk

Report to: **Joel Lowery**

Email To: **joel@etechenv.com;miquel@etechenv.com;zac**

Project Description: **Tedlars, New Mexico Samples**

City/State Collected: Rural Lea Co, NM

Please Circle: PT (MT) CT ET

Phone: 575.264.9884

Client Project # 17473

Lab Project # **PLAINSETECH - NM AIR**

Collected by (print): Miguel Ramirez

Site/Facility ID # DCP #31

P.O. # 2009-084

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15TEDLAR Tedlar	Remarks	Sample # (lab only)
EFF-1 (072823)	G	Air	-	7/28/23	08:40	1	X		-01
		Air							
		Air							
		Air							
		Air							
		Air							
		Air							
		Air							
		Air							
		Air							

Analysis / Container / Preservative

Chain of Custody Page ___ ___

Pace
PEOPLE ADVANCING SCIENCE

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

SDG # L1641033
D197

Acctnum: **PLAINSETECH**
Template: **T230533**
Prelogin: **P1000245**
PM: **3587 - Lori A Vahrenkamp**
PB:

Shipped Via: **FedEX Ground**

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 6337 2249 9053

Sample Receipt Checklist

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes (No) HCL / MeoH TBR	
Miguel Ramirez	7/28/23	10:04	Daphne. G		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: amb °C Bottles Received: 1	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Kayla	Date: 7/29/23 Time: 900	Hold: Condition: NCF / (OK)

Pace Analytical®

ANALYTICAL REPORT

August 31, 2023

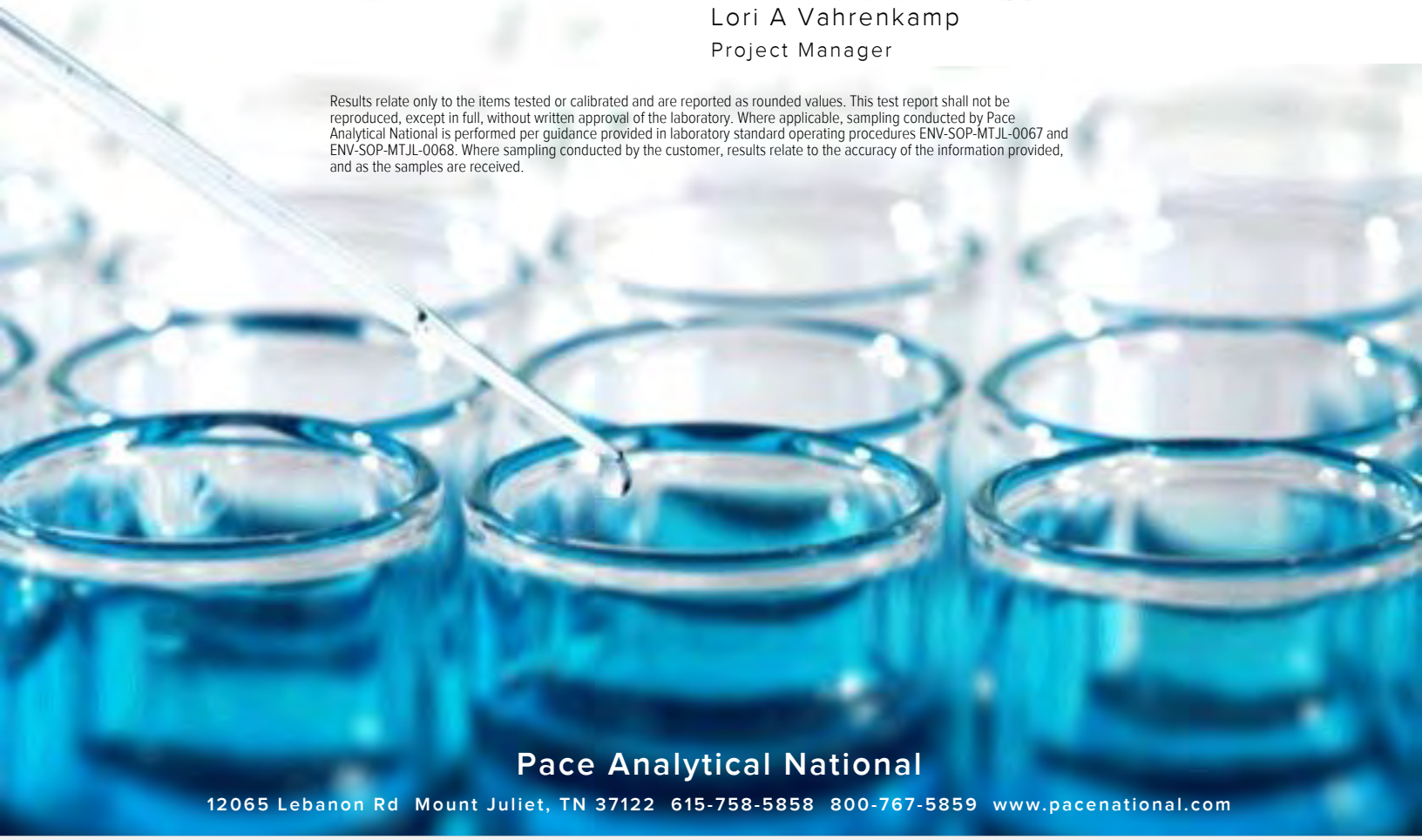
Plains All American Pipeline - ETECH

Sample Delivery Group:	L1650106
Samples Received:	08/26/2023
Project Number:	2009-084
Description:	Tedlars, New Mexico Samples
Site:	DCP#31
Report To:	Joel Lowery PO Box 62228 Midland, TX 79711

