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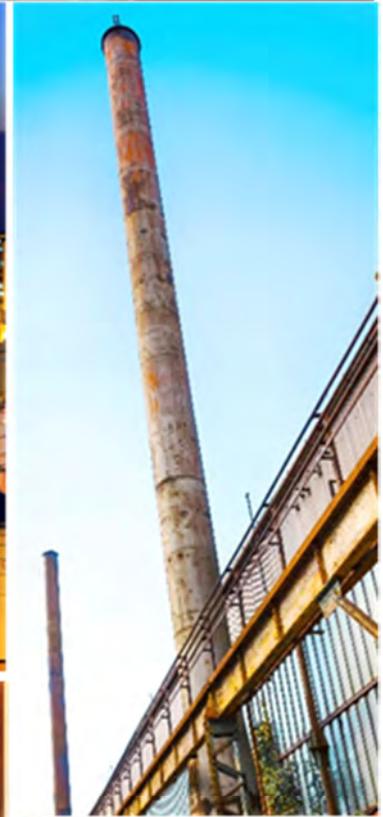
By Nelson Velez at 8:02 am, Jul 19, 2022



2021 Annual Groundwater Monitoring Report

Darr Angell #1, SRS #Darr Angell #1
NW/4, SE/4 of Section 11, T15S, R37E
Lea County, New Mexico
NMOCD AP-007
Incident ID #: nAPP2108851028

Plains All American Pipeline, L.P.



Review of 2021 Annual Groundwater Monitoring Report: Content satisfactory
Contractor recommendations approved by NMOCD and are as follows;

1. Continue the operation and maintenance of the system in various monitor and recovery wells on a weekly basis.
2. Conduct LNAPL abatement via hand-bailing on a weekly basis for monitor and recovery wells that have a measurable amount of LNAPL, but no pump installed.
3. Continue NMOCD-approved quarterly GWSEs for BTEX by Method 8021B for all monitor and recovery wells located on-site.
4. MW-11R, MW-16R, MW-21R, MW-24, and MW-25 have established 2 consecutive years below the NMWQCC criteria for PAH, therefore NMOCD approves the removal from the annual PAH sampling schedule unless they are re-impacted by LNAPL.
5. Sample monitor well MW-2 (if there is sufficient water) for PAH compounds during the fourth quarter of 2022. Additionally, sample any wells that cease to have LNAPL for PAH compounds.
6. Submit the Annual Monitoring Report to the NMOCD no later than March 31, 2023.



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1. Introduction

GHD Services, Inc. (GHD), on behalf of Plains All American Pipeline, L.P. (Plains), submits this Annual Groundwater Monitoring Report (Report) in compliance with New Mexico Oil Conservation Division (NMOCD) requirements. The Site falls under NMOCD Abatement Plan number AP-007. This Report provides the quarterly results of groundwater sampling events (GWSEs) and remediation activities completed at Darr Angell #1 SRS #Darr Angell #1 (Site) during 2021.

The Site is located in NW $\frac{1}{4}$, SE $\frac{1}{4}$, Section 11, Township 15 South, Range 37 East in Lea County, New Mexico. The GPS coordinates are 33.026600° N latitude and 103.166600° W longitude. A Site Location Map is provided as Figure 1. The remediation area and site details are depicted on Figure 2, Site Details Map.

1.1 Site History

The Site was formerly the responsibility of Enron Oil Trading and Transportation (EOTT) and is currently the responsibility of Plains. A pipeline release was discovered by EOTT employees and details were submitted on a Release Notification and Corrective Action Form (C-141) to the New Mexico Oil Conservation Division (NMOCD) on May 1, 1997. According to the release report, approximately 25 barrels of crude oil were released and 15 barrels were recovered during initial response actions. The release was reported to have occurred from an eight-inch EOTT pipeline and was attributed to internal corrosion.

Beginning on May 29, 2004, project management responsibilities were conducted by Nova Training and Environmental. Monitor wells MW-1 through MW-20 and recovery wells RW-1 through RW-10 were installed at the Site between 2000 and 2011.

GHD took over monitoring, remedial activities, and project management on May 2, 2011. A trailer-mounted mobile dual-phase extraction unit was installed and began operating at the Site in October 2012. The system included four AP4 bottom loading pumps, a vapor-liquid separator, an air compressor, a vacuum extraction manifold, and an above-ground tank for storage of extracted Light Non-Aqueous Phase Liquid (LNAPL) and groundwater.

Monitoring wells MW-17, MW-19, and MW-20 were plugged and abandoned with NMOCD approval in October 2014. Replacement monitoring wells MW-17R, MW-19R, and MW-20R, and recovery wells RW-13 and RW-14 were drilled and constructed with NMOCD approval in October 2014. Wells installed in 2014 were professionally surveyed on November 11, 2014.

Monitoring wells MW-12, MW-15, MW-16 and MW-18 were plugged and abandoned with NMOCD approval in February 2017. Monitoring and recovery wells MW-12R, MW-16R, MW-18R, MW-22, MW-23, and RW-12 were installed with NMOCD approval in February 2017. Wells installed in 2017 were professionally surveyed on June 28, 2017.

In July 2019, a Work Plan for Installation of Additional Wells and Plugging Dry Wells was submitted to the NMOCD. The work plan proposed to plug and abandon five monitor wells and two recovery wells and installing four new monitor wells and six new recovery wells. The work plan was proposed because fluid levels in several wells had declined making LNAPL recovery no longer feasible and



delineation of the contaminant plume could no longer be demonstrated using the existing wells. On February 19, 2020, monitor wells MW-3, MW-11, MW-13, MW-14, and MW-21 and recovery wells RW-1 and RW-2 were plugged and abandoned. From February 26 through March 3, 2020, monitoring and recovery wells MW-11R, MW-21R, MW-24, MW-25, RW-1R, and RW-15 through RW-19 were installed at the site.

Currently at the site there are twenty-one (21) monitor wells, MW-1, MW-2, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11R, MW-12R, MW-16R, MW-17R, MW-18R, MW-19R, MW-20R, MW-21R, MW-22, MW-23, MW-24, and MW-25, and eighteen (18) recovery wells, RW-1R, RW-3, RW-4, RW-5, RW-6, RW-7, RW-8, RW-9, RW-10, RW-11, RW-12, RW-13, RW-14, RW-15, RW-16, RW-17, RW-18 and RW-19. The new well locations were professionally surveyed on September 17, 2020.

2. Regulatory Framework

The Site was assigned Remediation Permit Number AP-007 by the NMOCD. The NMOCD guidelines require groundwater to be analyzed for potential contaminants as defined by the New Mexico Water Quality Control Commission (NMWQCC) Standards 20.6.2.3103 Section A, which provide Human Health Standards for Groundwater. The constituents of concern (COCs) in affected groundwater at the Site are benzene, toluene, ethylbenzene, and total xylenes (BTEX); benzo(a)pyrene; and combined naphthalene and monomethylnaphthalenes. NMWQCC standards as shown in Table 2.1 are used to guide assessment and remediation of the Site:

Table 2.1 NMWQCC Human Health Standards

| Analyte | NMWQCC Human Health Standard |
|---|------------------------------|
| Benzene | 0.01 mg/L |
| Toluene | 0.75 mg/L |
| Ethylbenzene | 0.75 mg/L |
| Total Xylenes | 0.62 mg/L |
| Benzo(a)pyrene | 0.0002 mg/L |
| Combined Naphthalene and Monomethylnaphthalenes | 0.03 mg/L |



3. 2021 Groundwater Sampling Events

GHD conducted quarterly GWSEs for 21 monitor wells and 18 recovery wells located on-site. Sample locations can be viewed in the Site Details Map provided as Figure 2. All on-site monitor and recovery wells were sampled in accordance with the following groundwater sampling schedule as approved by the NMOCD:

Table 3.1 NMOCD-Approved Groundwater Sampling Schedule

| Sample Location ID | Groundwater Sampling Schedule |
|--|-------------------------------|
| MW-1, MW-2, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11R, MW-12R, MW-16R, MW-17R, MW-18R, MW-19R, MW-20R, MW-21R, MW-22, MW-23, MW-24, MW-25, RW-1R, RW-3, RW-4, RW-5, RW-6, RW-7, RW-8, RW-9, RW-10, RW-11, RW-12, RW-13, RW-14, RW-15, RW-16, RW-17, RW-18, RW-19 | Quarterly |
| MW-7 | Semi-Annually |
| MW-4 | Annually |

MW-1, MW-5, MW-8, MW-9, MW-10, MW-11R, MW-16R, MW-21R, MW-24, MW-25, RW-4, RW-5, RW-6, RW-7, RW-8, RW-9, RW-10, and RW-11 were sampled in accordance with the NMOCD's email correspondence to Plains, dated December 12, 2012, regarding polycyclic aromatic hydrocarbons (PAH) which provided the following directive:

“Annual sampling of wells that have BTEX concentrations above the respective NMWQCC standard; wells where LNAPL has been removed and is no longer present; and continued sampling of each well for at least two consecutive years until each of the PAHs are at a concentration of 0.001 mg/L or less (for PAHs that do not have a NMWQCC standard) and at or below NMWQCC standard for PAHs that have a standard (if applicable).”

3.1 Groundwater Sampling Methodology

Static fluid levels were gauged with an oil-water interface probe to the nearest hundredth of a foot for all on-site monitor and recovery wells. Wells not containing LNAPL with sufficient water for sampling were purged of three (3) well volumes of groundwater. Hand-bailing, using clean disposable polyvinyl chloride (PVC) bailers, was the method used for groundwater purging. The purged groundwater was stored in an above-ground storage tank (AST) located at the Site.

Laboratory-supplied containers were filled with groundwater directly from the PVC bailer used for purging, then placed on ice and chilled to a temperature of approximately 4° C. All groundwater samples were analyzed for BTEX by Method 8021B. A duplicate sample was generally collected every 12 wells and analyzed for BTEX by Method 8021B. During the fourth quarter of 2021, select sample locations were analyzed for PAH by Method 8270C-SIM. All groundwater samples were analyzed by Pace Analytical Laboratory in Mt. Juliet, Tennessee. Certified Laboratory Reports and Chain-of-Custody are provided in Appendix C. Monitor and recovery wells containing measurable amounts of light-aqueous phase liquids (LNAPL) were not sampled.



3.2 Laboratory Analytical Results Summary

BTEX analytical results for GWSEs conducted during 2020 and 2021 are included on Table 2, BTEX Analytical Results for Groundwater Sampling Events 2020-2021. BTEX concentrations for the quarterly GWSEs conducted in 2021 are shown on Figure 7, Figure 8, Figure 9, and Figure 10. A summary of PAH analytical results is shown on Table 3, Polycyclic Aromatic Hydrocarbons Analytical Results. All analytical results are summarized using the NMWQCC Human Health Standards found in Table 2.1.

3.2.1 First Quarter Summary

On February 22, 2021, GHD collected groundwater samples for 13 monitor wells and 1 recovery well. Approximately 129 gallons (gals) of groundwater were purged and stored in the on-site AST. None of the Site wells exhibited BTEX concentrations above the NMWQCC criteria. Results for the analyses of the initial and field duplicate groundwater samples collected at MW-6 and MW-16R were within acceptable ranges.

No groundwater samples were collected at MW-1, MW-5, MW-8, MW-9, MW-10, MW-23, RW-1R, RW-3, RW-4, RW-7, RW-9, RW-10, RW-11, RW-13, RW-14, RW-15, RW-16, RW-17, RW-18, and RW-19 due to measurable amounts of LNAPL gauged in the wells. RW-5, RW-6, and RW-8 were not sampled due to having an insufficient amount of groundwater.

3.2.2 Second Quarter Summary

On May 14, 2021, GHD collected groundwater samples for 13 monitor wells and 1 recovery well. Approximately 131 gals of groundwater were purged and stored in the on-site AST. None of the Site wells exhibited BTEX concentrations above the NMWQCC criteria. Ethylbenzene and xylene was detected in the initial groundwater sample at a concentration below the NMWQCC criteria in MW-12R, but was not detected in the field duplicate. GHD determined this difference was negligible, therefore did not implement any corrective actions. MW-21R exhibited ethylbenzene in both the parent and duplicate sample. Results for the analyses of the initial and field duplicate groundwater samples were within acceptable ranges for benzene, toluene, and total xylenes.

No groundwater samples were collected at MW-1, MW-5, MW-8, MW-9, MW-10, MW-23, RW-1R, RW-4, RW-5, RW-7, RW-9, RW-10, RW-11, RW-13, RW-14, RW-15, RW-16, RW-17, RW-18, and RW-19 due to measurable amounts of LNAPL gauged in the wells. MW-2, MW-10, RW-3, RW-6, and RW-8 were not sampled due to having an insufficient amount of groundwater. MW-7 was sampled as part of the NMOCD-approved semi-annual schedule.

3.2.3 Third Quarter Summary

On August 11, 2021, GHD collected groundwater samples for 13 monitor wells and 1 recovery well. Approximately 124 gals of groundwater were purged and stored in the on-site AST. Analytical results indicated benzene concentrations above 0.01 mg/L in MW-2, with no other Site wells exceeding the benzene standard. None of the Site wells exhibited toluene, ethylbenzene, or total xylenes concentrations above the NMWQCC criteria. Results for the analyses of the initial and field duplicate groundwater samples were within acceptable ranges.



No groundwater samples were collected at MW-1, MW-5, MW-8, MW-9, MW-23, RW-1R, RW-4, RW-7, RW-9, RW-10, RW-11, RW-13, RW-14, RW-15, RW-16, RW-17, RW-18, and RW-19 due to measurable amounts of LNAPL gauged in the wells. MW-10, RW-3, RW-5, RW-6, and RW-8 were not sampled due to having an insufficient amount of groundwater.

3.2.4 Fourth Quarter Summary

On November 11, 2021, GHD collected groundwater samples for 14 monitor wells and 1 recovery well. Approximately 119 gals of groundwater were purged and stored into the on-site AST. Analytical results indicated benzo(a)pyrene concentrations above 0.0002 mg/L, along with combined naphthalene and monomethylnaphthalenes concentrations above 0.03 mg/L, in MW-2; with no other Site wells exceeding the PAH standards. None of the Site wells exhibited BTEX concentrations above the NMWQCC criteria. Benzene, toluene, and ethylbenzene were detected in the field duplicate at concentrations below the NMWQCC criteria, but not detected in the initial groundwater sample, at MW-2. GHD determined this difference was negligible, therefore did not implement any corrective actions. Results for the analyses of the initial and field duplicate groundwater samples were within acceptable ranges for total xylenes.

No groundwater samples were collected at MW-1, MW-5, MW-8, MW-23, RW-1R, RW-4, RW-7, RW-9, RW-11, RW-13, RW-14, RW-15, RW-16, RW-17, RW-18, and RW-19 due to measurable amounts of LNAPL gauge in the wells. MW-4, MW-9, MW-10, RW-3, RW-5, RW-6, RW-8, and RW-10 were not sampled due to having an insufficient amount of groundwater. MW-7 was sampled as part of the NMOCD-approved schedule for semi-annual and annual sampling, respectively.

