

# 2023 Annual Groundwater Monitoring Report

**REVIEWED**

By Mike Buchanan at 2:26 pm, Jul 03, 2024

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

Lea County, New Mexico

Unit Letter "I", Section 3, Township 21 South, Range 37 East

Latitude 32.503649 North, Longitude 103.148924 West

Plains SRS #: 2001-11005

NMOCD Reference #: 1RP-0398

NMOCD Incident ID #: nAPP2109740065

Review of the 2023 Annual  
Groundwater Monitoring Report  
for Livingston Ridge to Hugh--P.  
Sims: content satisfactory

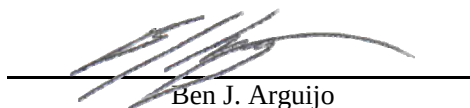
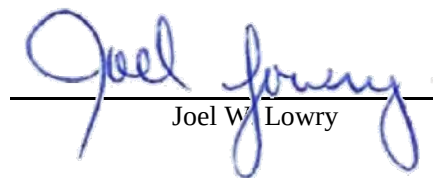
1. Continue to gauge and sample monitoring wells: MW-2, MW-5, MW-11 and MW-12 on a quarterly schedule as planned.
2. Conduct groundwater sampling for MW-7, MW-8, and MW-10 on an annual basis.
3. Conduct AFR events as prescribed to prevent down-gradient contamination.
4. Submit the 2024 annual report to the OCD by April 1, 2025.

Prepared By:

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

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Lubbock, TX 79413

  
Ben J. Arguijo  
Joel W. Lowry

Midland • San Antonio • Lubbock • Hobbs • Lafayette

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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 Livingston Ridge to Hugh – P. Sims Release Site in accordance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1st of each year.

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

## 2.0 BACKGROUND INFORMATION

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

In August 2002, Environmental Technology Group, Inc. (ETGI), assumed management of remedial activities and installed 12 additional groundwater monitor wells (MW-2 through MW-14) at the Site. The wells were installed to complete the delineation activities initiated by EPI. At the time of ETGI's investigation, the groundwater monitor wells had adequately delineated the hydrocarbon dissolved-phase plume and PSH plume at the Site. In 2004, Plains requested EPI manage the remediation and sampling activities.

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

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

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

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

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

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

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

### **3.0 FIELD ACTIVITIES**

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

A measurable thickness of PSH was detected in monitor well MW-1 on June 15, 2022. Manual recovery of PSH and dissolved-phase hydrocarbon-impacted groundwater from MW-1 commenced in February of 2023. Approximately 15.0 gallons of dissolved-phase hydrocarbon-impacted groundwater and 2.99 gallons of PSH were recovered from MW-1 during the 2023 reporting period. Groundwater gauging and PSH recovery data for monitor well MW-1 are summarized in Table 3.

Manual recovery of PSH and dissolved-phase hydrocarbon-impacted groundwater from monitor well MW-4 commenced in May 2019. A measurable thickness of PSH was detected in the well in October 2021. Approximately 30 gallons of dissolved-phase hydrocarbon-impacted groundwater and 0.91 gallons of PSH were recovered from MW-4 during the 2023 reporting period. A total of approximately 301 gallons (7.12 bbls) of dissolved-phase hydrocarbon-impacted groundwater have been recovered from the well since 2018, and approximately 2.00 gallons of PSH have been recovered since 2021. Groundwater gauging and PSH recovery data for monitor well MW-4 is summarized in Table 4.

Monthly manual recovery of dissolved-phase hydrocarbon-impacted groundwater was also conducted on monitor wells MW-5 and MW-12 in an effort to control the down- and cross-gradient migration of the dissolved-phase plume. Estimated volumes of 23.8 and 39.4 gallons of dissolved-phase hydrocarbon-impacted groundwater were recovered from monitor wells MW-5 and MW-12, respectively, during the reporting period. Summaries of groundwater recovery data are provided in Tables 5 and 6.

A measurable thickness of PSH was detected in monitor well TMW-1 following installation. On October 1, 2018, TMW-1 was plugged and abandoned, and replacement monitor well (TMW-1R) was drilled and completed. Manual recovery of PSH and dissolved-phase hydrocarbon-impacted groundwater from TMW-1R commenced in May of 2019. Approximately 25.0 gallons of dissolved-phase hydrocarbon-impacted groundwater and 4.41 gallons of PSH were recovered from TMW-1R during the 2023 reporting period. A total of approximately 9,815 gallons (234 barrels) of dissolved-phase hydrocarbon-impacted groundwater and 21.4 gallons of PSH have been recovered from the well since 2019. Groundwater gauging and PSH recovery data for monitor well TMW-1R are summarized in Table 7.

Approximately 13,758 gallons (327 bbls) of dissolved-phase hydrocarbon-impacted groundwater have been recovered by Aggressive Fluid Recovery (AFR) since 2019. No AFR events were conducted at the site during the monitoring period.

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

### **3.2 Groundwater Monitoring**

The on-site monitor wells were gauged and sampled on March 28 and 29 (1Q2023); June 28 (2Q2023); September 21 (3Q2023); and December 21, 2023 (4Q2023). The groundwater monitoring events consisted of measuring static water levels in the on-site monitor wells (MW-1, MW-2, MW-4 through MW-15, and TMW-1R), checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. Purged water was placed into a polystyrene aboveground storage tank (AST) and disposed of at an NMOCD-approved disposal facility.

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

Locations of the groundwater monitor wells and the inferred groundwater elevations, which were constructed from measurements collected during the 2023 quarterly sampling events, are depicted in Figures 2A through 2D. The maps indicate a general groundwater gradient of approximately 0.002 to 0.003 feet/foot to the southeast as measured between monitor wells MW-8 and MW-15. Groundwater elevation and PSH thickness data are summarized in Table 1.

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

## **4.0 LABORATORY RESULTS**

Groundwater samples collected from the on-site monitor wells during the quarterly and annual monitoring events were delivered to Permian Basin Environmental Lab (PBEL) and/or Pace Analytical in Midland, Texas, for determination of benzene, toluene, ethylbenzene, and total

xylenes (BTEX) and/or PAH constituent concentrations by Environmental Protection Agency (EPA) Method SW846-8021b. A summary of laboratory analytical results is presented in Table 2. Groundwater concentration maps are provided as Figures 3A through 3D. Laboratory analytical reports are provided as Appendix A.

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

## **QUARTERLY MONITORING**

### **Monitor Well MW-1**

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

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

Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory method detection limit (MDL) and less than NMOCD regulatory standards in each of the submitted groundwater samples.

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

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

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

Laboratory analytical results indicated benzene concentrations ranged from less than the laboratory MDL in 1Q2023, 2Q2023, and 3Q2023 to 0.000834 mg/L in 4Q2023. Toluene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL in each of the submitted groundwater samples.

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

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

Laboratory analytical results indicated benzene, toluene, and ethylbenzene concentrations were less than the appropriate laboratory MDL in each of the submitted groundwater samples. Total xylene concentrations ranged from less than the laboratory MDL in 1Q2023, 2Q2023, and 3Q2023 to 0.00107 mg/L in 4Q2023.

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

**Monitor Well MW-12**

Laboratory analytical results indicated benzene concentrations ranged from less than the laboratory MDL in 1Q2023, 2Q2023, and 3Q2023 to 0.000235 mg/L in 4Q2023. Toluene and ethylbenzene concentrations were less than the appropriate laboratory MDL in each of the submitted groundwater samples. Total xylene concentrations ranged from less than the laboratory MDL in 1Q2023, 2Q2023, and 3Q2023 to 0.00245 mg/L in 4Q2023.

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

**Monitor well TMW-1R**

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

**SEMI-ANNUAL MONITORING****Monitor Well MW-6, MW-9, MW-14, and MW-15**

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

**MW-13**

Laboratory analytical results indicated benzene, ethylbenzene, and toluene concentrations were less than the appropriate laboratory MDL in each of the submitted semi-annual groundwater samples. Total xylene concentrations ranged from less than the appropriate laboratory MDL in 1Q2023 to 0.000720 mg/L in 3Q2023.

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

**ANNUAL MONITORING****Monitor Wells MW-7, MW-8, and MW-10**

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

**5.0 SUMMARY**

This report presents the results of groundwater monitoring activities for the 2023 annual monitoring period. Currently, there are 15 groundwater monitor wells (MW-1, MW-2, MW-4 through MW-15, and TMW-1R) on-site. Monitor wells MW-2, MW-5, MW-11, and MW-12 are



gauged and sampled on a quarterly schedule. Monitor wells MW-6, MW-9, MW-13, MW-14, and MW-15 are sampled on a semi-annual basis. Monitor wells MW-7, MW-8, and MW-10 are on an annual sampling schedule. Monitor wells MW-1, MW-4, and TMW-1R are currently not sampled due to the presence of PSH.

Groundwater gauging data collected during the monitoring period indicates a general gradient of approximately 0.002 to 0.003 feet/foot to the southeast as measured between monitor wells MW-8 and MW-15.

Approximately 15.0 gallons of dissolved-phase hydrocarbon-impacted groundwater and 2.99 gallons of PSH were recovered from MW-1 during the 2023 reporting period.

Approximately 30 gallons of dissolved-phase hydrocarbon-impacted groundwater and 0.91 gallons of PSH were recovered from MW-4 during the 2023 reporting period. A total of approximately 301 gallons (7.12 bbls) of dissolved-phase hydrocarbon-impacted groundwater have been recovered from the well since 2018, and approximately 2.00 gallons of PSH have been recovered since 2021.

Approximately 23.8 and 39.4 gallons of dissolved-phase hydrocarbon-impacted groundwater were recovered from monitor wells MW-5 and MW-12, respectively, during the reporting period.

Approximately 25.0 gallons of dissolved-phase hydrocarbon-impacted groundwater and 4.41 gallons of PSH were recovered from monitor well TMW-1R during the reporting period. A total of approximately 23,548 gallons (561 barrels) of dissolved-phase hydrocarbon-impacted groundwater have been recovered from the well via a combination of manual recovery and AFR since 2019. Approximately 21.4 gallons of PSH have been recovered from the well since 2019.

No AFR events were conducted at the site during the monitoring period.

Review of laboratory analytical results from groundwater samples collected during the reporting period indicated BTEX constituent concentrations were less than NMOC 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-5, MW-11, and MW-12 will continue to be gauged and sampled on a quarterly schedule. Monitor wells MW-6, MW-9, MW-13, MW-14, and MW-15 will be sampled on a semi-annual basis. Monitor wells MW-7, MW-8, and MW-10 will be sampled annually.

In lieu of monthly manual recovery of PSH and dissolved-phase hydrocarbon-impacted groundwater, monthly AFR events will be conducted from monitor wells MW-1, MW-4, MW-5, MW-12, and TMW-1R in an effort to control the down-gradient migration of the dissolved-phase and free-phase plumes.



Results of the 2024 sampling and recovery 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 referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

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

## **8.0 DISTRIBUTION**

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

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

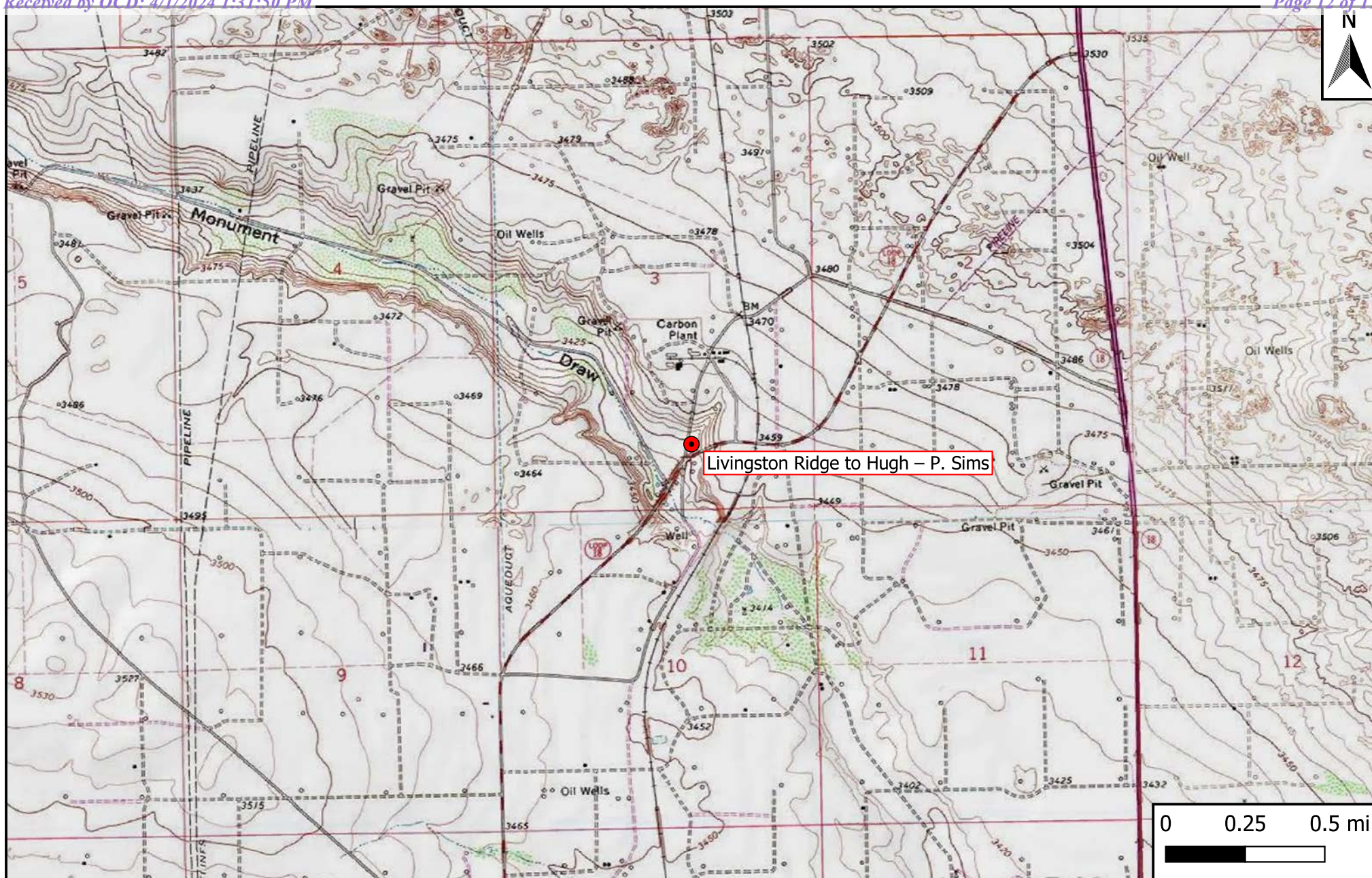
***Jeff Dann***  
***Plains All American Pipeline, LP***  
*333 Clay Street, Suite 1600*  
*Houston, Texas 77002*

*(Electronic Submission)*

## **Figure 1**

### **Site Location Map**





## Legend

- Site Location

## Figure 1

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



Drafted: bja

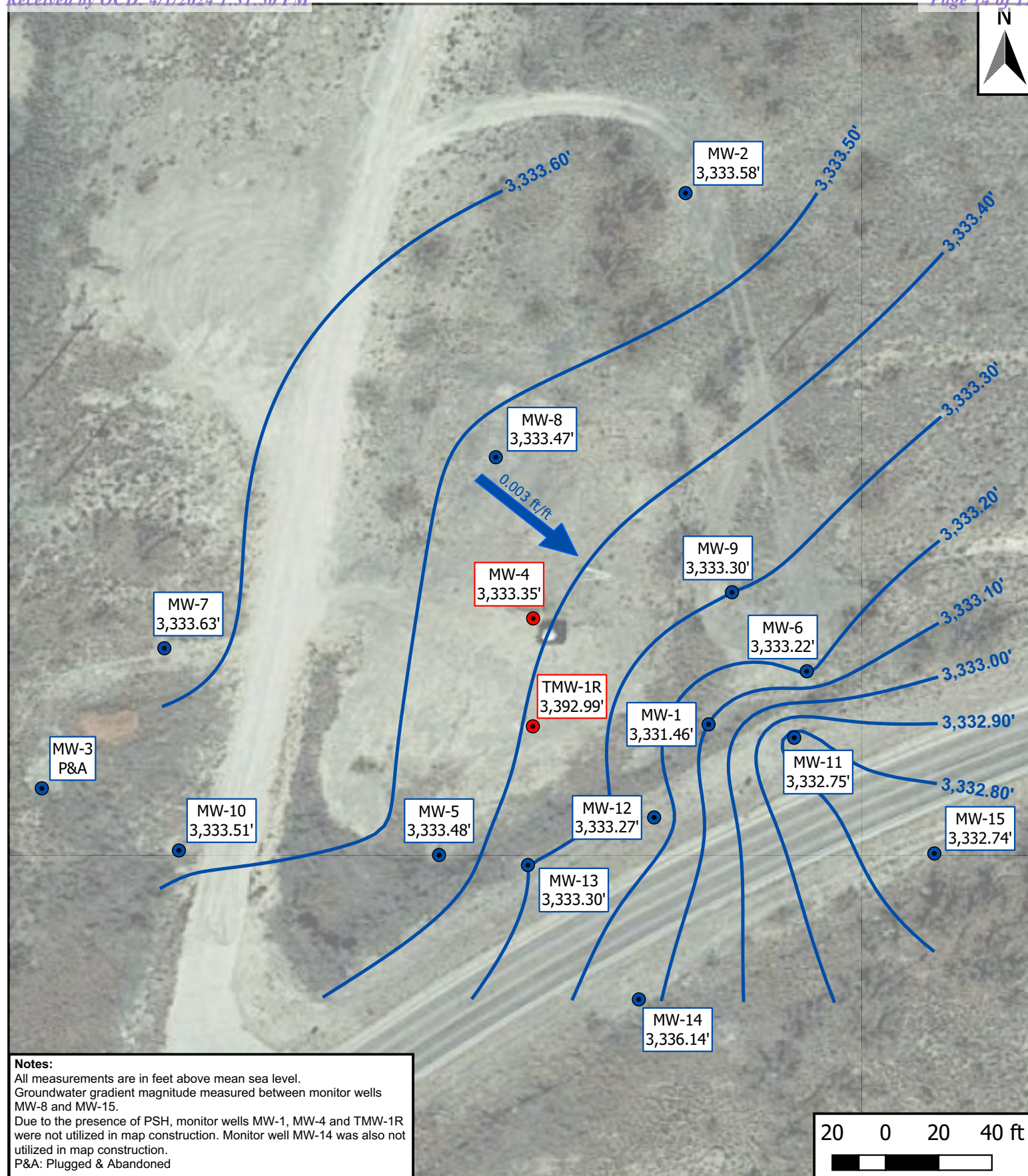
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## **Figures 2A - 2D**

### **Inferred Groundwater Gradient Maps**

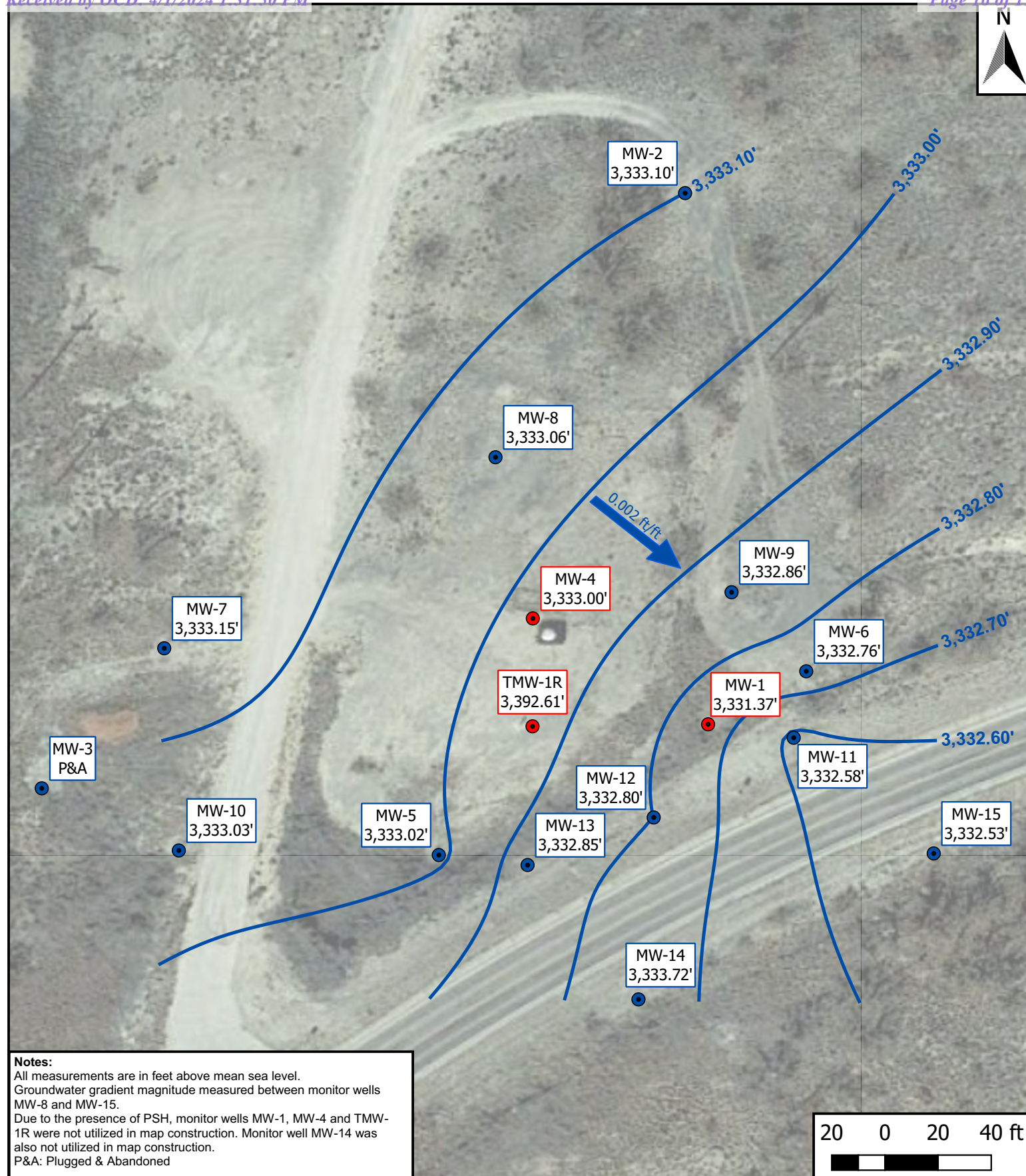










**Legend**

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

**Figure 2C**

Inferred Groundwater Gradient Map – 3Q2023  
 Plains All American Pipeline, LP  
 Livingston Ridge to Hugh – P. Sims  
 GPS: 32.503649, -103.148924  
 Lea County, New Mexico

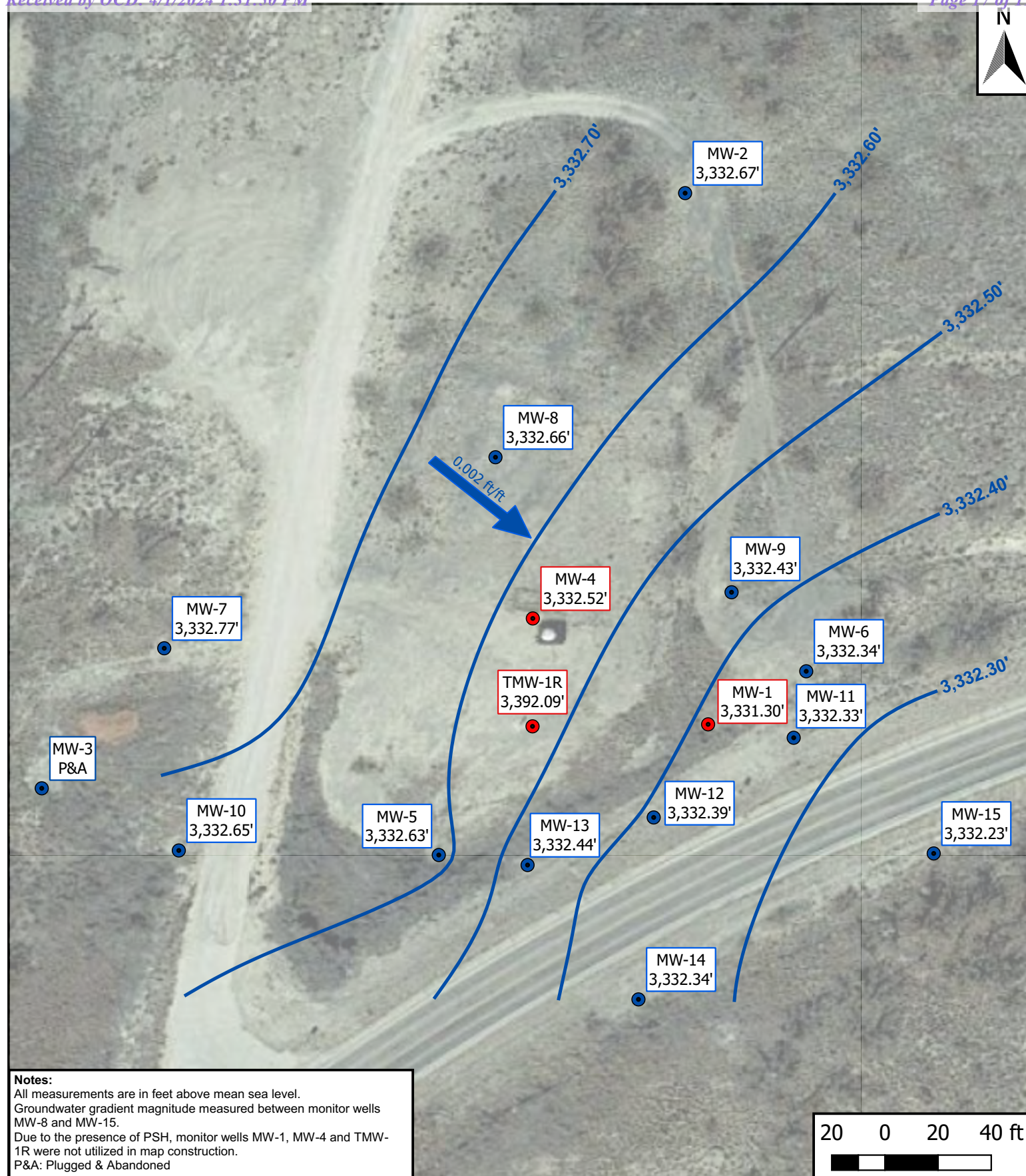


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Date: 2/20/24

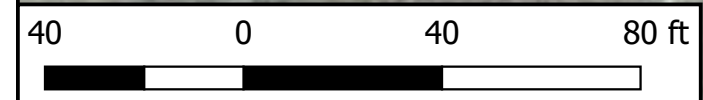
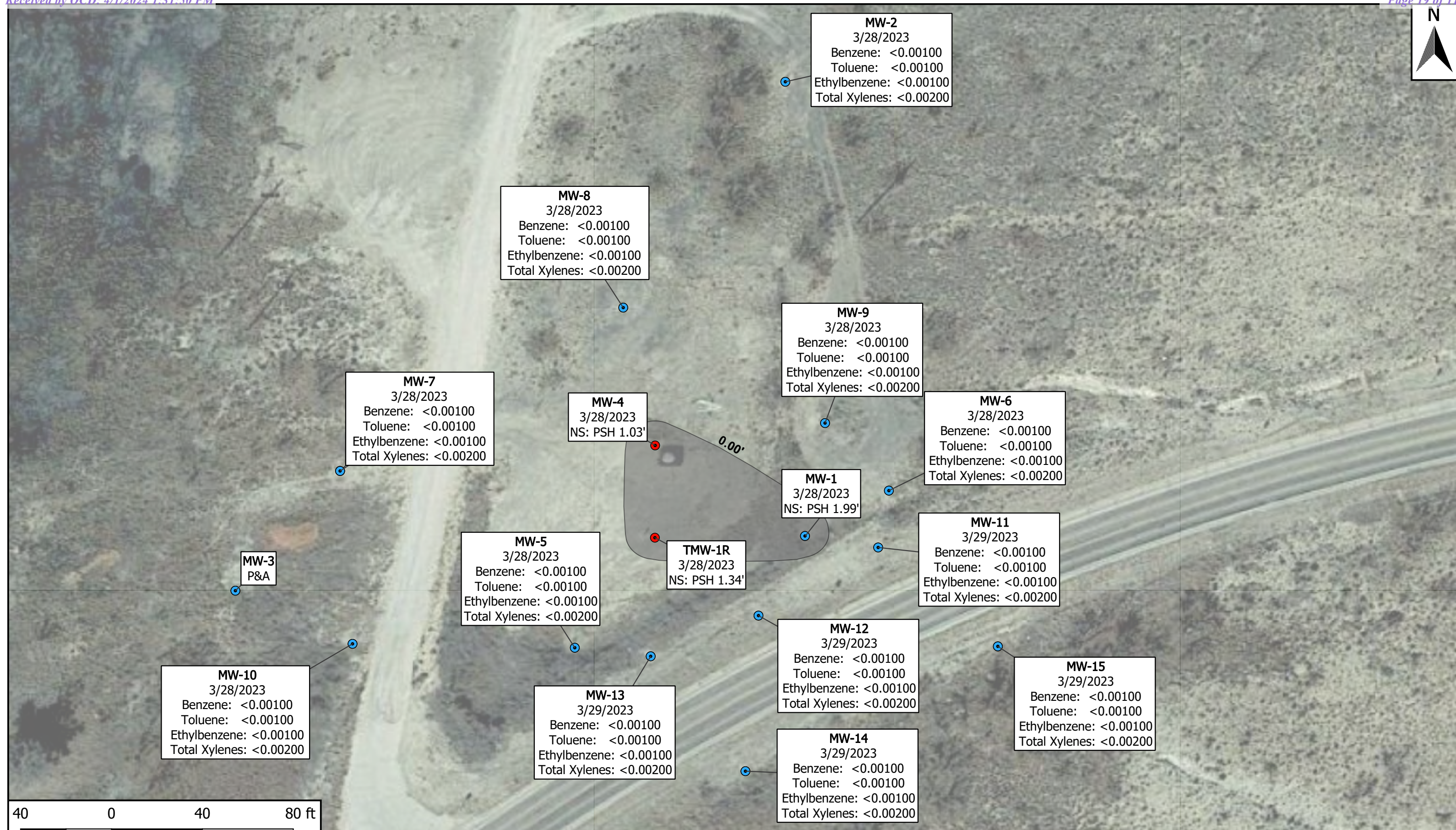