Entire Report Reviewed By:

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

TABLE OF CONTENTS

SAMPLE SUMMARY

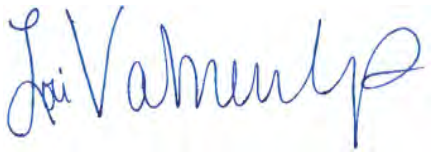
EFF1(082523) L1650106-01 Air

			Collected by	Collected date/time	Received date/time
			Miguel Ramirez	08/25/23 08:10	08/26/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2121579	100	08/26/23 20:23	08/26/23 20:23	DBB	Mt. Juliet, TN

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

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

Sample Delivery Group (SDG) Narrative

Sample received in tedlar bag.

Lab Sample ID	Project Sample ID	Method
L1650106-01	EFF1(082523)	TO-15

Revised May 2010

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

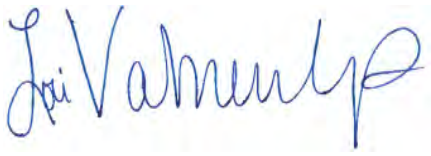
b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Lori A Vahrenkamp

Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 08/31/2023 15:45
Project Name: Tedlars, New Mexico Samples	Laboratory Job Number: L1650106-01
Reviewer Name: Lori A Vahrenkamp	Prep Batch Number(s): WG2121579

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 08/31/2023 15:45
Project Name: Tedlars, New Mexico Samples	Laboratory Job Number: L1650106-01
Reviewer Name: Lori A Vahrenkamp	Prep Batch Number(s): WG2121579

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 08/31/2023 15:45
Project Name: Tedlars, New Mexico Samples	Laboratory Job Number: L1650106-01
Reviewer Name: Lori A Vahrenkamp	Prep Batch Number(s): WG2121579

ER #[1]	Description
	The Exception Report intentionally left blank, there are no exceptions applied to this SDG.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	20.0	63.9	392	1250		100	WG2121579
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	316000	1310000		100	WG2121579
Ethylbenzene	100-41-4	106	20.0	86.7	94.3	409		100	WG2121579
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2121579
Toluene	108-88-3	92.10	50.0	188	300	1130		100	WG2121579
Xylenes, Total	1330-20-7	106.16	60.0	261	1230	5340		100	WG2121579
m&p-Xylene	1330-20-7	106	40.0	173	1000	4340		100	WG2121579
o-Xylene	95-47-6	106	20.0	86.7	235	1020		100	WG2121579
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*130*				WG2121579

Method Blank (MB)

(MB) R3966148-3 08/26/23 11:07

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Benzene	U		0.0715	0.200
TPH (GC/MS) Low Fraction	39.7	J	39.7	200
Ethylbenzene	U		0.0835	0.200
MTBE	U		0.0647	0.200
Toluene	U		0.0870	0.500
Xylenes, Total	U		0.135	0.600
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	*104*			*60.0-140*

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

(LCS) R3966148-1 08/26/23 10:09 • (LCSD) R3966148-2 08/26/23 10:39

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	3.75	3.29	3.41	87.7	90.9	70.0-130			3.58	25
TPH (GC/MS) Low Fraction	188	179	182	95.2	96.8	70.0-130			1.66	25
Ethylbenzene	3.75	3.46	3.67	92.3	97.9	70.0-130			5.89	25
MTBE	3.75	3.41	3.54	90.9	94.4	70.0-130			3.74	25
Toluene	3.75	3.60	3.74	96.0	99.7	70.0-130			3.81	25
Xylenes, Total	11.3	11.6	12.2	103	108	70.0-130			5.04	25
m&p-Xylene	7.50	7.74	8.14	103	109	70.0-130			5.04	25
o-Xylene	3.75	3.84	4.05	102	108	70.0-130			5.32	25
(S) 1,4-Bromofluorobenzene				*113*	*110*	*60.0-140*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation 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 Sample Detection Limit.
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.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Plains All American Pipeline - ETECH

PO Box 62228
Midland, TX 79711

Billing Information:
Accounts Payable
333 Clay St
Suite 1600
Houston, TX 77002

Pres Chk

Report to: Joel Lowery

Email To: joel@etechenv.com;miguel@etechenv.com;zac

Project Description: Tedlars, New Mexico Samples

City/State Collected:

Please Circle: PT MT CT ET

Phone: 575-318-1735

Client Project # 2009-084

Lab Project # PLAINSETECH - NM AIR

Collected by (print): Miguel Ramirez

Site/Facility ID # DCP #31

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y ___

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

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative: TO-15TEDLAR Tedlar	Remarks	Sample # (lab only)
EFF1 (082523)	G	Air		8/25/23	8:10	1	X		-01
		Air							
		Air							
		Air							
		Air							
		Air							
		Air							
		Air							
		Air							
		Air							

Chain of Custody Page 1 of 1

Pace PEOPLE ADVANCING SCIENCE

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

SDG # L1656166
H095

Acctnum: PLAINSETECH
Template: T230533
Prelogin: P1000245
PM: 3587 - Lori A Vahrenkamp
PB:
Shipped Via: FedEX Ground

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

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 6337 2249 9020

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	8-25	8:38	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) (18)

Trip Blank Received: Yes / (No) HCL / MeoH TBR

Temp: AMB °C Bottles Received: 1

Date: 8/26/23 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

ANALYTICAL REPORT

October 05, 2023

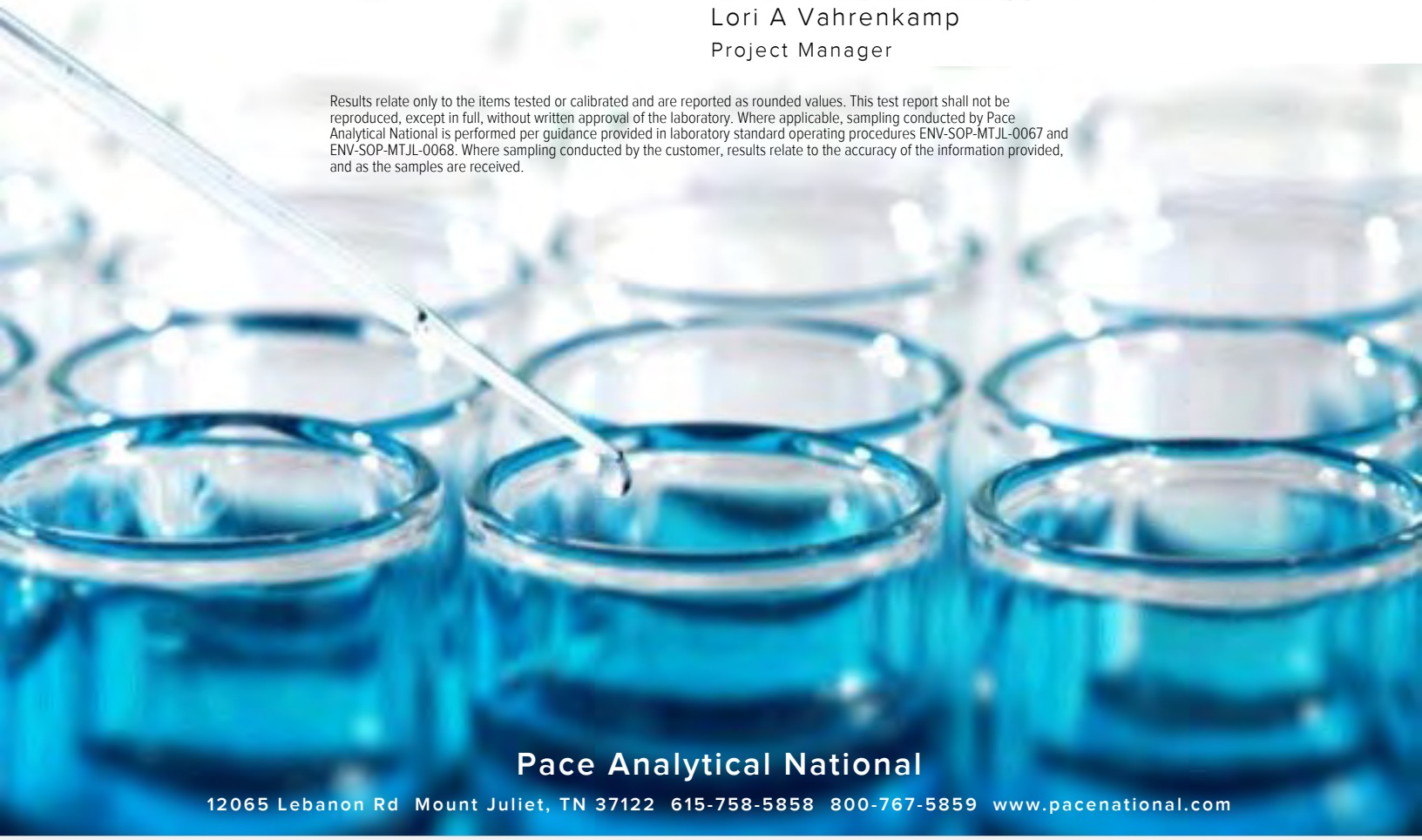
Plains All American Pipeline - ETECH

Sample Delivery Group:	L1661255
Samples Received:	09/30/2023
Project Number:	2009-084
Description:	Tedlars, New Mexico Samples
Site:	DCP # 31
Report To:	Joel Lowery PO Box 62228 Midland, TX 79711