4. Potentiometric Surface and Gradient Summary

During the quarterly GWSEs, GHD conducted gauging events prior to the groundwater sample collection. All fluid level measurements were from tops of casings which were professionally surveyed. Elevations of the potentiometric surface were calculated using a specific gravity of 0.81 of LNAPL, where present. Groundwater flow is generally toward the southeast, which is consistent with historical data. The average gradient of the potentiometric surface during 2021 is 0.0014 feet per foot (ft./ft.). The annual elevation of the potentiometric surface indicates an average decline of 0.17 ft. during 2021. Monthly gauging and elevation of the potentiometric surface data for 2020-2021 are provided in Table 1. Quarterly groundwater gradient maps are provided as Figure 3, Figure 4, Figure 5, and Figure 6.

5. Remediation Activities

Remediation at the Site consists of recovery of soil-vapor by a trailer-mounted automated system which also operated total-fluid pumps in a number of wells. Fluids recovered are transferred to an on-site AST from which fluids are periodically removed for disposal at a licensed facility per directives of Plains. Fluid levels in the AST are gauged periodically to calculate total volumes of fluids recovered at the site. Total volumes recovered less amounts removed for disposal indicate that approximately 1,251.35 gallons of LNAPL were recovered during 2021.



The trailer-mounted groundwater system operated at the Site for a total of 215 days during 2021. The system operates three pumps which are moved between various wells on a quarterly basis based on an assessment of LNAPL thicknesses during gauging events. Soil vapor and total fluids were recovered from RW-1R, RW-13, RW-14, RW-16, and RW-18 during 2021. GHD personnel conducted operation and maintenance (O&M) activities each week to maintain efficient soil vapor and fluid recovery. O&M activities included inspections of well-heads and flow lines, servicing pneumatic total fluid pumps and air compressor, adjustment of depths of total fluid pumps, and gauging of recovered fluids in the storage tank, and general housekeeping tasks.

Samples of emissions from the remediation system were collected on March 15, June 21, August 30 and December 6, 2021, and used to calculate emission rates and total emissions from the remediation system. Using a standard flow rate of 40 cubic ft. per minute, the maximum rate of emissions during 2021 was 4.3710 TPH lb./hour. Total mass of emissions during 2021 was 7.69 tons of TPH, which is below the 10 ton per year limit.

The total volume of LNAPL recovered since the start of the LNAPL abatement program in 1999 is approximately 84,874.09 gallons (2020.81 barrels).

6. Summary of Findings

Based on GWSE and remedial activities performed at the Site in 2021, the following summary of findings is presented:

- Wells MW-4, MW-9, MW-10, RW-3, RW-5, RW-6, RW-8, and RW-10 are dry wells.
- Groundwater flow direction is toward the southeast and is consistent with previous monitoring events. The average gradient of the potentiometric surface during 2021 is 0.0014 feet per foot (ft./ft.).
- The annual elevation of the potentiometric surface indicates an average decline of 0.17 ft. during 2021.
- LNAPL was present at 6 monitor wells (MW-1, MW-5, MW-8, MW-9, MW-10, and MW-23) and 15 recovery wells (RW-1R, RW-3, RW-4, RW-5, RW-7, RW-9, RW-10, RW-11, RW-13, RW-14, RW-15, RW-16, RW-17, RW-18, and RW-19). The average LNAPL thickness is 4.19 ft. The maximum LNAPL thickness was at RW-16 in February 2021, which was 9.27 ft. The minimum LNAPL thickness was at RW-09 in May 2021, which was 0.19 ft. Charts of LNAPL Thickness Versus Time are provided in Appendix A.
 - MW-10, RW-3, RW-6, RW-8, and RW-10 historically have LNAPL at TD; but have gauged dry since March 2021, May 2021, August 2020, January 2021, and October 2021, respectively.
- Pumps are currently operating in RW-13, RW-16, and RW-18.
- No benzene concentrations are consistently above NMWQCC criteria. Charts of Dissolved Benzene Versus Time are provided in Appendix B.



- In 2021, benzene concentrations for MW-2 exceed NMWQCC criteria in August, but not in any other quarterly GWSE. Data for this well varies between below and above NMWQCC criteria. Historically, MW-2 has contained measurable amounts of LNAPL, but no LNAPL has been observed since August of 2018.
- MW-6, MW-7, and RW-12 historically had benzene concentrations exceeding NMWQCC criteria, but all the groundwater samples have exhibited BTEX concentrations below the NMWQCC criteria since September 2020, November 2020, and August 2018, respectively.
- MW-23 had benzene concentrations above the NMWQCC criteria in March 2017, but that was the only GWSE GHD was able to collect groundwater samples. The well has had a measurable amount of LNAPL present subsequent to the March 2017 sampling event. The LNAPL thickness has been increasing since May 2017 and have risen above 5 ft. in 2021.
- Fluctuations in the elevation of the potentiometric surface can be attributed to the on-site removal of groundwater and LNAPL.
- MW-11R, MW-16R, MW-21R, MW-24, and MW-25 have established 2 consecutive years below the NMWQCC criteria for PAH. MW-9, MW-10, RW-3, RW-5, RW-6, RW-8, and RW-10 cannot be sampled due to being dry.
- The total volume of LNAPL recovered since the start of the LNAPL abatement program in 1999 is approximately 84,874.09 gallons (2020.81 barrels).

7. Recommendations

Based upon the data and conclusions presented in this Report, the following are recommended for 2022:

- Continue the operation and maintenance of the system in various monitor and recovery wells on a weekly basis.
- Conduct LNAPL abatement via hand-bailing on a weekly basis for monitor and recovery wells that have a measurable amount of LNAPL, but no pump installed.
- Continue NMOCD-approved quarterly GWSEs for BTEX by Method 8021B for all monitor and recovery wells located on-site.
- MW-11R, MW-16R, MW-21R, MW-24, and MW-25 have established 2 consecutive years below the NMWQCC criteria for PAH, therefore these wells will be removed from the annual PAH sampling schedule unless they are re-impacted by LNAPL. Monitor well MW-2 (if there is sufficient water) will be sampled for PAH compounds during the fourth quarter of 2022. Additionally, any wells that cease to have LNAPL will be sampled for PAH compounds.



All of Which is Respectfully Submitted,

GHD

A handwritten signature in blue ink that reads "Rebecca Haskell".

Rebecca Haskell

Senior project Manager

A handwritten signature in blue ink that reads "Thomas Larson".

Tom Larson

Midland Operations Manger



about GHD

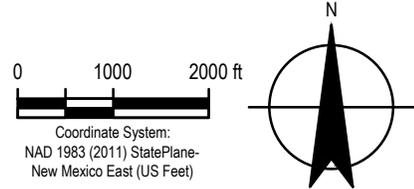
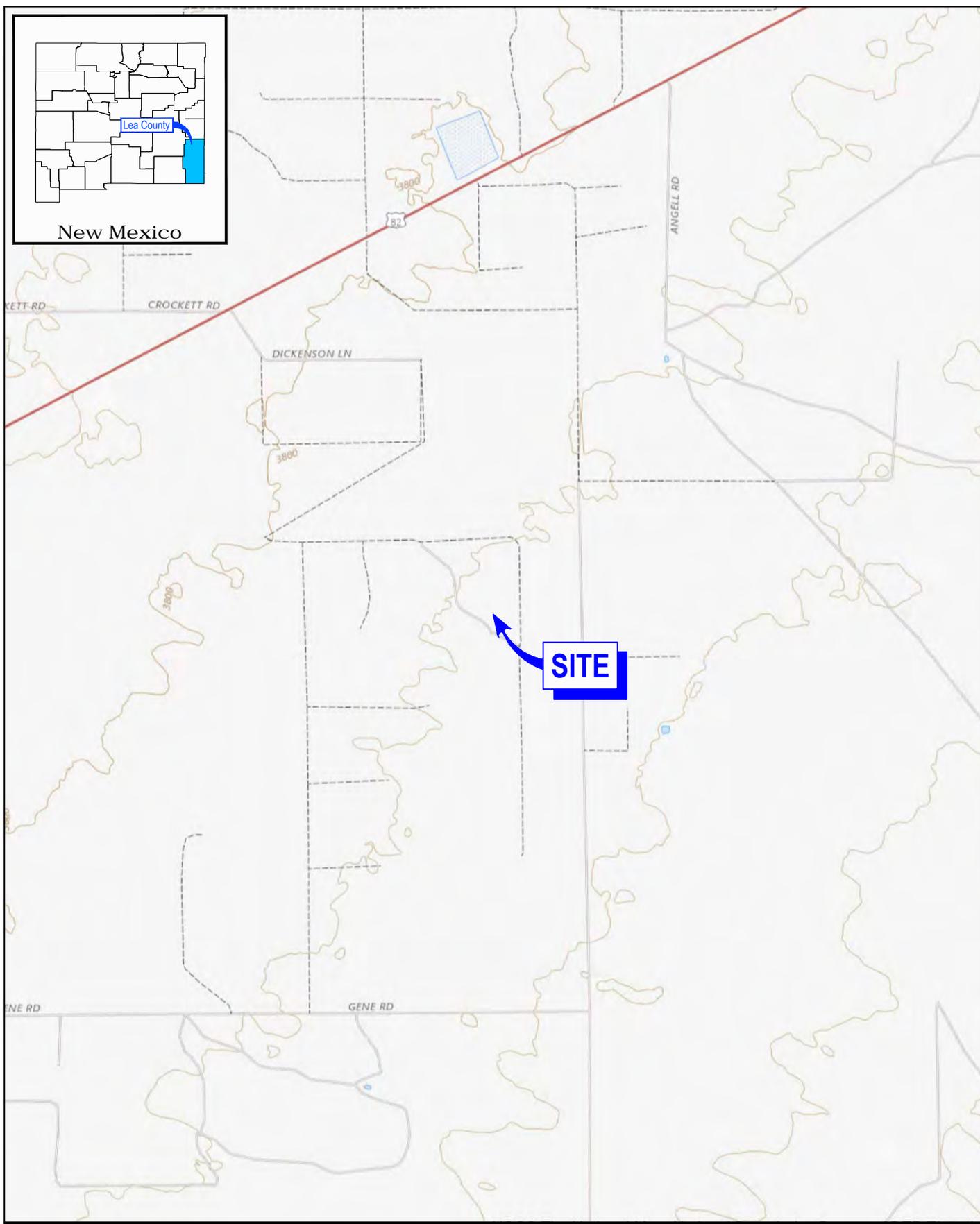
GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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Figures

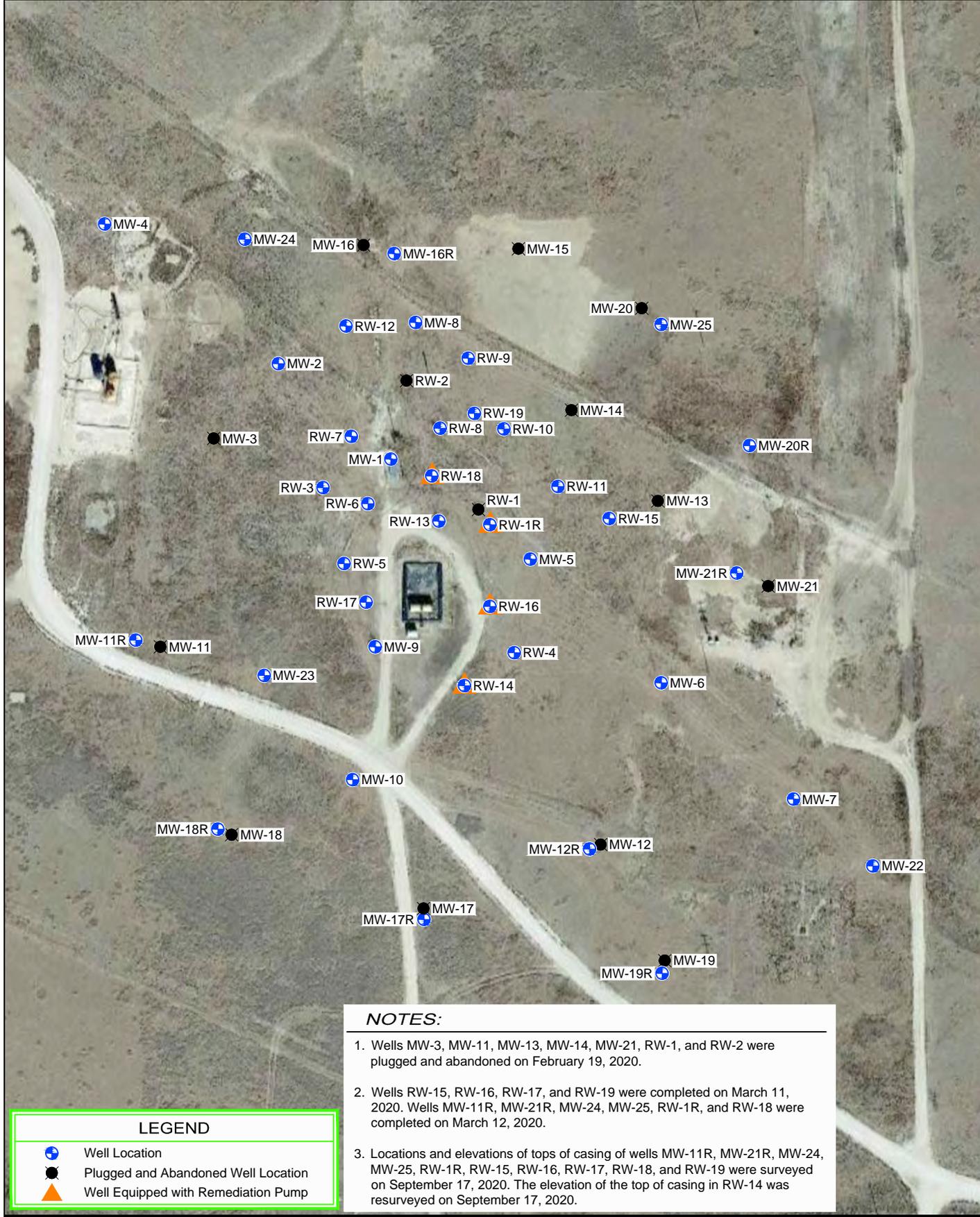


PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DARR ANGELL No.1

Project No. 11209885
Date May 2021

SITE LOCATION MAP

FIGURE 1



NOTES:

1. Wells MW-3, MW-11, MW-13, MW-14, MW-21, RW-1, and RW-2 were plugged and abandoned on February 19, 2020.
2. Wells RW-15, RW-16, RW-17, and RW-19 were completed on March 11, 2020. Wells MW-11R, MW-21R, MW-24, MW-25, RW-1R, and RW-18 were completed on March 12, 2020.
3. Locations and elevations of tops of casing of wells MW-11R, MW-21R, MW-24, MW-25, RW-1R, RW-15, RW-16, RW-17, RW-18, and RW-19 were surveyed on September 17, 2020. The elevation of the top of casing in RW-14 was resurveyed on September 17, 2020.