## **Figures 3A - 3D**

### **Groundwater Concentration Maps**





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

**Legend**

- Monitor Well
- Recovery Well
- PSH Extent

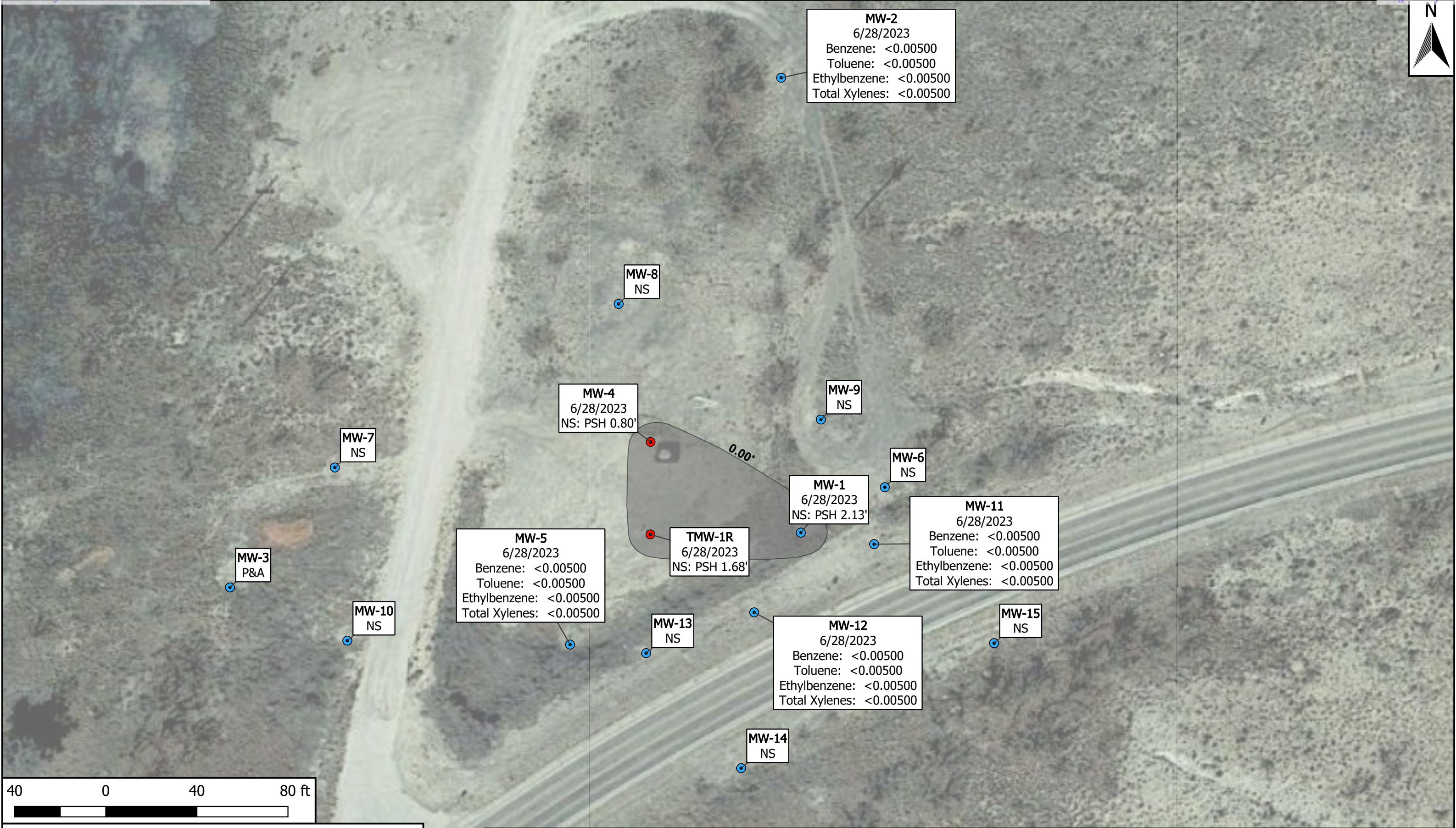
**Figure 3A**  
**Groundwater Concentration Map – 1Q2023**  
**Plains All American Pipeline, LP**  
**Livingston Ridge to Hugh – P. Sims**  
**GPS: 32.503649, -103.148924**  
**Lea County, New Mexico**



**Environmental & Safety Solutions, Inc.**

Drafted: bja      Checked: jwl      Date: 3/28/2024





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

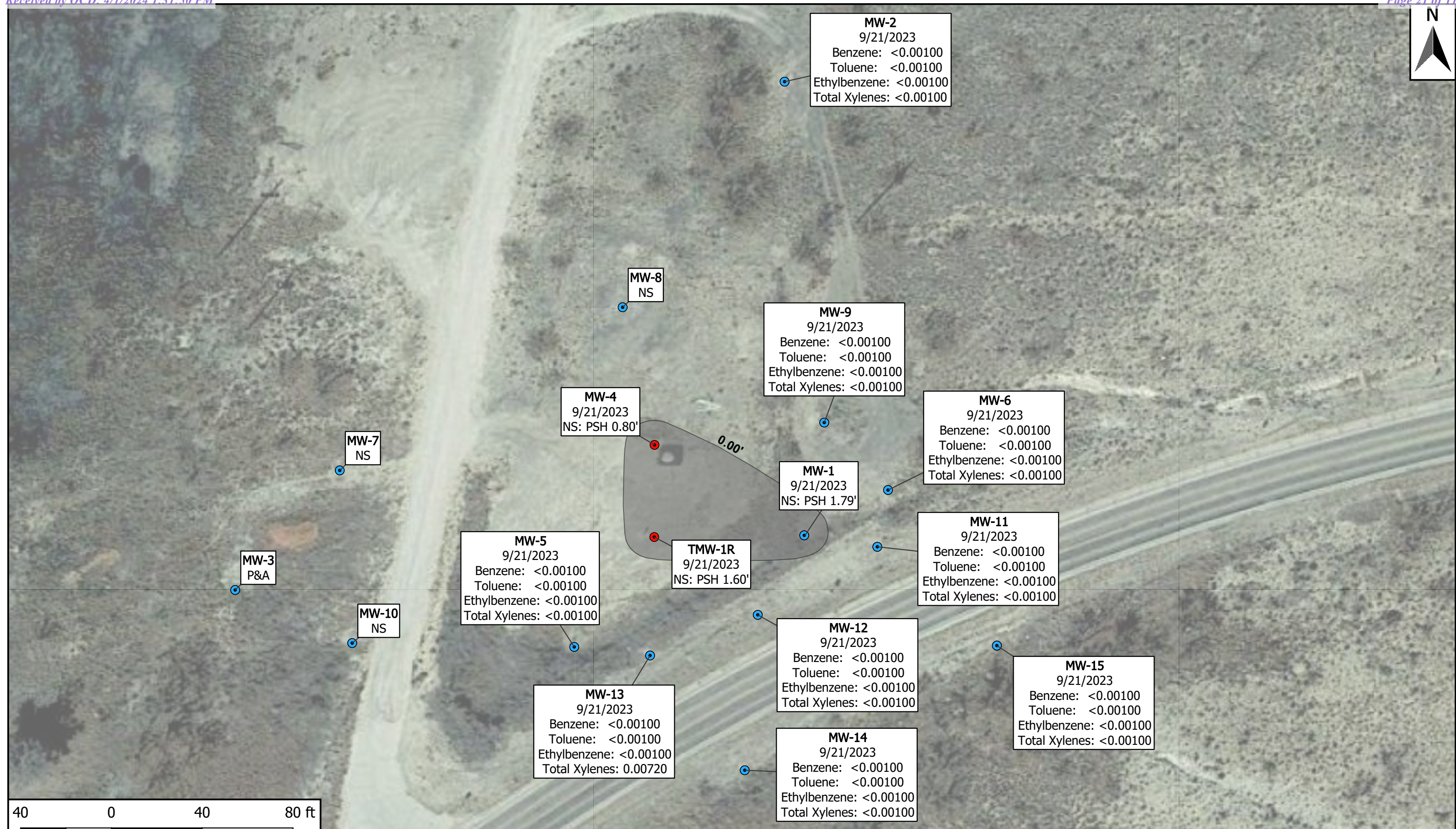
- Legend**
- Monitor Well
  - Recovery Well
  - PSH Extent

**Figure 3B**  
**Groundwater Concentration Map – 2Q2023**  
**Plains All American Pipeline, LP**  
**Livingston Ridge to Hugh – P. Sims GPS:**  
**32.503649, -103.148924**  
**Lea County, New Mexico**



Drafted: bja      Checked: jwl      Date: 2/14/2024





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

- Legend**
- Monitor Well
  - Recovery Well
  - PSH Extent

**Figure 3C**  
**Groundwater Concentration Map – 3Q2023**  
**Plains All American Pipeline, LP**  
**Livingston Ridge to Hugh – P. Sims**  
**GPS: 32.503649, -103.148924**  
**Lea County, New Mexico**



Drafted: bja      Checked: jwl      Date: 3/28/2024





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

**Legend**

- Monitor Well
- Recovery Well
- PSH Extent

**Figure 3D**  
**Groundwater Concentration Map – 4Q2023**  
**Plains All American Pipeline, LP**  
**Livingston Ridge to Hugh – P. Sims**  
**GPS: 32.503649, -103.148924**  
**Lea County, New Mexico**

**Environmental & Safety Solutions, Inc.**

Drafted: bja      Checked: jwl      Date: 3/28/2024



## **Tables 1 - 8**

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

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

*All measurements are in feet above mean sea level*

| Monitoring Well<br>(Well Diameter ") | Date<br>Gauged | Top of<br>Casing<br>(TOC) <sup>3</sup><br>Elevation* | Depth to<br>PSH Below<br>TOC<br>(feet) | Depth to<br>Water<br>Below TOC<br>(feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Groundwater<br>Elevation** |
|--------------------------------------|----------------|------------------------------------------------------|----------------------------------------|------------------------------------------|----------------------------|-----------------------------------------|
| MW-1 (2")                            | 03/16/2022     | 3,374.23                                             | -                                      | 40.39                                    | -                          | 3,333.84                                |
|                                      | 06/15/2022     |                                                      | 40.76                                  | 40.95                                    | 0.19                       | 3,333.28                                |
|                                      | 09/28/2022     |                                                      | 41.41                                  | 41.61                                    | 0.20                       | 3,332.62                                |
|                                      | 02/17/2023     |                                                      | 40.83                                  | 41.68                                    | 0.85                       | 3,332.55                                |
|                                      | 03/28/2023     |                                                      | 40.78                                  | 42.77                                    | 1.99                       | 3,331.46                                |
|                                      | 06/28/2023     |                                                      | 40.76                                  | 42.89                                    | 2.13                       | 3,331.34                                |
|                                      | 09/21/2023     |                                                      | 41.08                                  | 42.86                                    | 1.79                       | 3,331.37                                |
|                                      | 12/21/2023     |                                                      | 41.69                                  | 42.93                                    | 1.24                       | 3,331.30                                |
| MW-2 (2")                            | 03/16/2022     | 3,378.27                                             | -                                      | 44.13                                    | -                          | 3,334.14                                |
|                                      | 06/15/2022     |                                                      | -                                      | 44.50                                    | -                          | 3,333.77                                |
|                                      | 09/28/2022     |                                                      | -                                      | 45.17                                    | -                          | 3,333.10                                |
|                                      | 02/17/2023     |                                                      | -                                      | 44.65                                    | -                          | 3,333.62                                |
|                                      | 03/28/2023     |                                                      | -                                      | 44.69                                    | -                          | 3,333.58                                |
|                                      | 06/28/2023     |                                                      | -                                      | 45.23                                    | -                          | 3,333.04                                |
|                                      | 09/21/2023     |                                                      | -                                      | 45.17                                    | -                          | 3,333.10                                |
|                                      | 12/21/2023     |                                                      | -                                      | 45.60                                    | -                          | 3,332.67                                |
| MW-3 (2")                            | 10/01/2018     | 3,367.36                                             | Plugged & Abandoned                    |                                          |                            |                                         |
| MW-4 (2")                            | 03/16/2022     | 3,372.73                                             | 38.60                                  | 39.23                                    | 0.63                       | 3,334.04                                |
|                                      | 06/15/2022     |                                                      | 38.65                                  | 38.95                                    | 0.30                       | 3,334.04                                |
|                                      | 09/28/2022     |                                                      | 39.68                                  | 40.50                                    | 0.82                       | 3,332.93                                |
|                                      | 02/17/2023     |                                                      | 39.23                                  | 40.21                                    | 0.98                       | 3,333.35                                |
|                                      | 03/28/2023     |                                                      | 39.23                                  | 40.26                                    | 1.03                       | 3,333.35                                |
|                                      | 06/28/2023     |                                                      | 39.49                                  | 40.29                                    | 0.80                       | 3,333.12                                |
|                                      | 09/21/2023     |                                                      | 39.61                                  | 40.42                                    | 0.80                       | 3,333.00                                |
|                                      | 12/21/2023     |                                                      | 40.12                                  | 40.70                                    | 0.58                       | 3,332.52                                |
| MW-5 (2")                            | 03/16/2022     | 3,370.92                                             | -                                      | 36.84                                    | -                          | 3,334.08                                |
|                                      | 06/15/2022     |                                                      | -                                      | 37.28                                    | -                          | 3,333.64                                |
|                                      | 09/28/2022     |                                                      | -                                      | 37.92                                    | -                          | 3,333.00                                |
|                                      | 02/17/2023     |                                                      | -                                      | 37.94                                    | -                          | 3,332.98                                |
|                                      | 03/28/2023     |                                                      | -                                      | 37.44                                    | -                          | 3,333.48                                |
|                                      | 06/28/2023     |                                                      | -                                      | 37.97                                    | -                          | 3,332.95                                |
|                                      | 09/21/2023     |                                                      | -                                      | 37.90                                    | -                          | 3,333.02                                |
|                                      | 12/21/2023     |                                                      | -                                      | 38.29                                    | -                          | 3,332.63                                |
| MW-6 (2")                            | 03/16/2022     | 3,377.02                                             | -                                      | 43.23                                    | -                          | 3,333.79                                |
|                                      | 06/15/2022     |                                                      | -                                      | 43.53                                    | -                          | 3,333.49                                |
|                                      | 09/28/2022     |                                                      | -                                      | 44.21                                    | -                          | 3,332.81                                |
|                                      | 03/28/2023     |                                                      | -                                      | 43.80                                    | -                          | 3,333.22                                |
|                                      | 06/28/2023     |                                                      | -                                      | 44.31                                    | -                          | 3,332.71                                |
|                                      | 09/21/2023     |                                                      | -                                      | 44.26                                    | -                          | 3,332.76                                |
|                                      | 12/21/2023     |                                                      | -                                      | 44.68                                    | -                          | 3,332.34                                |

**Notes:**

1. PSH: Phase Separated Hydrocarbons

2. NMOCD: New Mexico Oil Conservation Division

3. TOC: Top of Casing

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

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



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

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

*All measurements are in feet above mean sea level*

| Monitoring Well<br>(Well Diameter ") | Date<br>Gauged | Top of<br>Casing<br>(TOC) <sup>3</sup><br>Elevation* | Depth to<br>PSH Below<br>TOC<br>(feet) | Depth to<br>Water<br>Below TOC<br>(feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Groundwater<br>Elevation** |
|--------------------------------------|----------------|------------------------------------------------------|----------------------------------------|------------------------------------------|----------------------------|-----------------------------------------|
| MW-7 (2")                            | 03/16/2022     | 3,369.47                                             | -                                      | 35.25                                    | -                          | 3,334.22                                |
|                                      | 06/15/2022     |                                                      | -                                      | 35.70                                    | -                          | 3,333.77                                |
|                                      | 09/28/2022     |                                                      | -                                      | 36.36                                    | -                          | 3,333.11                                |
|                                      | 03/28/2023     |                                                      | -                                      | 35.84                                    | -                          | 3,333.63                                |
|                                      | 06/28/2023     |                                                      | -                                      | 36.43                                    | -                          | 3,333.04                                |
|                                      | 09/21/2023     |                                                      | -                                      | 36.32                                    | -                          | 3,333.15                                |
|                                      | 12/21/2023     |                                                      | -                                      | 36.70                                    | -                          | 3,332.77                                |
| MW-8 (2")                            | 03/16/2022     | 3,373.77                                             | -                                      | 39.64                                    | -                          | 3,334.13                                |
|                                      | 06/15/2022     |                                                      | -                                      | 40.04                                    | -                          | 3,333.73                                |
|                                      | 09/28/2022     |                                                      | -                                      | 40.70                                    | -                          | 3,333.07                                |
|                                      | 03/28/2023     |                                                      | -                                      | 40.30                                    | -                          | 3,333.47                                |
|                                      | 06/28/2023     |                                                      | -                                      | 40.73                                    | -                          | 3,333.04                                |
|                                      | 09/21/2023     |                                                      | -                                      | 40.71                                    | -                          | 3,333.06                                |
|                                      | 12/21/2023     |                                                      | -                                      | 41.11                                    | -                          | 3,332.66                                |
| MW-9 (2")                            | 03/16/2022     | 3,375.92                                             | -                                      | 42.02                                    | -                          | 3,333.90                                |
|                                      | 06/15/2022     |                                                      | -                                      | 42.41                                    | -                          | 3,333.51                                |
|                                      | 09/28/2022     |                                                      | -                                      | 43.05                                    | -                          | 3,332.87                                |
|                                      | 03/28/2023     |                                                      | -                                      | 42.62                                    | -                          | 3,333.30                                |
|                                      | 06/28/2023     |                                                      | -                                      | 43.08                                    | -                          | 3,332.84                                |
|                                      | 09/21/2023     |                                                      | -                                      | 43.06                                    | -                          | 3,332.86                                |
|                                      | 12/21/2023     |                                                      | -                                      | 43.49                                    | -                          | 3,332.43                                |
| MW-10 (2")                           | 03/16/2022     | 3,370.17                                             | -                                      | 36.08                                    | -                          | 3,334.09                                |
|                                      | 06/15/2022     |                                                      | -                                      | 36.52                                    | -                          | 3,333.65                                |
|                                      | 09/28/2022     |                                                      | -                                      | 37.17                                    | -                          | 3,333.00                                |
|                                      | 03/28/2023     |                                                      | -                                      | 36.66                                    | -                          | 3,333.51                                |
|                                      | 06/28/2023     |                                                      | -                                      | 37.24                                    | -                          | 3,332.93                                |
|                                      | 09/21/2023     |                                                      | -                                      | 37.14                                    | -                          | 3,333.03                                |
|                                      | 12/21/2023     |                                                      | -                                      | 37.52                                    | -                          | 3,332.65                                |
| MW-11 (2")                           | 03/16/2022     | 3,373.96                                             | -                                      | 40.17                                    | -                          | 3,333.79                                |
|                                      | 06/15/2022     |                                                      | -                                      | 40.54                                    | -                          | 3,333.42                                |
|                                      | 09/28/2022     |                                                      | -                                      | 41.12                                    | -                          | 3,332.84                                |
|                                      | 02/17/2023     |                                                      | -                                      | 40.71                                    | -                          | 3,333.25                                |
|                                      | 03/28/2023     |                                                      | -                                      | 41.21                                    | -                          | 3,332.75                                |
|                                      | 06/28/2023     |                                                      | -                                      | 41.30                                    | -                          | 3,332.66                                |
|                                      | 09/21/2023     |                                                      | -                                      | 41.38                                    | -                          | 3,332.58                                |
|                                      | 12/21/2023     |                                                      | -                                      | 41.63                                    | -                          | 3,332.33                                |
| MW-12 (2")                           | 03/16/2022     | 3,372.41                                             | -                                      | 38.56                                    | -                          | 3,333.85                                |
|                                      | 06/15/2022     |                                                      | -                                      | 38.96                                    | -                          | 3,333.45                                |
|                                      | 09/28/2022     |                                                      | -                                      | 39.60                                    | -                          | 3,332.81                                |
|                                      | 02/17/2023     |                                                      | -                                      | 39.20                                    | -                          | 3,333.21                                |
|                                      | 03/28/2023     |                                                      | -                                      | 39.14                                    | -                          | 3,333.27                                |
|                                      | 06/28/2023     |                                                      | -                                      | 39.66                                    | -                          | 3,332.75                                |
|                                      | 09/21/2023     |                                                      | -                                      | 39.61                                    | -                          | 3,332.80                                |
|                                      | 12/21/2023     |                                                      | -                                      | 40.02                                    | -                          | 3,332.39                                |

**Notes:**

1. PSH: Phase Separated Hydrocarbons

2. NMOCD: New Mexico Oil Conservation Division

3. TOC: Top of Casing

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

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

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

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

*All measurements are in feet above mean sea level*

| Monitoring Well<br>(Well Diameter ") | Date<br>Gauged | Top of<br>Casing<br>(TOC) <sup>3</sup><br>Elevation* | Depth to<br>PSH Below<br>TOC<br>(feet) | Depth to<br>Water<br>Below TOC<br>(feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Groundwater<br>Elevation** |
|--------------------------------------|----------------|------------------------------------------------------|----------------------------------------|------------------------------------------|----------------------------|-----------------------------------------|
| MW-13 (2")                           | 03/16/2022     | 3,368.91                                             | -                                      | 35.03                                    | -                          | 3,333.88                                |
|                                      | 06/15/2022     |                                                      | -                                      | 35.43                                    | -                          | 3,333.48                                |
|                                      | 09/28/2022     |                                                      | -                                      | 36.07                                    | -                          | 3,332.84                                |
|                                      | 03/28/2023     |                                                      | -                                      | 35.61                                    | -                          | 3,333.30                                |
|                                      | 06/28/2023     |                                                      | -                                      | 36.11                                    | -                          | 3,332.80                                |
|                                      | 09/21/2023     |                                                      | -                                      | 36.06                                    | -                          | 3,332.85                                |
|                                      | 12/21/2023     |                                                      | -                                      | 36.47                                    | -                          | 3,332.44                                |
| MW-14 (2")                           | 03/16/2022     | 3,371.54                                             | -                                      | 37.75                                    | -                          | 3,333.79                                |
|                                      | 06/15/2022     |                                                      | -                                      | 38.15                                    | -                          | 3,333.39                                |
|                                      | 09/28/2022     |                                                      | -                                      | 38.81                                    | -                          | 3,332.73                                |
|                                      | 03/28/2023     |                                                      | -                                      | 35.40                                    | -                          | 3,336.14                                |
|                                      | 06/28/2023     |                                                      | -                                      | 38.86                                    | -                          | 3,332.68                                |
|                                      | 09/21/2023     |                                                      | -                                      | 37.82                                    | -                          | 3,333.72                                |
|                                      | 12/21/2023     |                                                      | -                                      | 39.20                                    | -                          | 3,332.34                                |
| MW-15 (2")                           | 03/16/2022     | 3,377.64                                             | -                                      | 43.97                                    | -                          | 3,333.67                                |
|                                      | 06/15/2022     |                                                      | -                                      | 44.35                                    | -                          | 3,333.29                                |
|                                      | 09/28/2022     |                                                      | -                                      | 45.00                                    | -                          | 3,332.64                                |
|                                      | 03/28/2023     |                                                      | -                                      | 44.90                                    | -                          | 3,332.74                                |
|                                      | 06/28/2023     |                                                      | -                                      | 45.02                                    | -                          | 3,332.62                                |
|                                      | 09/21/2023     |                                                      | -                                      | 45.11                                    | -                          | 3,332.53                                |
|                                      | 12/21/2023     |                                                      | -                                      | 45.41                                    | -                          | 3,332.23                                |
| TMW-1 (2")                           | 10/01/2018     | Plugged & Abandoned                                  |                                        |                                          |                            |                                         |
| TMW-1R                               | 03/16/2022     | 3,431.82                                             | 38.12                                  | 38.40                                    | 0.28                       | 3,393.66                                |
|                                      | 06/15/2022     |                                                      | 38.55                                  | 38.85                                    | 0.30                       | 3,393.23                                |
|                                      | 09/28/2022     |                                                      | 39.07                                  | 40.50                                    | 1.43                       | 3,392.54                                |
|                                      | 02/17/2023     |                                                      | 38.66                                  | 39.41                                    | 0.75                       | 3,393.05                                |
|                                      | 03/28/2023     |                                                      | 38.63                                  | 39.97                                    | 1.34                       | 3,392.99                                |
|                                      | 06/28/2023     |                                                      | 38.82                                  | 40.50                                    | 1.68                       | 3,392.75                                |
|                                      | 09/21/2023     |                                                      | 38.97                                  | 40.57                                    | 1.60                       | 3,392.61                                |
|                                      | 12/21/2023     |                                                      | 39.46                                  | 41.24                                    | 1.78                       | 3,392.09                                |