Entire Report Reviewed By:

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

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SAMPLE SUMMARY

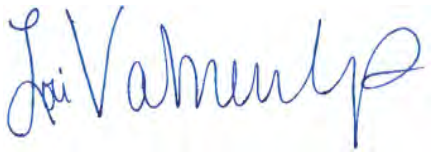
EFF 1 (092923) L1661255-01 Air

Collected by: Miguel Ramirez
Collected date/time: 09/29/23 10:00
Received date/time: 09/30/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2142374	1	09/30/23 20:02	09/30/23 20:02	SDS	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2142766	100	10/01/23 15:19	10/01/23 15:19	DAH	Mt. Juliet, TN

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

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

Sample Delivery Group (SDG) Narrative

Sample received in tedlar bag.

Lab Sample ID	Project Sample ID	Method
L1661255-01	EFF 1 (092923)	TO-15

Revised May 2010

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

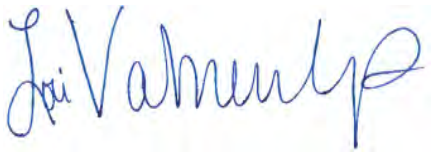
b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Lori A Vahrenkamp

Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 10/05/2023 16:59
Project Name: Tedlars, New Mexico Samples	Laboratory Job Number: L1661255-01
Reviewer Name: Lori A Vahrenkamp	Prep Batch Number(s): WG2142374 and WG2142766

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 10/05/2023 16:59
Project Name: Tedlars, New Mexico Samples	Laboratory Job Number: L1661255-01
Reviewer Name: Lori A Vahrenkamp	Prep Batch Number(s): WG2142374 and WG2142766

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 10/05/2023 16:59
Project Name: Tedlars, New Mexico Samples	Laboratory Job Number: L1661255-01
Reviewer Name: Lori A Vahrenkamp	Prep Batch Number(s): WG2142374 and WG2142766

ER #[1]	Description
1	TO-15 WG2142374 1,4-Bromofluorobenzene L1661255-01: Percent Recovery is outside of established control limits.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2142374
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	163000	673000		100	WG2142766
Ethylbenzene	100-41-4	106	0.200	0.867	23.4	101		1	WG2142374
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2142374
Toluene	108-88-3	92.10	0.500	1.88	68.6	258		1	WG2142374
Xylenes, Total	1330-20-7	106.16	60.0	261	235	1020		100	WG2142766
m&p-Xylene	1330-20-7	106	40.0	173	187	811		100	WG2142766
o-Xylene	95-47-6	106	0.200	0.867	48.3	209		1	WG2142374
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*444*		J1		WG2142374
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.5*				WG2142766

Method Blank (MB)

(MB) R3980057-3 09/30/23 09:12

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Benzene	U		0.0715	0.200
Ethylbenzene	U		0.0835	0.200
MTBE	U		0.0647	0.200
Toluene	U		0.0870	0.500
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	*100*			*60.0-140*

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

(LCS) R3980057-1 09/30/23 07:55 • (LCSD) R3980057-2 09/30/23 08:34

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	3.75	4.57	4.51	122	120	70.0-130			1.32	25
Ethylbenzene	3.75	4.66	4.64	124	124	70.0-130			0.430	25
MTBE	3.75	4.49	4.56	120	122	70.0-130			1.55	25
Toluene	3.75	4.46	4.46	119	119	70.0-130			0.000	25
o-Xylene	3.75	4.50	4.51	120	120	70.0-130			0.222	25
(S) 1,4-Bromofluorobenzene				*100*	*99.7*	*60.0-140*				

Method Blank (MB)

(MB) R3981097-2 10/01/23 11:13

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
TPH (GC/MS) Low Fraction	U		39.7	200
Xylenes, Total	0.139	J	0.135	0.600
m&p-Xylene	0.139	J	0.135	0.400
(S) 1,4-Bromofluorobenzene	*96.1*			*60.0-140*

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

(LCS) R3981097-1 10/01/23 10:33 • (LCSD) R3981097-3 10/01/23 12:10

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/MS) Low Fraction	188	186	199	98.9	106	70.0-130			6.75	25
Xylenes, Total	11.3	12.4	13.2	110	117	70.0-130			6.25	25
m&p-Xylene	7.50	8.48	8.92	113	119	70.0-130			5.06	25
(S) 1,4-Bromofluorobenzene				*99.6*	*103*	*60.0-140*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation 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 Sample Detection Limit.
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.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Plains All American Pipeline - ETECH

PO Box 62228
Midland, TX 79711

Billing Information:
Accounts Payable
333 Clay St
Suite 1600
Houston, TX 77002

Pres Chk

Report to: Joel Lowery

Email To: joel@etechenv.com;miquel@etechenv.com;zac

Project Description: Tedlars, New Mexico Samples

City/State Collected:

Please Circle: PT MT CT ET

Phone: 5153181735

Client Project # 2009-084

Lab Project # PLAINSETECH - NM AIR

Collected by (print): Miguel Ramirez

Site/Facility ID # DCP#31

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y

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

Date Results Needed

Quote #

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative: TO-15TEDLAR Tedlar	Remarks	Sample # (lab only)
EFF1 (092923)	G	Air		9/29/23	10:00	1	X		-01
		Air							
		Air							
		Air							
		Air							
		Air							
		Air							
		Air							
		Air							
		Air							

Chain of Custody

Pace PEOPLE ADVANCING SCIENCE

MT JULIET, TN

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

SDG # L1601255

C125

Acctnum: PLAINSETECH
Template: T230533
Prelogin: P1000245
PM: 3587 - Lori A Vahrenkamp
PB: 5/18/23 B
Shipped Via: FedEX Ground

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 6337 2749 9031

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR	If preservation required by Login: Date/Time
	9-29-23	10:45			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 6.4 °C Bottles Received: 1	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9.30.23 Time: 0900	Hold: Condition: NCF / (OK)

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

PBELAB

Analytical Report

Prepared for:

Joel Lowry

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100

Odessa, TX 79765

Project: DCP sec. 31

Project Number: 17473

Location: Lea County, NM

Lab Order Number: 3K20011

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 12/04/23

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFF-1 (112023)	3K20011-01	Air	11/20/23 13:16	11-20-2023 16:30

TO-15 BTEX analysis were subcontracted to A&B Houston.Their current certification can be found here: https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/a&b_env.pdf

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

EFF-1 (112023)

3K20011-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
EPA TO-15									
Benzene	ND	0.00400	ppm	1	P3L0414	11/27/23 12:00	11/27/23 12:00	TO-15	SUB-8
Ethylbenzene	ND	0.0100	ppm	1	P3L0414	11/27/23 12:00	11/27/23 12:00	TO-15	SUB-8
Xylene (p/m)	ND	0.0200	ppm	1	P3L0414	11/27/23 12:00	11/27/23 12:00	TO-15	SUB-8
Xylene (o)	ND	0.0100	ppm	1	P3L0414	11/27/23 12:00	11/27/23 12:00	TO-15	SUB-8
Toluene	ND	0.0100	ppm	1	P3L0414	11/27/23 12:00	11/27/23 12:00	TO-15	SUB-8

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP sec. 31
13000 West County Road 100	Project Number: 17473
Odessa TX, 79765	Project Manager: Joel Lowry

Notes and Definitions

SUB-8	Subcontract of analyte/analysis to A&B Labs Houston.
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: Brent Barron Date: 12/4/2023

Brent Barron, Laboratory Director/Technical Director

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: _____ CH: _____ W: _____

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: JOEL LOWRY
Company Name: ETECH ENVIRONMENTAL & SAFETY SOLUTIONS, INC.
Company Address: 2617 WEST MARLAND
City/State/Zip: HOBBS, NM 88240
Telephone No: 575 264 9884 **Fax No:**
Sampler Signature: KIMBLE THRASH **e-mail:** KIMBLE@ETECHENV.COM

Project Name: DCP SEC. 31
Project #: 17473
Project Loc: LEA COUNTY, NM
PO #: 2009-054
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only) **ORDER #:** 31C20011

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: TX 1005	TCLP: Anions (Cl, SO4, Alkalinity)	TOTAL: BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	EFF-1	-	-	11-20-23	1316		1							✓		All			✓		✓

Special Instructions:

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: NCF
Received: 24.2 °C Thermometor:
Adjusted: °C Factor: CB

Relinquished by:	Date	Time	Received by:	Date	Time
	11/20/23	1690			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL	Date	Time
			Nina Bledsoe	11/20/23	16:30

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron
Company Name: PBEL
Company Address: 1400 Rankin HWY
City/State/Zip: Midland Texas 79701
Telephone No: 432-661-4184
Fax No:
Sampler Signature: N/A
e-mail: brentbarron@pbelab.com

Project Name: SUBCONTRACT
Project #:
Project Loc:
PO #:
Report Format: X Standard ☐ TRRP ☐ NPDES

ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE	NONE 3 AMBER VOAA VIALS	Matrix: DW=Drinking Water SL=Sludge / GW = Groundwater S=Soil/Solid / NP=Non-Potable Specify Other	Analyze For: 8021B BTEX	24 HOUR RUSH/PAH ONLY	STANDARD
	3K20011			11/20/2023	13:16		1							X		AIR	X		X

Please run PAH in rush please because of holding time.