LEGEND

- Well Location
- Plugged and Abandoned Well Location
- Well Equipped with Remediation Pump

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

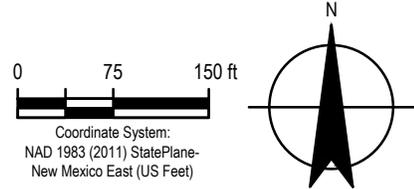
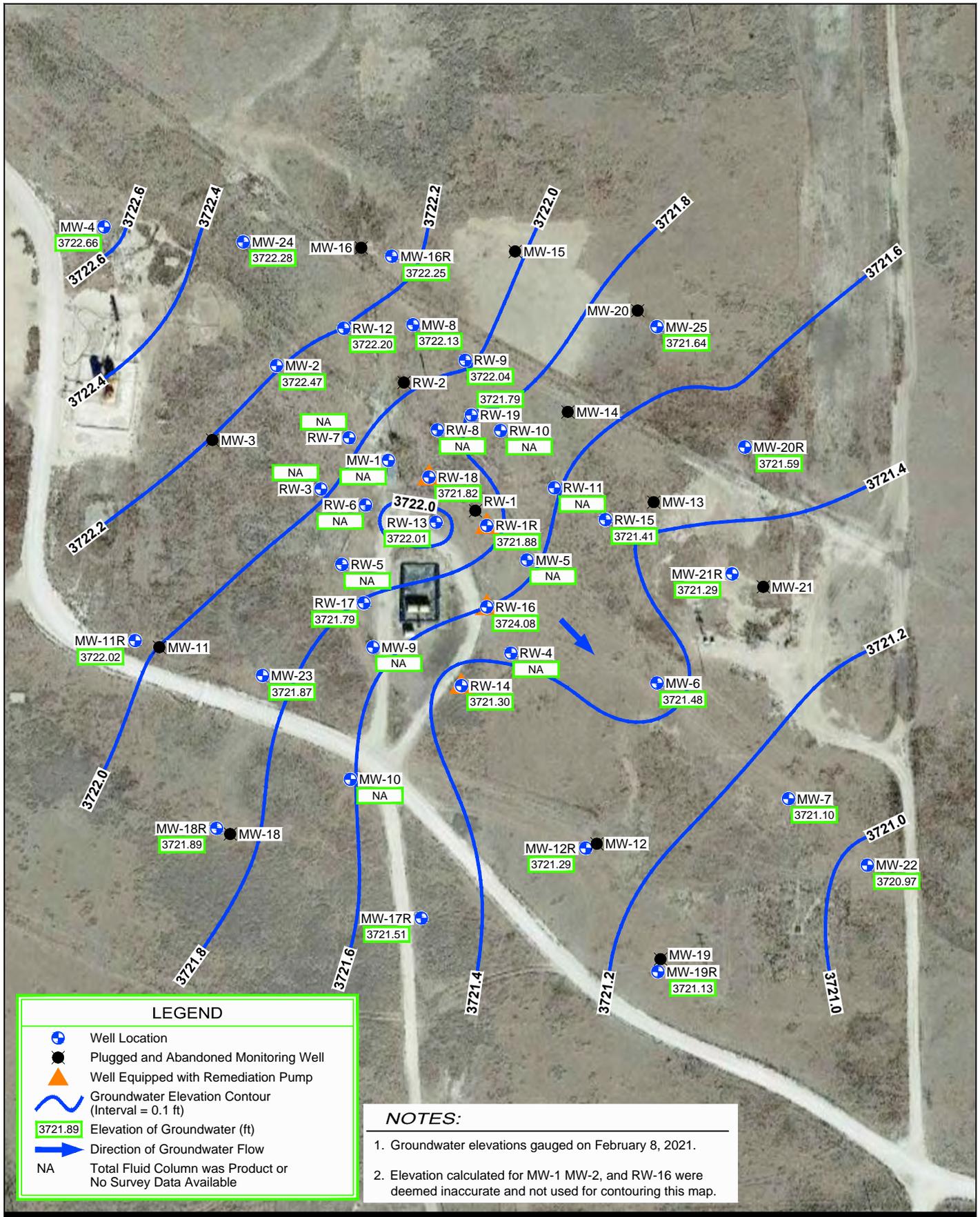


PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DARR ANGELL No.1

SITE DETAILS MAP

Project No. **11209885**
 Date **May 2021**

FIGURE 2

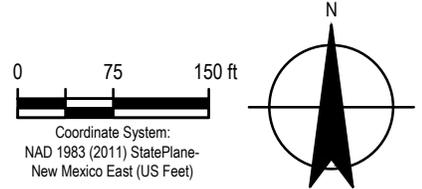
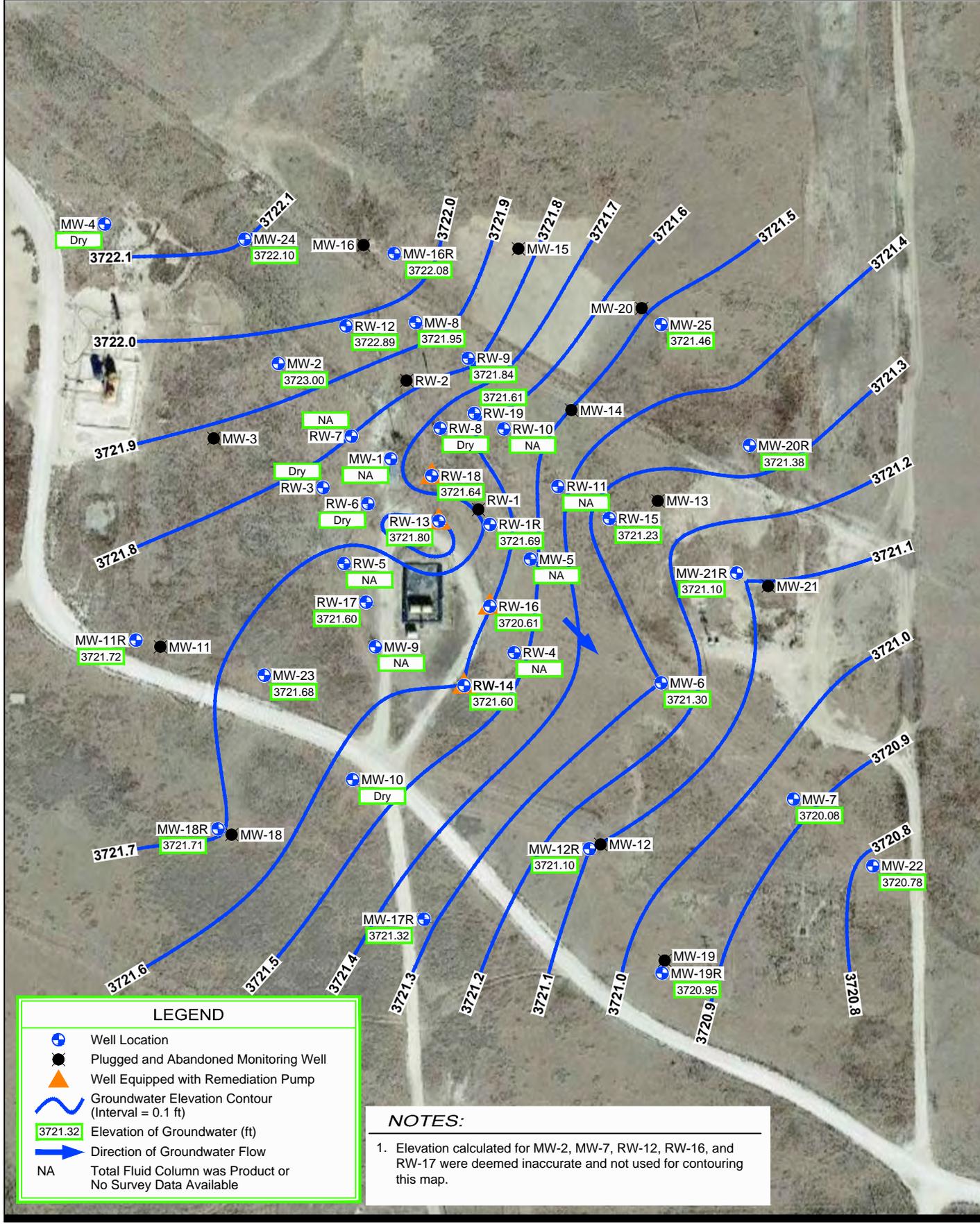


PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DARR ANGELL No.1

GROUNDWATER GRADIENT MAP
FEBRUARY 8, 2021

Project No. 11209885
Date January 2022

FIGURE 3

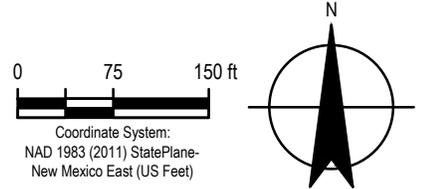
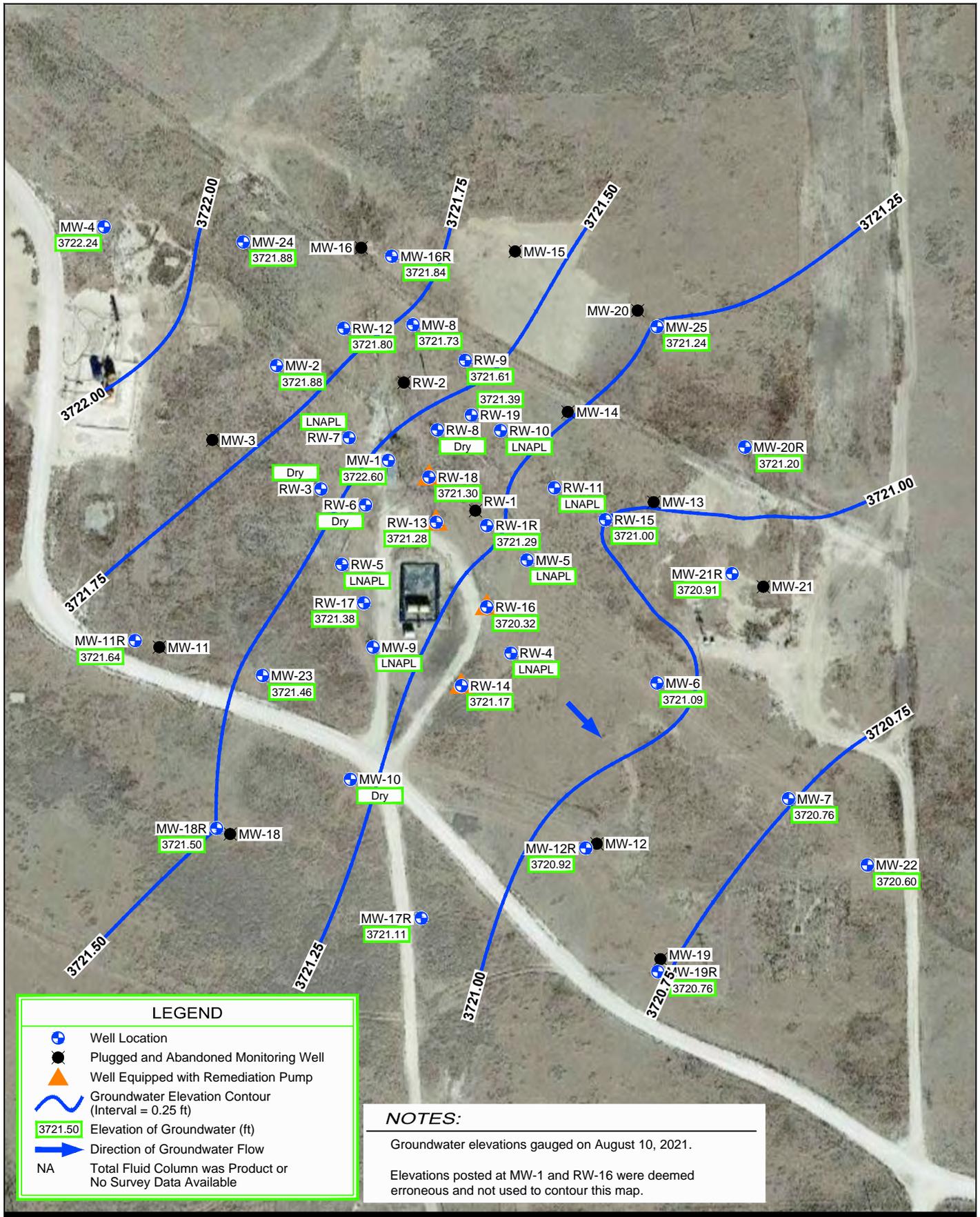


PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DARR ANGELL No.1

GROUNDWATER GRADIENT MAP
MAY 10, 2021

Project No. 11209885
Date October 2021

FIGURE 4

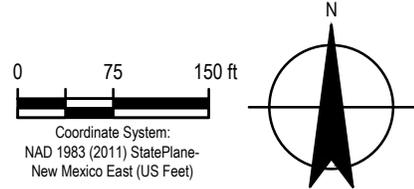
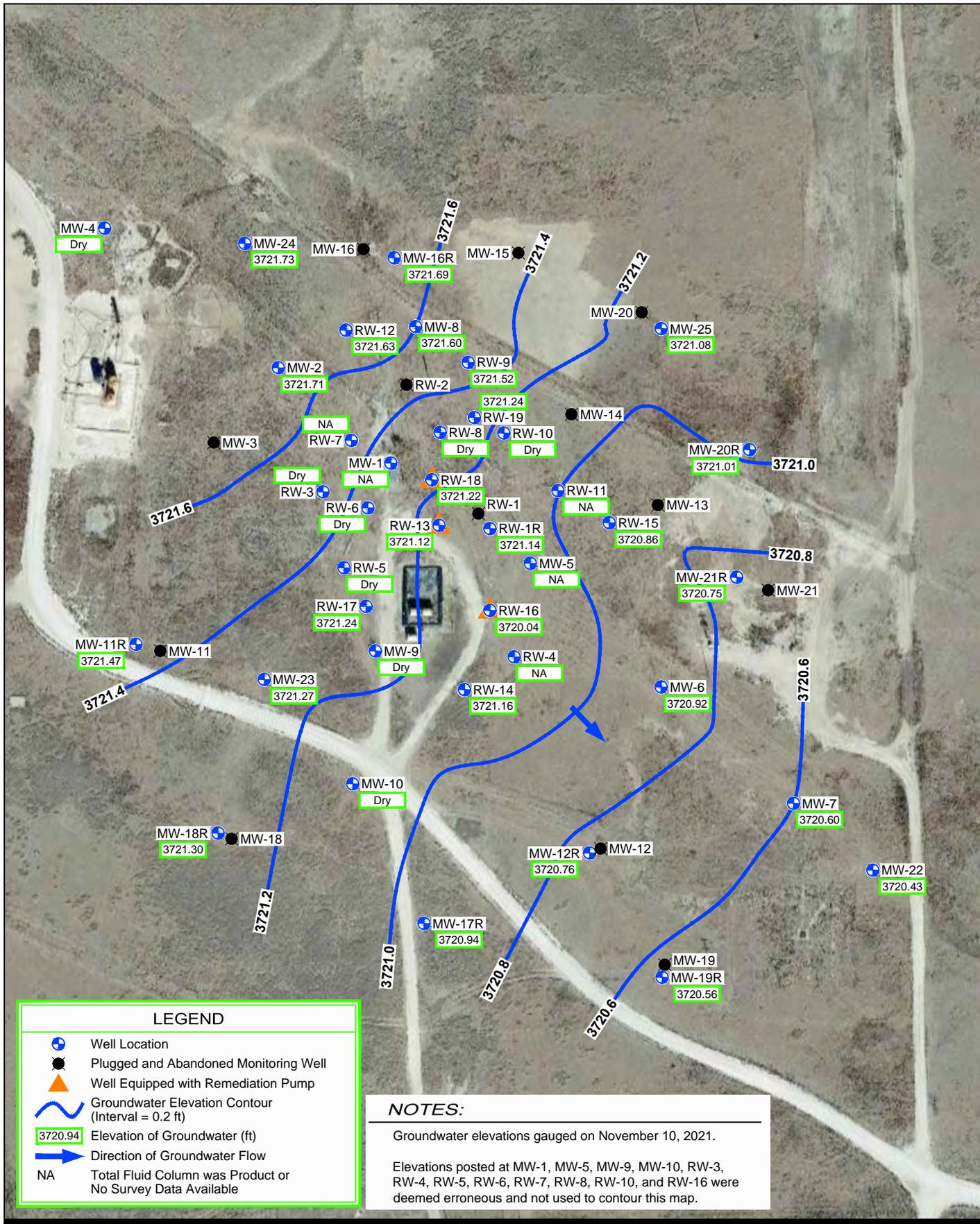


PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DARR ANGELL No.1

**GROUNDWATER GRADIENT MAP
AUGUST 10, 2021**

Project No. 11209885
Date October 2021

FIGURE 5

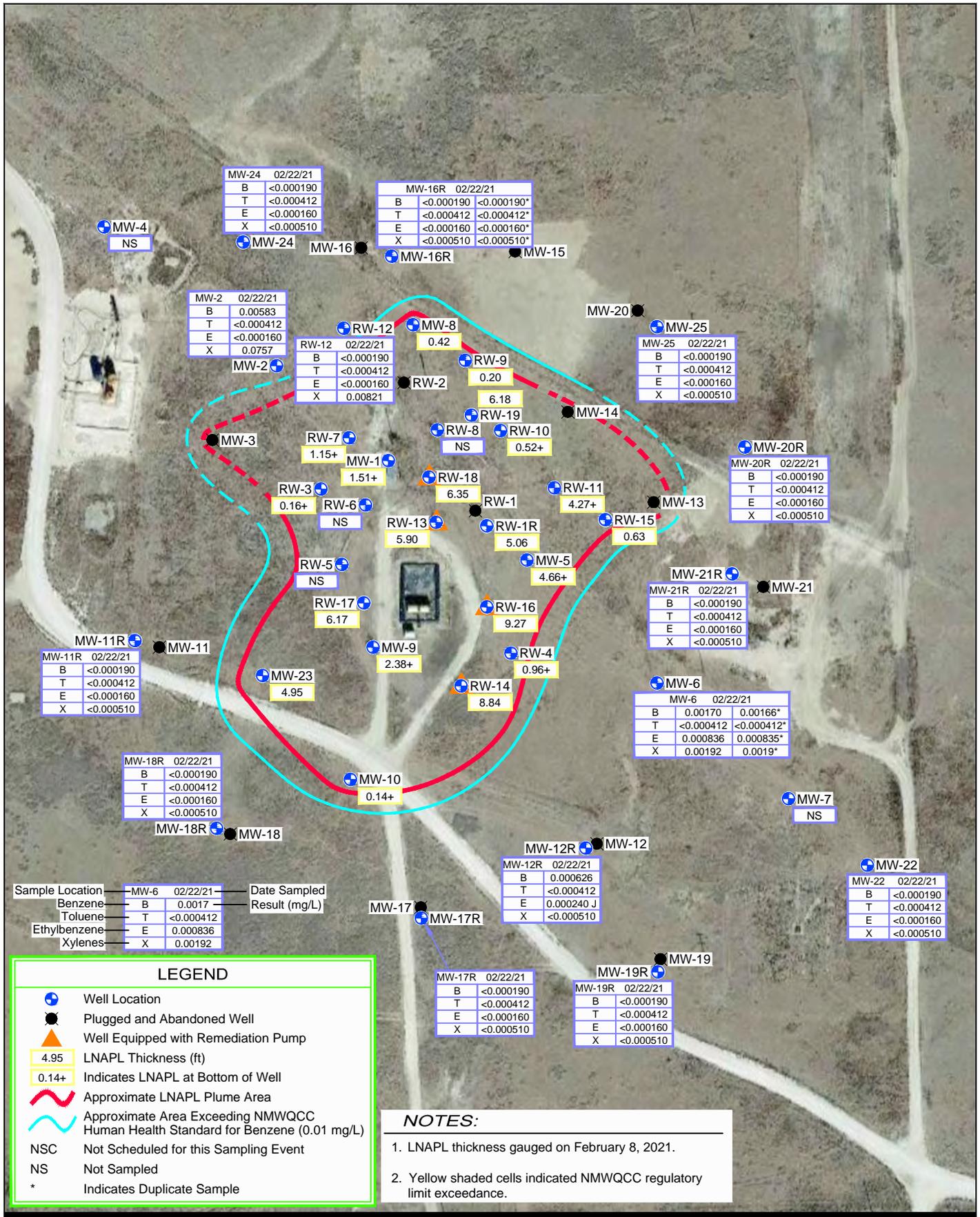


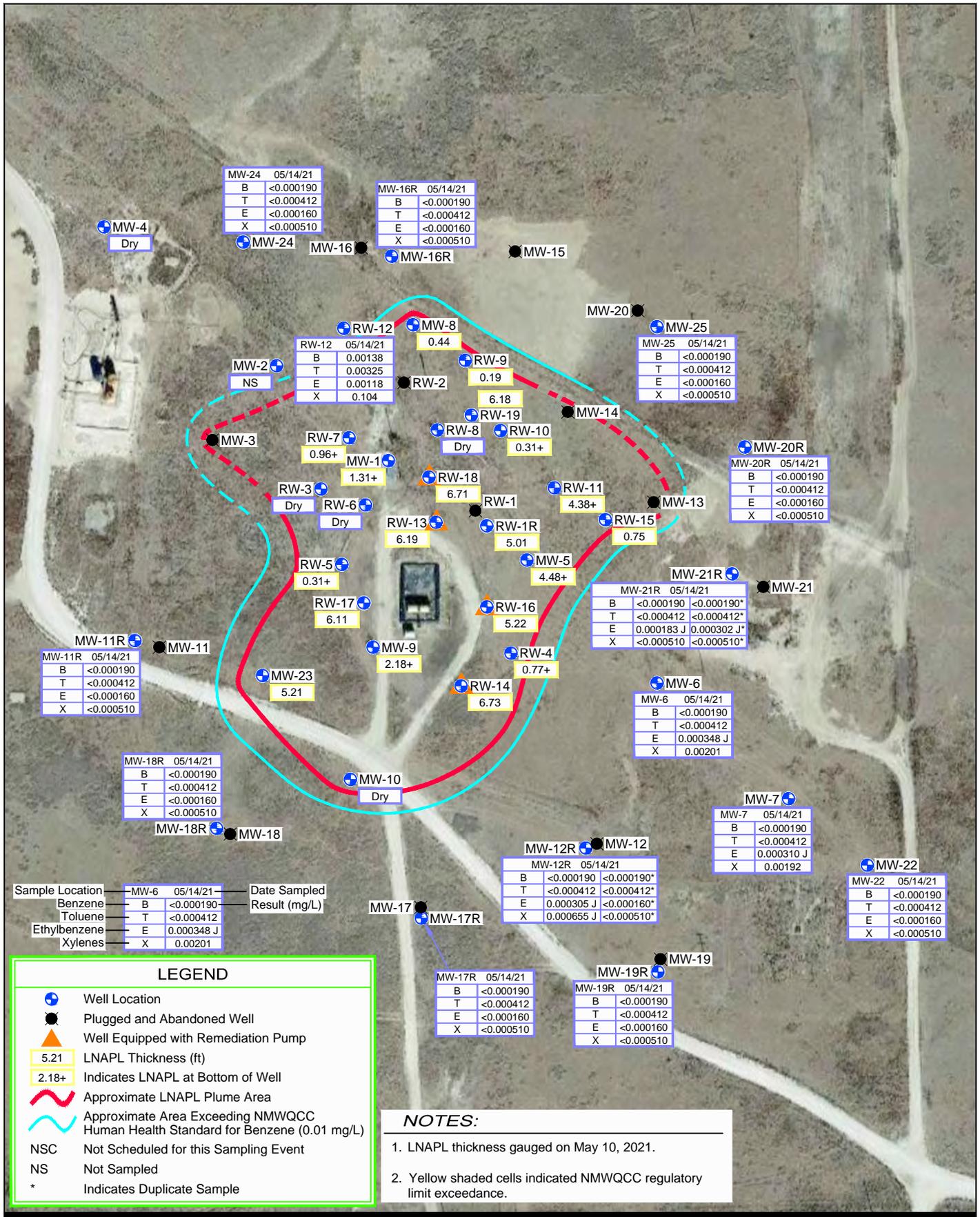
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LEA COUNTY, NEW MEXICO
DARR ANGELL No.1

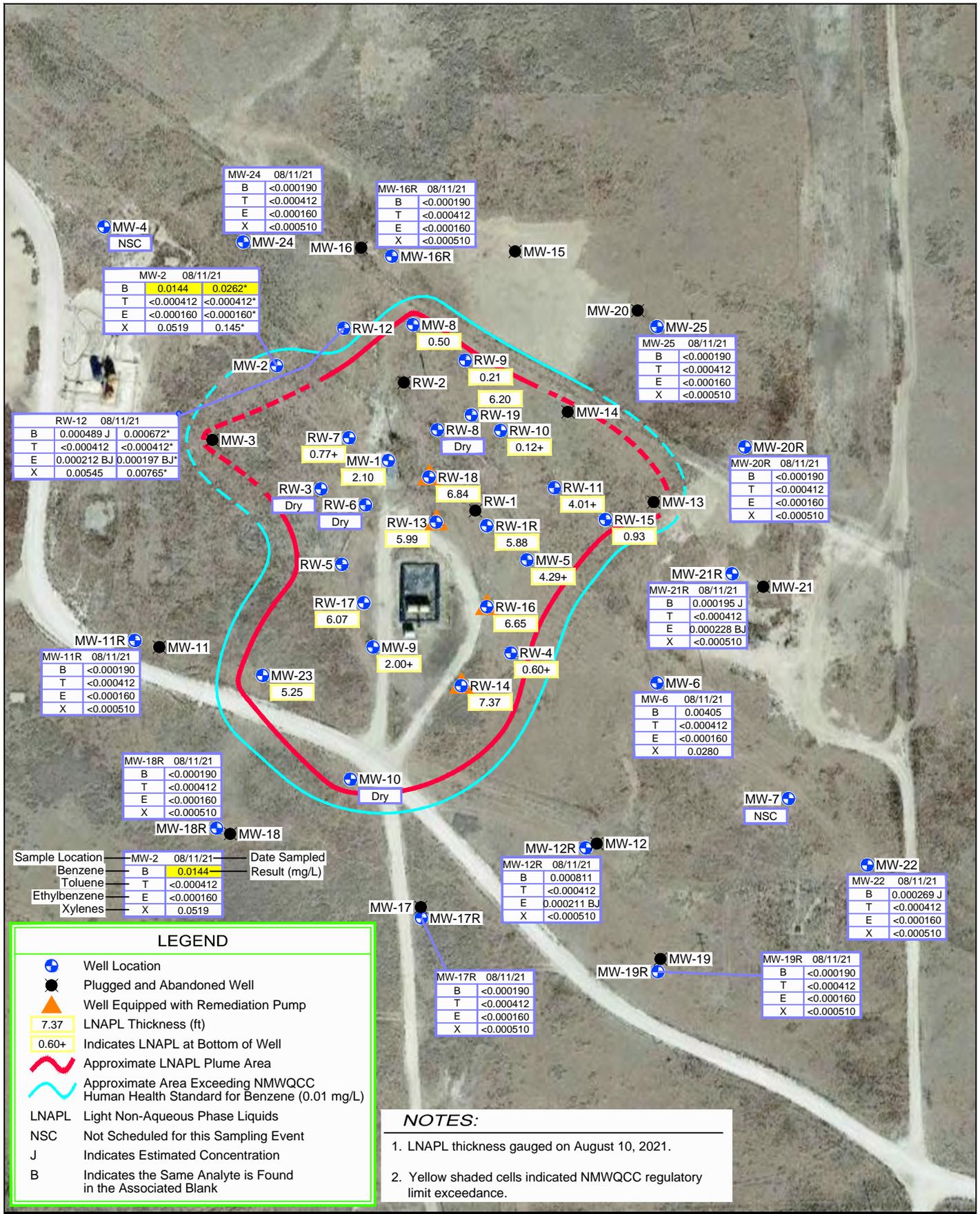
**GROUNDWATER GRADIENT MAP
NOVEMBER 10, 2021**

Project No. 11209885
Date January 2022

FIGURE 6







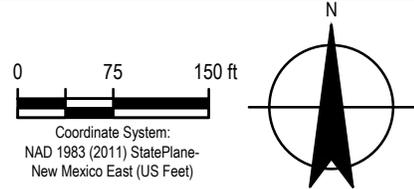
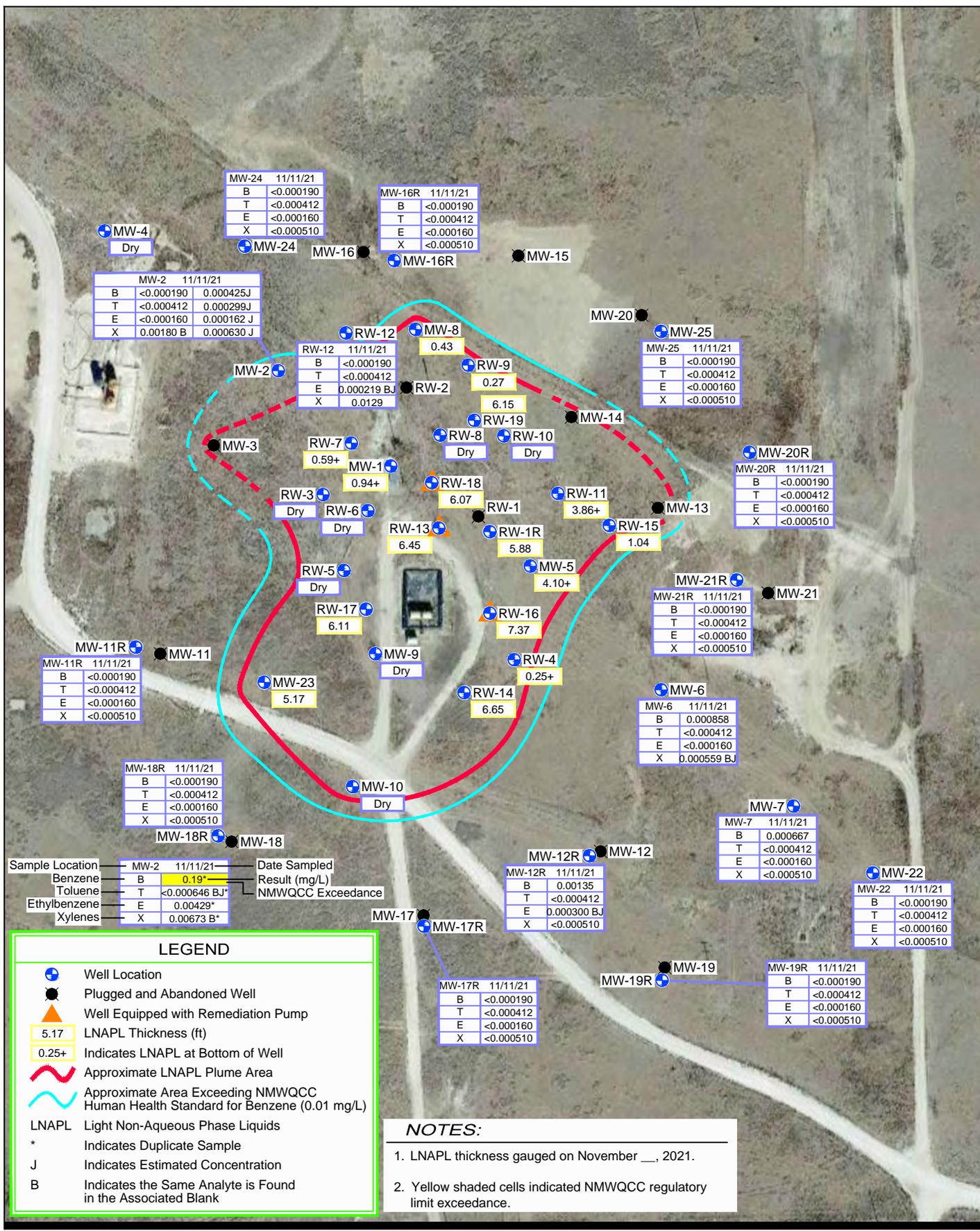
Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DARR ANGELL No.1