**Notes:**

1. PSH: Phase Separated Hydrocarbons

2. NMOCD: New Mexico Oil Conservation Division

3. TOC: Top of Casing

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

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



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

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

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

| Monitoring Well                  |            | Date Sampled                                    | EPA SW846-8021B |            |                    |             |            |                 |
|----------------------------------|------------|-------------------------------------------------|-----------------|------------|--------------------|-------------|------------|-----------------|
|                                  |            |                                                 | Benzene         | Toluene    | Ethylbenzene       | M,P-Xylenes | O-Xylenes  | Total Xylenes   |
| NMOCD RRAL CRITERIA <sup>3</sup> |            | 0.01                                            | 0.75            | 0.75       | TOTAL XYLENES 0.62 |             |            | NE <sup>4</sup> |
| MW-1                             | 03/17/2022 | <0.000408                                       | <0.000367       | 0.00330    | <0.000629          | <0.000642   | <0.000642  | 0.00330 J       |
|                                  | 06/15/2022 | Not Sampled Due to Phase Separated Hydrocarbons |                 |            |                    |             |            |                 |
|                                  | 09/28/2022 |                                                 |                 |            |                    |             |            |                 |
|                                  | 02/21/2023 |                                                 |                 |            |                    |             |            |                 |
|                                  | 03/28/2023 |                                                 |                 |            |                    |             |            |                 |
|                                  | 06/28/2023 |                                                 |                 |            |                    |             |            |                 |
|                                  | 09/21/2023 |                                                 |                 |            |                    |             |            |                 |
|                                  | 12/21/2023 |                                                 |                 |            |                    |             |            |                 |
| MW-2                             | 03/16/2022 | <0.000408                                       | <0.000367       | <0.000657  | <0.000629          | <0.000642   | <0.000642  | <0.000657       |
|                                  | 06/15/2022 | <0.000408                                       | 0.000703 J      | <0.000657  | <0.000629          | <0.000642   | <0.000642  | 0.000703 J      |
|                                  | 09/28/2022 | <0.000533                                       | <0.000475       | <0.000411  | <0.00124           | <0.000551   | <0.00124   | <0.00124        |
|                                  | DUP-2      | <0.000533                                       | <0.000475       | <0.000411  | <0.00124           | <0.000551   | <0.00124   | <0.00124        |
|                                  | 02/21/2023 | <0.000408                                       | <0.000367       | <0.000657  | <0.000629          | <0.000642   | <0.000642  | <0.000657       |
|                                  | 03/28/2023 | <0.00100                                        | <0.00100        | <0.00100   | <0.00200           | <0.00100    | <0.00200   | <0.00200        |
|                                  | 06/28/2023 | <0.00500                                        | <0.00500        | <0.00500   | <0.0100            | <0.00500    | <0.00500   | <0.00500        |
|                                  | 09/21/2023 | <0.00100                                        | <0.00100        | <0.00100   | <0.00200           | <0.00100    | <0.00100   | <0.00100        |
|                                  | 12/21/2023 | <0.000190                                       | <0.000412       | <0.000160  | -                  | -           | <0.000510  | <0.000510       |
| MW-3                             | 10/01/2018 | Plugged & Abandoned                             |                 |            |                    |             |            |                 |
| MW-4                             | 03/17/2022 | Not Sampled Due to Phase Separated Hydrocarbons |                 |            |                    |             |            |                 |
|                                  | 06/15/2022 |                                                 |                 |            |                    |             |            |                 |
|                                  | 09/28/2022 |                                                 |                 |            |                    |             |            |                 |
|                                  | 02/21/2023 |                                                 |                 |            |                    |             |            |                 |
|                                  | 03/28/2023 |                                                 |                 |            |                    |             |            |                 |
|                                  | 06/28/2023 |                                                 |                 |            |                    |             |            |                 |
|                                  | 09/21/2023 |                                                 |                 |            |                    |             |            |                 |
|                                  | 12/21/2023 |                                                 |                 |            |                    |             |            |                 |
| MW-5                             | 03/17/2022 | <0.000408                                       | 0.000434 J      | 0.000882 J | <0.000629          | <0.000642   | <0.000642  | 0.00132 J       |
|                                  | 06/15/2022 | <0.00408                                        | <0.00367        | <0.00657   | <0.00629           | <0.00642    | <0.00642   | <0.00657        |
|                                  | 09/28/2022 | <0.000533                                       | <0.000475       | 0.000426   | <0.00124           | <0.000551   | <0.00124   | <0.00124        |
|                                  | 02/21/2023 | <0.000408                                       | <0.000367       | <0.000657  | <0.000629          | 0.000687 J  | 0.000687 J | 0.000687 J      |
|                                  | 03/28/2023 | <0.00100                                        | <0.00100        | <0.00100   | <0.00200           | <0.00100    | <0.00200   | <0.00200        |
|                                  | 06/28/2023 | <0.00500                                        | <0.00500        | <0.00500   | <0.0100            | <0.00500    | <0.00500   | <0.00500        |
|                                  | 09/21/2023 | <0.00100                                        | <0.00100        | <0.00100   | <0.00200           | <0.00100    | <0.00100   | <0.00100        |
|                                  | 12/21/2023 | 0.000834                                        | <0.000412       | <0.000160  | -                  | -           | <0.000510  | 0.000834        |
| MW-6                             | 03/17/2022 | <0.000408                                       | 0.000382 J      | <0.000657  | <0.000629          | <0.000642   | <0.000642  | <0.000657       |
|                                  | 06/15/2022 | Not Sampled (Semi-Annual Schedule)              |                 |            |                    |             |            |                 |
|                                  | 09/28/2022 | <0.000533                                       | <0.000475       | <0.000411  | <0.00124           | <0.000551   | <0.00124   | <0.00124        |
|                                  | 02/21/2023 | Not Sampled (Semi-Annual Schedule)              |                 |            |                    |             |            |                 |
|                                  | 03/28/2023 | <0.00100                                        | <0.00100        | <0.00100   | <0.00200           | <0.00100    | <0.00200   | <0.00200        |
|                                  | 06/28/2023 | Not Sampled (Semi-Annual Schedule)              |                 |            |                    |             |            |                 |
|                                  | 09/21/2023 | <0.00100                                        | <0.00100        | <0.00100   | <0.00200           | <0.00100    | <0.00100   | <0.00100        |
|                                  | 12/21/2023 | Not Sampled (Semi-Annual Schedule)              |                 |            |                    |             |            |                 |
| MW-7                             | 03/16/2022 | <0.000408                                       | <0.000367       | <0.000657  | <0.000629          | <0.000642   | <0.000642  | <0.000657       |
|                                  | 06/15/2022 | Not Sampled (Annual Schedule)                   |                 |            |                    |             |            |                 |
|                                  | 09/28/2022 |                                                 |                 |            |                    |             |            |                 |
|                                  | 02/21/2023 |                                                 |                 |            |                    |             |            |                 |
|                                  | 03/28/2023 | <0.00100                                        | <0.00100        | <0.00100   | <0.00200           | <0.00100    | <0.00200   | <0.00200        |
|                                  | 06/28/2023 | Not Sampled (Annual Schedule)                   |                 |            |                    |             |            |                 |
|                                  | 09/21/2023 |                                                 |                 |            |                    |             |            |                 |
|                                  | 12/21/2023 |                                                 |                 |            |                    |             |            |                 |

**Notes:**

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

2. NMOCD: New Mexico Oil Conservation Division

3. RRAL Criteria: Recommended Remediation Action Level Criteria

4. NE: Not Established

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

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

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

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

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

| Monitoring Well                  | Date Sampled | EPA SW846-8021B                    |            |              |                    |           |               |                 |
|----------------------------------|--------------|------------------------------------|------------|--------------|--------------------|-----------|---------------|-----------------|
|                                  |              | Benzene                            | Toluene    | Ethylbenzene | M,P-Xylenes        | O-Xylenes | Total Xylenes | Total BTEX      |
| NMOCD RRAL CRITERIA <sup>3</sup> |              | 0.01                               | 0.75       | 0.75         | TOTAL XYLENES 0.62 |           |               | NE <sup>4</sup> |
| MW-8                             | 03/16/2022   | <0.000408                          | <0.000367  | <0.000657    | <0.000629          | <0.000642 | <0.000642     | <0.000657       |
|                                  | DUP-1        | <0.000408                          | <0.000367  | <0.000657    | <0.000629          | <0.000642 | <0.000642     | <0.000657       |
|                                  | 06/15/2022   | Not Sampled (Annual Schedule)      |            |              |                    |           |               |                 |
|                                  | 09/28/2022   |                                    |            |              |                    |           |               |                 |
|                                  | 02/21/2023   |                                    |            |              |                    |           |               |                 |
|                                  | 03/28/2023   | <0.00100                           | <0.00100   | <0.00100     | <0.00200           | <0.00100  | <0.00200      | <0.00200        |
|                                  | 06/28/2023   | Not Sampled (Annual Schedule)      |            |              |                    |           |               |                 |
|                                  | 09/21/2023   |                                    |            |              |                    |           |               |                 |
| 12/21/2023                       |              |                                    |            |              |                    |           |               |                 |
| MW-9                             | 03/16/2022   | <0.000408                          | <0.000367  | <0.000657    | <0.000629          | <0.000642 | <0.000642     | <0.000657       |
|                                  | 06/15/2022   | Not Sampled (Semi-Annual Schedule) |            |              |                    |           |               |                 |
|                                  | 09/28/2022   | <0.000533                          | <0.000475  | <0.000411    | <0.00124           | <0.000551 | <0.00124      | <0.00124        |
|                                  | 02/21/2023   | Not Sampled (Semi-Annual Schedule) |            |              |                    |           |               |                 |
|                                  | 03/28/2023   | <0.00100                           | <0.00100   | <0.00100     | <0.00200           | <0.00100  | <0.00200      | <0.00200        |
|                                  | 06/28/2023   | Not Sampled (Semi-Annual Schedule) |            |              |                    |           |               |                 |
|                                  | 09/21/2023   | <0.00100                           | <0.00100   | <0.00100     | <0.00200           | <0.00100  | <0.00100      | <0.00100        |
|                                  | 12/21/2023   | Not Sampled (Semi-Annual Schedule) |            |              |                    |           |               |                 |
| MW-10                            | 03/16/2022   | <0.000408                          | <0.000367  | <0.000657    | <0.000629          | <0.000642 | <0.000642     | <0.000657       |
|                                  | 06/15/2022   | Not Sampled (Annual Schedule)      |            |              |                    |           |               |                 |
|                                  | 09/28/2022   |                                    |            |              |                    |           |               |                 |
|                                  | 02/21/2023   |                                    |            |              |                    |           |               |                 |
|                                  | 03/28/2023   | <0.00100                           | <0.00100   | <0.00100     | <0.00200           | <0.00100  | <0.00200      | <0.00200        |
|                                  | 06/28/2023   | Not Sampled (Annual Schedule)      |            |              |                    |           |               |                 |
|                                  | 09/21/2023   |                                    |            |              |                    |           |               |                 |
|                                  | 12/21/2023   |                                    |            |              |                    |           |               |                 |
| MW-11                            | 03/17/2022   | <0.000408                          | <0.000367  | <0.000657    | <0.000629          | <0.000642 | <0.000642     | <0.000657       |
|                                  | 06/15/2022   | <0.000408                          | 0.000430 J | <0.000657    | <0.000629          | <0.000642 | <0.000642     | <0.000657       |
|                                  | 09/28/2022   | <0.000533                          | <0.000475  | <0.000411    | <0.00124           | <0.000551 | <0.00124      | <0.00124        |
|                                  | 02/21/2023   | <0.000408                          | <0.000367  | <0.000657    | <0.000629          | <0.000642 | <0.000642     | <0.000657       |
|                                  | 03/29/2023   | <0.00100                           | <0.00100   | <0.00100     | <0.00200           | <0.00100  | <0.00200      | <0.00200        |
|                                  | 06/28/2023   | <0.00500                           | <0.00500   | <0.00500     | <0.0100            | <0.00500  | <0.00500      | <0.00500        |
|                                  | 09/21/2023   | <0.00100                           | <0.00100   | <0.00100     | <0.00200           | <0.00100  | <0.00100      | <0.00100        |
|                                  | 12/21/2023   | <0.000190                          | <0.000412  | <0.000160    | -                  | -         | 0.00107       | 0.00107         |
| MW-12                            | 03/17/2022   | <0.000408                          | <0.000367  | <0.000657    | <0.000629          | <0.000642 | <0.000642     | <0.000657       |
|                                  | DUP-2        | <0.000408                          | <0.000367  | <0.000657    | <0.000629          | <0.000642 | <0.000642     | <0.000657       |
|                                  | 06/15/2022   | <0.00408                           | 0.00416 J  | <0.00657     | <0.00629           | <0.00642  | <0.00642      | <0.00657        |
|                                  | DUP-1        | <0.00408                           | <0.00367   | <0.00657     | <0.00629           | <0.00642  | <0.00642      | <0.00657        |
|                                  | 09/28/2022   | <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        |
|                                  | 02/21/2023   | <0.000408                          | <0.000367  | <0.000657    | <0.000629          | <0.000642 | <0.000642     | <0.000657       |
|                                  | 03/29/2023   | <0.00100                           | <0.00100   | <0.00100     | <0.00200           | <0.00100  | <0.00200      | <0.00200        |
|                                  | 06/28/2023   | <0.00500                           | <0.00500   | <0.00500     | <0.0100            | <0.00500  | <0.00500      | <0.00500        |
|                                  | 09/21/2023   | <0.00100                           | <0.00100   | <0.00100     | <0.00200           | <0.00100  | <0.00100      | 0.000570        |
| 12/21/2023                       | 0.000235     | <0.000412                          | <0.000160  | -            | -                  | 0.00245   | 0.00269       |                 |
| MW-13                            | 03/17/2022   | <0.000408                          | <0.000367  | <0.000657    | <0.000629          | <0.000642 | <0.000642     | <0.000657       |
|                                  | 06/15/2022   | Not Sampled (Semi-Annual Schedule) |            |              |                    |           |               |                 |
|                                  | 09/28/2022   | <0.000533                          | <0.000475  | <0.000411    | <0.00124           | <0.000551 | <0.00124      | <0.00124        |
|                                  | 02/21/2023   | Not Sampled (Semi-Annual Schedule) |            |              |                    |           |               |                 |
|                                  | 03/29/2023   | <0.00100                           | <0.00100   | <0.00100     | <0.00200           | <0.00100  | <0.00200      | <0.00200        |
|                                  | 06/28/2023   | Not Sampled (Semi-Annual Schedule) |            |              |                    |           |               |                 |
|                                  | 09/21/2023   | <0.00100                           | <0.00100   | <0.00100     | <0.00200           | <0.00100  | 0.000720      | 0.00142         |
|                                  | 12/21/2023   | Not Sampled (Semi-Annual Schedule) |            |              |                    |           |               |                 |

**Notes:**

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

2. NMOCD: New Mexico Oil Conservation Division

3. RRAL Criteria: Recommended Remediation Action Level Criteria

4. NE: Not Established

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

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



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

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

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

| Monitoring Well                  |                                    | Date Sampled                                    | EPA SW846-8021B |           |                    |             |           |                 |
|----------------------------------|------------------------------------|-------------------------------------------------|-----------------|-----------|--------------------|-------------|-----------|-----------------|
|                                  |                                    |                                                 | Benzene         | Toluene   | Ethylbenzene       | M,P-Xylenes | O-Xylenes | Total Xylenes   |
| NMOCD RRAL CRITERIA <sup>3</sup> |                                    | 0.01                                            | 0.75            | 0.75      | TOTAL XYLENES 0.62 |             |           | NE <sup>4</sup> |
| MW-14                            | 03/16/2022                         | <0.000408                                       | <0.000367       | <0.000657 | <0.000629          | <0.000642   | <0.000642 | <0.000657       |
|                                  | 06/15/2022                         | Not Sampled (Semi-Annual Schedule)              |                 |           |                    |             |           |                 |
|                                  | 09/28/2022                         | <0.000533                                       | <0.000475       | <0.000411 | <0.00124           | <0.000551   | <0.00124  | <0.00124        |
|                                  | 02/21/2023                         | Not Sampled (Semi-Annual Schedule)              |                 |           |                    |             |           |                 |
|                                  | 03/29/2023                         | <0.00100                                        | <0.00100        | <0.00100  | <0.00200           | <0.00100    | <0.00200  | <0.00200        |
|                                  | 06/28/2023                         | Not Sampled (Semi-Annual Schedule)              |                 |           |                    |             |           |                 |
|                                  | 09/21/2023                         | <0.00100                                        | <0.00100        | <0.00100  | <0.00200           | <0.00100    | <0.00100  | <0.00100        |
| 12/21/2023                       | Not Sampled (Semi-Annual Schedule) |                                                 |                 |           |                    |             |           |                 |
| MW-15                            | 03/16/2022                         | <0.000408                                       | <0.000367       | <0.000657 | <0.000629          | <0.000642   | <0.000642 | <0.000657       |
|                                  | 06/15/2022                         | Not Sampled (Semi-Annual Schedule)              |                 |           |                    |             |           |                 |
|                                  | 09/28/2022                         | <0.000533                                       | <0.000475       | <0.000411 | <0.00124           | <0.000551   | <0.00124  | <0.00124        |
|                                  | 02/21/2023                         | Not Sampled (Semi-Annual Schedule)              |                 |           |                    |             |           |                 |
|                                  | 03/29/2023                         | <0.00100                                        | <0.00100        | <0.00100  | <0.00200           | <0.00100    | <0.00200  | <0.00200        |
|                                  | 06/28/2023                         | Not Sampled (Semi-Annual Schedule)              |                 |           |                    |             |           |                 |
|                                  | 09/21/2023                         | <0.00100                                        | <0.00100        | <0.00100  | <0.00200           | <0.00100    | <0.00100  | <0.00100        |
| 12/21/2023                       | Not Sampled (Semi-Annual Schedule) |                                                 |                 |           |                    |             |           |                 |
| TMW-1                            | 10/01/2018                         | Plugged & Abandoned                             |                 |           |                    |             |           |                 |
| TMW-1R                           | 03/16/2022                         | Not Sampled Due to Phase Separated Hydrocarbons |                 |           |                    |             |           |                 |
|                                  | 06/15/2022                         |                                                 |                 |           |                    |             |           |                 |
|                                  | 09/28/2022                         |                                                 |                 |           |                    |             |           |                 |
|                                  | 02/21/2023                         |                                                 |                 |           |                    |             |           |                 |
|                                  | 03/28/2023                         |                                                 |                 |           |                    |             |           |                 |
|                                  | 06/28/2023                         |                                                 |                 |           |                    |             |           |                 |
|                                  | 09/21/2023                         |                                                 |                 |           |                    |             |           |                 |
| 12/21/2023                       |                                    |                                                 |                 |           |                    |             |           |                 |

**Notes:**

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

2. NMOCD: New Mexico Oil Conservation Division

3. RRAL Criteria: Recommended Remediation Action Level Criteria

4. NE: Not Established

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

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

**Table 3**  
**MW-1 BTEX<sup>1</sup> & PSH<sup>2</sup> Thickness & Recovery Summary**

**Livingston Ridge to Hugh - P. Sims**  
**Lea County, New Mexico**  
**Plains SRS #: 2001-11005**  
**Etech Project #: 17476**  
**NMOCD<sup>3</sup> Incident ID #: nAPP2109740065**

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

| All elevations are measured in feet above mean sea level. |            |                                             |                               |                                 |                      |                                |                         |
|-----------------------------------------------------------|------------|---------------------------------------------|-------------------------------|---------------------------------|----------------------|--------------------------------|-------------------------|
| Monitoring Well                                           | Date       | Top of Casing (TOC) <sup>4</sup> Elevation* | Depth to PSH Below TOC (feet) | Depth to Water Below TOC (feet) | PSH Thickness (feet) | Total Fluid Recovery (Gallons) | PSH Recovered (Gallons) |
| MW-1                                                      | 02/17/2023 | 3,374.23                                    | 40.83                         | 41.68                           | 0.85                 | 5.00                           | 0.56                    |
|                                                           | 03/28/2023 |                                             | 40.78                         | 42.77                           | 1.99                 | -                              | -                       |
|                                                           | 05/25/2023 |                                             | 40.76                         | 42.80                           | 2.04                 | 5.00                           | 1.33                    |
|                                                           | 06/28/2023 |                                             | 40.76                         | 42.89                           | 2.13                 |                                |                         |
|                                                           | 08/23/2023 |                                             | -                             | -                               | -                    | 5.00                           | 1.10                    |
|                                                           | 12/21/2023 |                                             | 41.69                         | 42.93                           | 1.24                 | -                              | -                       |
| 2023 Average PSH Thickness & Recovery Totals              |            |                                             |                               |                                 | 1.65                 | 15.0                           | 2.99                    |

**Notes:**

1. BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes
  2. PSH = Phase Separated Hydrocarbons
  3. NMOCD = New Mexico Oil Conservation Division
  4. TOC = Top Of Casing
- \* Elevations based on the North American Vertical Datum of 1988.



**Table 4**  
**MW-4 BTEX<sup>1</sup> & PSH<sup>2</sup> Thickness & Recovery Summary**

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

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

| Monitoring Well                              | Date       | Top of Casing (TOC) <sup>3</sup> Elevation* | DEPTH TO PRODUCT (Feet) | Depth to Water (Feet) | PSH THICKNESS (Feet) | Groundwater Recovered (gallons) | PSH Recovered |
|----------------------------------------------|------------|---------------------------------------------|-------------------------|-----------------------|----------------------|---------------------------------|---------------|
| MW-4                                         | 01/25/2022 | 3,372.73                                    | 38.68                   | 39.28                 | 0.60                 | 5.00                            | 0.10          |
|                                              | 02/23/2022 |                                             | 37.65                   | 38.55                 | 0.90                 | 5.00                            | 0.15          |
|                                              | 03/29/2022 |                                             | 38.64                   | 39.42                 | 0.78                 | 5.00                            | 0.13          |
|                                              | 04/27/2022 |                                             | 38.72                   | 39.39                 | 0.67                 | 5.00                            | 0.11          |
|                                              | 08/31/2022 |                                             | 39.61                   | 40.78                 | 1.17                 | 5.00                            | 0.19          |
|                                              | 10/19/2022 |                                             | 39.65                   | 40.43                 | 0.78                 | 5.00                            | 0.13          |
|                                              | 02/17/2023 |                                             | 39.23                   | 40.21                 | 0.98                 | 5.00                            | 0.16          |
|                                              | 03/10/2023 |                                             | 39.25                   | 40.25                 | 1.00                 | 5.00                            | 0.16          |
|                                              | 03/28/2023 |                                             | 39.23                   | 40.26                 | 1.03                 | -                               | -             |
|                                              | 05/12/2023 |                                             | 39.21                   | 40.26                 | 1.05                 | 5.00                            | 0.17          |
|                                              | 05/16/2023 |                                             | 39.20                   | 40.27                 | 1.07                 | 5.00                            | 0.17          |
|                                              | 05/25/2023 |                                             | 39.46                   | 40.26                 | 0.80                 | 5.00                            | 0.13          |
|                                              | 06/28/2023 |                                             | 39.49                   | 40.29                 | 0.80                 | -                               | -             |
|                                              | 08/23/2023 |                                             | -                       | -                     | -                    | 5.00                            | 0.11          |
|                                              | 12/21/2023 |                                             | 40.12                   | 40.70                 | 0.58                 | -                               | -             |
| 2023 Average PSH Thickness & Recovery Totals |            |                                             |                         |                       | 0.91                 | 30.0                            | 0.91          |

**Notes:**

1. BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes
  2. PSH = Phase Separated Hydrocarbons
  3. NMOCD = New Mexico Oil Conservation Division
  4. TOC = Top Of Casing
- \* Elevations based on the North American Vertical Datum of 1988.

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

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

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

| Monitoring Well                      | Date       | Top of Casing (TOC) <sup>3</sup> Elevation* | Groundwater Recovered (gallons) |
|--------------------------------------|------------|---------------------------------------------|---------------------------------|
| MW-5                                 | 01/25/2022 | 3,370.92                                    | 3.00                            |
|                                      | 02/23/2022 |                                             | 2.50                            |
|                                      | 03/29/2022 |                                             | 2.00                            |
|                                      | 04/27/2022 |                                             | 0.00                            |
|                                      | 08/31/2022 |                                             | 1.00                            |
|                                      | 10/19/2022 |                                             | 2.00                            |
|                                      | 11/22/2022 |                                             | 5.00                            |
|                                      | 02/17/2023 |                                             | 6.00                            |
|                                      | 03/10/2023 |                                             | 1.50                            |
|                                      | 03/28/2023 |                                             | 1.00                            |
|                                      | 05/12/2023 |                                             | 1.50                            |
|                                      | 05/16/2023 |                                             | 2.00                            |
|                                      | 05/25/2023 |                                             | 2.00                            |
|                                      | 06/28/2023 |                                             | 3.72                            |
|                                      | 09/21/2023 |                                             | 5.00                            |
| 12/21/2023                           | 1.13       |                                             |                                 |
| 2023 Total GW <sup>4</sup> Recovered |            |                                             | 23.8                            |

**Notes:**

1. BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes
  2. NMOCD = New Mexico Oil Conservation Division
  3. TOC = Top Of Casing
  4. GW: Groundwater
- \* Elevations based on the North American Vertical Datum of 1988.



**Table 6**  
**MW-12 Gauging & BTEX<sup>1</sup> Impacted Groundwater**  
**Recovery Summary**

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

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

| Monitoring Well                      | Date       | Top of Casing (TOC) <sup>3</sup> Elevation* | Groundwater Recovered (gallons) |
|--------------------------------------|------------|---------------------------------------------|---------------------------------|
| MW-12                                | 01/25/2022 | 3,372.41                                    | 5.00                            |
|                                      | 02/23/2022 |                                             | 5.00                            |
|                                      | 03/29/2022 |                                             | 5.00                            |
|                                      | 08/31/2022 |                                             | 5.00                            |
|                                      | 10/19/2022 |                                             | 5.00                            |
|                                      | 11/22/2022 |                                             | 5.00                            |
|                                      | 02/17/2023 |                                             | 5.00                            |
|                                      | 03/10/2023 |                                             | 5.00                            |
|                                      | 03/28/2023 |                                             | 5.00                            |
|                                      | 05/16/2023 |                                             | 5.00                            |
|                                      | 05/25/2023 |                                             | 5.00                            |
|                                      | 06/28/2023 |                                             | 4.65                            |
|                                      | 09/21/2023 |                                             | 5.00                            |
|                                      | 12/21/2023 |                                             | 4.72                            |
| 2023 Total GW <sup>4</sup> Recovered |            |                                             | 39.4                            |

**Notes:**

1. BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes
  2. NMOCD = New Mexico Oil Conservation Division
  3. TOC = Top Of Casing
  4. GW: Groundwater
- \* Elevations based on the North American Vertical Datum of 1988.