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: °C
Adjusted: °C Factor

Laboratory Analysis Report

Total Number of Pages: 7

Job ID : 23112448

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
Subcontract

Report To :	Client Name:	Permian Basin Environmental Lab, LP	P.O.#.:	
	Attn:	Brent Barron	Sample Collected By:	
	Client Address:	1400 Rankin Hwy	Date Collected:	11/20/23
	City, State, Zip:	Midland, Texas, 79701		

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
3K20011	Air	23112448.01

Analyst: Amit Bembde

Released By: Senthilkumar Sevukan
Title: Vice President Operations
Date: 12/01/2023

This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/13/2023; Expires: 3/31/2024
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

ab-q210-0321

Date Received : 11/22/2023 10:02

LABORATORY TEST RESULTS

Job ID : 23112448 Date: 12/1/2023

Client Name : Permian Basin Environmental Lab, LP Attn : Brent Barron
Project Name: Subcontract

Client Sample ID:	3K20011	Lab Sample ID:	23112448.01
Date Collected:	11/20/23	Sample Matrix:	Air
Time Collected:	13:16		
Other Information:			

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	**Volatile Organic Compounds in Air by GCMS**								
	Benzene	78.11	BRL	0.2	50CC	< 12.8	< 0.0040		11/27/23
	Ethylbenzene	106.17	BRL	0.5	50CC	< 43.4	< 0.0100		11/27/23
	m- & p-Xylenes	106.17	BRL	1	50CC	< 86.8	< 0.0200		11/27/23
	o-Xylene	106.17	BRL	0.5	50CC	< 43.4	< 0.0100		11/27/23
	Toluene	92.14	BRL	0.5	50CC	< 37.7	< 0.0100		11/27/23
	Xylenes	106.17	BRL	0.5	50CC	< 43.4	< 0.0100		11/27/23
Total [VOC] calculated			BRL			< 12.779	< 0.004		

QUALITY CONTROL CERTIFICATE

Job ID : 23112448 **Date :** 12/1/2023

Analysis : Volatile Organic Compounds in Air by GCMS **Method :** EPA TO-15 **Reporting Units :** nL

QC Batch ID : Qb23113014 **Created Date :** 11/30/23 **Created By :** AVBembde

Samples in This QC Batch : 23112448.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Xylenes	1330-20-7	BRL	nL	1	0.5		
Benzene	71-43-2	BRL	nL	1	0.2		
Toluene	108-88-3	BRL	nL	1	0.5		
Ethylbenzene	100-41-4	BRL	nL	1	0.5		
m- & p-Xylenes	179601-23-1	BRL	nL	1	1		
o-Xylene	95-47-6	BRL	nL	1	0.5		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Benzene	5	5.35	107	5	5.36	107	0.2	30	69-119	
Toluene	5	5.34	107	5	5.30	106	0.8	30	62-127	
Ethylbenzene	5	5.57	111	5	5.48	110	1.6	30	70-124	
m- & p-Xylenes	10	10.9	109	10	10.9	109	0.4	30	61-134	
o-Xylene	5	5.71	114	5	5.68	114	0.5	30	67-125	

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 23112448 Date: 12/1/2023

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
J	Estimation. Below calibration range but above MDL	RptLimit	Reporting Limit
LCS	Laboratory Check Standard	SDL	Sample Detection Limit
LCSD	Laboratory Check Standard Duplicate	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit
MQL	Unadjusted Minimum Quantitation Limit		

Qualifier Definition

Sample Condition Checklist

A&B JobID : **23112448**	Date Received : **11/22/2023**	Time Received : **10:02AM**
Client Name : **Permian Basin Environmental Lab, LP**		
Temperature : **18.7°C**	Sample pH : **NA**	
Thermometer ID : **IR5**	pH Paper ID : **NA**	
Perservative :	Lot# :	

	Check Points	Yes	No	N/A
1.	**Cooler Seal present and signed.**			X
2.	**Sample(s) in a cooler.**		X	
3.	**If yes, ice in cooler.**			X
4.	**Sample(s) received with chain-of-custody.**	X		
5.	**C-O-C signed and dated.**	X		
6.	**Sample(s) received with signed sample custody seal.**		X	
7.	**Sample containers arrived intact. (If No comment)**	X		
8.	**Matrix:** Water ☐ Soil ☐ Liquid ☐ Sludge ☐ Solid ☐ Cassette ☐ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☑			
9.	**Samples were received in appropriate container(s)**	X		
10.	**Sample(s) were received with Proper preservative**			X
11.	**All samples were tagged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's.**		X	
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received with in the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		
18.	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

Other: Air (Clear Tedlar Bags). ~EV 11/22/2023. Sample ID= "EFF-1". ~ANS 11/22/23

Brought by : FedEx

Received by : EValdez

Check in by/date : EValdez / 11/22/2023

ab-s005-0321

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron
Company Name: PBEL
Company Address: 1400 Rankin HWY
City/State/Zip: Midland Texas 79701
Telephone No: 432-661-4184 Fax No:
Sampler Signature: N/A e-mail: brentbarron@pbelab.com

Project Name: SUBCONTRACT
Project #:
Project Loc:
PO #:
Report Format: X Standard ☐ TRRP ☐ NPDES

ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE	NONE 3 AMBER VOAA VIALS	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: 8021B BTEX	24 HOUR RUSH/PAH ONLY	STANDARD
01	3K20011			11/20/2023	13:16		1							X		AIR	X		X

Job ID:23112448
11/22/2023 Permian Basin Environme AMS

Please run PAH in rush please because of holding time.