**LNAPL THICKNESS AND GROUNDWATER
BTEX CONCENTRATION MAP
AUGUST 10 AND 11, 2021**

Project No. 11209885
Date January 2022

FIGURE 9



PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DARR ANGELL No.1

**LNAPL THICKNESS AND GROUNDWATER
BTEX CONCENTRATION MAP**
NOVEMBER 11, 2021

Project No. 11209885
Date January 2022

FIGURE 10

Tables

Table 1
Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Well ID | Elevation of Top of Casing (famsl) | Date | Depth to Groundwater (fbtoc) | Depth to LNAPL (fbtoc) | Thickness of LNAPL (ft.) | Elevation of Potentiometric Surface (famsl) | Measured Well Depth (fbtoc) | Screen Interval (fbgs) Well Diameter (in.) | Volume Product Removed (gal.) | Volume Groundwater Bailed (gal.) | Volume Groundwater Removed by EFR (gal.) |
|---------|------------------------------------|----------|------------------------------|------------------------|--------------------------|---|-----------------------------|--|-------------------------------|----------------------------------|--|
| MW-01 | 3790.02 | 1/8/20 | - | - | - | - | - | - | 1.5 | 0.0 | - |
| MW-01 | 3790.02 | 1/15/20 | - | - | - | - | - | - | 2.0 | 0.0 | - |
| MW-01 | 3790.02 | 1/29/20 | - | - | - | - | - | - | 1.5 | 0.0 | - |
| MW-01 | 3790.02 | 2/11/20 | - | 66.85 | 2.05+ | LNAPL at TD | 68.90 | 50-70 (4 in.) | - | - | - |
| MW-01 | 3790.02 | 4/28/20 | - | 66.17 | 1.93+ | LNAPL at TD | 68.10 | - | - | - | - |
| MW-01 | 3790.02 | 5/12/20 | - | 67.17 | 1.73+ | LNAPL at TD | 68.90 | - | - | - | - |
| MW-01 | 3790.02 | 6/19/20 | - | 67.25 | 1.65+ | LNAPL at TD | 68.90 | - | - | - | - |
| MW-01 | 3790.02 | 7/29/20 | - | 67.36 | 1.84+ | LNAPL at TD | 69.20 | - | - | - | - |
| MW-01 | 3790.02 | 8/27/20 | - | 67.41 | 1.60+ | LNAPL at TD | 69.01 | - | - | - | - |
| MW-01 | 3790.02 | 9/14/20 | - | 66.48 | 1.85+ | LNAPL at TD | 68.33 | - | - | - | - |
| MW-01 | 3790.02 | 10/29/20 | - | 66.59 | 1.77+ | LNAPL at TD | 68.36 | - | - | - | - |
| MW-01 | 3790.02 | 12/7/20 | - | 67.63 | 1.45+ | LNAPL at TD | 69.08 | - | - | - | - |
| MW-01 | 3790.02 | 1/25/21 | - | 67.77 | 1.25+ | LNAPL at TD | 69.02 | - | - | - | - |
| MW-01 | 3790.02 | 2/8/21 | - | 67.80 | 1.51+ | LNAPL at TD | 69.31 | - | - | - | - |
| MW-01 | 3790.02 | 3/22/21 | - | 66.90 | 1.42+ | LNAPL at TD | 68.32 | - | - | - | - |
| MW-01 | 3790.02 | 5/3/21 | - | 68.00 | 1.02+ | LNAPL at TD | 69.02 | - | - | - | - |
| MW-01 | 3790.02 | 5/10/21 | - | 67.99 | 1.31+ | LNAPL at TD | 69.30 | - | - | - | - |
| MW-01 | 3790.02 | 7/28/21 | - | 68.19 | 0.83+ | LNAPL at TD | 69.02 | - | - | - | - |
| MW-01 | 3790.02 | 8/10/21 | - | 67.21 | 2.10+ | LNAPL at TD | 69.31 | - | - | - | - |
| MW-01 | 3790.02 | 9/29/21 | - | 68.33 | 0.98+ | LNAPL at TD | 69.31 | - | - | - | - |
| MW-01 | 3790.02 | 10/27/21 | - | 68.37 | 0.94+ | LNAPL at TD | 69.31 | - | - | - | - |
| MW-01 | 3790.02 | 11/10/21 | - | 68.37 | 0.94+ | LNAPL at TD | 69.31 | - | - | - | - |
| MW-01 | 3790.02 | 12/21/21 | - | 68.49 | 0.82+ | LNAPL at TD | 69.31 | - | - | - | - |
| MW-02 | 3790.83 | 2/11/20 | 67.61 | - | 0.00 | 3723.22 | 74.01 | 50-70 (4 in.) | - | - | - |
| MW-02 | 3790.83 | 3/17/20 | - | - | - | - | - | - | - | 3.0 | - |
| MW-02 | 3790.83 | 4/28/20 | 68.06 | - | 0.00 | 3722.77 | - | - | - | - | - |
| MW-02 | 3790.83 | 5/12/20 | 67.92 | - | 0.00 | 3722.91 | - | - | - | 0.2 | - |
| MW-02 | 3790.83 | 6/19/20 | 67.83 | - | 0.00 | 3723.00 | - | - | - | - | - |
| MW-02 | 3790.83 | 7/29/20 | 68.12 | - | 0.00 | 3722.71 | - | - | - | - | - |
| MW-02 | 3790.83 | 8/27/20 | 68.18 | - | 0.00 | 3722.65 | - | - | - | - | - |
| MW-02 | 3790.83 | 9/14/20 | 68.22 | - | 0.00 | 3722.61 | - | - | - | 0.2 | - |
| MW-02 | 3790.83 | 10/29/20 | 68.30 | - | 0.00 | 3722.53 | - | - | - | - | - |
| MW-02 | 3790.83 | 12/7/20 | 68.21 | - | 0.00 | 3722.62 | - | - | - | - | - |
| MW-02 | 3790.83 | 1/25/21 | 68.32 | - | 0.00 | 3722.51 | - | - | - | - | - |
| MW-02 | 3790.83 | 2/8/21 | 68.36 | - | 0.00 | 3722.47 | 71.49 | - | - | 6.0 | - |
| MW-02 | 3790.83 | 3/22/21 | 68.64 | - | 0.00 | 3722.19 | - | - | - | - | - |
| MW-02 | 3790.83 | 5/3/21 | 68.53 | - | 0.00 | 3722.30 | - | - | - | - | - |
| MW-02 | 3790.83 | 5/10/21 | 67.83 | - | 0.00 | 3723.00 | - | - | - | - | - |
| MW-02 | 3790.83 | 7/28/21 | 68.93 | - | 0.00 | 3721.90 | - | - | - | - | - |
| MW-02 | 3790.83 | 8/10/21 | 68.95 | - | 0.00 | 3721.88 | 71.53 | - | - | 5.0 | - |
| MW-02 | 3790.83 | 9/29/21 | 69.08 | - | 0.00 | 3721.75 | 71.53 | - | - | - | - |
| MW-02 | 3790.83 | 10/27/21 | 69.12 | - | 0.00 | 3721.71 | 71.53 | - | - | - | - |
| MW-02 | 3790.83 | 11/10/21 | 69.12 | - | 0.00 | 3721.71 | 71.53 | - | - | 5.5 | - |
| MW-02 | 3790.83 | 12/21/21 | 69.20 | - | 0.00 | 3721.63 | 71.53 | - | - | - | - |
| MW-03 | P&A | 2/19/20 | | | | | | | | | |
| MW-04 | 3792.51 | 2/11/20 | 69.06 | - | 0.00 | 3723.45 | 74.09 | 50-70 (4 in.) | - | - | - |
| MW-04 | 3792.51 | 4/28/20 | 69.21 | - | 0.00 | 3723.30 | - | - | - | - | - |
| MW-04 | 3792.51 | 5/12/20 | 69.24 | - | 0.00 | 3723.27 | - | - | - | - | - |
| MW-04 | 3792.51 | 6/19/20 | 69.34 | - | 0.00 | 3723.17 | - | - | - | - | - |
| MW-04 | 3792.51 | 7/29/20 | 69.40 | - | 0.00 | 3723.11 | - | - | - | - | - |
| MW-04 | 3792.51 | 8/27/20 | 69.48 | - | 0.00 | 3723.03 | - | - | - | - | - |
| MW-04 | 3792.51 | 9/14/20 | 69.52 | - | 0.00 | 3722.99 | - | - | - | - | - |
| MW-04 | 3792.51 | 10/29/20 | 69.61 | - | 0.00 | 3722.90 | 69.94 | - | - | Pull sample | - |
| MW-04 | 3792.51 | 12/7/20 | 69.70 | - | 0.00 | 3722.81 | - | - | - | - | - |
| MW-04 | 3792.51 | 1/25/21 | 69.81 | - | 0.00 | 3722.70 | - | - | - | - | - |
| MW-04 | 3792.51 | 2/8/21 | 69.85 | - | 0.00 | 3722.66 | 69.95 | - | - | - | - |
| MW-04 | 3792.51 | 3/22/21 | - | - | 0.00 | Dry | 69.96 | - | - | - | - |
| MW-04 | 3792.51 | 5/3/21 | 70.04 | - | 0.00 | 3722.47 | - | - | - | - | - |
| MW-04 | 3792.51 | 5/10/21 | - | - | 0.00 | Dry | 69.95 | - | - | - | - |
| MW-04 | 3792.51 | 7/28/21 | - | - | - | Dry | 69.94 | - | - | - | - |
| MW-04 | 3792.51 | 8/10/21 | 70.27 | - | 0.00 | 3722.24 | 71.77 | - | - | - | - |
| MW-04 | 3792.51 | 9/29/21 | 69.90 | - | 0.00 | 3722.61 | 69.95 | - | - | - | - |
| MW-04 | 3792.51 | 10/27/21 | - | - | - | Dry | 69.95 | - | - | - | - |
| MW-04 | 3792.51 | 11/10/21 | - | - | - | Dry | 69.95 | - | - | - | - |
| MW-04 | 3792.51 | 12/21/21 | - | - | - | Dry | 69.95 | - | - | - | - |
| MW-05 | 3789.50 | 1/29/20 | - | - | - | - | - | - | 1 | 1.2 | - |
| MW-05 | 3789.50 | 2/11/20 | 67.76 | 66.84 | 0.92 | 3722.49 | 73.85 | 50-70 (4 in.) | - | - | - |
| MW-05 | 3789.50 | 4/28/20 | 69.07 | 66.74 | 2.33 | 3722.32 | - | - | - | - | - |
| MW-05 | 3789.50 | 5/12/20 | 69.26 | 66.70 | 2.56 | 3722.31 | - | - | - | - | - |