**Table 7**  
**TMW-1R BTEX<sup>1</sup> & PSH<sup>2</sup> Thickness & Recovery Summary**

**Livingston Ridge to Hugh - P. Sims**  
**Lea County, New Mexico**  
**Plains SRS #: 2001-11005**  
**Etech Project #: 17476**  
**NMOCD<sup>3</sup> Incident ID #: nAPP2109740065**

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

| All elevations are measured in feet above mean sea level. |            |                                             |                               |                                 |                      |                                |                         |
|-----------------------------------------------------------|------------|---------------------------------------------|-------------------------------|---------------------------------|----------------------|--------------------------------|-------------------------|
| Monitoring Well                                           | Date       | Top of Casing (TOC) <sup>4</sup> Elevation* | Depth to PSH Below TOC (feet) | Depth to Water Below TOC (feet) | PSH Thickness (feet) | Total Fluid Recovery (Gallons) | PSH Recovered (Gallons) |
| TMW-1R                                                    | 01/25/2022 | 3,431.82                                    | 38.17                         | 38.41                           | 0.24                 | 5.00                           | 0.16                    |
|                                                           | 02/11/2022 |                                             | 38.19                         | 38.54                           | 0.35                 | 1,260                          | 0.23                    |
|                                                           | 02/23/2022 |                                             | 38.18                         | 38.33                           | 0.15                 | 5.00                           | 0.10                    |
|                                                           | 03/29/2022 |                                             | 38.64                         | 39.42                           | 0.78                 | 5.00                           | 0.51                    |
|                                                           | 04/27/2022 |                                             | 38.13                         | 38.59                           | 0.46                 | 5.00                           | 0.30                    |
|                                                           | 08/31/2022 |                                             | 39.00                         | 40.35                           | 1.35                 | 5.00                           | 0.88                    |
|                                                           | 10/19/2022 |                                             | 39.14                         | 39.49                           | 0.35                 | 5.00                           | 0.23                    |
|                                                           | 11/22/2022 |                                             | 38.94                         | 39.67                           | 0.73                 | 5.00                           | 0.48                    |
|                                                           | 02/17/2023 |                                             | 38.66                         | 39.41                           | 0.75                 | 5.00                           | 0.49                    |
|                                                           | 03/10/2023 |                                             | 39.20                         | 40.46                           | 1.26                 | 5.00                           | 0.82                    |
|                                                           | 03/28/2023 |                                             | 38.63                         | 39.47                           | 0.84                 | -                              | -                       |
|                                                           | 05/16/2023 |                                             | 38.65                         | 39.99                           | 1.34                 | 5.00                           | 0.88                    |
|                                                           | 05/25/2023 |                                             | 38.80                         | 40.48                           | 1.68                 | 5.00                           | 1.10                    |
|                                                           | 06/28/2023 |                                             | 38.82                         | 40.5                            | 1.68                 | -                              | -                       |
|                                                           | 08/23/2023 |                                             | -                             | -                               | -                    | 5.00                           | 1.13                    |
|                                                           | 12/21/2023 |                                             | 39.46                         | 41.24                           | 1.78                 | -                              | -                       |
| 2023 Average PSH Thickness & Recovery Totals              |            |                                             |                               |                                 | 1.33                 | 25.0                           | 4.41                    |

**Notes:**

1. BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes
  2. PSH = Phase Separated Hydrocarbons
  3. NMOCD = New Mexico Oil Conservation Division
  4. TOC = Top Of Casing
- \* Elevations based on the North American Vertical Datum of 1988.



**Table 8**  
**Concentrations of PAH<sup>1</sup> in Groundwater Summary**

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

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

| Monitoring Well                          | Date Sampled                                                    | EPA SW846-8270C, 3510               |                |                 |                |             |                    |                      |                      |                      |             |                       |              |              |             |                         |              |             |
|------------------------------------------|-----------------------------------------------------------------|-------------------------------------|----------------|-----------------|----------------|-------------|--------------------|----------------------|----------------------|----------------------|-------------|-----------------------|--------------|--------------|-------------|-------------------------|--------------|-------------|
|                                          |                                                                 | Naphthalene                         | Benzo(a)pyrene | Acenaphthene    | Acenaphthylene | Anthracene  | Benzo(a)anthracene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene    | Dibenz(a,h)anthracene | Dibenzofuran | Fluoranthene | Fluorene    | Indeno(1,2,3-c,d)Pyrene | Phenanthrene | Pyrene      |
| NMWQCC Groundwater Criteria <sup>3</sup> |                                                                 | 0.03                                | 0.0007         | NE <sup>4</sup> |                |             |                    |                      |                      |                      |             |                       |              |              |             |                         |              |             |
| MW-1                                     | 2/16/2006                                                       | 0.0000136                           | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | NA                    | <0.00005     | 0.00229      | <0.00005    | 0.00399                 | <0.00005     |             |
|                                          | 5/11/2007                                                       | 0.017                               | <0.001         | <0.001          | <0.001         | <0.001      | <0.001             | <0.001               | N/A                  | <0.001               | <0.001      | NA                    | <0.001       | 0.001        | <0.001      | 0.012                   | <0.001       |             |
|                                          | 2/29/2008                                                       | <0.005                              | <0.005         | <0.005          | <0.005         | <0.005      | <0.005             | <0.005               | N/A                  | <0.005               | <0.005      | NA                    | <0.005       | <0.005       | <0.005      | <0.005                  | <0.005       |             |
|                                          | 11/7/2012                                                       | <b>0.0438</b>                       | <0.002         | <0.002          | <0.002         | <0.002      | <0.002             | <0.002               | <0.002               | <0.002               | <0.002      | NA                    | <0.002       | <0.002       | <0.002      | 0.0180                  | <0.002       |             |
|                                          | 9/19/2013                                                       | 0.00592                             | <0.0000500     | 0.000128        | <0.0000500     | 0.000162    | <0.0000500         | <0.0000500           | <0.0000500           | <0.0000500           | <0.0000500  | NA                    | <0.0000500   | 0.000736     | <0.0000500  | 0.000649                | <0.0000500   |             |
|                                          | 10/4/2014                                                       | <0.0000149                          | <0.0000066     | <0.00000495     | <0.00000236    | <0.00000407 | <0.00000527        | <0.00000998          | <0.00000796          | <0.00000583          | <0.00000427 | <0.00000580           | 0.000332     | <0.00000633  | <0.00000633 | <0.00000750             | 0.000148     | <0.00000691 |
|                                          | 12/22/2020                                                      | 0.000315 J                          | <0.0000585     | <0.000103       | <0.0000864     | <0.0000888  | <0.000138          | <0.0000729           | <0.000116            | <0.000119            | <0.000160   | <0.0000780            | N/A          | <0.000161    | <0.000103   | <0.0000937              | <0.0000872   | <0.000134   |
| MW-2                                     | 6/18/2003                                                       | <0.00005                            | <0.00005       | 0.000118        | 0.000061       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | NA                    | 0.000056     | 0.000078     | <0.00005    | <0.00005                | 0.000121     |             |
|                                          | 3/22/2005                                                       | <0.00005                            | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | NA                    | <0.00005     | <0.00005     | <0.00005    | <0.00005                | <0.00005     |             |
|                                          | 2/16/2006                                                       | <0.00005                            | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | NA                    | <0.00005     | <0.00005     | <0.00005    | <0.00005                | <0.00005     |             |
|                                          | 5/11/2007                                                       | <0.001                              | <0.001         | <0.001          | <0.001         | <0.001      | <0.001             | <0.001               | <0.001               | NA                   | <0.001      | <0.001                | NA           | <0.001       | <0.001      | <0.001                  | <0.001       |             |
|                                          | 2/29/2008                                                       | <0.005                              | <0.005         | <0.005          | <0.005         | <0.005      | <0.005             | <0.005               | <0.005               | NA                   | <0.005      | <0.005                | NA           | <0.005       | <0.005      | <0.005                  | <0.005       |             |
|                                          | 11/7/2012                                                       | <0.002                              | <0.002         | <0.002          | <0.002         | <0.002      | <0.002             | <0.002               | <0.002               | <0.002               | <0.002      | <0.002                | NA           | <0.002       | <0.002      | <0.002                  | <0.002       |             |
|                                          | 9/19/2013                                                       | 0.00056                             | <0.0000513     | <0.0000513      | <0.0000513     | <0.0000513  | <0.0000513         | <0.0000513           | <0.0000513           | <0.0000513           | <0.0000513  | NA                    | <0.0000513   | 0.000115     | <0.0000513  | 0.000174                | <0.0000513   |             |
|                                          | 10/4/2014                                                       | Not Sampled Due to Sample Reduction |                |                 |                |             |                    |                      |                      |                      |             |                       |              |              |             |                         |              |             |
| MW-3                                     | 6/18/2003                                                       | <0.00005                            | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | NA                    | <0.00005     | <0.00005     | <0.00005    | <0.00005                | <0.00005     |             |
|                                          | 2/16/2006                                                       | <0.00005                            | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | NA                    | <0.00005     | <0.00005     | <0.00005    | <0.00005                | <0.00005     |             |
|                                          | 5/11/2007                                                       | <0.001                              | <0.001         | <0.001          | <0.001         | <0.001      | <0.001             | <0.001               | <0.001               | NA                   | <0.001      | <0.001                | NA           | <0.001       | <0.001      | <0.001                  | <0.001       |             |
|                                          | 2/29/2008                                                       | <0.005                              | <0.005         | <0.005          | <0.005         | <0.005      | <0.005             | <0.005               | <0.005               | NA                   | <0.005      | <0.005                | NA           | <0.005       | <0.005      | <0.005                  | <0.005       |             |
|                                          | 9/19/2013                                                       | Dry - Not Sampled                   |                |                 |                |             |                    |                      |                      |                      |             |                       |              |              |             |                         |              |             |
| MW-4                                     | Not Sampled due to the presence of phase separated hydrocarbons |                                     |                |                 |                |             |                    |                      |                      |                      |             |                       |              |              |             |                         |              |             |
|                                          | 6/18/2003                                                       | 0.000167                            | <0.00005       | 0.000156        | <0.00005       | 0.000144    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | NA                    | <0.00005     | 0.000498     | <0.00005    | 0.000891                | <0.00005     |             |
|                                          | 11/2/2004                                                       | 0.0025                              | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | NA                    | <0.00005     | 0.0002       | <0.00005    | 0.000227                | <0.00005     |             |
|                                          | 2/16/2006                                                       | <b>0.00492</b>                      | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | 0.000068    | <0.00005              | NA           | <0.00005     | 0.000251    | <0.00005                | 0.000312     | <0.00005    |
|                                          | 5/11/2007                                                       | <b>0.034</b>                        | <0.001         | <0.001          | <0.001         | <0.001      | <0.001             | <0.001               | <0.001               | NA                   | <0.001      | <0.001                | NA           | <0.001       | 0.001       | <0.001                  | 0.006        | <0.001      |
|                                          | 2/29/2008                                                       | <0.005                              | <0.005         | <0.005          | <0.005         | <0.005      | <0.005             | <0.005               | <0.005               | NA                   | <0.005      | <0.005                | NA           | <0.005       | <0.005      | <0.005                  | <0.005       | <0.005      |
|                                          | 9/19/2013                                                       | <0.0000513                          | <0.0000513     | <0.0000513      | <0.0000513     | <0.0000513  | <0.0000513         | <0.0000513           | <0.0000513           | <0.0000513           | <0.0000513  | NA                    | <0.0000513   | <0.0000513   | <0.0000513  | <0.0000513              | <0.0000513   |             |
|                                          | 10/4/2014                                                       | <0.0000149                          | <0.0000066     | <0.00000495     | <0.00000236    | <0.00000407 | <0.00000527        | <0.00000998          | <0.00000796          | <0.00000583          | <0.00000427 | <0.00000580           | 0.000114     | <0.00000633  | <0.00000633 | <0.00000750             | 0.0000614    | <0.00000691 |
| 12/23/2020                               | 0.00501                                                         | <0.0000577                          | <0.000101      | <0.0000851      | <0.0000876     | <0.000136   | <0.0000719         | <0.000114            | <0.000117            | <0.000158            | <0.0000768  | N/A                   | <0.000159    | 0.000247     | <0.0000923  | <0.0000860              | <0.000132    |             |

**Notes:**

1. PAH: Polycyclic Aromatic Hydrocarbons

2. NMOCD: New Mexico Oil Conservation Division

3. NMWQCC: New Mexico Water Quality Control Commission

4. NE: Not Established

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

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

**Table 8**  
**Concentrations of PAH<sup>1</sup> in Groundwater Summary**

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

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

| Monitoring Well                          | Date Sampled | EPA SW846-8270C, 3510 |                |                 |                |             |                    |                      |                      |                      |             |                       |              |              |            |                         |              |             |
|------------------------------------------|--------------|-----------------------|----------------|-----------------|----------------|-------------|--------------------|----------------------|----------------------|----------------------|-------------|-----------------------|--------------|--------------|------------|-------------------------|--------------|-------------|
|                                          |              | Naphthalene           | Benzo(a)pyrene | Acenaphthene    | Acenaphthylene | Anthracene  | Benzo(a)anthracene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene    | Dibenz(a,h)anthracene | Dibenzofuran | Fluoranthene | Fluorene   | Indeno(1,2,3-c,d)Pyrene | Phenanthrene | Pyrene      |
| NMWQCC Groundwater Criteria <sup>3</sup> |              | 0.03                  | 0.0007         | NE <sup>4</sup> |                |             |                    |                      |                      |                      |             |                       |              |              |            |                         |              |             |
| MW-5                                     | 6/18/2003    | 0.0403                | 0.000249       | 0.000732        | 0.000507       | 0.000856    | 0.000459           | 0.000129             | <0.00005             | 0.00007              | 0.000328    | <0.00005              | NA           | 0.000087     | 0.00268    | <0.00005                | <0.00005     | 0.000284    |
|                                          | 8/24/2004    | 0.00768               | <0.00005       | 0.000092        | <0.00005       | 0.00007     | <0.00005           | <0.00005             | <0.00005             | 0.00006              | 0.000114    | <0.00005              | NA           | <0.00005     | 0.000419   | <0.00005                | 0.000898     | <0.00005    |
|                                          | 2/16/2006    | 0.00136               | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | 0.000115    | <0.00005              | NA           | <0.00005     | 0.000306   | <0.00005                | 0.000427     | <0.00005    |
|                                          | 5/11/2007    | 0.019                 | <0.001         | <0.001          | <0.001         | <0.001      | <0.001             | <0.001               | <0.001               | NA                   | <0.001      | <0.001                | NA           | <0.001       | 0.606      | <0.001                  | <0.001       | <0.001      |
|                                          | 2/29/2008    | 0.031                 | <0.005         | <0.005          | <0.005         | <0.005      | <0.005             | <0.005               | <0.005               | NA                   | <0.005      | <0.005                | NA           | <0.005       | <0.005     | <0.005                  | <0.005       | <0.005      |
|                                          | 12/30/2011   | <0.005                | <0.005         | <0.005          | <0.005         | <0.005      | <0.005             | <0.005               | <0.005               | NA                   | <0.005      | <0.005                | NA           | <0.005       | <0.005     | <0.005                  | <0.005       | <0.005      |
|                                          | 11/7/2012    | 0.0448                | <0.002         | <0.002          | <0.002         | <0.002      | <0.002             | <0.002               | <0.002               | <0.002               | <0.002      | <0.002                | NA           | <0.002       | <0.002     | <0.002                  | 0.0161       | <0.002      |
|                                          | 9/19/2013    | 0.0405                | <0.000256      | 0.00028         | <0.000256      | 0.000397    | 0.000377           | <0.000256            | <0.000256            | <0.000256            | <0.000256   | <0.000256             | NA           | <0.000256    | 0.00213    | <0.000256               | 0.00374      | <0.000256   |
|                                          | 10/4/2014    | 0.00741               | <0.00000667    | <0.000005       | <0.00000238    | <0.00000411 | <0.00000533        | <0.0000101           | <0.0000804           | <0.00000588          | <0.00000431 | <0.00000586           | 0.00071      | <0.00000639  | 0.000301   | <0.00000757             | 0.00019      | <0.00000698 |
|                                          | 10/19/2015   | <0.000968             | <0.000395      | <0.000968       | <0.000736      | <0.000977   | <0.000371          | <0.000463            | <0.000353            | <0.000579            | <0.000386   | <0.00041              | NA           | <0.000505    | <0.000997  | <0.000371               | <0.000804    | <0.000463   |
|                                          | 11/15/2019   | 0.00193               | <0.000109      | <0.000109       | <0.000109      | <0.000109   | <0.000109          | <0.000109            | <0.000109            | <0.000109            | <0.000109   | <0.000109             | 0.00126      | <0.000109    | 0.000421   | <0.000109               | 0.000227     | <0.000109   |
|                                          | 12/22/2020   | 0.000292 J            | <0.0000575     | <0.000101       | <0.0000849     | <0.0000873  | <0.000136          | <0.0000717           | <0.000114            | <0.000117            | <0.000157   | <0.0000766            | N/A          | <0.000158    | 0.000286   | <0.0000921              | <0.0000857   | <0.000131   |
|                                          | 3/17/2022    | 0.000472              | <0.0000569     | <0.0000996      | <0.0000839     | <0.0000897  | <0.000134          | <0.0000697           | <0.000113            | <0.000116            | <0.000155   | <0.0000757            | 0.00188      | <0.000156    | <0.000101  | <0.0000910              | <0.0000847   | <0.000130   |
| MW-6                                     | 6/18/2003    | <0.00005              | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005    |
|                                          | 11/2/2004    | <0.00005              | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005    |
|                                          | 2/16/2006    | <0.00005              | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | <0.00005              | NA           | <0.00005     | 0.000126   | <0.00005                | 0.000063     | <0.00005    |
|                                          | 5/11/2007    | <0.001                | <0.001         | <0.001          | <0.001         | <0.001      | <0.001             | <0.001               | <0.001               | NA                   | <0.001      | <0.001                | NA           | <0.001       | <0.001     | <0.001                  | 0.001        | <0.001      |
|                                          | 2/29/2008    | <0.005                | <0.005         | <0.005          | <0.005         | <0.005      | <0.005             | <0.005               | <0.005               | NA                   | <0.005      | <0.005                | NA           | <0.005       | <0.005     | <0.005                  | <0.005       | <0.005      |
|                                          | 9/19/2013    | <0.0000508            | <0.0000508     | <0.0000508      | <0.0000508     | <0.0000508  | <0.0000508         | <0.0000508           | <0.0000508           | <0.0000508           | <0.0000508  | <0.0000508            | NA           | <0.0000508   | <0.0000508 | <0.0000508              | <0.0000508   | <0.0000508  |
|                                          | 12/22/2020   | <0.0000997            | <0.0000585     | <0.000103       | <0.0000864     | <0.0000888  | <0.000138          | <0.0000729           | <0.000116            | <0.000119            | <0.000160   | <0.0000780            | N/A          | <0.000161    | <0.000103  | <0.0000937              | <0.0000872   | <0.000134   |
| MW-7                                     | 6/18/2003    | <0.00005              | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005    |
|                                          | 2/16/2006    | <0.00005              | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005    |
|                                          | 5/11/2007    | <0.001                | <0.001         | <0.001          | <0.001         | <0.001      | <0.001             | <0.001               | <0.001               | NA                   | <0.001      | <0.001                | NA           | <0.001       | <0.001     | <0.001                  | <0.001       | <0.001      |
|                                          | 2/29/2008    | <0.005                | <0.005         | <0.005          | <0.005         | <0.005      | <0.005             | <0.005               | <0.005               | NA                   | <0.005      | <0.005                | NA           | <0.005       | <0.005     | <0.005                  | <0.005       | <0.005      |
|                                          | 9/19/2013    | <0.0000500            | <0.0000500     | <0.0000500      | <0.0000500     | <0.0000500  | <0.0000500         | <0.0000500           | <0.0000500           | <0.0000500           | <0.0000500  | <0.0000500            | NA           | <0.0000500   | <0.0000500 | <0.0000500              | <0.0000500   | <0.0000500  |
| MW-8                                     | 6/18/2003    | <0.00005              | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005    |
|                                          | 2/16/2006    | <0.00005              | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005    |
|                                          | 5/11/2007    | <0.001                | <0.001         | <0.001          | <0.001         | <0.001      | <0.001             | <0.001               | <0.001               | NA                   | <0.001      | <0.001                | NA           | <0.001       | <0.001     | <0.001                  | <0.001       | <0.001      |
|                                          | 2/29/2008    | <0.005                | <0.005         | <0.005          | <0.005         | <0.005      | <0.005             | <0.005               | <0.005               | NA                   | <0.005      | <0.005                | NA           | <0.005       | <0.005     | <0.005                  | <0.005       | <0.005      |
|                                          | 9/19/2013    | <0.00005              | <0.00005       | <0.00005        | <0.00005       | <0.00005    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005    | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005    |

**Notes:**

1. PAH: Polycyclic Aromatic Hydrocarbons

2. NMOCD: New Mexico Oil Conservation Division

3. NMWQCC: New Mexico Water Quality Control Commission

4. NE: Not Established

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

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

**Table 8**  
**Concentrations of PAH<sup>1</sup> in Groundwater Summary**

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

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

| Monitoring Well                          | Date Sampled | EPA SW846-8270C, 3510 |                |                 |                |            |                    |                      |                      |                      |            |                       |              |              |            |                         |              |            |
|------------------------------------------|--------------|-----------------------|----------------|-----------------|----------------|------------|--------------------|----------------------|----------------------|----------------------|------------|-----------------------|--------------|--------------|------------|-------------------------|--------------|------------|
|                                          |              | Naphthalene           | Benzo(a)pyrene | Acenaphthene    | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene   | Dibenz(a,h)anthracene | Dibenzofuran | Fluoranthene | Fluorene   | Indeno(1,2,3-c,d)Pyrene | Phenanthrene | Pyrene     |
| NMWQCC Groundwater Criteria <sup>3</sup> |              | 0.03                  | 0.0007         | NE <sup>4</sup> |                |            |                    |                      |                      |                      |            |                       |              |              |            |                         |              |            |
| MW-9                                     | 6/18/2003    | <0.00005              | <0.00005       | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005   |
|                                          | 3/22/2005    | 0.000544              | <0.00005       | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | <0.00005              | NA           | <0.00005     | 0.000084   | <0.00005                | 0.000058     | <0.00005   |
|                                          | 2/16/2006    | <0.00005              | <0.00005       | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005   |
|                                          | 5/11/2007    | <0.001                | <0.001         | <0.001          | <0.001         | <0.001     | <0.001             | <0.001               | <0.001               | NA                   | <0.001     | <0.001                | NA           | <0.001       | <0.001     | <0.001                  | <0.001       | <0.001     |
|                                          | 2/29/2008    | <0.005                | <0.005         | <0.005          | <0.005         | <0.005     | <0.005             | <0.005               | <0.005               | NA                   | <0.005     | <0.005                | NA           | <0.005       | <0.005     | <0.005                  | <0.005       | <0.005     |
|                                          | 9/19/2013    | <0.0000513            | <0.0000513     | 0.000052        | <0.0000513     | <0.0000513 | <0.0000513         | <0.0000513           | <0.0000513           | <0.0000513           | <0.0000513 | <0.0000513            | NA           | <0.0000513   | <0.0000513 | <0.0000513              | <0.0000513   | <0.0000513 |
|                                          | 12/22/2020   | <0.0000974            | <0.0000571     | <0.000100       | <0.0000843     | <0.0000867 | <0.000135          | <0.0000712           | <0.000113            | <0.000116            | <0.000156  | <0.0000761            | N/A          | <0.000157    | <0.000101  | <0.0000914              | <0.0000852   | <0.000130  |
| MW-10                                    | 6/18/2003    | <0.00005              | <0.00005       | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | NA                    | <0.00005     | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005   |
|                                          | 2/16/2006    | <0.00005              | <0.00005       | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | NA                    | <0.00005     | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005   |
|                                          | 5/11/2007    | <0.001                | <0.001         | <0.001          | <0.001         | <0.001     | <0.001             | <0.001               | <0.001               | NA                   | <0.001     | <0.001                | NA           | <0.001       | <0.001     | <0.001                  | <0.001       | <0.001     |
|                                          | 2/29/2008    | <0.005                | <0.005         | <0.005          | <0.005         | <0.005     | <0.005             | <0.005               | <0.005               | NA                   | <0.005     | <0.005                | NA           | <0.005       | <0.005     | <0.005                  | <0.005       | <0.005     |
|                                          | 9/19/2019    | <0.0000508            | <0.0000508     | <0.0000508      | <0.0000508     | <0.0000508 | <0.0000508         | <0.0000508           | <0.0000508           | <0.0000508           | <0.0000508 | <0.0000508            | NA           | <0.0000508   | <0.0000508 | <0.0000508              | 0.0000852    | <0.0000508 |
| MW-11                                    | 11/6/2002    | <0.00005              | <0.00005       | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | NA                    | <0.00005     | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005   |
|                                          | 8/18/2004    | 0.0014                | <0.00005       | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | NA                    | <0.00005     | 0.000075     | <0.00005   | 0.000154                | <0.00005     | <0.00005   |
|                                          | 3/22/2005    | 0.00167               | <0.00005       | 0.000068        | <0.00005       | 0.000055   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | NA                    | <0.00005     | 0.00008      | <0.00005   | 0.000296                | <0.00005     | <0.00005   |
|                                          | 2/16/2006    | <0.00005              | <0.00005       | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | NA                    | <0.00005     | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005   |
|                                          | 5/11/2007    | <0.001                | <0.001         | <0.001          | <0.001         | <0.001     | <0.001             | <0.001               | <0.001               | NA                   | <0.001     | <0.001                | NA           | <0.001       | <0.001     | <0.001                  | <0.001       | <0.001     |
|                                          | 2/29/2008    | <0.005                | <0.005         | <0.005          | <0.005         | <0.005     | <0.005             | <0.005               | <0.005               | NA                   | <0.005     | <0.005                | NA           | <0.005       | <0.005     | <0.005                  | <0.005       | <0.005     |
|                                          | 9/19/2013    | <0.0000500            | <0.0000500     | <0.0000500      | <0.0000500     | <0.0000500 | <0.0000500         | <0.0000500           | <0.0000500           | <0.0000500           | <0.0000500 | <0.0000500            | NA           | <0.0000500   | <0.0000500 | <0.0000500              | <0.0000500   | <0.0000500 |
|                                          | 12/23/2020   | <0.0000500            | <0.0000500     | <0.0000500      | <0.0000500     | <0.0000500 | <0.0000500         | <0.0000500           | <0.0000500           | <0.0000500           | <0.0000500 | <0.0000500            | NA           | <0.0000500   | <0.0000500 | <0.0000500              | <0.0000500   | <0.0000500 |
| MW-12                                    | 11/6/2002    | 0.000198              | <0.00005       | 0.00007         | 0.000096       | 0.000151   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | NA                    | <0.00005     | 0.000662     | <0.00005   | 0.000722                | 0.000071     |            |
|                                          | 8/18/2004    | 0.000262              | <0.00005       | 0.000079        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | NA                    | <0.00005     | 0.000078     | <0.00005   | 0.000246                | <0.00005     |            |
|                                          | 3/22/2005    | 0.000107              | <0.00005       | 0.0011          | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | NA                    | <0.00005     | 0.000166     | <0.00005   | 0.000285                | <0.00005     |            |
|                                          | 2/16/2006    | <0.00005              | <0.00005       | 0.000055        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | NA                    | <0.00005     | 0.000053     | <0.00005   | 0.000174                | <0.00005     |            |
|                                          | 5/11/2007    | <0.001                | <0.001         | <0.001          | <0.001         | <0.001     | <0.001             | <0.001               | <0.001               | NA                   | <0.001     | <0.001                | NA           | <0.001       | <0.001     | <0.001                  | <0.001       |            |
|                                          | 2/29/2008    | <0.005                | <0.005         | <0.005          | <0.005         | <0.005     | <0.005             | <0.005               | <0.005               | NA                   | <0.005     | <0.005                | NA           | <0.005       | <0.005     | <0.005                  | <0.005       | <0.005     |
|                                          | 9/19/2013    | <0.0000500            | <0.0000500     | <0.0000500      | <0.0000500     | <0.0000500 | <0.0000500         | <0.0000500           | <0.0000500           | <0.0000500           | <0.0000500 | <0.0000500            | NA           | <0.0000500   | <0.0000500 | <0.0000500              | <0.0000500   | <0.0000500 |
|                                          | 11/15/2019   | 0.00210               | <0.0000585     | <0.000103       | <0.0000864     | <0.0000888 | <0.000138          | <0.0000729           | <0.000116            | <0.000119            | <0.000160  | <0.0000780            | N/A          | <0.000161    | <0.000103  | <0.0000937              | <0.0000872   | <0.000134  |
|                                          | 12/23/2020   | 0.00210               | <0.0000585     | <0.000103       | <0.0000864     | <0.0000888 | <0.000138          | <0.0000729           | <0.000116            | <0.000119            | <0.000160  | <0.0000780            | N/A          | <0.000161    | <0.000103  | <0.0000937              | <0.0000872   | <0.000134  |
|                                          | 3/17/2022    | <0.0000962            | <0.0000565     | <0.0000989      | <0.0000833     | <0.0000890 | <0.000133          | <0.0000692           | <0.000112            | <0.000115            | <0.000154  | <0.0000752            | <0.0000989   | <0.000155    | <0.0000999 | <0.0000903              | <0.0000841   | <0.000129  |