	Date	Time		Date	Time
Relinquished by: Brent Barron	11/21/23	17:00	Received by:		
Relinquished by:	11/22/23	10:02	Received by:		
Relinquished by:			Received by:	11/22/23	10:02

Laboratory Comments:
Sample Containers Intact? (Y) N
VOCs Free of Headspace? (Y) N
Labels on container(s) (Y) N
Custody seals on container(s) Y N (N)
Custody seals on cooler(s) Y N (N)
Sample Hand Delivered Y N
by Sampler/Client Rep.? Y N
by Courier? UPS DHL (FedEx) Lone Star
Temperature Upon Receipt:
Received: 17.7 °C
Adjusted: 17.7 °C Factor 230292780

ORIGIN ID:MAFA (432) 686-7235
BRENT BARRON
PBE LAB
1400 RANKIN HWY

MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 21NOV23
ACTWGT: 3.00 LB
CAD: 107136846/INET4535
DIMS: 13x9x9 IN

BILL SENDER

TO SAMPLE RECEIVING
A & B ENVIRONMENTAL SERVICES
10100 EAST FREEWAY SUITE 100

HOUSTON TX 77029
(713) 453-6060 REF:
INV:
PO: DEPT:

FedEx Express

WED - 22 NOV 5:00P
STANDARD OVERNIGHT

TRK# 0201 7741 8616 7540

77029
TX-US IAH

AB HBYA

ANALYTICAL REPORT

January 04, 2024

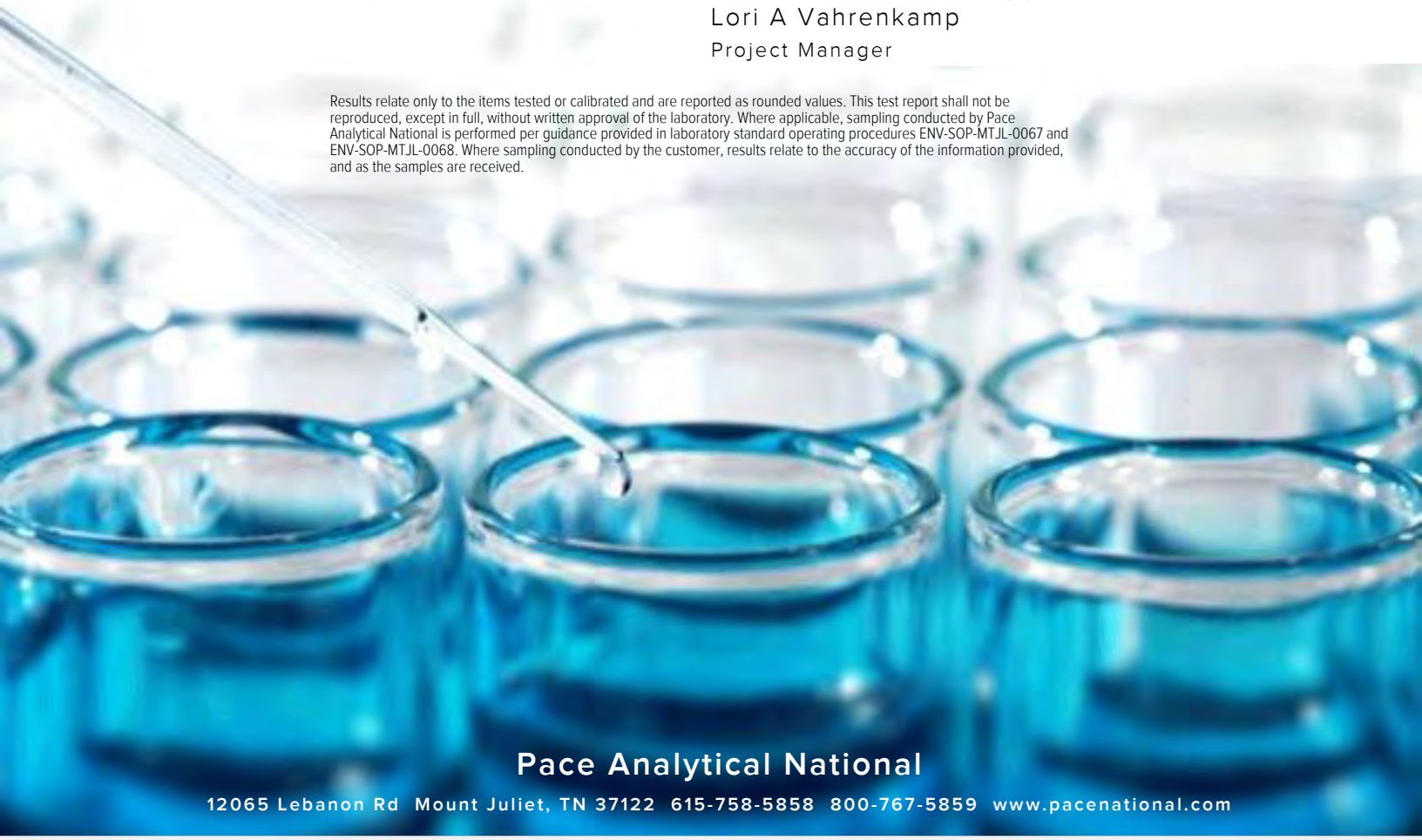
Plains All American Pipeline - ETECH

Sample Delivery Group:	L1692064
Samples Received:	12/29/2023
Project Number:	SRS #2009-084
Description:	DCP Plant to Lea Station 6" Section 31
Site:	SRS #2009-084
Report To:	Kimble Thrash PO Box 62228 Midland, TX 79711