Table 1
Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Well ID | Elevation of Top of Casing (famsl) | Date | Depth to Groundwater (fbtoc) | Depth to LNAPL (fbtoc) | Thickness of LNAPL (ft.) | Elevation of Potentiometric Surface (famsl) | Measured Well Depth (fbtoc) | Screen Interval (fbgs) Well Diameter (in.) | Volume Product Removed (gal.) | Volume Groundwater Bailed (gal.) | Volume Groundwater Removed by EFR (gal.) |
|---------|------------------------------------|----------|------------------------------|------------------------|--------------------------|---|-----------------------------|--|-------------------------------|----------------------------------|--|
| MW-05 | 3789.50 | 6/19/20 | 69.94 | 66.66 | 3.28 | 3722.22 | - | - | - | - | - |
| MW-05 | 3789.50 | 7/29/20 | 70.70 | 66.62 | 4.08 | 3722.10 | - | - | - | - | - |
| MW-05 | 3789.50 | 8/27/20 | 71.16 | 66.59 | 4.57 | 3722.04 | - | - | - | - | - |
| MW-05 | 3789.50 | 9/14/20 | - | 66.58 | 4.73+ | LNAPL at TD | 71.31 | - | - | - | - |
| MW-05 | 3789.50 | 10/29/20 | - | 66.47 | 4.88+ | LNAPL at TD | 71.35 | - | - | - | - |
| MW-05 | 3789.50 | 12/7/20 | - | 66.49 | 4.98+ | LNAPL at TD | 71.47 | - | - | - | - |
| MW-05 | 3789.50 | 1/25/21 | - | 66.61 | 4.68+ | LNAPL at TD | 71.29 | - | - | - | - |
| MW-05 | 3789.50 | 2/8/21 | - | 66.64 | 4.66+ | LNAPL at TD | 71.3 | - | - | - | - |
| MW-05 | 3789.50 | 3/22/21 | - | 66.71 | 4.59+ | LNAPL at TD | 71.3 | - | - | - | - |
| MW-05 | 3789.50 | 5/3/21 | 71.28 | 66.80 | 4.48 | 3721.85 | - | - | - | - | - |
| MW-05 | 3789.50 | 5/10/21 | - | 66.82 | 4.48+ | LNAPL at TD | 71.30 | - | - | - | - |
| MW-05 | 3789.50 | 7/28/21 | - | 66.99 | 4.31+ | LNAPL at TD | 71.30 | - | - | - | - |
| MW-05 | 3789.50 | 8/10/21 | - | 67.01 | 4.29+ | LNAPL at TD | 71.30 | - | - | - | - |
| MW-05 | 3789.50 | 9/29/21 | - | 67.10 | 4.20+ | LNAPL at TD | 71.30 | - | - | - | - |
| MW-05 | 3789.50 | 10/27/21 | - | 67.18 | 4.12+ | LNAPL at TD | 71.30 | - | - | - | - |
| MW-05 | 3789.50 | 11/10/21 | - | 67.20 | 4.10+ | LNAPL at TD | 71.30 | - | - | - | - |
| MW-05 | 3789.50 | 12/21/21 | - | 67.28 | 4.02+ | LNAPL at TD | 71.30 | - | - | - | - |
| MW-06 | 3789.27 | 2/11/20 | 67.01 | - | 0.00 | 3722.26 | 74.3 | 50-70 (4 in.) | - | 14.0 | - |
| MW-06 | 3789.27 | 3/17/20 | - | - | - | - | - | - | - | 3.0 | - |
| MW-06 | 3789.27 | 4/28/20 | 67.19 | - | 0.00 | 3722.08 | - | - | - | - | - |
| MW-06 | 3789.27 | 5/12/20 | 67.20 | - | 0.00 | 3722.07 | - | - | - | 10.0 | - |
| MW-06 | 3789.27 | 6/19/20 | 67.28 | - | 0.00 | 3721.99 | - | - | - | - | - |
| MW-06 | 3789.27 | 7/29/20 | 67.43 | - | 0.00 | 3721.84 | - | - | - | - | - |
| MW-06 | 3789.27 | 8/27/20 | 67.42 | - | 0.00 | 3721.85 | - | - | - | - | - |
| MW-06 | 3789.27 | 9/14/20 | 67.45 | - | 0.00 | 3721.82 | - | - | - | 10.0 | - |
| MW-06 | 3789.27 | 10/29/20 | 67.55 | - | 0.00 | 3721.72 | - | - | - | 2.5 | - |
| MW-06 | 3789.27 | 12/7/20 | 67.63 | - | 0.00 | 3721.64 | - | - | - | - | - |
| MW-06 | 3789.27 | 1/25/21 | 67.73 | - | 0.00 | 3721.54 | - | - | - | - | - |
| MW-06 | 3789.27 | 2/8/21 | 67.79 | - | 0.00 | 3721.48 | 71.55 | - | - | 8.0 | - |
| MW-06 | 3789.27 | 3/22/21 | 67.87 | - | 0.00 | 3721.40 | - | - | - | - | - |
| MW-06 | 3789.27 | 5/3/21 | 67.95 | - | 0.00 | 3721.32 | - | - | - | - | - |
| MW-06 | 3789.27 | 5/10/21 | 67.97 | - | 0.00 | 3721.30 | - | - | - | 8.0 | - |
| MW-06 | 3789.27 | 7/28/21 | 68.15 | - | 0.00 | 3721.12 | - | - | - | - | - |
| MW-06 | 3789.27 | 8/10/21 | 68.18 | - | 0.00 | 3721.09 | 71.68 | - | - | 3.0 | - |
| MW-06 | 3789.27 | 9/29/21 | 68.29 | - | 0.00 | 3720.98 | 71.68 | - | - | - | - |
| MW-06 | 3789.27 | 10/27/21 | 68.34 | - | 0.00 | 3720.93 | 71.68 | - | - | - | - |
| MW-06 | 3789.27 | 11/10/21 | 68.35 | - | 0.00 | 3720.92 | 71.68 | - | - | 0.5 | - |
| MW-06 | 3789.27 | 12/21/21 | 68.44 | - | 0.00 | 3720.83 | 71.68 | - | - | - | - |
| MW-07 | 3789.26 | 2/11/20 | 67.41 | - | 0.00 | 3721.85 | 75.36 | 50-70 (4 in.) | - | - | - |
| MW-07 | 3789.26 | 4/28/20 | 67.51 | - | 0.00 | 3721.75 | - | - | - | - | - |
| MW-07 | 3789.26 | 5/12/20 | 67.52 | - | 0.00 | 3721.74 | - | - | - | 14 | - |
| MW-07 | 3789.26 | 6/19/20 | 67.61 | - | 0.00 | 3721.65 | - | - | - | - | - |
| MW-07 | 3789.26 | 7/29/20 | 67.70 | - | 0.00 | 3721.56 | - | - | - | - | - |
| MW-07 | 3789.26 | 8/27/20 | 67.75 | - | 0.00 | 3721.51 | - | - | - | - | - |
| MW-07 | 3789.26 | 9/14/20 | 67.77 | - | 0.00 | 3721.49 | - | - | - | 14 | - |
| MW-07 | 3789.26 | 10/29/20 | 67.89 | - | 0.00 | 3721.37 | - | - | - | 3.5 | - |
| MW-07 | 3789.26 | 12/7/20 | 67.96 | - | 0.00 | 3721.30 | - | - | - | - | - |
| MW-07 | 3789.26 | 1/25/21 | 68.08 | - | 0.00 | 3721.18 | - | - | - | - | - |
| MW-07 | 3789.26 | 2/8/21 | 68.16 | - | 0.00 | 3721.10 | 73.11 | - | - | 0 | - |
| MW-07 | 3789.26 | 3/22/21 | 68.20 | - | 0.00 | 3721.06 | - | - | - | - | - |
| MW-07 | 3789.26 | 5/3/21 | 68.29 | - | 0.00 | 3720.97 | - | - | - | - | - |
| MW-07 | 3789.26 | 5/10/21 | 69.18 | - | 0.00 | 3720.08 | - | - | - | 8 | - |
| MW-07 | 3789.26 | 7/28/21 | 68.49 | - | 0.00 | 3720.77 | - | - | - | - | - |
| MW-07 | 3789.26 | 8/10/21 | 68.50 | - | 0.00 | 3720.76 | 73.44 | - | - | - | - |
| MW-07 | 3789.26 | 9/29/21 | 68.60 | - | 0.00 | 3720.66 | 73.11 | - | - | - | - |
| MW-07 | 3789.26 | 10/27/21 | 68.66 | - | 0.00 | 3720.60 | 73.11 | - | - | - | - |
| MW-07 | 3789.26 | 11/10/21 | 68.66 | - | 0.00 | 3720.60 | 73.11 | - | - | 1 | - |
| MW-07 | 3789.26 | 12/21/21 | 68.73 | - | 0.00 | 3720.53 | 73.11 | - | - | - | - |
| MW-08 | 3790.66 | 2/11/20 | 67.82 | 67.72 | 0.10 | 3722.92 | 74.35 | 50-70 (4 in) | - | - | - |
| MW-08 | 3790.66 | 4/28/20 | 68.04 | 67.86 | 0.18 | 3722.77 | - | - | - | - | - |
| MW-08 | 3790.66 | 5/12/20 | 68.06 | 67.84 | 0.22 | 3722.78 | - | - | - | - | - |
| MW-08 | 3790.66 | 6/19/20 | 68.19 | 67.94 | 0.25 | 3722.67 | - | - | - | - | - |
| MW-08 | 3790.66 | 7/29/20 | 68.34 | 68.04 | 0.30 | 3722.56 | - | - | - | - | - |
| MW-08 | 3790.66 | 8/27/20 | 68.43 | 68.07 | 0.36 | 3722.52 | - | - | - | - | - |
| MW-08 | 3790.66 | 9/14/20 | 68.50 | 68.13 | 0.37 | 3722.46 | - | - | - | - | - |
| MW-08 | 3790.66 | 10/29/20 | 68.62 | 68.21 | 0.41 | 3722.37 | - | - | - | - | - |
| MW-08 | 3790.66 | 12/7/20 | 68.74 | 68.27 | 0.47 | 3722.30 | - | - | - | - | - |
| MW-08 | 3790.66 | 1/25/21 | 68.85 | 68.40 | 0.45 | 3722.17 | - | - | - | - | - |
| MW-08 | 3790.66 | 2/8/21 | 68.87 | 68.45 | 0.42 | 3722.13 | 72.72 | - | - | - | - |
| MW-08 | 3790.66 | 3/22/21 | 69.01 | 68.54 | 0.47 | 3722.03 | - | - | - | - | - |
| MW-08 | 3790.66 | 5/3/21 | 69.08 | 68.63 | 0.45 | 3721.94 | - | - | - | - | - |

Table 1
Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Well ID | Elevation of Top of Casing (famsl) | Date | Depth to Groundwater (fbtoc) | Depth to LNAPL (fbtoc) | Thickness of LNAPL (ft.) | Elevation of Potentiometric Surface (famsl) | Measured Well Depth (fbtoc) | Screen Interval (fbgs) Well Diameter (in.) | Volume Product Removed (gal.) | Volume Groundwater Bailed (gal.) | Volume Groundwater Removed by EFR (gal.) |
|---------|------------------------------------|----------|------------------------------|------------------------|--------------------------|---|-----------------------------|--|-------------------------------|----------------------------------|--|
| MW-08 | 3790.66 | 5/10/21 | 69.07 | 68.63 | 0.44 | 3721.95 | - | - | - | - | - |
| MW-08 | 3790.66 | 7/28/21 | 69.31 | 68.80 | 0.51 | 3721.76 | - | - | - | - | - |
| MW-08 | 3790.66 | 8/10/21 | 69.34 | 68.84 | 0.50 | 3721.73 | - | - | - | - | - |
| MW-08 | 3790.66 | 9/29/21 | 69.43 | 68.94 | 0.49 | 3721.63 | 72.72 | - | - | - | - |
| MW-08 | 3790.66 | 10/27/21 | 69.41 | 68.98 | 0.43 | 3721.60 | 72.72 | - | - | - | - |
| MW-08 | 3790.66 | 11/10/21 | 69.41 | 68.98 | 0.43 | 3721.60 | 72.72 | - | - | - | - |
| MW-08 | 3790.66 | 12/21/21 | 69.60 | 69.12 | 0.48 | 3721.45 | 72.72 | - | - | - | - |
| MW-09 | 3790.94 | 1/29/20 | - | - | - | - | - | - | 0.2 | 0 | - |
| MW-09 | 3790.94 | 2/11/20 | - | 67.51 | 3.29+ | LNAPL at TD | 70.80 | 50-70 (4 in.) | - | - | - |
| MW-09 | 3790.94 | 3/11/20 | - | 67.58 | 3.22+ | LNAPL at TD | 70.80 | - | - | - | - |
| MW-09 | 3790.94 | 4/8/20 | - | 67.66 | 3.14+ | LNAPL at TD | 70.80 | - | - | - | - |
| MW-09 | 3790.94 | 4/28/20 | - | 67.26 | 3.09+ | LNAPL at TD | 70.35 | - | - | - | - |
| MW-09 | 3790.94 | 5/12/20 | - | 67.21 | 5.56+ | LNAPL at TD | 72.77 | - | - | - | - |
| MW-09 | 3790.94 | 6/19/20 | - | 67.36 | 5.41+ | LNAPL at TD | 72.77 | - | - | - | - |
| MW-09 | 3790.94 | 7/29/20 | - | 67.25 | 3.15+ | LNAPL at TD | 70.40 | - | - | - | - |
| MW-09 | 3790.94 | 8/27/20 | 70.32 | 67.53 | 2.79 | 3722.88 | - | - | - | - | - |
| MW-09 | 3790.94 | 9/14/20 | - | 67.56 | 2.70+ | LNAPL at TD | 70.26 | - | - | - | - |
| MW-09 | 3790.94 | 10/29/20 | 70.39 | 67.68 | 2.71 | 3722.75 | - | - | - | - | - |
| MW-09 | 3790.94 | 12/7/20 | - | 67.77 | 2.63+ | LNAPL at TD | 70.40 | - | - | - | - |
| MW-09 | 3790.94 | 1/25/21 | - | 67.88 | 2.39+ | LNAPL at TD | 70.27 | - | - | - | - |
| MW-09 | 3790.94 | 2/8/21 | - | 67.89 | 2.38+ | LNAPL at TD | 70.27 | - | - | - | - |
| MW-09 | 3790.94 | 3/22/21 | - | 67.99 | 2.29+ | LNAPL at TD | 70.28 | - | - | - | - |
| MW-09 | 3790.94 | 5/3/21 | - | 68.06 | 2.21+ | LNAPL at TD | 70.27 | - | - | - | - |
| MW-09 | 3790.94 | 5/10/21 | - | 68.10 | 2.18+ | LNAPL at TD | 70.28 | - | - | - | - |
| MW-09 | 3790.94 | 7/28/21 | - | 68.24 | 2.04+ | LNAPL at TD | 70.28 | - | - | - | - |
| MW-09 | 3790.94 | 8/10/21 | - | 68.29 | 2.00+ | LNAPL at TD | 70.29 | - | - | - | - |
| MW-09 | 3790.94 | 9/29/21 | - | 68.30 | 1.97+ | LNAPL at TD | 70.27 | - | - | - | - |
| MW-09 | 3790.94 | 10/27/21 | - | - | - | Dry | 70.27 | - | - | - | - |
| MW-09 | 3790.94 | 11/10/21 | - | - | - | Dry | 70.27 | - | - | - | - |
| MW-09 | 3790.94 | 12/21/21 | - | 68.55 | 1.72+ | LNAPL at TD | 70.27 | - | - | - | - |
| MW-10 | 3790.94 | 2/11/20 | 67.64 | - | 0.00 | 3723.30 | 69.77 | 40-65 (2 in.) | - | - | - |
| MW-10 | 3790.94 | 4/28/20 | - | 67.82 | 0.90+ | LNAPL at TD | 68.72 | - | - | - | - |
| MW-10 | 3790.94 | 5/12/20 | 68.63 | 67.83 | 0.80 | 3722.96 | 68.72 | - | - | - | - |
| MW-10 | 3790.94 | 6/19/20 | - | 67.93 | 0.79+ | LNAPL at TD | 68.72 | - | - | - | - |
| MW-10 | 3790.94 | 7/29/20 | 68.76 | 68.01 | 0.75 | LNAPL at TD | 68.72 | - | - | - | - |
| MW-10 | 3790.94 | 8/27/20 | 68.72 | 68.08 | 0.64 | 3722.74 | - | - | - | - | - |
| MW-10 | 3790.94 | 9/14/20 | - | 68.23 | 0.40+ | LNAPL at TD | 68.63 | - | - | - | - |
| MW-10 | 3790.94 | 10/29/20 | - | 68.26 | 0.49+ | LNAPL at TD | 68.75 | - | - | - | - |
| MW-10 | 3790.94 | 12/7/20 | - | 68.33 | 0.41+ | LNAPL at TD | 68.74 | - | - | - | - |
| MW-10 | 3790.94 | 1/25/21 | - | 68.48 | 0.13+ | LNAPL at TD | 68.61 | - | - | - | - |
| MW-10 | 3790.94 | 2/8/21 | - | 68.52 | 0.14+ | LNAPL at TD | 68.66 | - | - | - | - |
| MW-10 | 3790.94 | 3/22/21 | - | - | - | DRY | 68.62 | - | - | - | - |
| MW-10 | 3790.94 | 5/3/21 | - | 68.64 | 0.02+ | LNAPL at TD | 68.66 | - | - | - | - |
| MW-10 | 3790.94 | 5/10/21 | - | - | - | Dry | 68.73 | - | - | - | - |
| MW-10 | 3790.94 | 7/28/21 | - | - | - | Dry | 68.68 | - | - | - | - |
| MW-10 | 3790.94 | 8/10/21 | - | - | - | Dry | 68.69 | - | - | - | - |
| MW-10 | 3790.94 | 9/29/21 | - | - | - | Dry | 68.66 | - | - | - | - |
| MW-10 | 3790.94 | 10/27/21 | - | - | - | Dry | 68.66 | - | - | - | - |
| MW-10 | 3790.94 | 11/10/21 | - | - | - | Dry | 68.66 | - | - | - | - |
| MW-10 | 3790.94 | 12/21/21 | - | - | - | Dry | 68.66 | - | - | - | - |
| MW-11 | P&A | 2/19/20 | - | - | - | - | - | - | - | - | - |
| MW-11R | 3790.62 | 2/26/20 | - | - | - | - | - | - | - | 15 | - |
| MW-11R | 3790.62 | 3/12/20 | 67.76 | - | 0.00 | 3722.86 | 90.02 | - | - | - | - |
| MW-11R | 3790.62 | 3/23/20 | 67.88 | - | 0.00 | 3722.74 | 90.02 | - | - | - | - |
| MW-11R | 3790.62 | 4/28/20 | 67.95 | - | 0.00 | 3722.67 | - | - | - | - | - |
| MW-11R | 3790.62 | 5/12/20 | 67.96 | - | 0.00 | 3722.66 | - | - | - | 12 | - |
| MW-11R | 3790.62 | 6/19/20 | 68.03 | - | 0.00 | 3722.59 | - | - | - | - | - |
| MW-11R | 3790.62 | 7/29/20 | 69.14 | - | 0.00 | 3721.48 | - | - | - | - | - |
| MW-11R | 3790.62 | 8/27/20 | 68.19 | - | 0.00 | 3722.43 | - | - | - | - | - |
| MW-11R | 3790.62 | 9/14/20 | 68.26 | - | 0.00 | 3722.36 | - | - | - | 12 | - |
| MW-11R | 3790.62 | 10/29/20 | 68.34 | - | 0.00 | 3722.28 | - | - | - | 10 | - |
| MW-11R | 3790.62 | 12/7/20 | 68.42 | - | 0.00 | 3722.20 | - | - | - | - | - |
| MW-11R | 3790.62 | 1/25/21 | 68.54 | - | 0.00 | 3722.08 | - | - | - | - | - |
| MW-11R | 3790.62 | 2/8/21 | 68.60 | - | 0.00 | 3722.02 | 90.10 | - | - | 11 | - |
| MW-11R | 3790.62 | 3/22/21 | 68.68 | - | 0.00 | 3721.94 | - | - | - | - | - |
| MW-11R | 3790.62 | 5/3/21 | 68.77 | - | 0.00 | 3721.85 | - | - | - | - | - |
| MW-11R | 3790.62 | 5/10/21 | 68.90 | - | 0.00 | 3721.72 | - | - | - | 11 | - |
| MW-11R | 3790.62 | 7/28/21 | 68.94 | - | 0.00 | 3721.68 | - | - | - | - | - |
| MW-11R | 3790.62 | 8/10/21 | 68.98 | - | 0.00 | 3721.64 | 90.13 | - | - | 10.5 | - |
| MW-11R | 3790.62 | 9/29/21 | 69.10 | - | 0.00 | 3721.52 | 90.10 | - | - | - | - |