**Notes:**

1. PAH: Polycyclic Aromatic Hydrocarbons

2. NMOCD: New Mexico Oil Conservation Division

3. NMWQCC: New Mexico Water Quality Control Commission

4. NE: Not Established

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

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



**Table 8**  
**Concentrations of PAH<sup>1</sup> in Groundwater Summary**

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

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

| Monitoring Well                          | Date Sampled | EPA SW846-8270C, 3510 |                        |                 |                |            |                    |                      |                      |                      |            |                       |              |              |            |                         |              |            |  |
|------------------------------------------|--------------|-----------------------|------------------------|-----------------|----------------|------------|--------------------|----------------------|----------------------|----------------------|------------|-----------------------|--------------|--------------|------------|-------------------------|--------------|------------|--|
|                                          |              | Naphthalene           | Benzo(a)pyrene         | Acenaphthene    | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene   | Dibenz(a,h)anthracene | Dibenzofuran | Fluoranthene | Fluorene   | Indeno(1,2,3-c,d)Pyrene | Phenanthrene | Pyrene     |  |
| NMWQCC Groundwater Criteria <sup>3</sup> |              | 0.03                  | 0.0007                 | NE <sup>4</sup> |                |            |                    |                      |                      |                      |            |                       |              |              |            |                         |              |            |  |
| MW-13                                    | 11/6/2002    | 0.000232              | <0.00005               | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005   |  |
|                                          | 8/18/2004    | 0.00234               | <0.00005               | 0.000139        | <0.00005       | 0.000086   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | <0.00005              | NA           | <0.00005     | 0.000141   | <0.00005                | 0.000702     | <0.00005   |  |
|                                          | 3/22/2005    | 0.000746              | <0.00005               | 0.000105        | <0.00005       | 0.000072   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | <0.00005              | NA           | <0.00005     | 0.000366   | <0.00005                | 0.000426     | <0.00005   |  |
|                                          | 2/16/2006    | 0.000064              | <0.00005               | 0.000079        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | <0.00005              | NA           | <0.00005     | 0.000079   | <0.00005                | 0.000132     | <0.00005   |  |
|                                          | 5/11/2007    | <0.001                | <0.001                 | <0.001          | <0.001         | <0.001     | <0.001             | <0.001               | <0.001               | NA                   | <0.001     | <0.001                | NA           | <0.001       | <0.001     | <0.001                  | <0.001       | <0.001     |  |
|                                          | 2/29/2008    | <0.005                | <0.005                 | <0.005          | <0.005         | <0.005     | <0.005             | <0.005               | <0.005               | NA                   | <0.005     | <0.005                | NA           | <0.005       | <0.005     | <0.005                  | <0.005       | <0.005     |  |
|                                          | 9/19/2013    | <0.0000508            | <0.0000508             | <0.0000508      | <0.0000508     | <0.0000508 | <0.0000508         | <0.0000508           | <0.0000508           | <0.0000508           | <0.0000508 | <0.0000508            | NA           | <0.0000508   | <0.0000508 | <0.0000508              | <0.0000508   | <0.0000508 |  |
|                                          | 12/22/2020   | <0.0000997            | <0.0000585             | <0.000103       | <0.0000863     | <0.0000888 | <0.000138          | <0.0000729           | <0.000116            | <0.000119            | <0.000160  | <0.0000779            | N/A          | <0.000161    | <0.000103  | <0.0000936              | <0.0000872   | <0.000134  |  |
| MW-14                                    | 11/6/2002    | <0.00005              | <0.00005               | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005   |  |
|                                          | 8/18/2004    | 0.00119               | <0.00005               | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | 0.000079     | <0.00005   |  |
|                                          | 3/22/2005    | 0.000071              | <0.00005               | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005   |  |
|                                          | 2/16/2006    | <0.00005              | <0.00005               | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005   |  |
|                                          | 5/11/2007    | 0.001                 | <0.001                 | <0.001          | <0.001         | <0.001     | <0.001             | <0.001               | <0.001               | NA                   | <0.001     | <0.001                | NA           | <0.001       | <0.001     | <0.001                  | <0.001       | <0.001     |  |
|                                          | 2/29/2008    | <0.005                | <0.005                 | <0.005          | <0.005         | <0.005     | <0.005             | <0.005               | <0.005               | NA                   | <0.005     | <0.005                | NA           | <0.005       | <0.005     | <0.005                  | <0.005       | <0.005     |  |
|                                          | 9/19/2013    | <0.0000500            | <0.0000500             | <0.0000500      | <0.0000500     | <0.0000500 | <0.0000500         | <0.0000500           | <0.0000500           | <0.0000500           | <0.0000500 | <0.0000500            | NA           | <0.0000500   | <0.0000500 | <0.0000500              | <0.0000500   | <0.0000500 |  |
|                                          | 12/29/2020   | <0.000116             | <0.0000683             | <0.000120       | <0.000101      | <0.000104  | <0.000161          | <0.0000851           | <0.000136            | <0.000139            | <0.000187  | <0.0000910            | N/A          | <0.000188    | <0.000121  | <0.000109               | <0.000102    | <0.000156  |  |
| MW-15                                    | 11/6/2002    | <0.00005              | <0.00005               | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005   |  |
|                                          | 8/24/2004    | <0.00005              | <0.00005               | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005   |  |
|                                          | 2/16/2006    | 0.0033                | <0.00005               | <0.00005        | <0.00005       | <0.00005   | <0.00005           | <0.00005             | <0.00005             | <0.00005             | <0.00005   | <0.00005              | NA           | <0.00005     | <0.00005   | <0.00005                | <0.00005     | <0.00005   |  |
|                                          | 5/11/2007    | <0.001                | <0.001                 | <0.001          | <0.001         | <0.001     | <0.001             | <0.001               | <0.001               | NA                   | <0.001     | <0.001                | NA           | <0.001       | <0.001     | <0.001                  | <0.001       | <0.001     |  |
|                                          | 2/29/2008    | <0.005                | <0.005                 | <0.005          | <0.005         | <0.005     | <0.005             | <0.005               | <0.005               | NA                   | <0.005     | <0.005                | NA           | <0.005       | <0.005     | <0.005                  | <0.005       | <0.005     |  |
|                                          | 9/19/2013    | <0.0000500            | <0.0000500             | <0.0000500      | <0.0000500     | <0.0000500 | <0.0000500         | <0.0000500           | <0.0000500           | <0.0000500           | <0.0000500 | <0.0000500            | NA           | <0.0000500   | <0.0000500 | <0.0000500              | <0.0000500   | <0.0000500 |  |
|                                          | 12/29/2020   | <0.000100             | <0.0000588             | <0.000103       | <0.0000867     | <0.0000892 | <0.000138          | <0.0000732           | <0.000117            | <0.000120            | <0.000161  | <0.0000783            | N/A          | <0.000162    | <0.000104  | <0.0000940              | <0.0000876   | <0.000134  |  |
| TMW-1                                    | 2/16/2006    | 0.0886                | <0.00005               | 0.00146         | <0.00005       | 0.00147    | <0.00005           | <0.00005             | <0.00005             | <0.00005             | 0.00221    | <0.00005              | NA           | <0.00005     | 0.00818    | <0.00005                | 0.0149       | 0.000788   |  |
|                                          | 5/11/2007    | 0.062                 | <0.003                 | <0.002          | <0.004         | <0.002     | <0.002             | <0.002               | <0.006               | NA                   | <0.002     | <0.001                | NA           | <0.002       | 0.008      | <0.003                  | <0.002       | <0.002     |  |
|                                          | 2/29/2008    | 0.069                 | <0.025                 | <0.025          | <0.025         | <0.025     | <0.025             | <0.025               | <0.025               | NA                   | <0.025     | <0.025                | NA           | <0.025       | <0.025     | <0.025                  | <0.025       | <0.025     |  |
|                                          | 9/19/2013    |                       | Not Sampled Due to PSH |                 |                |            |                    |                      |                      |                      |            |                       |              |              |            |                         |              |            |  |
|                                          | 10/4/2014    |                       | Plugged & Abandoned    |                 |                |            |                    |                      |                      |                      |            |                       |              |              |            |                         |              |            |  |
|                                          | 10/1/2018    |                       |                        |                 |                |            |                    |                      |                      |                      |            |                       |              |              |            |                         |              |            |  |

**Notes:**

1. PAH: Polycyclic Aromatic Hydrocarbons

2. NMOCD: New Mexico Oil Conservation Division

3. NMWQCC: New Mexico Water Quality Control Commission

4. NE: Not Established

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

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

## **Appendix A**

### **Laboratory Analytical Reports**

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



# Analytical Report

**Prepared for:**

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

Project: Plains-Livingston Ridge

Project Number: 17476

Location: Lea County, NM

Lab Order Number: 3D03011



**Current Certification**

Report Date: 04/17/23



|                                                                                                     |                                                                                          |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1]<br>13000 West County Road 100<br>Odessa TX, 79765 | Project: Plains-Livingston Ridge<br>Project Number: 17476<br>Project Manager: Joel Lowry |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received    |
|-----------|---------------|--------|----------------|------------------|
| MW-15     | 3D03011-01    | Water  | 03/29/23 11:30 | 04-03-2023 14:40 |
| MW-14     | 3D03011-02    | Water  | 03/29/23 11:30 | 04-03-2023 14:40 |
| MW-11     | 3D03011-03    | Water  | 03/29/23 11:13 | 04-03-2023 14:40 |
| MW-5      | 3D03011-04    | Water  | 03/28/23 14:11 | 04-03-2023 14:40 |
| MW-13     | 3D03011-05    | Water  | 03/29/23 10:47 | 04-03-2023 14:40 |
| MW-12     | 3D03011-06    | Water  | 03/29/23 11:00 | 04-03-2023 14:40 |
| MW-8      | 3D03011-07    | Water  | 03/28/23 13:35 | 04-03-2023 14:40 |
| MW-10     | 3D03011-08    | Water  | 03/28/23 12:40 | 04-03-2023 14:40 |
| MW-2      | 3D03011-09    | Water  | 03/28/23 12:08 | 04-03-2023 14:40 |
| MW-7      | 3D03011-10    | Water  | 03/28/23 12:24 | 04-03-2023 14:40 |
| MW-9      | 3D03011-11    | Water  | 03/28/23 11:45 | 04-03-2023 14:40 |
| MW-6      | 3D03011-12    | Water  | 03/28/23 11:15 | 04-03-2023 14:40 |

|                                                   |                                  |
|---------------------------------------------------|----------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: Plains-Livingston Ridge |
| 13000 West County Road 100                        | Project Number: 17476            |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry      |

MW-15  
3D03011-01 (Water)

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

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Organics by GC

|                                 |        |         |        |   |         |                |                |           |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:09 | EPA 8021B |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:09 | EPA 8021B |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:09 | EPA 8021B |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:09 | EPA 8021B |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:09 | EPA 8021B |
| Surrogate: 4-Bromofluorobenzene | 102 %  |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 04:09 | EPA 8021B |
| Surrogate: 1,4-Difluorobenzene  | 97.7 % |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 04:09 | EPA 8021B |

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|                                                   |                                  |
|---------------------------------------------------|----------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: Plains-Livingston Ridge |
| 13000 West County Road 100                        | Project Number: 17476            |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry      |

MW-14  
3D03011-02 (Water)

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

Permian Basin Environmental Lab, L.P.

Organics by GC

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:31 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:31 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:31 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:31 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:31 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 102 %  |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 04:31 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 98.3 % |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 04:31 | EPA 8021B |  |

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|                                                   |                                  |
|---------------------------------------------------|----------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: Plains-Livingston Ridge |
| 13000 West County Road 100                        | Project Number: 17476            |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry      |

MW-11  
3D03011-03 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| Organics by GC                  |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:52 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:52 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:52 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:52 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 04:52 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 101 %  |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 04:52 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 97.0 % |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 04:52 | EPA 8021B |  |

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|                                                   |                                  |
|---------------------------------------------------|----------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: Plains-Livingston Ridge |
| 13000 West County Road 100                        | Project Number: 17476            |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry      |

MW-5  
3D03011-04 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| Organics by GC                  |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:13 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:13 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:13 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:13 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:13 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 103 %  |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 05:13 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 97.0 % |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 05:13 | EPA 8021B |  |

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|                                                   |                                  |
|---------------------------------------------------|----------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: Plains-Livingston Ridge |
| 13000 West County Road 100                        | Project Number: 17476            |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry      |

MW-13  
3D03011-05 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| Organics by GC                  |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:34 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:34 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:34 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:34 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:34 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 102 %  |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 05:34 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 98.6 % |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 05:34 | EPA 8021B |  |

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|---------------------------------------------------|----------------------------------|
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| 13000 West County Road 100                        | Project Number: 17476            |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry      |

MW-12  
3D03011-06 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| Organics by GC                  |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:55 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:55 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:55 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:55 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 05:55 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 100 %  |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 05:55 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 95.6 % |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 05:55 | EPA 8021B |  |

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|---------------------------------------------------|----------------------------------|
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| 13000 West County Road 100                        | Project Number: 17476            |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry      |

MW-8  
3D03011-07 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| Organics by GC                  |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 06:16 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 06:16 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 06:16 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 06:16 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 06:16 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 102 %  |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 06:16 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 98.7 % |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 06:16 | EPA 8021B |  |

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|                                                   |                                  |
|---------------------------------------------------|----------------------------------|
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| 13000 West County Road 100                        | Project Number: 17476            |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry      |

MW-10  
3D03011-08 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| Organics by GC                  |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 07:20 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 07:20 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 07:20 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 07:20 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 07:20 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 103 %  |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 07:20 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 97.3 % |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 07:20 | EPA 8021B |  |

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|                                                   |                                  |
|---------------------------------------------------|----------------------------------|
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| 13000 West County Road 100                        | Project Number: 17476            |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry      |

MW-2  
3D03011-09 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| Organics by GC                  |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 07:42 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 07:42 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 07:42 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 07:42 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 07:42 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 103 %  |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 07:42 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 97.5 % |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 07:42 | EPA 8021B |  |

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| 13000 West County Road 100                        | Project Number: 17476            |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry      |

MW-7  
3D03011-10 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| Organics by GC                  |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:03 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:03 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:03 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:03 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:03 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 102 %  |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 08:03 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 98.3 % |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 08:03 | EPA 8021B |  |

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|---------------------------------------------------|----------------------------------|
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| 13000 West County Road 100                        | Project Number: 17476            |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry      |

MW-9

3D03011-11 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| Organics by GC                  |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:24 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:24 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:24 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:24 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:24 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 102 %  |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 08:24 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 96.0 % |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 08:24 | EPA 8021B |  |

Permian Basin Environmental Lab, L.P.

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|                                                   |                                  |
|---------------------------------------------------|----------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: Plains-Livingston Ridge |
| 13000 West County Road 100                        | Project Number: 17476            |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry      |

MW-6

3D03011-12 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| Organics by GC                  |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:45 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:45 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:45 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:45 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3D0606 | 04/06/23 11:35 | 04/07/23 08:45 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 102 %  |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 08:45 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 96.0 % |         | 80-120 |   | P3D0606 | 04/06/23 11:35 | 04/07/23 08:45 | EPA 8021B |  |

Permian Basin Environmental Lab, L.P.

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|                                                   |                                  |
|---------------------------------------------------|----------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: Plains-Livingston Ridge |
| 13000 West County Road 100                        | Project Number: 17476            |
| 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 \*\*\*

|                                 |       |                                       |      |       |  |      |        |  |  |  |
|---------------------------------|-------|---------------------------------------|------|-------|--|------|--------|--|--|--|
| 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 |  |  |  |

|                                 |        |                                       |      |       |  |      |        |  |  |  |
|---------------------------------|--------|---------------------------------------|------|-------|--|------|--------|--|--|--|
| 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 |  |  |  |

Permian Basin Environmental Lab, L.P.

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|                                                   |                                  |
|---------------------------------------------------|----------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: Plains-Livingston Ridge |
| 13000 West County Road 100                        | Project Number: 17476            |
| 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 \*\*\*

|                                  |        |         |      |                                       |  |      |        |  |  |  |
|----------------------------------|--------|---------|------|---------------------------------------|--|------|--------|--|--|--|
| 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 |  |  |  |
| 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 |  |  |  |

Permian Basin Environmental Lab, L.P.

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

|                                                                                                     |                                                                                          |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1]<br>13000 West County Road 100<br>Odessa TX, 79765 | Project: Plains-Livingston Ridge<br>Project Number: 17476<br>Project Manager: Joel Lowry |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch P3D0606 - \*\*\* DEFAULT PREP \*\*\*

|                                 |                    |         |      |                    |    |                    |        |  |  |  |
|---------------------------------|--------------------|---------|------|--------------------|----|--------------------|--------|--|--|--|
| 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 |  |  |  |

|                                 |                    |         |      |                    |    |                    |        |       |    |  |
|---------------------------------|--------------------|---------|------|--------------------|----|--------------------|--------|-------|----|--|
| 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 |       |    |  |

Permian Basin Environmental Lab, L.P.

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

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

Project: Plains-Livingston Ridge  
Project Number: 17476  
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:



Date:

4/17/2023

Brent Barron, Laboratory Director/Technical Director

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

Permian Basin Environmental Lab, L.P.

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



**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 LowryProject Name: Livingston RidgeCompany Name Plains All American Pipeline, L.P.Project #: 17476Company Address: 1106 Griffith DriveProject Loc: Lea County, NMCity/State/Zip: Midland, TX 79706PO #: 2001-11005

Telephone No: \_\_\_\_\_

Fax No: \_\_\_\_\_

Report Format: ☒ Standard

TRRP



NPDES

Sampler Signature: Miguel Ramireze-mail: pm@etechenv.com

(lab use only)

ORDER #: 3003011

| LAB # (lab use only) | FIELD CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | Field Filtered | Total # of Containers | Preservation & # of Containers |                              |     |                                |      |                                               |              |           |                             |                             | Matrix                       |                            |          |               |  |  |  |  |  |  | Rush 24 48 72 (Please call) | Standard |
|----------------------|------------|-----------------|--------------|--------------|--------------|----------------|-----------------------|--------------------------------|------------------------------|-----|--------------------------------|------|-----------------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------------------------------|----------------------------|----------|---------------|--|--|--|--|--|--|-----------------------------|----------|
|                      |            |                 |              |              |              |                |                       | Ice                            | HNO <sub>3</sub> 250 ml Poly | HCl | H <sub>2</sub> SO <sub>4</sub> | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | None 1L Poly | NaOH/ZnAc | DW=Drinking Water SL=Sludge | GW=Groundwater S=Soil/Solid | NP=Non-Potable Specify Other | TPH by TX 1005 8015B 8015M | Chloride | BTEX by 8021B |  |  |  |  |  |  |                             |          |
| 1                    | MW 15      | -               | -            | 03/29/23     | 11:30        |                | 3                     | X                              | X                            |     |                                |      |                                               |              |           | GW                          |                             |                              |                            | X        |               |  |  |  |  |  |  | X                           |          |
| 2                    | MW 14      | -               | -            | 03/29/23     | 11:30        |                | 3                     | X                              | X                            |     |                                |      |                                               |              |           | GW                          |                             |                              |                            | X        |               |  |  |  |  |  |  | X                           |          |
| 3                    | MW 11      | -               | -            | 03/29/23     | 11:13        |                | 3                     | X                              | X                            |     |                                |      |                                               |              |           | GW                          |                             |                              |                            | X        |               |  |  |  |  |  |  | X                           |          |
| 4                    | MW 5       | -               | -            | 03/28/23     | 2:11         |                | 3                     | X                              | X                            |     |                                |      |                                               |              |           | GW                          |                             |                              |                            | X        |               |  |  |  |  |  |  | X                           |          |
| 5                    | MW 13      | -               | -            | 03/29/23     | 10:47        |                | 3                     | X                              | X                            |     |                                |      |                                               |              |           | GW                          |                             |                              |                            | X        |               |  |  |  |  |  |  | X                           |          |
| 6                    | MW 12      | -               | -            | 03/29/23     | 11:00        |                | 3                     | X                              | X                            |     |                                |      |                                               |              |           | GW                          |                             |                              |                            | X        |               |  |  |  |  |  |  | X                           |          |
| 7                    | MW 8       | -               | -            | 03/28/23     | 1:35         |                | 3                     | X                              | X                            |     |                                |      |                                               |              |           | GW                          |                             |                              |                            | X        |               |  |  |  |  |  |  | X                           |          |
| 8                    | MW 10      | -               | -            | 03/28/23     | 12:40        |                | 3                     | X                              | X                            |     |                                |      |                                               |              |           | GW                          |                             |                              |                            | X        |               |  |  |  |  |  |  | X                           |          |
| 9                    | MW 2       | -               | -            | 03/28/23     | 12:08        |                | 3                     | X                              | X                            |     |                                |      |                                               |              |           | GW                          |                             |                              |                            | X        |               |  |  |  |  |  |  | X                           |          |
| 10                   | MW 7       | -               | -            | 03/28/23     | 12:24        |                | 3                     | X                              | X                            |     |                                |      |                                               |              |           | GW                          |                             |                              |                            | X        |               |  |  |  |  |  |  | X                           |          |

**Special Instructions:**

|                  |      |      |              |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------|------|------|--------------|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Relinquished by: | Date | Time | Received by: | Date | Time | <b>Laboratory Comments:</b><br>Sample Containers Intact? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N<br>VOCs Free of Headspace? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N<br>Labels on container(s) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N<br>Custody seals on container(s) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N<br>Custody seals on cooler(s) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N<br>Sample Hand Delivered <input checked="" type="checkbox"/> Y <input type="checkbox"/> N<br>by Sampler/Client Rep. ? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N<br>by Courier? <input type="checkbox"/> UPS <input type="checkbox"/> DHL <input type="checkbox"/> FedEx <input type="checkbox"/> Lone Star<br>Temperature Upon Receipt: _____<br>Received: <u>4.3</u> °C<br>Adjusted: <u>4.3</u> °C Factor <u>1.3</u> |
| Relinquished by: | Date | Time | Received by: | Date | Time |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Relinquished by: | Date | Time | Received by: | Date | Time |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |



# 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

Project Name: Livingston Ridge

Company Name Plains All American Pipeline, L.P.