Entire Report Reviewed By:

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

TABLE OF CONTENTS

SAMPLE SUMMARY

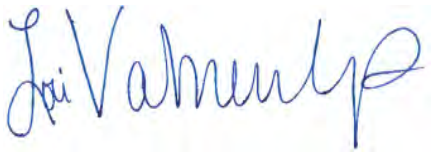
EFF-1 (122823) L1692064-01 Air

			Collected by	Collected date/time	Received date/time
			Kimble Thrash	12/28/23 11:00	12/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method M18-Mod	WG2199300	500	01/02/24 17:15	01/02/24 17:15	JAP	Mt. Juliet, TN

CASE NARRATIVE

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

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	100	319	170	543		500	WG2199300
Toluene	108-88-3	92.10	250	942	348	1310		500	WG2199300
Ethylbenzene	100-41-4	106	100	434	105	455		500	WG2199300
m&p-Xylene	179601-23-1	106	200	867	583	2530		500	WG2199300
o-Xylene	95-47-6	106	100	434	136	590		500	WG2199300
Methyl tert-butyl ether	1634-04-4	88.10	100	360	ND	ND		500	WG2199300
TPH (GC/MS) Low Fraction	8006-61-9	101	100000	413000	600000	2480000		500	WG2199300
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*94.9*				WG2199300

Sample Narrative:

L1692064-01 WG2199300: Non-target compounds too high to run at a lower dilution.

Method Blank (MB)

(MB) R4018913-3 01/02/24 09:40

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Benzene	U		0.0715	0.200
Toluene	U		0.0870	0.500
Ethylbenzene	U		0.0835	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
Methyl tert-butyl ether	U		0.0647	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	*91.1*			*60.0-140*

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

(LCS) R4018913-1 01/02/24 08:21 • (LCSD) R4018913-2 01/02/24 09:01

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	3.75	3.60	3.61	96.0	96.3	70.0-130			0.277	25
Toluene	3.75	3.68	3.68	98.1	98.1	70.0-130			0.000	25
Ethylbenzene	3.75	3.79	3.76	101	100	70.0-130			0.795	25
m&p-Xylene	7.50	7.64	7.63	102	102	70.0-130			0.131	25
o-Xylene	3.75	3.81	3.76	102	100	70.0-130			1.32	25
Methyl tert-butyl ether	3.75	3.58	3.55	95.5	94.7	70.0-130			0.842	25
TPH (GC/MS) Low Fraction	188	156	156	83.0	83.0	70.0-130			0.000	25
(S) 1,4-Bromofluorobenzene				*93.6*	*92.8*	*60.0-140*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
Plains All American Pipeline - ETECH

PO Box 62228
Midland, TX 79711

Billing Information:
Accounts Payable
333 Clay St
Suite 1600
Houston, TX 77002

Pres Chk

Report to: **Kimble Thrash**

Email To: **kimble@etechenv.com**

Project Description: **DCP Plant to Lea Station 6" Section 31**

City/State Collected: LEA COUNTY, NM

Please Circle: PT MT CT ET

Phone: 432-894-9996

Client Project # **SRS #2009-084**

Lab Project # **PLAINSETECH-NM GW**

Collected by (print): KIMBLE THRASH

Site/Facility ID # SRS #2009-084

P.O. #

Collected by (signature):

Immediately Packed on Ice N ✓ Y ___

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

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 8021B										Remarks	Sample # (lab only)
EFF-1 (122823)	G	AIR	N/A	12-28-2023	1100	1	X											01
*** END OF COC ***																		

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

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

SDG # L1692064
H034

Acctnum: **PLAINSETECH**
Template:
Prelogin:
PM: **3587 - Lori A Vahrenkamp**
PB:
Shipped Via: **Courier**

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

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 6426 8308 9342

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	12/28/23	1600			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
	12/28/23	4:55		AMB 1	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:	Hold:	Condition: NCF / OK
				12/29/23	0900		

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

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

CONDITIONS

Action 328409

CONDITIONS

Operator:	OGRID:
PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	34053
	Action Number: 328409
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the DCP Plant to Lea Station 6-Inch Section 31: content satisfactory 1. Continue to conduct groundwater monitoring on a semi-annual schedule for MW-3 and MW-6. Conduct quarterly monitoring events for MW-2, MW-4 and MW-5. 2. For MW-1, conduct AFR events on a monthly schedule as prescribed. 3. Continue to run and conduct O&M of the SVE system with emission sampling. 4. Submit the 2024 annual report to OCD by April 1, 2025.	8/1/2024