Table 1
Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Well ID | Elevation of Top of Casing (famsl) | Date | Depth to Groundwater (fbtoc) | Depth to LNAPL (fbtoc) | Thickness of LNAPL (ft.) | Elevation of Potentiometric Surface (famsl) | Measured Well Depth (fbtoc) | Screen Interval (fbgs) Well Diameter (in.) | Volume Product Removed (gal.) | Volume Groundwater Bailed (gal.) | Volume Groundwater Removed by EFR (gal.) |
|---------|------------------------------------|----------|------------------------------|------------------------|--------------------------|---|-----------------------------|--|-------------------------------|----------------------------------|--|
| MW-11R | 3790.62 | 10/27/21 | 69.16 | - | 0.00 | 3721.46 | 90.10 | - | - | - | - |
| MW-11R | 3790.62 | 11/10/21 | 69.15 | - | 0.00 | 3721.47 | 90.10 | - | - | 10.5 | - |
| MW-11R | 3790.62 | 12/21/21 | 69.25 | - | 0.00 | 3721.37 | 90.10 | - | - | - | - |
| MW-12R | 3789.55 | 2/11/20 | 67.49 | - | 0.00 | 3722.06 | 87.65 | - | - | 10.0 | - |
| MW-12R | 3789.55 | 4/28/20 | 67.65 | - | 0.00 | 3721.90 | - | - | - | - | - |
| MW-12R | 3789.55 | 5/12/20 | 67.63 | - | 0.00 | 3721.92 | - | - | - | 10.0 | - |
| MW-12R | 3789.55 | 6/19/20 | 67.72 | - | 0.00 | 3721.83 | - | - | - | - | - |
| MW-12R | 3789.55 | 7/29/20 | 67.80 | - | 0.00 | 3721.75 | - | - | - | - | - |
| MW-12R | 3789.55 | 8/27/20 | 67.88 | - | 0.00 | 3721.67 | - | - | - | - | - |
| MW-12R | 3789.55 | 9/14/20 | 67.93 | - | 0.00 | 3721.62 | - | - | - | 10.0 | - |
| MW-12R | 3789.55 | 10/29/20 | 68.03 | - | 0.00 | 3721.52 | - | - | - | 5.0 | - |
| MW-12R | 3789.55 | 12/7/20 | 68.08 | - | 0.00 | 3721.47 | - | - | - | - | - |
| MW-12R | 3789.55 | 1/25/21 | 68.20 | - | 0.00 | 3721.35 | - | - | - | - | - |
| MW-12R | 3789.55 | 2/8/21 | 68.26 | - | 0.00 | 3721.29 | 84.89 | - | - | 8.0 | - |
| MW-12R | 3789.55 | 3/22/21 | 68.34 | - | 0.00 | 3721.21 | - | - | - | - | - |
| MW-12R | 3789.55 | 5/3/21 | 68.41 | - | 0.00 | 3721.14 | - | - | - | - | - |
| MW-12R | 3789.55 | 5/10/21 | 68.45 | - | 0.00 | 3721.10 | - | - | - | 8.0 | - |
| MW-12R | 3789.55 | 7/28/21 | 68.61 | - | 0.00 | 3720.94 | - | - | - | - | - |
| MW-12R | 3789.55 | 8/10/21 | 68.63 | - | 0.00 | 3720.92 | 85.01 | - | - | 8.0 | - |
| MW-12R | 3789.55 | 9/29/21 | 68.74 | - | 0.00 | 3720.81 | 85.01 | - | - | - | - |
| MW-12R | 3789.55 | 10/27/21 | 68.79 | - | 0.00 | 3720.76 | 85.01 | - | - | - | - |
| MW-12R | 3789.55 | 11/10/21 | 68.79 | - | 0.00 | 3720.76 | 85.01 | - | - | 8.5 | - |
| MW-12R | 3789.55 | 12/21/21 | 68.87 | - | 0.00 | 3720.68 | 85.01 | - | - | - | - |
| MW-13 | P&A | 2/19/20 | | | | | | | | | |
| MW-14 | P&A | 2/19/20 | | | | | | | | | |
| MW-16R | 3791.21 | 2/11/20 | 68.19 | - | 0.00 | 3723.02 | 85.51 | - | - | 8.3 | - |
| MW-16R | 3791.21 | 4/28/20 | 68.32 | - | 0.00 | 3722.89 | - | - | - | - | - |
| MW-16R | 3791.21 | 5/12/20 | 68.32 | - | 0.00 | 3722.89 | - | - | - | 9.0 | - |
| MW-16R | 3791.21 | 6/19/20 | 68.45 | - | 0.00 | 3722.76 | - | - | - | - | - |
| MW-16R | 3791.21 | 7/29/20 | 68.50 | - | 0.00 | 3722.71 | - | - | - | - | - |
| MW-16R | 3791.21 | 8/27/20 | 68.63 | - | 0.00 | 3722.58 | - | - | - | - | - |
| MW-16R | 3791.21 | 9/14/20 | 68.63 | - | 0.00 | 3722.58 | - | - | - | 9.0 | - |
| MW-16R | 3791.21 | 10/29/20 | 68.71 | - | 0.00 | 3722.50 | - | - | - | 8.0 | - |
| MW-16R | 3791.21 | 12/7/20 | 68.79 | - | 0.00 | 3722.42 | - | - | - | - | - |
| MW-16R | 3791.21 | 1/25/21 | 68.89 | - | 0.00 | 3722.32 | - | - | - | - | - |
| MW-16R | 3791.21 | 2/8/21 | 68.96 | - | 0.00 | 3722.25 | 84.30 | - | - | 8.0 | - |
| MW-16R | 3791.21 | 3/22/21 | 69.04 | - | 0.00 | 3722.17 | - | - | - | - | - |
| MW-16R | 3791.21 | 5/3/21 | 69.15 | - | 0.00 | 3722.06 | - | - | - | - | - |
| MW-16R | 3791.21 | 5/10/21 | 69.13 | - | 0.00 | 3722.08 | - | - | - | 8.0 | - |
| MW-16R | 3791.21 | 7/28/21 | 69.34 | - | 0.00 | 3721.87 | - | - | - | - | - |
| MW-16R | 3791.21 | 8/10/21 | 69.37 | - | 0.00 | 3721.84 | 84.50 | - | - | 7.5 | - |
| MW-16R | 3791.21 | 9/29/21 | 69.48 | - | 0.00 | 3721.73 | 84.30 | - | - | - | - |
| MW-16R | 3791.21 | 10/27/21 | 69.52 | - | 0.00 | 3721.69 | 84.30 | - | - | - | - |
| MW-16R | 3791.21 | 11/10/21 | 69.52 | - | 0.00 | 3721.69 | 84.30 | - | - | 7.5 | - |
| MW-16R | 3791.21 | 12/21/21 | 69.6 | - | 0.00 | 3721.61 | 84.30 | - | - | - | - |
| MW-17R | 3790.20 | 2/11/20 | 67.94 | - | 0.00 | 3722.26 | 79.15 | - | - | 5.3 | - |
| MW-17R | 3790.20 | 4/28/20 | 68.06 | - | 0.00 | 3722.14 | - | - | - | - | - |
| MW-17R | 3790.20 | 5/12/20 | 68.09 | - | 0.00 | 3722.11 | - | - | - | 6.0 | - |
| MW-17R | 3790.20 | 6/19/20 | 68.17 | - | 0.00 | 3722.03 | - | - | - | - | - |
| MW-17R | 3790.20 | 7/29/20 | 68.26 | - | 0.00 | 3721.94 | - | - | - | - | - |
| MW-17R | 3790.20 | 8/27/20 | 68.33 | - | 0.00 | 3721.87 | - | - | - | - | - |
| MW-17R | 3790.20 | 9/14/20 | 68.37 | - | 0.00 | 3721.83 | - | - | - | 6.0 | - |
| MW-17R | 3790.20 | 10/29/20 | 68.47 | - | 0.00 | 3721.73 | - | - | - | 5.0 | - |
| MW-17R | 3790.20 | 12/7/20 | 68.55 | - | 0.00 | 3721.65 | - | - | - | - | - |
| MW-17R | 3790.20 | 1/25/21 | 68.65 | - | 0.00 | 3721.55 | - | - | - | - | - |
| MW-17R | 3790.20 | 2/8/21 | 68.69 | - | 0.00 | 3721.51 | 78.71 | - | - | 5.0 | - |
| MW-17R | 3790.20 | 3/22/21 | 68.78 | - | 0.00 | 3721.42 | - | - | - | - | - |
| MW-17R | 3790.20 | 5/3/21 | 68.87 | - | 0.00 | 3721.33 | - | - | - | - | - |
| MW-17R | 3790.20 | 5/10/21 | 68.88 | - | 0.00 | 3721.32 | - | - | - | 5.0 | - |
| MW-17R | 3790.20 | 7/28/21 | 69.05 | - | 0.00 | 3721.15 | - | - | - | - | - |
| MW-17R | 3790.20 | 8/10/21 | 69.09 | - | 0.00 | 3721.11 | 78.80 | - | - | 5.0 | - |
| MW-17R | 3790.20 | 9/29/21 | 69.2 | - | 0.00 | 3721.00 | 78.71 | - | - | - | - |
| MW-17R | 3790.20 | 10/27/21 | 69.26 | - | 0.00 | 3720.94 | 78.71 | - | - | - | - |
| MW-17R | 3790.20 | 11/10/21 | 69.26 | - | 0.00 | 3720.94 | 78.71 | - | - | 4.5 | - |
| MW-17R | 3790.20 | 12/21/21 | 69.35 | - | 0.00 | 3720.85 | 78.71 | - | - | - | - |
| MW-18R | 3791.04 | 2/11/20 | 68.39 | - | 0.00 | 3722.65 | 81.94 | - | - | 6.0 | - |
| MW-18R | 3791.04 | 4/28/20 | 68.52 | - | 0.00 | 3722.52 | - | - | - | - | - |