Project #: 17476

Company Address: 1106 Griffith Drive

Project Loc: Lea County, NM

City/State/Zip: Midland, TX 79706

PO #: 2001-11005

Telephone No: \_\_\_\_\_

Fax No: \_\_\_\_\_

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Miguel Ramirez

e-mail: pm@etechenv.com

(lab use only)  
ORDER #: 3D03011

| LAB # (lab use only) | FIELD CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | Field Filtered | Total # of Containers | Preservation & # of Containers |                              |     |                                |      |                                               |              |           |                             |                               | Matrix                       |                            |          |               |  |  |  |  |  |  | Rush 24 48 72 (Please call) | Standard |
|----------------------|------------|-----------------|--------------|--------------|--------------|----------------|-----------------------|--------------------------------|------------------------------|-----|--------------------------------|------|-----------------------------------------------|--------------|-----------|-----------------------------|-------------------------------|------------------------------|----------------------------|----------|---------------|--|--|--|--|--|--|-----------------------------|----------|
|                      |            |                 |              |              |              |                |                       | Ice                            | HNO <sub>3</sub> 250 ml Poly | HCl | H <sub>2</sub> SO <sub>4</sub> | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | None 1L Poly | NaOH/ZnAc | DW=Drinking Water SL=Sludge | GW = Groundwater S=Soil/Solid | NP=Non-Potable Specify Other | TPH by TX 1005 8015B 8015M | Chloride | BTEX by 8021B |  |  |  |  |  |  |                             |          |
| 11                   | MW 9       | -               | -            | 03/28/23     | 11:45        | 3              | X                     | X                              |                              |     |                                |      |                                               |              |           | GW                          |                               |                              |                            |          | X             |  |  |  |  |  |  | X                           |          |
| 12                   | MW 6       | -               | -            | 03/28/23     | 11:15        | 3              | X                     | X                              |                              |     |                                |      |                                               |              |           | GW                          |                               |                              |                            |          | X             |  |  |  |  |  |  | X                           |          |
|                      |            |                 |              |              |              |                |                       |                                |                              |     |                                |      |                                               |              |           |                             |                               |                              |                            |          |               |  |  |  |  |  |  |                             |          |
|                      |            |                 |              |              |              |                |                       |                                |                              |     |                                |      |                                               |              |           |                             |                               |                              |                            |          |               |  |  |  |  |  |  |                             |          |
|                      |            |                 |              |              |              |                |                       |                                |                              |     |                                |      |                                               |              |           |                             |                               |                              |                            |          |               |  |  |  |  |  |  |                             |          |
|                      |            |                 |              |              |              |                |                       |                                |                              |     |                                |      |                                               |              |           |                             |                               |                              |                            |          |               |  |  |  |  |  |  |                             |          |
|                      |            |                 |              |              |              |                |                       |                                |                              |     |                                |      |                                               |              |           |                             |                               |                              |                            |          |               |  |  |  |  |  |  |                             |          |
|                      |            |                 |              |              |              |                |                       |                                |                              |     |                                |      |                                               |              |           |                             |                               |                              |                            |          |               |  |  |  |  |  |  |                             |          |
|                      |            |                 |              |              |              |                |                       |                                |                              |     |                                |      |                                               |              |           |                             |                               |                              |                            |          |               |  |  |  |  |  |  |                             |          |
|                      |            |                 |              |              |              |                |                       |                                |                              |     |                                |      |                                               |              |           |                             |                               |                              |                            |          |               |  |  |  |  |  |  |                             |          |
|                      |            |                 |              |              |              |                |                       |                                |                              |     |                                |      |                                               |              |           |                             |                               |                              |                            |          |               |  |  |  |  |  |  |                             |          |

## Special Instructions:

|                   |               |              |                        |               |              |
|-------------------|---------------|--------------|------------------------|---------------|--------------|
| Relinquished by:  | Date          | Time         |                        | Date          | Time         |
| <u>Joel Lowry</u> | <u>4/3/23</u> | <u>14:40</u> |                        |               |              |
| Relinquished by:  | Date          | Time         | Received by:           | Date          | Time         |
|                   |               |              | <u>Theresa Bledsoe</u> | <u>4/3/23</u> | <u>14:30</u> |
| Relinquished by:  | Date          | Time         | Received by:           | Date          | Time         |
|                   |               |              |                        |               |              |

## Laboratory Comments:

|                                               |   |
|-----------------------------------------------|---|
| Sample Containers Intact?                     | N |
| VOCs Free of Headspace?                       | N |
| Labels on container(s)                        | N |
| Custody seals on container(s)                 | N |
| Custody seals on cooler(s)                    | N |
| Sample Hand Delivered by Sampler/Client Rep.? | N |
| by Courier? UPS DHL FedEx Lone Star           | N |
| Temperature Upon Receipt:                     |   |
| Received: <u>4.3</u> °C                       |   |
| Adjusted: _____ °C Factor                     |   |

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



# Analytical Report

**Prepared for:**

Zach Conder

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

13000 West County Road 100

Odessa, TX 79765

Project: LIVINGSTON RIDGE

Project Number: 17476

Location: Rural Lee Co. NM

Lab Order Number: 3F29011



**Current Certification**

Report Date: 07/24/23

|                                                                                                     |                                                                                    |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1]<br>13000 West County Road 100<br>Odessa TX, 79765 | Project: LIVINGSTON RIDGE<br>Project Number: 17476<br>Project Manager: Zach Conder |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received    |
|-----------|---------------|--------|----------------|------------------|
| MW2       | 3F29011-01    | Water  | 06/28/23 14:15 | 06-29-2023 13:09 |
| MW5       | 3F29011-02    | Water  | 06/28/23 14:00 | 06-29-2023 13:09 |
| MW11      | 3F29011-03    | Water  | 06/28/23 14:05 | 06-29-2023 13:09 |
| MW12      | 3F29011-04    | Water  | 06/28/23 14:10 | 06-29-2023 13:09 |

BTEX analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. 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](https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf)



|                                                   |                              |
|---------------------------------------------------|------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: LIVINGSTON RIDGE    |
| 13000 West County Road 100                        | Project Number: 17476        |
| Odessa TX, 79765                                  | Project Manager: Zach Conder |

MW2  
3F29011-01 (Water)

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

Permian Basin Environmental Lab, L.P.

| Volatile Organic Compounds by EPA Method 8260B |    |         |      |   |         |                |                |           |        |
|------------------------------------------------|----|---------|------|---|---------|----------------|----------------|-----------|--------|
| Benzene                                        | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:01 | 07/07/23 19:01 | EPA 8260B | SUB-13 |
| Ethylbenzene                                   | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:01 | 07/07/23 19:01 | EPA 8260B | SUB-13 |
| m,p-Xylene                                     | ND | 0.0100  | mg/L | 1 | P3G2406 | 07/07/23 19:01 | 07/07/23 19:01 | EPA 8260B | SUB-13 |
| o-Xylene                                       | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:01 | 07/07/23 19:01 | EPA 8260B | SUB-13 |
| Toluene                                        | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:01 | 07/07/23 19:01 | EPA 8260B | SUB-13 |
| Xylenes, total (v/v)                           | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:01 | 07/07/23 19:01 | EPA 8260B | SUB-13 |

Permian Basin Environmental Lab, L.P.

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

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|                                                   |                              |
|---------------------------------------------------|------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: LIVINGSTON RIDGE    |
| 13000 West County Road 100                        | Project Number: 17476        |
| Odessa TX, 79765                                  | Project Manager: Zach Conder |

MW5  
3F29011-02 (Water)

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

Permian Basin Environmental Lab, L.P.

| Volatile Organic Compounds by EPA Method 8260B |    |         |      |   |         |                |                |           |        |
|------------------------------------------------|----|---------|------|---|---------|----------------|----------------|-----------|--------|
| Benzene                                        | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:33 | 07/07/23 19:33 | EPA 8260B | SUB-13 |
| Ethylbenzene                                   | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:33 | 07/07/23 19:33 | EPA 8260B | SUB-13 |
| m,p-Xylene                                     | ND | 0.0100  | mg/L | 1 | P3G2406 | 07/07/23 19:33 | 07/07/23 19:33 | EPA 8260B | SUB-13 |
| o-Xylene                                       | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:33 | 07/07/23 19:33 | EPA 8260B | SUB-13 |
| Toluene                                        | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:33 | 07/07/23 19:33 | EPA 8260B | SUB-13 |
| Xylenes, total (v/v)                           | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:33 | 07/07/23 19:33 | EPA 8260B | SUB-13 |

|                                                   |                              |
|---------------------------------------------------|------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: LIVINGSTON RIDGE    |
| 13000 West County Road 100                        | Project Number: 17476        |
| Odessa TX, 79765                                  | Project Manager: Zach Conder |

MW11  
3F29011-03 (Water)

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

Permian Basin Environmental Lab, L.P.

Volatile Organic Compounds by EPA Method 8260B

|                      |    |         |      |   |         |                |                |           |        |
|----------------------|----|---------|------|---|---------|----------------|----------------|-----------|--------|
| Benzene              | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:45 | 07/07/23 19:45 | EPA 8260B | SUB-13 |
| Ethylbenzene         | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:45 | 07/07/23 19:45 | EPA 8260B | SUB-13 |
| m,p-Xylene           | ND | 0.0100  | mg/L | 1 | P3G2406 | 07/07/23 19:45 | 07/07/23 19:45 | EPA 8260B | SUB-13 |
| o-Xylene             | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:45 | 07/07/23 19:45 | EPA 8260B | SUB-13 |
| Toluene              | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:45 | 07/07/23 19:45 | EPA 8260B | SUB-13 |
| Xylenes, total (v/v) | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 19:45 | 07/07/23 19:45 | EPA 8260B | SUB-13 |

Permian Basin Environmental Lab, L.P.

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|                                                   |                              |
|---------------------------------------------------|------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: LIVINGSTON RIDGE    |
| 13000 West County Road 100                        | Project Number: 17476        |
| Odessa TX, 79765                                  | Project Manager: Zach Conder |

MW12  
3F29011-04 (Water)

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

Permian Basin Environmental Lab, L.P.

Volatile Organic Compounds by EPA Method 8260B

|                      |    |         |      |   |         |                |                |           |        |
|----------------------|----|---------|------|---|---------|----------------|----------------|-----------|--------|
| Benzene              | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 20:08 | 07/07/23 20:08 | EPA 8260B | SUB-13 |
| Ethylbenzene         | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 20:08 | 07/07/23 20:08 | EPA 8260B | SUB-13 |
| m,p-Xylene           | ND | 0.0100  | mg/L | 1 | P3G2406 | 07/07/23 20:08 | 07/07/23 20:08 | EPA 8260B | SUB-13 |
| o-Xylene             | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 20:08 | 07/07/23 20:08 | EPA 8260B | SUB-13 |
| Toluene              | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 20:08 | 07/07/23 20:08 | EPA 8260B | SUB-13 |
| Xylenes, total (v/v) | ND | 0.00500 | mg/L | 1 | P3G2406 | 07/07/23 20:08 | 07/07/23 20:08 | EPA 8260B | SUB-13 |

Permian Basin Environmental Lab, L.P.

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|                                                   |                              |
|---------------------------------------------------|------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: LIVINGSTON RIDGE    |
| 13000 West County Road 100                        | Project Number: 17476        |
| Odessa TX, 79765                                  | Project Manager: Zach Conder |

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|         |        |                    |       |                |                  |      |                |     |              |       |
|         |        |                    |       |                |                  |      |                |     |              |       |

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

Project: LIVINGSTON RIDGE  
Project Number: 17476  
Project Manager: Zach Conder

### 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.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

7/24/2023

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

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



### 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:** ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: [brentbarron@pbelab.com](mailto:brentbarron@pbelab.com)

[illegible]

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

Laboratory Comments:

|                                  |      |      |              |      |      |
|----------------------------------|------|------|--------------|------|------|
| Relinquished by:<br>Brent Barron | Date | Time | Received by: | Date | Time |
|----------------------------------|------|------|--------------|------|------|

|                               |           |           |
|-------------------------------|-----------|-----------|
| 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 |           |

|                  |      |      |              |      |      |
|------------------|------|------|--------------|------|------|
| Relinquished by: | Date | Time | Received by: | Date | Time |
|------------------|------|------|--------------|------|------|

|                  |      |      |              |      |      |
|------------------|------|------|--------------|------|------|
| Relinquished by: | Date | Time | Received by: | Date | Time |
|------------------|------|------|--------------|------|------|





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: **HS23070257**

Laboratory Results for: **3F29011**

Dear Brent Barron,

ALS Environmental received 4 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,

A handwritten signature in black ink that reads 'Anna M. Kinchen'.

Generated By: JUMOKE.LAWAL  
Anna Kinchen  
Project Manager

ALS Houston, US

Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP  
Project: 3F29011  
Work Order: HS23070257

SAMPLE SUMMARY

| Lab Samp ID   | Client Sample ID | Matrix | TagNo | Collection Date   | Date Received     | Hold                     |
|---------------|------------------|--------|-------|-------------------|-------------------|--------------------------|
| HS23070257-01 | 3F29011-01       | Water  |       | 28-Jun-2023 14:15 | 07-Jul-2023 09:40 | <input type="checkbox"/> |
| HS23070257-02 | 3F29011-02       | Water  |       | 28-Jun-2023 14:00 | 07-Jul-2023 09:40 | <input type="checkbox"/> |
| HS23070257-03 | 3F29011-03       | Water  |       | 28-Jun-2023 14:05 | 07-Jul-2023 09:40 | <input type="checkbox"/> |
| HS23070257-04 | 3F29011-04       | Water  |       | 28-Jun-2023 14:10 | 07-Jul-2023 09:40 | <input type="checkbox"/> |

ALS Houston, US

Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP  
Project: 3F29011  
Work Order: HS23070257

CASE NARRATIVE

GCMS Volatiles by Method SW8260

Batch ID: R440835

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 10-Jul-23

Client:Permian Basin Environmental Lab, LP

Project:3F29011

Sample ID:3F29011-01

Collection Date:28-Jun-2023 14:15

ANALYTICAL REPORT

WorkOrder:HS23070257

Lab ID:HS23070257-01

Matrix:Water

| ANALYSES                    | RESULT | QUAL          | REPORT<br>LIMIT | UNITS | DILUTION<br>FACTOR | DATE<br>ANALYZED  |
|-----------------------------|--------|---------------|-----------------|-------|--------------------|-------------------|
| VOLATILES - SW8260C         |        | Method:SW8260 |                 |       |                    | Analyst: PC       |
| Benzene                     | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:01 |
| Ethylbenzene                | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:01 |
| m,p-Xylene                  | ND     |               | 0.010           | mg/L  | 1                  | 07-Jul-2023 19:01 |
| o-Xylene                    | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:01 |
| Toluene                     | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:01 |
| Xylenes, Total              | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:01 |
| Surr: 1,2-Dichloroethane-d4 | 104    |               | 70-126          | %REC  | 1                  | 07-Jul-2023 19:01 |
| Surr: 4-Bromofluorobenzene  | 93.4   |               | 82-124          | %REC  | 1                  | 07-Jul-2023 19:01 |
| Surr: Dibromofluoromethane  | 98.4   |               | 77-123          | %REC  | 1                  | 07-Jul-2023 19:01 |
| Surr: Toluene-d8            | 107    |               | 82-127          | %REC  | 1                  | 07-Jul-2023 19:01 |

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 | <b>ANALYTICAL REPORT</b> |
| Project:         | 3F29011                             | WorkOrder:HS23070257     |
| Sample ID:       | 3F29011-02                          | Lab ID:HS23070257-02     |
| Collection Date: | 28-Jun-2023 14:00                   | Matrix:Water             |

| ANALYSES                    | RESULT | QUAL          | REPORT<br>LIMIT | UNITS | DILUTION<br>FACTOR | DATE<br>ANALYZED  |
|-----------------------------|--------|---------------|-----------------|-------|--------------------|-------------------|
| VOLATILES - SW8260C         |        | Method:SW8260 |                 |       |                    | Analyst: PC       |
| Benzene                     | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:23 |
| Ethylbenzene                | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:23 |
| m,p-Xylene                  | ND     |               | 0.010           | mg/L  | 1                  | 07-Jul-2023 19:23 |
| o-Xylene                    | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:23 |
| Toluene                     | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:23 |
| Xylenes, Total              | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:23 |
| Surr: 1,2-Dichloroethane-d4 | 104    |               | 70-126          | %REC  | 1                  | 07-Jul-2023 19:23 |
| Surr: 4-Bromofluorobenzene  | 95.1   |               | 82-124          | %REC  | 1                  | 07-Jul-2023 19:23 |
| Surr: Dibromofluoromethane  | 101    |               | 77-123          | %REC  | 1                  | 07-Jul-2023 19:23 |
| Surr: Toluene-d8            | 109    |               | 82-127          | %REC  | 1                  | 07-Jul-2023 19:23 |

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:3F29011

Sample ID:3F29011-03

Collection Date:28-Jun-2023 14:05

ANALYTICAL REPORT

WorkOrder:HS23070257

Lab ID:HS23070257-03

Matrix:Water

| ANALYSES                    | RESULT | QUAL          | REPORT<br>LIMIT | UNITS | DILUTION<br>FACTOR | DATE<br>ANALYZED  |
|-----------------------------|--------|---------------|-----------------|-------|--------------------|-------------------|
| VOLATILES - SW8260C         |        | Method:SW8260 |                 |       |                    | Analyst: PC       |
| Benzene                     | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:45 |
| Ethylbenzene                | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:45 |
| m,p-Xylene                  | ND     |               | 0.010           | mg/L  | 1                  | 07-Jul-2023 19:45 |
| o-Xylene                    | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:45 |
| Toluene                     | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:45 |
| Xylenes, Total              | ND     |               | 0.0050          | mg/L  | 1                  | 07-Jul-2023 19:45 |
| Surr: 1,2-Dichloroethane-d4 | 104    |               | 70-126          | %REC  | 1                  | 07-Jul-2023 19:45 |
| Surr: 4-Bromofluorobenzene  | 98.6   |               | 82-124          | %REC  | 1                  | 07-Jul-2023 19:45 |
| Surr: Dibromofluoromethane  | 98.9   |               | 77-123          | %REC  | 1                  | 07-Jul-2023 19:45 |
| Surr: Toluene-d8            | 109    |               | 82-127          | %REC  | 1                  | 07-Jul-2023 19:45 |

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 | <b>ANALYTICAL REPORT</b> |
| Project:         | 3F29011                             | WorkOrder:HS23070257     |
| Sample ID:       | 3F29011-04                          | Lab ID:HS23070257-04     |
| Collection Date: | 28-Jun-2023 14:10                   | Matrix:Water             |

| ANALYSES                    | RESULT | QUAL          | REPORT<br>LIMIT | UNITS       | DILUTION<br>FACTOR | DATE<br>ANALYZED  |
|-----------------------------|--------|---------------|-----------------|-------------|--------------------|-------------------|
| VOLATILES - SW8260C         |        | Method:SW8260 |                 | Analyst: PC |                    |                   |
| Benzene                     | ND     |               | 0.0050          | mg/L        | 1                  | 07-Jul-2023 20:08 |
| Ethylbenzene                | ND     |               | 0.0050          | mg/L        | 1                  | 07-Jul-2023 20:08 |
| m,p-Xylene                  | ND     |               | 0.010           | mg/L        | 1                  | 07-Jul-2023 20:08 |
| o-Xylene                    | ND     |               | 0.0050          | mg/L        | 1                  | 07-Jul-2023 20:08 |
| Toluene                     | ND     |               | 0.0050          | mg/L        | 1                  | 07-Jul-2023 20:08 |
| Xylenes, Total              | ND     |               | 0.0050          | mg/L        | 1                  | 07-Jul-2023 20:08 |
| Surr: 1,2-Dichloroethane-d4 | 103    |               | 70-126          | %REC        | 1                  | 07-Jul-2023 20:08 |
| Surr: 4-Bromofluorobenzene  | 97.5   |               | 82-124          | %REC        | 1                  | 07-Jul-2023 20:08 |
| Surr: Dibromofluoromethane  | 98.4   |               | 77-123          | %REC        | 1                  | 07-Jul-2023 20:08 |
| Surr: Toluene-d8            | 107    |               | 82-127          | %REC        | 1                  | 07-Jul-2023 20:08 |

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:** 3F29011  
**WorkOrder:** HS23070257

**DATES REPORT**

| Sample ID                      | Client Samp ID | Collection Date                        | Leachate Date | Prep Date | Analysis Date        | DF |
|--------------------------------|----------------|----------------------------------------|---------------|-----------|----------------------|----|
| <b>Batch ID:</b> R440835 ( 0 ) |                | <b>Test Name :</b> VOLATILES - SW8260C |               |           | <b>Matrix:</b> Water |    |
| HS23070257-01                  | 3F29011-01     | 28 Jun 2023 14:15                      |               |           | 07 Jul 2023 19:01    | 1  |
| HS23070257-02                  | 3F29011-02     | 28 Jun 2023 14:00                      |               |           | 07 Jul 2023 19:23    | 1  |
| HS23070257-03                  | 3F29011-03     | 28 Jun 2023 14:05                      |               |           | 07 Jul 2023 19:45    | 1  |
| HS23070257-04                  | 3F29011-04     | 28 Jun 2023 14:10                      |               |           | 07 Jul 2023 20:08    | 1  |



## ALS Houston, US

Date: 10-Jul-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3F29011  
**WorkOrder:** HS23070257

## QC BATCH REPORT

| Batch ID: R440835 ( 0 )     |                         | Instrument: VOA9 |         | Method: VOLATILES - SW8260C      |      |               |               |      |                |
|-----------------------------|-------------------------|------------------|---------|----------------------------------|------|---------------|---------------|------|----------------|
| <b>MBLK</b>                 | 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      |               |      |                |

| <b>LCS</b>                  | 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:** 3F29011  
**WorkOrder:** HS23070257

## QC BATCH REPORT

| Batch ID: R440835 ( 0 )     |        | Instrument: VOA9           |         | Method: VOLATILES - SW8260C |      |                                  |               |       |                |
|-----------------------------|--------|----------------------------|---------|-----------------------------|------|----------------------------------|---------------|-------|----------------|
| <b>MS</b>                   |        | 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                         |               |       |                |

| <b>MSD</b>                  |        | 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: HS23070257-01 HS23070257-02 HS23070257-03 HS23070257-04

ALS Houston, US

Date: 10-Jul-23

|                   |                                     |                                        |
|-------------------|-------------------------------------|----------------------------------------|
| <b>Client:</b>    | Permian Basin Environmental Lab, LP | <b>QUALIFIERS,<br/>ACRONYMS, UNITS</b> |
| <b>Project:</b>   | 3F29011                             |                                        |
| <b>WorkOrder:</b> | HS23070257                          |                                        |

| <u>Qualifier</u> | <u>Description</u>                                                        |
|------------------|---------------------------------------------------------------------------|
| *                | 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                               |

| <u>Acronym</u> | <u>Description</u>                  |
|----------------|-------------------------------------|
| 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        |

| <u>Unit Reported</u> | <u>Description</u>   |
|----------------------|----------------------|
| mg/L                 | Milligrams per Liter |

ALS Houston, US

Date: 10-Jul-23

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**CERTIFICATIONS,ACCREDITATIONS & LICENSES**

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| 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: HS23070257

Date/Time Received: 07-Jul-2023 09:40

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 10:01

eSignature

Date/Time

eSignature

Date/Time

Matrices: waterCarrier 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:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:



**HS23070257**

Permian Basin Environmental Lab  
1400 Rankin HWY  
Midland, Texas 79701

Permian Basin Environmental Lab. LP  
3F29011

**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:

Report Format: X Standard

☐ TRRP☐ NPDES

**Sampler Signature:** N/A

**e-mail:** [brentbarron@pbelab.com](mailto:brentbarron@pbelab.com)

Project Loc:

PO #:

[illegible]

ORIGIN ID: MGA (432) 896-7225  
BREN BARON  
PRELUDE  
1400 RAINBOW HWY  
MIDLAND, TX 79701  
UNITED STATES US

SHIP DATE: 05 JUL 23  
ACT WT: 38.00 LB  
COD: 107138649NET4610

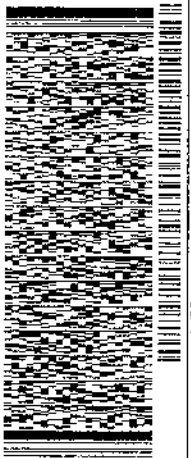
TO SAMPLE RECEIVING  
AL-S-HOUSTON  
10450 STANCLIFF RD  
HOUSTON TX 77099  
DEPT: REF

BILL RECIPIENT

TRK# 7726 5118 3520  
0201

THU - 06 JUL 4:30P  
STANDARD OVERNIGHT

XA SGRA  
TX-US IAH  
77099





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



# Analytical Report

**Prepared for:**

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

Project: LIVINGSTON RIDGE

Project Number: 17476

Location: Rural Lea County, NM

Lab Order Number: 3I21016



**Current Certification**

Report Date: 09/26/23

|                                                                                                     |                                                                                   |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1]<br>13000 West County Road 100<br>Odessa TX, 79765 | Project: LIVINGSTON RIDGE<br>Project Number: 17476<br>Project Manager: Joel Lowry |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received    |
|-----------|---------------|--------|----------------|------------------|
| MW2       | 3I21016-01    | Water  | 09/21/23 08:00 | 09-21-2023 13:48 |
| MW5       | 3I21016-02    | Water  | 09/21/23 08:30 | 09-21-2023 13:48 |
| MW11      | 3I21016-03    | Water  | 09/21/23 09:00 | 09-21-2023 13:48 |
| MW12      | 3I21016-04    | Water  | 09/21/23 09:30 | 09-21-2023 13:48 |
| MW6       | 3I21016-05    | Water  | 09/21/23 10:00 | 09-21-2023 13:48 |
| MW9       | 3I21016-06    | Water  | 09/21/23 10:30 | 09-21-2023 13:48 |
| MW13      | 3I21016-07    | Water  | 09/21/23 11:00 | 09-21-2023 13:48 |
| MW14      | 3I21016-08    | Water  | 09/21/23 11:30 | 09-21-2023 13:48 |
| MW15      | 3I21016-09    | Water  | 09/21/23 12:00 | 09-21-2023 13:48 |

|                                                   |                             |
|---------------------------------------------------|-----------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: LIVINGSTON RIDGE   |
| 13000 West County Road 100                        | Project Number: 17476       |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry |

MW2  
3I21016-01 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| <b>BTEX by 8021B</b>            |        |         |        |   |         |                |                |           |  |
| Total BTEX                      | ND     | 0.00100 | mg/L   | 1 | [CALC]  | 09/22/23 13:17 | 09/23/23 01:03 | EPA 8021B |  |
| Xylenes (total)                 | ND     | 0.00100 | mg/L   | 1 | [CALC]  | 09/22/23 13:17 | 09/23/23 01:03 | EPA 8021B |  |
| <b>Organics by GC</b>           |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3I2206 | 09/22/23 13:17 | 09/23/23 01:03 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3I2206 | 09/22/23 13:17 | 09/23/23 01:03 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3I2206 | 09/22/23 13:17 | 09/23/23 01:03 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3I2206 | 09/22/23 13:17 | 09/23/23 01:03 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3I2206 | 09/22/23 13:17 | 09/23/23 01:03 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 93.0 % |         | 80-120 |   | P3I2206 | 09/22/23 13:17 | 09/23/23 01:03 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 94.8 % |         | 80-120 |   | P3I2206 | 09/22/23 13:17 | 09/23/23 01:03 | EPA 8021B |  |

Permian Basin Environmental Lab, L.P.

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

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



|                                                   |                             |
|---------------------------------------------------|-----------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: LIVINGSTON RIDGE   |
| 13000 West County Road 100                        | Project Number: 17476       |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry |

MW5  
3I21016-02 (Water)

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

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|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| <b>BTEX by 8021B</b>            |        |         |        |   |         |                |                |           |  |
| Total BTEX                      | ND     | 0.00100 | mg/L   | 1 | [CALC]  | 09/22/23 13:22 | 09/23/23 04:08 | EPA 8021B |  |
| Xylenes (total)                 | ND     | 0.00100 | mg/L   | 1 | [CALC]  | 09/22/23 13:22 | 09/23/23 04:08 | EPA 8021B |  |
| <b>Organics by GC</b>           |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:08 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:08 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:08 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:08 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:08 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 89.6 % |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 04:08 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 94.6 % |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 04:08 | EPA 8021B |  |

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|                                                   |                             |
|---------------------------------------------------|-----------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: LIVINGSTON RIDGE   |
| 13000 West County Road 100                        | Project Number: 17476       |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry |

MW11  
3I21016-03 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| <b>BTEX by 8021B</b>            |        |         |        |   |         |                |                |           |  |
| Total BTEX                      | ND     | 0.00100 | mg/L   | 1 | [CALC]  | 09/22/23 13:22 | 09/23/23 04:31 | EPA 8021B |  |
| Xylenes (total)                 | ND     | 0.00100 | mg/L   | 1 | [CALC]  | 09/22/23 13:22 | 09/23/23 04:31 | EPA 8021B |  |
| <b>Organics by GC</b>           |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:31 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:31 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:31 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:31 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:31 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 92.2 % |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 04:31 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 95.9 % |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 04:31 | EPA 8021B |  |

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|                                                   |                             |
|---------------------------------------------------|-----------------------------|
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| 13000 West County Road 100                        | Project Number: 17476       |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry |

MW12  
3I21016-04 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |          |         |        |   |         |                |                |           |  |
|---------------------------------|----------|---------|--------|---|---------|----------------|----------------|-----------|--|
| <b>BTEX by 8021B</b>            |          |         |        |   |         |                |                |           |  |
| Total BTEX                      | 0.000570 | 0.00100 | mg/L   | 1 | [CALC]  | 09/22/23 13:22 | 09/23/23 04:55 | EPA 8021B |  |
| Xylenes (total)                 | ND       | 0.00100 | mg/L   | 1 | [CALC]  | 09/22/23 13:22 | 09/23/23 04:55 | EPA 8021B |  |
| <b>Organics by GC</b>           |          |         |        |   |         |                |                |           |  |
| Benzene                         | ND       | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:55 | EPA 8021B |  |
| Toluene                         | ND       | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:55 | EPA 8021B |  |
| Ethylbenzene                    | ND       | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:55 | EPA 8021B |  |
| Xylene (p/m)                    | ND       | 0.00200 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:55 | EPA 8021B |  |
| Xylene (o)                      | ND       | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 04:55 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 90.3 %   |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 04:55 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 93.4 %   |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 04:55 | EPA 8021B |  |

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|                                                   |                             |
|---------------------------------------------------|-----------------------------|
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| 13000 West County Road 100                        | Project Number: 17476       |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry |

MW6  
3I21016-05 (Water)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

|                 |    |         |      |   |        |                |                |           |  |
|-----------------|----|---------|------|---|--------|----------------|----------------|-----------|--|
| Total BTEX      | ND | 0.00100 | mg/L | 1 | [CALC] | 09/22/23 13:22 | 09/23/23 05:18 | EPA 8021B |  |
| Xylenes (total) | ND | 0.00100 | mg/L | 1 | [CALC] | 09/22/23 13:22 | 09/23/23 05:18 | EPA 8021B |  |

Organics by GC

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 05:18 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 05:18 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 05:18 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 05:18 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 05:18 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 93.5 % |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 05:18 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 95.6 % |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 05:18 | EPA 8021B |  |

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|                                                   |                             |
|---------------------------------------------------|-----------------------------|
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| 13000 West County Road 100                        | Project Number: 17476       |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry |

MW9  
3I21016-06 (Water)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

|                 |    |         |      |   |        |                |                |           |  |
|-----------------|----|---------|------|---|--------|----------------|----------------|-----------|--|
| Total BTEX      | ND | 0.00100 | mg/L | 1 | [CALC] | 09/22/23 13:22 | 09/23/23 05:41 | EPA 8021B |  |
| Xylenes (total) | ND | 0.00100 | mg/L | 1 | [CALC] | 09/22/23 13:22 | 09/23/23 05:41 | EPA 8021B |  |

Organics by GC

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 05:41 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 05:41 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 05:41 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 05:41 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 05:41 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 95.2 % |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 05:41 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 95.9 % |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 05:41 | EPA 8021B |  |

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|                                                   |                             |
|---------------------------------------------------|-----------------------------|
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| 13000 West County Road 100                        | Project Number: 17476       |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry |

MW13  
3I21016-07 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |          |         |        |   |         |                |                |           |  |
|---------------------------------|----------|---------|--------|---|---------|----------------|----------------|-----------|--|
| BTEX by 8021B                   |          |         |        |   |         |                |                |           |  |
| Total BTEX                      | 0.00142  | 0.00100 | mg/L   | 1 | [CALC]  | 09/22/23 13:22 | 09/23/23 06:04 | EPA 8021B |  |
| Xylenes (total)                 | 0.000720 | 0.00100 | mg/L   | 1 | [CALC]  | 09/22/23 13:22 | 09/23/23 06:04 | EPA 8021B |  |
| Organics by GC                  |          |         |        |   |         |                |                |           |  |
| Benzene                         | ND       | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:04 | EPA 8021B |  |
| Toluene                         | ND       | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:04 | EPA 8021B |  |
| Ethylbenzene                    | ND       | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:04 | EPA 8021B |  |
| Xylene (p/m)                    | ND       | 0.00200 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:04 | EPA 8021B |  |
| Xylene (o)                      | ND       | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:04 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 90.0 %   |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 06:04 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 94.8 %   |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 06:04 | EPA 8021B |  |

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|                                                   |                             |
|---------------------------------------------------|-----------------------------|
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| 13000 West County Road 100                        | Project Number: 17476       |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry |

MW14  
3I21016-08 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| <b>BTEX by 8021B</b>            |        |         |        |   |         |                |                |           |  |
| Total BTEX                      | ND     | 0.00100 | mg/L   | 1 | [CALC]  | 09/22/23 13:22 | 09/23/23 06:27 | EPA 8021B |  |
| Xylenes (total)                 | ND     | 0.00100 | mg/L   | 1 | [CALC]  | 09/22/23 13:22 | 09/23/23 06:27 | EPA 8021B |  |
| <b>Organics by GC</b>           |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:27 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:27 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:27 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:27 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:27 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 91.3 % |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 06:27 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 95.4 % |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 06:27 | EPA 8021B |  |

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|                                                   |                             |
|---------------------------------------------------|-----------------------------|
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| 13000 West County Road 100                        | Project Number: 17476       |
| Odessa TX, 79765                                  | Project Manager: Joel Lowry |

MW15  
3I21016-09 (Water)

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

Permian Basin Environmental Lab, L.P.

|                                 |        |         |        |   |         |                |                |           |  |
|---------------------------------|--------|---------|--------|---|---------|----------------|----------------|-----------|--|
| <b>BTEX by 8021B</b>            |        |         |        |   |         |                |                |           |  |
| Total BTEX                      | ND     | 0.00100 | mg/L   | 1 | [CALC]  | 09/22/23 13:22 | 09/23/23 06:50 | EPA 8021B |  |
| Xylenes (total)                 | ND     | 0.00100 | mg/L   | 1 | [CALC]  | 09/22/23 13:22 | 09/23/23 06:50 | EPA 8021B |  |
| <b>Organics by GC</b>           |        |         |        |   |         |                |                |           |  |
| Benzene                         | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:50 | EPA 8021B |  |
| Toluene                         | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:50 | EPA 8021B |  |
| Ethylbenzene                    | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:50 | EPA 8021B |  |
| Xylene (p/m)                    | ND     | 0.00200 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:50 | EPA 8021B |  |
| Xylene (o)                      | ND     | 0.00100 | mg/L   | 1 | P3I2207 | 09/22/23 13:22 | 09/23/23 06:50 | EPA 8021B |  |
| Surrogate: 4-Bromofluorobenzene | 93.8 % |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 06:50 | EPA 8021B |  |
| Surrogate: 1,4-Difluorobenzene  | 95.4 % |         | 80-120 |   | P3I2207 | 09/22/23 13:22 | 09/23/23 06:50 | EPA 8021B |  |

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|                                                                                                     |                                                                                   |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1]<br>13000 West County Road 100<br>Odessa TX, 79765 | Project: LIVINGSTON RIDGE<br>Project Number: 17476<br>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 P3I2206 - \*\*\* DEFAULT PREP \*\*\*

|                                 |       |                               |      |       |  |      |        |  |  |  |
|---------------------------------|-------|-------------------------------|------|-------|--|------|--------|--|--|--|
| Blank (P3I2206-BLK1)            |       | Prepared & Analyzed: 09/22/23 |      |       |  |      |        |  |  |  |
| 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 | 0.112 |                               | "    | 0.120 |  | 93.1 | 80-120 |  |  |  |
| Surrogate: 1,4-Difluorobenzene  | 0.114 |                               | "    | 0.120 |  | 94.7 | 80-120 |  |  |  |

|                                 |        |                               |      |       |  |      |        |  |  |  |
|---------------------------------|--------|-------------------------------|------|-------|--|------|--------|--|--|--|
| LCS (P3I2206-BS1)               |        | Prepared & Analyzed: 09/22/23 |      |       |  |      |        |  |  |  |
| Benzene                         | 0.0937 | 0.00100                       | mg/L | 0.100 |  | 93.7 | 80-120 |  |  |  |
| Toluene                         | 0.0912 | 0.00100                       | "    | 0.100 |  | 91.2 | 80-120 |  |  |  |
| Ethylbenzene                    | 0.0957 | 0.00100                       | "    | 0.100 |  | 95.7 | 80-120 |  |  |  |
| Xylene (p/m)                    | 0.186  | 0.00200                       | "    | 0.200 |  | 93.1 | 80-120 |  |  |  |
| Xylene (o)                      | 0.0821 | 0.00100                       | "    | 0.100 |  | 82.1 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene | 0.109  |                               | "    | 0.120 |  | 90.6 | 80-120 |  |  |  |
| Surrogate: 1,4-Difluorobenzene  | 0.114  |                               | "    | 0.120 |  | 95.1 | 80-120 |  |  |  |

|                                 |        |                               |      |       |  |      |        |      |    |  |
|---------------------------------|--------|-------------------------------|------|-------|--|------|--------|------|----|--|
| LCS Dup (P3I2206-BS1)           |        | Prepared & Analyzed: 09/22/23 |      |       |  |      |        |      |    |  |
| Benzene                         | 0.0914 | 0.00100                       | mg/L | 0.100 |  | 91.4 | 80-120 | 2.47 | 20 |  |
| Toluene                         | 0.0881 | 0.00100                       | "    | 0.100 |  | 88.1 | 80-120 | 3.54 | 20 |  |
| Ethylbenzene                    | 0.0921 | 0.00100                       | "    | 0.100 |  | 92.1 | 80-120 | 3.83 | 20 |  |
| Xylene (p/m)                    | 0.180  | 0.00200                       | "    | 0.200 |  | 90.2 | 80-120 | 3.18 | 20 |  |
| Xylene (o)                      | 0.0807 | 0.00100                       | "    | 0.100 |  | 80.7 | 80-120 | 1.77 | 20 |  |
| Surrogate: 4-Bromofluorobenzene | 0.112  |                               | "    | 0.120 |  | 93.1 | 80-120 |      |    |  |
| Surrogate: 1,4-Difluorobenzene  | 0.116  |                               | "    | 0.120 |  | 96.7 | 80-120 |      |    |  |

|                                  |       |                               |      |       |  |      |        |  |  |  |
|----------------------------------|-------|-------------------------------|------|-------|--|------|--------|--|--|--|
| Calibration Blank (P3I2206-CCB1) |       | Prepared & Analyzed: 09/22/23 |      |       |  |      |        |  |  |  |
| Benzene                          | 0.170 |                               | ug/l |       |  |      |        |  |  |  |
| Toluene                          | 0.180 |                               | "    |       |  |      |        |  |  |  |
| Ethylbenzene                     | 0.170 |                               | "    |       |  |      |        |  |  |  |
| Xylene (p/m)                     | 0.260 |                               | "    |       |  |      |        |  |  |  |
| Xylene (o)                       | 0.100 |                               | "    |       |  |      |        |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.113 |                               | "    | 0.120 |  | 94.2 | 80-120 |  |  |  |
| Surrogate: 1,4-Difluorobenzene   | 0.114 |                               | "    | 0.120 |  | 94.7 | 80-120 |  |  |  |

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|                                                   |                             |
|---------------------------------------------------|-----------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: LIVINGSTON RIDGE   |
| 13000 West County Road 100                        | Project Number: 17476       |
| 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 P3I2206 - \*\*\* DEFAULT PREP \*\*\*

|                                  |        |  |      |                               |  |      |        |  |  |  |
|----------------------------------|--------|--|------|-------------------------------|--|------|--------|--|--|--|
| Calibration Blank (P3I2206-CCB2) |        |  |      | Prepared & Analyzed: 09/22/23 |  |      |        |  |  |  |
| Benzene                          | 0.130  |  | ug/l |                               |  |      |        |  |  |  |
| Toluene                          | 0.220  |  | "    |                               |  |      |        |  |  |  |
| Ethylbenzene                     | 0.140  |  | "    |                               |  |      |        |  |  |  |
| Xylene (p/m)                     | 0.140  |  | "    |                               |  |      |        |  |  |  |
| Xylene (o)                       | 0.0700 |  | "    |                               |  |      |        |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.110  |  | "    | 0.120                         |  | 91.6 | 80-120 |  |  |  |
| Surrogate: 1,4-Difluorobenzene   | 0.114  |  | "    | 0.120                         |  | 95.0 | 80-120 |  |  |  |

|                                  |        |         |      |                               |  |      |        |  |  |  |
|----------------------------------|--------|---------|------|-------------------------------|--|------|--------|--|--|--|
| Calibration Check (P3I2206-CCV1) |        |         |      | Prepared & Analyzed: 09/22/23 |  |      |        |  |  |  |
| Benzene                          | 0.0869 | 0.00100 | mg/L | 0.100                         |  | 86.9 | 80-120 |  |  |  |
| Toluene                          | 0.0935 | 0.00100 | "    | 0.100                         |  | 93.5 | 80-120 |  |  |  |
| Ethylbenzene                     | 0.0982 | 0.00100 | "    | 0.100                         |  | 98.2 | 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  | 0.111  |         | "    | 0.120                         |  | 92.9 | 80-120 |  |  |  |
| Surrogate: 1,4-Difluorobenzene   | 0.114  |         | "    | 0.120                         |  | 94.9 | 80-120 |  |  |  |

|                                  |        |         |      |                               |  |      |        |  |  |  |
|----------------------------------|--------|---------|------|-------------------------------|--|------|--------|--|--|--|
| Calibration Check (P3I2206-CCV2) |        |         |      | Prepared & Analyzed: 09/22/23 |  |      |        |  |  |  |
| Benzene                          | 0.0853 | 0.00100 | mg/L | 0.100                         |  | 85.3 | 80-120 |  |  |  |
| Toluene                          | 0.0892 | 0.00100 | "    | 0.100                         |  | 89.2 | 80-120 |  |  |  |
| Ethylbenzene                     | 0.0911 | 0.00100 | "    | 0.100                         |  | 91.1 | 80-120 |  |  |  |
| Xylene (p/m)                     | 0.188  | 0.00200 | "    | 0.200                         |  | 93.8 | 80-120 |  |  |  |
| Xylene (o)                       | 0.0861 | 0.00100 | "    | 0.100                         |  | 86.1 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.108  |         | "    | 0.120                         |  | 89.9 | 80-120 |  |  |  |
| Surrogate: 1,4-Difluorobenzene   | 0.115  |         | "    | 0.120                         |  | 95.8 | 80-120 |  |  |  |

|                                  |        |         |      |                                       |  |      |        |  |  |  |
|----------------------------------|--------|---------|------|---------------------------------------|--|------|--------|--|--|--|
| Calibration Check (P3I2206-CCV3) |        |         |      | Prepared: 09/22/23 Analyzed: 09/23/23 |  |      |        |  |  |  |
| Benzene                          | 0.0903 | 0.00100 | mg/L | 0.100                                 |  | 90.3 | 80-120 |  |  |  |
| Toluene                          | 0.0953 | 0.00100 | "    | 0.100                                 |  | 95.3 | 80-120 |  |  |  |
| Ethylbenzene                     | 0.0993 | 0.00100 | "    | 0.100                                 |  | 99.3 | 80-120 |  |  |  |
| Xylene (p/m)                     | 0.206  | 0.00200 | "    | 0.200                                 |  | 103  | 80-120 |  |  |  |
| Xylene (o)                       | 0.0937 | 0.00100 | "    | 0.100                                 |  | 93.7 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.110  |         | "    | 0.120                                 |  | 92.0 | 80-120 |  |  |  |
| Surrogate: 1,4-Difluorobenzene   | 0.115  |         | "    | 0.120                                 |  | 96.2 | 80-120 |  |  |  |

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|                                                                                                     |                                                                                   |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1]<br>13000 West County Road 100<br>Odessa TX, 79765 | Project: LIVINGSTON RIDGE<br>Project Number: 17476<br>Project Manager: Joel Lowry |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

Organics by GC - Quality Control  
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| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch P3I2206 - \*\*\* DEFAULT PREP \*\*\*

|                                 |        |                    |      |                    |    |                    |        |  |  |       |
|---------------------------------|--------|--------------------|------|--------------------|----|--------------------|--------|--|--|-------|
| Matrix Spike (P3I2206-MS1)      |        | Source: 3I21003-06 |      | Prepared: 09/22/23 |    | Analyzed: 09/23/23 |        |  |  |       |
| Benzene                         | 0.0886 | 0.00100            | mg/L | 0.100              | ND | 88.6               | 80-120 |  |  |       |
| Toluene                         | 0.0822 | 0.00100            | "    | 0.100              | ND | 82.2               | 80-120 |  |  |       |
| Ethylbenzene                    | 0.0837 | 0.00100            | "    | 0.100              | ND | 83.7               | 80-120 |  |  |       |
| Xylene (p/m)                    | 0.166  | 0.00200            | "    | 0.200              | ND | 82.9               | 80-120 |  |  |       |
| Xylene (o)                      | 0.0721 | 0.00100            | "    | 0.100              | ND | 72.1               | 80-120 |  |  | QM-05 |
| Surrogate: 4-Bromofluorobenzene | 0.109  |                    | "    | 0.120              |    | 90.7               | 80-120 |  |  |       |
| Surrogate: 1,4-Difluorobenzene  | 0.116  |                    | "    | 0.120              |    | 96.3               | 80-120 |  |  |       |

|                                 |        |                    |      |                    |    |                    |        |      |    |       |
|---------------------------------|--------|--------------------|------|--------------------|----|--------------------|--------|------|----|-------|
| Matrix Spike Dup (P3I2206-MSD1) |        | Source: 3I21003-06 |      | Prepared: 09/22/23 |    | Analyzed: 09/23/23 |        |      |    |       |
| Benzene                         | 0.0906 | 0.00100            | mg/L | 0.100              | ND | 90.6               | 80-120 | 2.25 | 20 |       |
| Toluene                         | 0.0874 | 0.00100            | "    | 0.100              | ND | 87.4               | 80-120 | 6.12 | 20 |       |
| Ethylbenzene                    | 0.0895 | 0.00100            | "    | 0.100              | ND | 89.5               | 80-120 | 6.63 | 20 |       |
| Xylene (p/m)                    | 0.177  | 0.00200            | "    | 0.200              | ND | 88.5               | 80-120 | 6.54 | 20 |       |
| Xylene (o)                      | 0.0775 | 0.00100            | "    | 0.100              | ND | 77.5               | 80-120 | 7.21 | 20 | QM-05 |
| Surrogate: 4-Bromofluorobenzene | 0.108  |                    | "    | 0.120              |    | 90.2               | 80-120 |      |    |       |
| Surrogate: 1,4-Difluorobenzene  | 0.114  |                    | "    | 0.120              |    | 94.9               | 80-120 |      |    |       |

Batch P3I2207 - \*\*\* DEFAULT PREP \*\*\*

|                                 |       |         |      |                    |  |                    |        |  |  |  |
|---------------------------------|-------|---------|------|--------------------|--|--------------------|--------|--|--|--|
| Blank (P3I2207-BLK1)            |       |         |      | Prepared: 09/22/23 |  | Analyzed: 09/23/23 |        |  |  |  |
| 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 | 0.113 |         | "    | 0.120              |  | 94.2               | 80-120 |  |  |  |
| Surrogate: 1,4-Difluorobenzene  | 0.115 |         | "    | 0.120              |  | 95.7               | 80-120 |  |  |  |

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|                                                   |                             |
|---------------------------------------------------|-----------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: LIVINGSTON RIDGE   |
| 13000 West County Road 100                        | Project Number: 17476       |
| 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 P3I2207 - \*\*\* DEFAULT PREP \*\*\*

|                                 |        |         |      |                                       |  |      |        |  |  |  |
|---------------------------------|--------|---------|------|---------------------------------------|--|------|--------|--|--|--|
| LCS (P3I2207-BS1)               |        |         |      | Prepared: 09/22/23 Analyzed: 09/23/23 |  |      |        |  |  |  |
| Benzene                         | 0.0959 | 0.00100 | mg/L | 0.100                                 |  | 95.9 | 80-120 |  |  |  |
| Toluene                         | 0.0907 | 0.00100 | "    | 0.100                                 |  | 90.7 | 80-120 |  |  |  |
| Ethylbenzene                    | 0.0931 | 0.00100 | "    | 0.100                                 |  | 93.1 | 80-120 |  |  |  |
| Xylene (p/m)                    | 0.184  | 0.00200 | "    | 0.200                                 |  | 92.0 | 80-120 |  |  |  |
| Xylene (o)                      | 0.0807 | 0.00100 | "    | 0.100                                 |  | 80.7 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene | 0.107  |         | "    | 0.120                                 |  | 88.8 | 80-120 |  |  |  |
| Surrogate: 1,4-Difluorobenzene  | 0.115  |         | "    | 0.120                                 |  | 96.2 | 80-120 |  |  |  |

|                                 |        |         |      |                                       |  |      |        |       |    |  |
|---------------------------------|--------|---------|------|---------------------------------------|--|------|--------|-------|----|--|
| LCS Dup (P3I2207-BSD1)          |        |         |      | Prepared: 09/22/23 Analyzed: 09/23/23 |  |      |        |       |    |  |
| Benzene                         | 0.0904 | 0.00100 | mg/L | 0.100                                 |  | 90.4 | 80-120 | 5.84  | 20 |  |
| Toluene                         | 0.0866 | 0.00100 | "    | 0.100                                 |  | 86.6 | 80-120 | 4.56  | 20 |  |
| Ethylbenzene                    | 0.0890 | 0.00100 | "    | 0.100                                 |  | 89.0 | 80-120 | 4.44  | 20 |  |
| Xylene (p/m)                    | 0.177  | 0.00200 | "    | 0.200                                 |  | 88.7 | 80-120 | 3.61  | 20 |  |
| Xylene (o)                      | 0.0800 | 0.00100 | "    | 0.100                                 |  | 80.0 | 80-120 | 0.809 | 20 |  |
| Surrogate: 4-Bromofluorobenzene | 0.108  |         | "    | 0.120                                 |  | 90.3 | 80-120 |       |    |  |
| Surrogate: 1,4-Difluorobenzene  | 0.115  |         | "    | 0.120                                 |  | 95.7 | 80-120 |       |    |  |

|                                  |        |  |      |                                       |  |      |        |  |  |  |
|----------------------------------|--------|--|------|---------------------------------------|--|------|--------|--|--|--|
| Calibration Blank (P3I2207-CCB1) |        |  |      | Prepared: 09/22/23 Analyzed: 09/23/23 |  |      |        |  |  |  |
| Benzene                          | 0.180  |  | ug/l |                                       |  |      |        |  |  |  |
| Toluene                          | 0.150  |  | "    |                                       |  |      |        |  |  |  |
| Ethylbenzene                     | 0.0800 |  | "    |                                       |  |      |        |  |  |  |
| Xylene (p/m)                     | 0.160  |  | "    |                                       |  |      |        |  |  |  |
| Xylene (o)                       | 0.100  |  | "    |                                       |  |      |        |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.108  |  | "    | 0.120                                 |  | 89.8 | 80-120 |  |  |  |
| Surrogate: 1,4-Difluorobenzene   | 0.114  |  | "    | 0.120                                 |  | 94.8 | 80-120 |  |  |  |

|                                  |       |  |      |                                       |  |      |        |  |  |  |
|----------------------------------|-------|--|------|---------------------------------------|--|------|--------|--|--|--|
| Calibration Blank (P3I2207-CCB2) |       |  |      | Prepared: 09/22/23 Analyzed: 09/23/23 |  |      |        |  |  |  |
| Benzene                          | 0.170 |  | ug/l |                                       |  |      |        |  |  |  |
| Toluene                          | 0.160 |  | "    |                                       |  |      |        |  |  |  |
| Ethylbenzene                     | 0.140 |  | "    |                                       |  |      |        |  |  |  |
| Xylene (p/m)                     | 0.100 |  | "    |                                       |  |      |        |  |  |  |
| Xylene (o)                       | 0.220 |  | "    |                                       |  |      |        |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.113 |  | "    | 0.120                                 |  | 94.6 | 80-120 |  |  |  |
| Surrogate: 1,4-Difluorobenzene   | 0.115 |  | "    | 0.120                                 |  | 96.2 | 80-120 |  |  |  |

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|                                                   |                             |
|---------------------------------------------------|-----------------------------|
| E Tech Environmental & Safety Solutions, Inc. [1] | Project: LIVINGSTON RIDGE   |
| 13000 West County Road 100                        | Project Number: 17476       |
| 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 P3I2207 - \*\*\* DEFAULT PREP \*\*\*

|                                  |        |         |      |                                       |  |      |        |  |  |  |
|----------------------------------|--------|---------|------|---------------------------------------|--|------|--------|--|--|--|
| Calibration Check (P3I2207-CCV1) |        |         |      | Prepared: 09/22/23 Analyzed: 09/23/23 |  |      |        |  |  |  |
| Benzene                          | 0.0903 | 0.00100 | mg/L | 0.100                                 |  | 90.3 | 80-120 |  |  |  |
| Toluene                          | 0.0953 | 0.00100 | "    | 0.100                                 |  | 95.3 | 80-120 |  |  |  |
| Ethylbenzene                     | 0.0993 | 0.00100 | "    | 0.100                                 |  | 99.3 | 80-120 |  |  |  |
| Xylene (p/m)                     | 0.206  | 0.00200 | "    | 0.200                                 |  | 103  | 80-120 |  |  |  |
| Xylene (o)                       | 0.0937 | 0.00100 | "    | 0.100                                 |  | 93.7 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.110  |         | "    | 0.120                                 |  | 92.0 | 80-120 |  |  |  |
| Surrogate: 1,4-Difluorobenzene   | 0.115  |         | "    | 0.120                                 |  | 96.2 | 80-120 |  |  |  |

|                                  |        |         |      |                                       |  |      |        |  |  |  |
|----------------------------------|--------|---------|------|---------------------------------------|--|------|--------|--|--|--|
| Calibration Check (P3I2207-CCV2) |        |         |      | Prepared: 09/22/23 Analyzed: 09/23/23 |  |      |        |  |  |  |
| Benzene                          | 0.0874 | 0.00100 | mg/L | 0.100                                 |  | 87.4 | 80-120 |  |  |  |
| Toluene                          | 0.0914 | 0.00100 | "    | 0.100                                 |  | 91.4 | 80-120 |  |  |  |
| Ethylbenzene                     | 0.0947 | 0.00100 | "    | 0.100                                 |  | 94.7 | 80-120 |  |  |  |
| Xylene (p/m)                     | 0.198  | 0.00200 | "    | 0.200                                 |  | 99.0 | 80-120 |  |  |  |
| Xylene (o)                       | 0.0906 | 0.00100 | "    | 0.100                                 |  | 90.6 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.109  |         | "    | 0.120                                 |  | 90.7 | 80-120 |  |  |  |
| Surrogate: 1,4-Difluorobenzene   | 0.116  |         | "    | 0.120                                 |  | 97.0 | 80-120 |  |  |  |

|                                  |        |         |      |                                       |  |      |        |  |  |  |
|----------------------------------|--------|---------|------|---------------------------------------|--|------|--------|--|--|--|
| Calibration Check (P3I2207-CCV3) |        |         |      | Prepared: 09/22/23 Analyzed: 09/23/23 |  |      |        |  |  |  |
| Benzene                          | 0.0856 | 0.00100 | mg/L | 0.100                                 |  | 85.6 | 80-120 |  |  |  |
| Toluene                          | 0.0900 | 0.00100 | "    | 0.100                                 |  | 90.0 | 80-120 |  |  |  |
| Ethylbenzene                     | 0.0928 | 0.00100 | "    | 0.100                                 |  | 92.8 | 80-120 |  |  |  |
| Xylene (p/m)                     | 0.192  | 0.00200 | "    | 0.200                                 |  | 96.0 | 80-120 |  |  |  |
| Xylene (o)                       | 0.0882 | 0.00100 | "    | 0.100                                 |  | 88.2 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.106  |         | "    | 0.120                                 |  | 88.5 | 80-120 |  |  |  |
| Surrogate: 1,4-Difluorobenzene   | 0.113  |         | "    | 0.120                                 |  | 94.4 | 80-120 |  |  |  |

|                                 |        |         |      |                    |    |                                       |        |  |  |       |
|---------------------------------|--------|---------|------|--------------------|----|---------------------------------------|--------|--|--|-------|
| Matrix Spike (P3I2207-MS1)      |        |         |      | Source: 3I21016-02 |    | Prepared: 09/22/23 Analyzed: 09/23/23 |        |  |  |       |
| Benzene                         | 0.0957 | 0.00100 | mg/L | 0.100              | ND | 95.7                                  | 80-120 |  |  |       |
| Toluene                         | 0.0895 | 0.00100 | "    | 0.100              | ND | 89.5                                  | 80-120 |  |  |       |
| Ethylbenzene                    | 0.0909 | 0.00100 | "    | 0.100              | ND | 90.9                                  | 80-120 |  |  |       |
| Xylene (p/m)                    | 0.179  | 0.00200 | "    | 0.200              | ND | 89.4                                  | 80-120 |  |  |       |
| Xylene (o)                      | 0.0778 | 0.00100 | "    | 0.100              | ND | 77.8                                  | 80-120 |  |  | QM-05 |
| Surrogate: 4-Bromofluorobenzene | 0.106  |         | "    | 0.120              |    | 88.2                                  | 80-120 |  |  |       |
| Surrogate: 1,4-Difluorobenzene  | 0.114  |         | "    | 0.120              |    | 94.7                                  | 80-120 |  |  |       |

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| E Tech Environmental & Safety Solutions, Inc. [1]<br>13000 West County Road 100<br>Odessa TX, 79765 | Project: LIVINGSTON RIDGE<br>Project Number: 17476<br>Project Manager: Joel Lowry |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch P3I2207 - \*\*\* DEFAULT PREP \*\*\*

|                                 |                    |         |      |                                       |    |      |        |       |    |       |
|---------------------------------|--------------------|---------|------|---------------------------------------|----|------|--------|-------|----|-------|
| Matrix Spike Dup (P3I2207-MSD1) | Source: 3I21016-02 |         |      | Prepared: 09/22/23 Analyzed: 09/23/23 |    |      |        |       |    |       |
| Benzene                         | 0.0939             | 0.00100 | mg/L | 0.100                                 | ND | 93.9 | 80-120 | 1.84  | 20 |       |
| Toluene                         | 0.0877             | 0.00100 | "    | 0.100                                 | ND | 87.7 | 80-120 | 2.03  | 20 |       |
| Ethylbenzene                    | 0.0897             | 0.00100 | "    | 0.100                                 | ND | 89.7 | 80-120 | 1.35  | 20 |       |
| Xylene (p/m)                    | 0.177              | 0.00200 | "    | 0.200                                 | ND | 88.5 | 80-120 | 0.956 | 20 |       |
| Xylene (o)                      | 0.0769             | 0.00100 | "    | 0.100                                 | ND | 76.9 | 80-120 | 1.15  | 20 | QM-05 |
| Surrogate: 4-Bromofluorobenzene | 0.105              |         | "    | 0.120                                 |    | 87.7 | 80-120 |       |    |       |
| Surrogate: 1,4-Difluorobenzene  | 0.113              |         | "    | 0.120                                 |    | 94.5 | 80-120 |       |    |       |

Permian Basin Environmental Lab, L.P.

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

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

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

Project: LIVINGSTON RIDGE  
Project Number: 17476  
Project Manager: Joel Lowry

### Notes and Definitions

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.

DET        Analyte DETECTED

ND        Analyte NOT DETECTED at or above the reporting limit

NR        Not Reported

dry        Sample results reported on a dry weight basis

RPD        Relative Percent Difference

LCS        Laboratory Control Spike

MS        Matrix Spike

Dup        Duplicate

Report Approved By:



Date:

9/26/2023

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

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





CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

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

Phone: 432-686-7235

Project Manager: Del Lowry  
Company Name: Etech Environmental & Safety Solutions  
Company Address: 2617 W. Marland  
City/State/Zip: Hobbs, NM 88240  
Telephone No: 575-261-9884  
Sampler Signature: [Signature]

Project Name: Livingston Ridge  
Project #: 17476  
Project Loc: Rural Lea Co., NM  
PO #: 2061-11005

Fax No: \_\_\_\_\_ Report Format: ☐ Standard ☐ TRRP ☐ NPDES  
e-mail: PM@etechenv.com

| (lab use only) |            | Analyze For:    |              |              |              |                |                       |     |                  |     |                                | RUSH TAT (Pre-Schedule) 24, 48, 72 h |                                               |      |                 |                                                                                            |                      |                                           |                              |       |        |              |  |
|----------------|------------|-----------------|--------------|--------------|--------------|----------------|-----------------------|-----|------------------|-----|--------------------------------|--------------------------------------|-----------------------------------------------|------|-----------------|--------------------------------------------------------------------------------------------|----------------------|-------------------------------------------|------------------------------|-------|--------|--------------|--|
| ORDER #:       | FIELD CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | Field Filtered | Total # of Containers | Ice | HNO <sub>3</sub> | HCl | H <sub>2</sub> SO <sub>4</sub> | NaOH                                 | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | None | Other (Specify) | DW=Drinking Water SL=Sludge<br>GW=Groundwater S=Soil/Solid<br>NP=Non-Potable Specify Other | TPH: TX 1005 TX 1006 | Anions (Cl, SO <sub>4</sub> , Alkalinity) | BTEX 8021B/5030 or BTEX 8260 | TCLP: | TOTAL: | Standard TAT |  |
| 1              | MW2        |                 |              | 9/21/23      | 8:00         | 3              | X                     |     |                  |     |                                |                                      |                                               |      |                 | GW                                                                                         |                      |                                           |                              |       |        |              |  |
| 2              | MW5        |                 |              | 9/21/23      | 8:30         | 3              | X                     |     |                  |     |                                |                                      |                                               |      |                 | GW                                                                                         |                      |                                           |                              |       |        |              |  |
| 3              | MW11       |                 |              | 9/21/23      | 9:00         | 3              | X                     |     |                  |     |                                |                                      |                                               |      |                 | GW                                                                                         |                      |                                           |                              |       |        |              |  |
| 4              | MW12       |                 |              | 9/21/23      | 9:30         | 3              | X                     |     |                  |     |                                |                                      |                                               |      |                 | GW                                                                                         |                      |                                           |                              |       |        |              |  |
| 5              | MW6        |                 |              | 9/21/23      | 10:00        | 3              | X                     |     |                  |     |                                |                                      |                                               |      |                 | GW                                                                                         |                      |                                           |                              |       |        |              |  |
| 6              | MW9        |                 |              | 9/21/23      | 10:30        | 3              | X                     |     |                  |     |                                |                                      |                                               |      |                 | GW                                                                                         |                      |                                           |                              |       |        |              |  |
| 7              | MW13       |                 |              | 9/21/23      | 11:00        | 3              | X                     |     |                  |     |                                |                                      |                                               |      |                 | GW                                                                                         |                      |                                           |                              |       |        |              |  |
| 8              | MW14       |                 |              | 9/21/23      | 11:30        | 3              | X                     |     |                  |     |                                |                                      |                                               |      |                 | GW                                                                                         |                      |                                           |                              |       |        |              |  |
| 9              | MW15       |                 |              | 9/21/23      | 12:00        | 3              | X                     |     |                  |     |                                |                                      |                                               |      |                 | GW                                                                                         |                      |                                           |                              |       |        |              |  |

Special Instructions:

Relinquished by: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: Jaen MC Date: 9/21/23 Time: 15:40

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 by Sampler/Client Rep. ? Y N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: Received: 5.9 °C Thermometer: CFP

Adjusted: \_\_\_\_\_ °C Factor: \_\_\_\_\_



## ANALYTICAL REPORT

January 04, 2024

**Plains All American Pipeline - ETECH**

Sample Delivery Group: L1691041  
Samples Received: 12/22/2023  
Project Number: SRS #2001-11005  
Description: Livingston Ridge - Hugh P. Sims  
Site: SRS #2001-11005  
Report To: Kimble Thrash  
PO Box 62228  
Midland, TX 79711

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

Entire Report Reviewed By:

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

Lori A Vahrenkamp  
Project Manager

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

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

|                                                 |    |                 |
|-------------------------------------------------|----|-----------------|
| Cp: Cover Page                                  | 1  | <sup>1</sup> Cp |
| Tc: Table of Contents                           | 2  |                 |
| Ss: Sample Summary                              | 3  | <sup>2</sup> Tc |
| Cn: Case Narrative                              | 4  |                 |
| Sr: Sample Results                              | 5  | <sup>3</sup> Ss |
| MW-11 L1691041-01                               | 5  |                 |
| MW-12 L1691041-02                               | 6  | <sup>4</sup> Cn |
| MW-2 L1691041-03                                | 7  | <sup>5</sup> Sr |
| MW-5 L1691041-04                                | 8  |                 |
| DUP-1 L1691041-05                               | 9  | <sup>6</sup> Qc |
| TRIP BLANK L1691041-06                          | 10 | <sup>7</sup> Gl |
| Qc: Quality Control Summary                     | 11 |                 |
| Volatile Organic Compounds (GC) by Method 8021B | 11 | <sup>8</sup> Al |
| Gl: Glossary of Terms                           | 12 |                 |
| Al: Accreditations & Locations                  | 13 | <sup>9</sup> Sc |
| Sc: Sample Chain of Custody                     | 14 |                 |

MW-11 L1691041-01 GW

|                                                 |           |          |                          |                               |                                       |                                      |
|-------------------------------------------------|-----------|----------|--------------------------|-------------------------------|---------------------------------------|--------------------------------------|
|                                                 |           |          |                          | Collected by<br>Kimble Thrash | Collected date/time<br>12/21/23 14:00 | Received date/time<br>12/22/23 08:00 |
| Method                                          | Batch     | Dilution | Preparation<br>date/time | Analysis<br>date/time         | Analyst                               | Location                             |
| Volatile Organic Compounds (GC) by Method 8021B | WG2198956 | 1        | 12/31/23 18:53           | 12/31/23 18:53                | ACG                                   | Mt. Juliet, TN                       |

1  
Cp

2  
Tc

3  
Ss

MW-12 L1691041-02 GW

|                                                 |           |          |                          |                               |                                       |                                      |
|-------------------------------------------------|-----------|----------|--------------------------|-------------------------------|---------------------------------------|--------------------------------------|
|                                                 |           |          |                          | Collected by<br>Kimble Thrash | Collected date/time<br>12/21/23 14:55 | Received date/time<br>12/22/23 08:00 |
| Method                                          | Batch     | Dilution | Preparation<br>date/time | Analysis<br>date/time         | Analyst                               | Location                             |
| Volatile Organic Compounds (GC) by Method 8021B | WG2198956 | 1        | 12/31/23 19:16           | 12/31/23 19:16                | ACG                                   | Mt. Juliet, TN                       |

4  
Cn

5  
Sr

MW-2 L1691041-03 GW

|                                                 |           |          |                          |                               |                                       |                                      |
|-------------------------------------------------|-----------|----------|--------------------------|-------------------------------|---------------------------------------|--------------------------------------|
|                                                 |           |          |                          | Collected by<br>Kimble Thrash | Collected date/time<br>12/21/23 11:55 | Received date/time<br>12/22/23 08:00 |
| Method                                          | Batch     | Dilution | Preparation<br>date/time | Analysis<br>date/time         | Analyst                               | Location                             |
| Volatile Organic Compounds (GC) by Method 8021B | WG2198956 | 1        | 12/31/23 19:39           | 12/31/23 19:39                | ACG                                   | Mt. Juliet, TN                       |

6  
Qc

7  
Gl

8  
Al

MW-5 L1691041-04 GW

|                                                 |           |          |                          |                               |                                       |                                      |
|-------------------------------------------------|-----------|----------|--------------------------|-------------------------------|---------------------------------------|--------------------------------------|
|                                                 |           |          |                          | Collected by<br>Kimble Thrash | Collected date/time<br>12/21/23 13:00 | Received date/time<br>12/22/23 08:00 |
| Method                                          | Batch     | Dilution | Preparation<br>date/time | Analysis<br>date/time         | Analyst                               | Location                             |
| Volatile Organic Compounds (GC) by Method 8021B | WG2198956 | 1        | 12/31/23 20:01           | 12/31/23 20:01                | ACG                                   | Mt. Juliet, TN                       |

9  
Sc

DUP-1 L1691041-05 GW

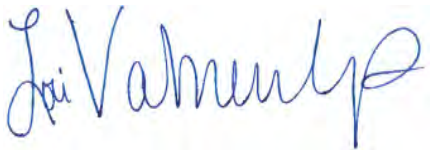
|                                                 |           |          |                          |                               |                                       |                                      |
|-------------------------------------------------|-----------|----------|--------------------------|-------------------------------|---------------------------------------|--------------------------------------|
|                                                 |           |          |                          | Collected by<br>Kimble Thrash | Collected date/time<br>12/21/23 14:56 | Received date/time<br>12/22/23 08:00 |
| Method                                          | Batch     | Dilution | Preparation<br>date/time | Analysis<br>date/time         | Analyst                               | Location                             |
| Volatile Organic Compounds (GC) by Method 8021B | WG2198956 | 1        | 12/31/23 20:24           | 12/31/23 20:24                | ACG                                   | Mt. Juliet, TN                       |

TRIP BLANK L1691041-06 GW

|                                                 |           |          |                          |                               |                                       |                                      |
|-------------------------------------------------|-----------|----------|--------------------------|-------------------------------|---------------------------------------|--------------------------------------|
|                                                 |           |          |                          | Collected by<br>Kimble Thrash | Collected date/time<br>12/21/23 00:00 | Received date/time<br>12/22/23 08:00 |
| Method                                          | Batch     | Dilution | Preparation<br>date/time | Analysis<br>date/time         | Analyst                               | Location                             |
| Volatile Organic Compounds (GC) by Method 8021B | WG2198956 | 1        | 12/31/23 13:13           | 12/31/23 13:13                | ACG                                   | 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

pH outside of method requirement.

| Lab Sample ID               | Project Sample ID     | Method |
|-----------------------------|-----------------------|--------|
| <a href="#">L1691041-01</a> | <a href="#">MW-11</a> | 8021B  |
| <a href="#">L1691041-04</a> | <a href="#">MW-5</a>  | 8021B  |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 12/21/23 14:00

L1691041

Volatile Organic Compounds (GC) by Method 8021B

| Analyte                            | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene                            | U              |           | 0.000190    | 0.000500    | 1        | 12/31/2023 18:53        | <a href="#">WG2198956</a> |
| Toluene                            | U              |           | 0.000412    | 0.00100     | 1        | 12/31/2023 18:53        | <a href="#">WG2198956</a> |
| Ethylbenzene                       | U              |           | 0.000160    | 0.000500    | 1        | 12/31/2023 18:53        | <a href="#">WG2198956</a> |
| Total Xylene                       | 0.00107        | J         | 0.000510    | 0.00150     | 1        | 12/31/2023 18:53        | <a href="#">WG2198956</a> |
| (S)<br>a,a,a-Trifluorotoluene(PID) | 95.1           |           |             | 79.0-125    |          | 12/31/2023 18:53        | <a href="#">WG2198956</a> |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 12/21/23 14:55

L1691041

Volatile Organic Compounds (GC) by Method 8021B

| Analyte                            | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene                            | 0.000235       | J         | 0.000190    | 0.000500    | 1        | 12/31/2023 19:16        | <a href="#">WG2198956</a> |
| Toluene                            | U              |           | 0.000412    | 0.00100     | 1        | 12/31/2023 19:16        | <a href="#">WG2198956</a> |
| Ethylbenzene                       | U              |           | 0.000160    | 0.000500    | 1        | 12/31/2023 19:16        | <a href="#">WG2198956</a> |
| Total Xylene                       | 0.00245        |           | 0.000510    | 0.00150     | 1        | 12/31/2023 19:16        | <a href="#">WG2198956</a> |
| (S)<br>a,a,a-Trifluorotoluene(PID) | 94.0           |           |             | 79.0-125    |          | 12/31/2023 19:16        | <a href="#">WG2198956</a> |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 12/21/23 11:55

L1691041

Volatile Organic Compounds (GC) by Method 8021B

| Analyte                            | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene                            | U              |           | 0.000190    | 0.000500    | 1        | 12/31/2023 19:39        | <a href="#">WG2198956</a> |
| Toluene                            | U              |           | 0.000412    | 0.00100     | 1        | 12/31/2023 19:39        | <a href="#">WG2198956</a> |
| Ethylbenzene                       | U              |           | 0.000160    | 0.000500    | 1        | 12/31/2023 19:39        | <a href="#">WG2198956</a> |
| Total Xylene                       | U              |           | 0.000510    | 0.00150     | 1        | 12/31/2023 19:39        | <a href="#">WG2198956</a> |
| (S)<br>a,a,a-Trifluorotoluene(PID) | 96.1           |           |             | 79.0-125    |          | 12/31/2023 19:39        | <a href="#">WG2198956</a> |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 12/21/23 13:00

L1691041

Volatile Organic Compounds (GC) by Method 8021B

| Analyte                            | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene                            | 0.000834       |           | 0.000190    | 0.000500    | 1        | 12/31/2023 20:01        | <a href="#">WG2198956</a> |
| Toluene                            | U              |           | 0.000412    | 0.00100     | 1        | 12/31/2023 20:01        | <a href="#">WG2198956</a> |
| Ethylbenzene                       | U              |           | 0.000160    | 0.000500    | 1        | 12/31/2023 20:01        | <a href="#">WG2198956</a> |
| Total Xylene                       | U              |           | 0.000510    | 0.00150     | 1        | 12/31/2023 20:01        | <a href="#">WG2198956</a> |
| (S)<br>a,a,a-Trifluorotoluene(PID) | 93.8           |           |             | 79.0-125    |          | 12/31/2023 20:01        | <a href="#">WG2198956</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 12/21/23 14:56

L1691041

Volatile Organic Compounds (GC) by Method 8021B

| Analyte                            | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene                            | 0.000248       | J         | 0.000190    | 0.000500    | 1        | 12/31/2023 20:24        | <a href="#">WG2198956</a> |
| Toluene                            | U              |           | 0.000412    | 0.00100     | 1        | 12/31/2023 20:24        | <a href="#">WG2198956</a> |
| Ethylbenzene                       | U              |           | 0.000160    | 0.000500    | 1        | 12/31/2023 20:24        | <a href="#">WG2198956</a> |
| Total Xylene                       | 0.00241        |           | 0.000510    | 0.00150     | 1        | 12/31/2023 20:24        | <a href="#">WG2198956</a> |
| (S)<br>a,a,a-Trifluorotoluene(PID) | 93.8           |           |             | 79.0-125    |          | 12/31/2023 20:24        | <a href="#">WG2198956</a> |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 12/21/23 00:00

L1691041

Volatile Organic Compounds (GC) by Method 8021B

| Analyte                            | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene                            | U              |           | 0.000190    | 0.000500    | 1        | 12/31/2023 13:13        | <a href="#">WG2198956</a> |
| Toluene                            | U              |           | 0.000412    | 0.00100     | 1        | 12/31/2023 13:13        | <a href="#">WG2198956</a> |
| Ethylbenzene                       | U              |           | 0.000160    | 0.000500    | 1        | 12/31/2023 13:13        | <a href="#">WG2198956</a> |
| Total Xylene                       | U              |           | 0.000510    | 0.00150     | 1        | 12/31/2023 13:13        | <a href="#">WG2198956</a> |
| (S)<br>a,a,a-Trifluorotoluene(PID) | 95.6           |           |             | 79.0-125    |          | 12/31/2023 13:13        | <a href="#">WG2198956</a> |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R4019601-2 12/31/23 12:50

| Analyte                            | MB Result<br>mg/l | MB Qualifier | MB MDL<br>mg/l | MB RDL<br>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)<br>a,a,a-Trifluorotoluene(PID) | 95.9              |              |                | 79.0-125       |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

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

(LCS) R4019601-1 12/31/23 11:42 • (LCSD) R4019601-3 12/31/23 21:10

| Analyte                            | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene                            | 0.0500               | 0.0488             | 0.0439              | 97.6          | 87.8           | 77.0-122         |               |                | 10.6     | 20              |
| Toluene                            | 0.0500               | 0.0459             | 0.0410              | 91.8          | 82.0           | 80.0-121         |               |                | 11.3     | 20              |
| Ethylbenzene                       | 0.0500               | 0.0513             | 0.0455              | 103           | 91.0           | 80.0-123         |               |                | 12.0     | 20              |
| Total Xylene                       | 0.150                | 0.148              | 0.131               | 98.7          | 87.3           | 47.0-154         |               |                | 12.2     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(PID) |                      |                    |                     | 94.5          | 94.6           | 79.0-125         |               |                |          |                 |

7  
Gl

8  
Al

9  
Sc

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

QualifierDescription

|   |                                                                                     |
|---|-------------------------------------------------------------------------------------|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
|---|-------------------------------------------------------------------------------------|

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

| Company Name/Address:<br><b>Plains All American Pipeline - ETECH</b><br>PO Box 62228<br>Midland, TX 79711                                            |           |                                                                                                                                                                    |       |                                             |      | Billing Information:<br>Accounts Payable<br>333 Clay St<br>Suite 1600<br>Houston, TX 77002<br>Email To: kimble@etechnv.com |                  |                                                    |  |  |  | <div style="text-align: right; font-size: small;">Page 1 of 1</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------------|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Report to:<br><b>Kimble Thrash</b>                                                                                                                   |           |                                                                                                                                                                    |       |                                             |      |                                                                                                                            |                  |                                                    |  |  |  | <div style="clear: both;"></div> <b>MT JULIET, TN</b><br><small>1206S Lebanon Rd Mount Juliet, TN 37122<br/>Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf</small><br>SDG # <b>L1691041</b><br><b>F104</b><br>Acctnum: <b>PLAINSETECH</b><br>Template: <b>T242882</b><br>Prelogin: <b>P1041695</b><br>PM: <b>3587 - Lori A Vahrenkamp</b><br>PB:<br>Shipped Via: <b>Courier</b> |  |  |  |  |  |
| Project Description:<br>Livingston Ridge - Hugh P. Sims                                                                                              |           |                                                                                                                                                                    |       | City/State Collected: <b>LEA COUNTY, NM</b> |      | Please Circle:<br>PT MT CT ET                                                                                              |                  |                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| Phone:<br><b>432 894 9996</b>                                                                                                                        |           | Client Project #<br><b>SRS #2001-11005</b>                                                                                                                         |       | Lab Project #<br><b>PLAINSETECH-NM GW</b>   |      |                                                                                                                            |                  |                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| Collected by (print):<br><b>KIMBLE THRASH</b>                                                                                                        |           | Site/Facility ID #<br><b>SLS#2001-11005</b>                                                                                                                        |       | P.O. #                                      |      |                                                                                                                            |                  |                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| Collected by (signature):<br>                                                                                                                        |           | Rush? (Lab MUST Be Notified)<br>Same Day _____ Five Day _____<br>Next Day _____ 5 Day (Rad Only) _____<br>Two Day _____ 10 Day (Rad Only) _____<br>Three Day _____ |       | Quote #                                     |      | Date Results Needed                                                                                                        |                  |                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| Immediately Packed on Ice N ____ Y ____                                                                                                              |           |                                                                                                                                                                    |       |                                             |      | No. of Cntrs                                                                                                               |                  |                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| Sample ID                                                                                                                                            | Comp/Grab | Matrix *                                                                                                                                                           | Depth | Date                                        | Time | No. of Cntrs                                                                                                               | BTEX 40mlAmb-HCI | BTEX 40mlAmb-HCl-Bik                               |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| MW-11                                                                                                                                                | G         | GW                                                                                                                                                                 | N/A   | 12-21-23                                    | 1400 | 3                                                                                                                          | X                |                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| MW-12                                                                                                                                                | G         | GW                                                                                                                                                                 | N/A   | 12-21-23                                    | 1455 | 3                                                                                                                          | X                |                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| <b>MW-2</b>                                                                                                                                          | G         | GW                                                                                                                                                                 | N/A   | 12-21-23                                    | 1155 | 3                                                                                                                          | X                |                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| <b>MW-5</b>                                                                                                                                          | G         | GW                                                                                                                                                                 | N/A   | 12-21-23                                    | 1300 | 3                                                                                                                          | X                |                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| DUP-1                                                                                                                                                | G         | GW                                                                                                                                                                 | N/A   | 12-21-23                                    | 1456 | 3                                                                                                                          | X                |                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| TRIP BLANK                                                                                                                                           |           | GW                                                                                                                                                                 |       |                                             |      | 1                                                                                                                          |                  | X                                                  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| <p>* Matrix:</p> SS - Soil   AIR - Air   F - Filter<br>GW - Groundwater   B - Bioassay<br>WW - WasteWater<br>DW - Drinking Water<br>OT - Other _____ |           |                                                                                                                                                                    |       |                                             |      |                                                                                                                            |                  |                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| Remarks: Order Includes: 17xGW BTEX; 1xTrip Blank                                                                                                    |           |                                                                                                                                                                    |       |                                             |      |                                                                                                                            |                  |                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| Samples returned via:<br>UPS ___ FedEx ___ Courier _____                                                                                             |           |                                                                                                                                                                    |       | Tracking # _____                            |      |                                                                                                                            |                  | pH _____ Temp _____<br>Flow _____ Other _____      |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| Relinquished by : (Signature) _____                                                                                                                  |           |                                                                                                                                                                    |       | Date: <b>12/21/23</b>                       |      | Time: <b>1631</b>                                                                                                          |                  | Received by: (Signature) _____                     |  |  |  | Trip Blank Received: Yes / No<br>HCL / MeOH TBR                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| Relinquished by : (Signature)                                                                                                                        |           |                                                                                                                                                                    |       | Date:                                       |      | Time:                                                                                                                      |                  | Received by: (Signature)                           |  |  |  | Temp: <b>DPAC 0.2+0=0.2 IS</b> Bottles Received:                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |
| Relinquished by : (Signature)                                                                                                                        |           |                                                                                                                                                                    |       | Date:                                       |      | Time:                                                                                                                      |                  | Received for lab by: (Signature) <b>Calub Tapp</b> |  |  |  | Date: <b>12/22/23</b> Time: <b>08:00</b> Hold: Condition: <b>NCF / OK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |

**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 328474

CONDITIONS

|                                                                                       |                                                                          |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Operator:<br>PLAINS MARKETING L.P.<br>333 Clay Street Suite 1900<br>Houston, TX 77002 | OGRID:                                                                   |
|                                                                                       | 34053                                                                    |
|                                                                                       | Action Number:<br>328474                                                 |
|                                                                                       | Action Type:<br>[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

CONDITIONS

| Created By       | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condition Date |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| michael.buchanan | Review of the 2023 Annual Groundwater Monitoring Report for Livingston Ridge to Hugh--P. Sims: content satisfactory 1. Continue to gauge and sample monitoring wells: MW-2, MW-5, MW-11 and MW-12 on a quarterly schedule as planned. 2. Conduct groundwater sampling for MW-7, MW-8, and MW-10 on an annual basis. 3. Conduct AFR events as prescribed to prevent down-gradient contamination. 4. Submit the 2024 annual report to the OCD by April 1, 2025. | 7/3/2024       |