Table 1
Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Well ID | Elevation of Top of Casing (famsl) | Date | Depth to Groundwater (fbtoc) | Depth to LNAPL (fbtoc) | Thickness of LNAPL (ft.) | Elevation of Potentiometric Surface (famsl) | Measured Well Depth (fbtoc) | Screen Interval (fbgs) Well Diameter (in.) | Volume Product Removed (gal.) | Volume Groundwater Bailed (gal.) | Volume Groundwater Removed by EFR (gal.) |
|---------|------------------------------------|----------|------------------------------|------------------------|--------------------------|---|-----------------------------|--|-------------------------------|----------------------------------|--|
| MW-18R | 3791.04 | 5/12/20 | 68.52 | - | 0.00 | 3722.52 | - | - | - | 7.0 | - |
| MW-18R | 3791.04 | 6/19/20 | 68.62 | - | 0.00 | 3722.42 | - | - | - | - | - |
| MW-18R | 3791.04 | 7/29/20 | 68.70 | - | 0.00 | 3722.34 | - | - | - | - | - |
| MW-18R | 3791.04 | 8/27/20 | 68.77 | - | 0.00 | 3722.27 | - | - | - | - | - |
| MW-18R | 3791.04 | 9/14/20 | 68.83 | - | 0.00 | 3722.21 | - | - | - | 7.0 | - |
| MW-18R | 3791.04 | 10/29/20 | 68.91 | - | 0.00 | 3722.13 | - | - | - | 6.0 | - |
| MW-18R | 3791.04 | 12/7/20 | 69.00 | - | 0.00 | 3722.04 | - | - | - | - | - |
| MW-18R | 3791.04 | 1/25/21 | 69.11 | - | 0.00 | 3721.93 | - | - | - | - | - |
| MW-18R | 3791.04 | 2/8/21 | 69.15 | - | 0.00 | 3721.89 | 81.41 | - | - | 6.0 | - |
| MW-18R | 3791.04 | 3/22/21 | 69.24 | - | 0.00 | 3721.80 | - | - | - | - | - |
| MW-18R | 3791.04 | 5/3/21 | 69.33 | - | 0.00 | 3721.71 | - | - | - | - | - |
| MW-18R | 3791.04 | 5/10/21 | 69.33 | - | 0.00 | 3721.71 | - | - | - | 6.0 | - |
| MW-18R | 3791.04 | 7/28/21 | 69.50 | - | 0.00 | 3721.54 | - | - | - | - | - |
| MW-18R | 3791.04 | 8/10/21 | 69.54 | - | 0.00 | 3721.50 | 81.50 | - | - | 6.0 | - |
| MW-18R | 3791.04 | 9/29/21 | 69.66 | - | 0.00 | 3721.38 | 81.41 | - | - | - | - |
| MW-18R | 3791.04 | 10/27/21 | 69.73 | - | 0.00 | 3721.31 | 81.41 | - | - | - | - |
| MW-18R | 3791.04 | 11/10/21 | 69.74 | - | 0.00 | 3721.30 | 81.41 | - | - | 6.0 | - |
| MW-18R | 3791.04 | 12/21/21 | 69.80 | - | 0.00 | 3721.24 | 81.41 | - | - | - | - |
| MW-19R | 3789.67 | 2/11/20 | 67.79 | - | 0.00 | 3721.88 | 78.79 | 61.5-81.5 (2 in) | - | - | - |
| MW-19R | 3789.67 | 4/28/20 | 67.90 | - | 0.00 | 3721.77 | - | - | - | - | - |
| MW-19R | 3789.67 | 5/12/20 | 67.91 | - | 0.00 | 3721.76 | - | - | - | 6.0 | - |
| MW-19R | 3789.67 | 6/19/20 | 68.00 | - | 0.00 | 3721.67 | - | - | - | - | - |
| MW-19R | 3789.67 | 7/29/20 | 68.08 | - | 0.00 | 3721.59 | - | - | - | - | - |
| MW-19R | 3789.67 | 8/27/20 | 68.15 | - | 0.00 | 3721.52 | - | - | - | - | - |
| MW-19R | 3789.67 | 9/14/20 | 68.42 | - | 0.00 | 3721.25 | - | - | - | 6.0 | - |
| MW-19R | 3789.67 | 10/29/20 | 68.29 | - | 0.00 | 3721.38 | - | - | - | 4.5 | - |
| MW-19R | 3789.67 | 12/7/20 | 68.35 | - | 0.00 | 3721.32 | - | - | - | - | - |
| MW-19R | 3789.67 | 1/25/21 | 68.48 | - | 0.00 | 3721.19 | - | - | - | - | - |
| MW-19R | 3789.67 | 2/8/21 | 68.54 | - | 0.00 | 3721.13 | 77.66 | - | - | 4.5 | - |
| MW-19R | 3789.67 | 3/22/21 | 68.60 | - | 0.00 | 3721.07 | - | - | - | - | - |
| MW-19R | 3789.67 | 5/3/21 | 68.67 | - | 0.00 | 3721.00 | - | - | - | - | - |
| MW-19R | 3789.67 | 5/10/21 | 68.72 | - | 0.00 | 3720.95 | - | - | - | 4.5 | - |
| MW-19R | 3789.67 | 7/28/21 | 68.86 | - | 0.00 | 3720.81 | - | - | - | - | - |
| MW-19R | 3789.67 | 8/10/21 | 68.91 | - | 0.00 | 3720.76 | 77.78 | - | - | 4.5 | - |
| MW-19R | 3789.67 | 9/29/21 | 69.00 | - | 0.00 | 3720.67 | 77.66 | - | - | - | - |
| MW-19R | 3789.67 | 10/27/21 | 69.09 | - | 0.00 | 3720.58 | 77.66 | - | - | - | - |
| MW-19R | 3789.67 | 11/10/21 | 69.11 | - | 0.00 | 3720.56 | 77.66 | - | - | 4.0 | - |
| MW-19R | 3789.67 | 12/21/21 | 69.16 | - | 0.00 | 3720.51 | 77.66 | - | - | - | - |
| MW-20R | 3789.73 | 2/11/20 | 67.39 | - | 0.00 | 3722.34 | 72.51 | 61.5-81.5 (2 in) | - | 2.3 | - |
| MW-20R | 3789.73 | 4/28/20 | 67.55 | - | 0.00 | 3722.18 | - | - | - | - | - |
| MW-20R | 3789.73 | 5/12/20 | 67.53 | - | 0.00 | 3722.20 | - | - | - | 2.5 | - |
| MW-20R | 3789.73 | 6/19/20 | 67.64 | - | 0.00 | 3722.09 | - | - | - | - | - |
| MW-20R | 3789.73 | 7/29/20 | 67.71 | - | 0.00 | 3722.02 | - | - | - | - | - |
| MW-20R | 3789.73 | 8/27/20 | 67.77 | - | 0.00 | 3721.96 | - | - | - | - | - |
| MW-20R | 3789.73 | 9/14/20 | 67.85 | - | 0.00 | 3721.88 | - | - | - | 2.5 | - |
| MW-20R | 3789.73 | 10/29/20 | 67.91 | - | 0.00 | 3721.82 | - | - | - | 1.5 | - |
| MW-20R | 3789.73 | 12/7/20 | 67.98 | - | 0.00 | 3721.75 | - | - | - | - | - |
| MW-20R | 3789.73 | 1/25/21 | 68.10 | - | 0.00 | 3721.63 | - | - | - | - | - |
| MW-20R | 3789.73 | 2/8/21 | 68.14 | - | 0.00 | 3721.59 | 71.45 | - | - | 1.5 | - |
| MW-20R | 3789.73 | 3/22/21 | 68.24 | - | 0.00 | 3721.49 | - | - | - | - | - |
| MW-20R | 3789.73 | 5/3/21 | 68.31 | - | 0.00 | 3721.42 | - | - | - | - | - |
| MW-20R | 3789.73 | 5/10/21 | 68.35 | - | 0.00 | 3721.38 | - | - | - | 1.5 | - |
| MW-20R | 3789.73 | 7/28/21 | 68.49 | - | 0.00 | 3721.24 | - | - | - | - | - |
| MW-20R | 3789.73 | 8/10/21 | 68.53 | - | 0.00 | 3721.20 | 71.30 | - | - | 1.5 | - |
| MW-20R | 3789.73 | 9/29/21 | 68.63 | - | 0.00 | 3721.10 | 71.45 | - | - | - | - |
| MW-20R | 3789.73 | 10/27/21 | 68.70 | - | 0.00 | 3721.03 | 71.45 | - | - | - | - |
| MW-20R | 3789.73 | 11/10/21 | 68.72 | - | 0.00 | 3721.01 | 71.45 | - | - | 1.0 | - |
| MW-20R | 3789.73 | 12/21/21 | 68.80 | - | 0.00 | 3720.93 | 71.45 | - | - | - | - |
| MW-21 | P&A | 2/19/20 | | | | | | | | | |
| MW-21R | 3789.71 | 3/12/20 | 67.60 | - | 0.00 | 3722.11 | 89.94 | - | - | - | - |
| MW-21R | 3789.71 | 3/23/20 | 67.71 | - | 0.00 | 3722.00 | 89.93 | - | - | 11.00 | - |
| MW-21R | 3789.71 | 4/28/20 | 67.80 | - | 0.00 | 3721.91 | - | - | - | - | - |
| MW-21R | 3789.71 | 5/12/20 | 67.79 | - | 0.00 | 3721.92 | - | - | - | 12.00 | - |
| MW-21R | 3789.71 | 6/19/20 | 67.91 | - | 0.00 | 3721.80 | - | - | - | - | - |
| MW-21R | 3789.71 | 7/29/20 | 67.95 | - | 0.00 | 3721.76 | - | - | - | - | - |
| MW-21R | 3789.71 | 8/27/20 | 68.04 | - | 0.00 | 3721.67 | - | - | - | - | - |
| MW-21R | 3789.71 | 9/14/20 | 68.06 | - | 0.00 | 3721.65 | - | - | - | 12.00 | - |
| MW-21R | 3789.71 | 10/29/20 | 68.17 | - | 0.00 | 3721.54 | - | - | - | 10.00 | - |
| MW-21R | 3789.71 | 12/7/20 | 68.25 | - | 0.00 | 3721.46 | - | - | - | - | - |

Table 1
Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Well ID | Elevation of Top of Casing (famsl) | Date | Depth to Groundwater (fbtoc) | Depth to LNAPL (fbtoc) | Thickness of LNAPL (ft.) | Elevation of Potentiometric Surface (famsl) | Measured Well Depth (fbtoc) | Screen Interval (fbgs) Well Diameter (in.) | Volume Product Removed (gal.) | Volume Groundwater Bailed (gal.) | Volume Groundwater Removed by EFR (gal.) |
|---------|------------------------------------|----------|------------------------------|------------------------|--------------------------|---|-----------------------------|--|-------------------------------|----------------------------------|--|
| MW-21R | 3789.71 | 1/25/21 | 68.35 | - | 0.00 | 3721.36 | - | - | - | - | - |
| MW-21R | 3789.71 | 2/8/21 | 68.42 | - | 0.00 | 3721.29 | 89.45 | - | - | 10.50 | - |
| MW-21R | 3789.71 | 3/22/21 | 68.50 | - | 0.00 | 3721.21 | - | - | - | - | - |
| MW-21R | 3789.71 | 5/3/21 | 68.56 | - | 0.00 | 3721.15 | - | - | - | - | - |
| MW-21R | 3789.71 | 5/10/21 | 68.61 | - | 0.00 | 3721.10 | - | - | - | 10.50 | - |
| MW-21R | 3789.71 | 7/28/21 | 68.75 | - | 0.00 | 3720.96 | - | - | - | - | - |
| MW-21R | 3789.71 | 8/10/21 | 68.80 | - | 0.00 | 3720.91 | 89.80 | - | - | 10.50 | - |
| MW-21R | 3789.71 | 9/29/21 | 68.89 | - | 0.00 | 3720.82 | 89.90 | - | - | - | - |
| MW-21R | 3789.71 | 10/27/21 | 69.95 | - | 0.00 | 3719.76 | 89.90 | - | - | - | - |
| MW-21R | 3789.71 | 11/10/21 | 68.96 | - | 0.00 | 3720.75 | 89.90 | - | - | 10.0 | - |
| MW-21R | 3789.71 | 12/21/21 | 70.02 | - | 0.00 | 3719.69 | 89.90 | - | - | - | - |
| MW-22 | 3788.97 | 2/11/20 | 67.31 | - | 0.00 | 3721.66 | 85.22 | - | - | 9.0 | - |
| MW-22 | 3788.97 | 4/28/20 | 67.40 | - | 0.00 | 3721.57 | - | - | - | - | - |
| MW-22 | 3788.97 | 5/12/20 | 67.39 | - | 0.00 | 3721.58 | - | - | - | 9.0 | - |
| MW-22 | 3788.97 | 6/19/20 | 67.47 | - | 0.00 | 3721.50 | - | - | - | - | - |
| MW-22 | 3788.97 | 7/29/20 | 67.58 | - | 0.00 | 3721.39 | - | - | - | - | - |
| MW-22 | 3788.97 | 8/27/20 | 67.63 | - | 0.00 | 3721.34 | - | - | - | - | - |
| MW-22 | 3788.97 | 9/14/20 | 67.69 | - | 0.00 | 3721.28 | - | - | - | 9.0 | - |
| MW-22 | 3788.97 | 10/29/20 | 67.78 | - | 0.00 | 3721.19 | - | - | - | 8.5 | - |
| MW-22 | 3788.97 | 12/7/20 | 67.83 | - | 0.00 | 3721.14 | - | - | - | - | - |
| MW-22 | 3788.97 | 1/25/21 | 67.96 | - | 0.00 | 3721.01 | - | - | - | - | - |
| MW-22 | 3788.97 | 2/8/21 | 68.00 | - | 0.00 | 3720.97 | 83.89 | - | - | 8.0 | - |
| MW-22 | 3788.97 | 3/22/21 | 68.07 | - | 0.00 | 3720.90 | - | - | - | - | - |
| MW-22 | 3788.97 | 5/3/21 | 68.15 | - | 0.00 | 3720.82 | - | - | - | - | - |
| MW-22 | 3788.97 | 5/10/21 | 68.19 | - | 0.00 | 3720.78 | - | - | - | 8.0 | - |
| MW-22 | 3788.97 | 7/28/21 | 68.33 | - | 0.00 | 3720.64 | - | - | - | - | - |
| MW-22 | 3788.97 | 8/10/21 | 68.37 | - | 0.00 | 3720.60 | 84.30 | - | - | 8.0 | - |
| MW-22 | 3788.97 | 9/29/21 | 68.50 | - | 0.00 | 3720.47 | 84.30 | - | - | - | - |
| MW-22 | 3788.97 | 10/27/21 | 68.53 | - | 0.00 | 3720.44 | 84.30 | - | - | - | - |
| MW-22 | 3788.97 | 11/10/21 | 68.54 | - | 0.00 | 3720.43 | 84.30 | - | - | 8.0 | - |
| MW-22 | 3788.97 | 12/21/21 | 68.64 | - | 0.00 | 3720.33 | 84.30 | - | - | - | - |
| MW-23 | 3790.93 | 1/8/20 | - | - | - | - | - | - | 1.0 | 2.0 | - |
| MW-23 | 3790.93 | 1/15/20 | - | - | - | - | - | - | 0.5 | 0.2 | - |
| MW-23 | 3790.93 | 1/29/20 | - | - | - | - | - | - | 0.4 | 1.0 | - |
| MW-23 | 3790.93 | 2/11/20 | 69.37 | 67.93 | 1.44 | 3722.73 | 84.92 | - | - | - | - |
| MW-23 | 3790.93 | 4/28/20 | 70.98 | 67.80 | 3.18 | 3722.53 | - | - | - | - | - |
| MW-23 | 3790.93 | 5/12/20 | 71.28 | 67.74 | 3.54 | 3722.52 | - | - | - | - | - |
| MW-23 | 3790.93 | 6/19/20 | 71.81 | 67.74 | 4.07 | 3722.42 | - | - | - | - | - |
| MW-23 | 3790.93 | 7/29/20 | 72.04 | 67.75 | 4.29 | 3722.36 | - | - | - | - | - |
| MW-23 | 3790.93 | 8/27/20 | 72.37 | 67.78 | 4.59 | 3722.28 | - | - | - | - | - |
| MW-23 | 3790.93 | 9/14/20 | 72.50 | 67.88 | 4.62 | 3722.17 | - | - | - | - | - |
| MW-23 | 3790.93 | 10/29/20 | 72.74 | 67.90 | 4.84 | 3722.11 | - | - | - | - | - |
| MW-23 | 3790.93 | 12/7/20 | 72.92 | 67.95 | 4.97 | 3722.04 | - | - | - | - | - |
| MW-23 | 3790.93 | 1/25/21 | 73.06 | 68.09 | 4.97 | 3721.90 | - | - | - | - | - |
| MW-23 | 3790.93 | 2/8/21 | 73.07 | 68.12 | 4.95 | 3721.87 | 83.59 | - | - | - | - |
| MW-23 | 3790.93 | 3/22/21 | 73.32 | 68.23 | 5.09 | 3721.73 | - | - | - | - | - |
| MW-23 | 3790.93 | 5/3/21 | 73.46 | 68.30 | 5.16 | 3721.65 | - | - | - | - | - |
| MW-23 | 3790.93 | 5/10/21 | 73.47 | 68.26 | 5.21 | 3721.68 | - | - | - | - | - |
| MW-23 | 3790.93 | 7/28/21 | 73.70 | 68.49 | 5.21 | 3721.45 | - | - | - | - | - |
| MW-23 | 3790.93 | 8/10/21 | 73.72 | 68.47 | 5.25 | 3721.46 | - | - | - | - | - |
| MW-23 | 3790.93 | 9/29/21 | 73.75 | 68.60 | 5.15 | 3721.35 | 83.59 | - | - | - | - |
| MW-23 | 3790.93 | 10/27/21 | 73.91 | 68.68 | 5.23 | 3721.26 | 83.59 | - | - | - | - |
| MW-23 | 3790.93 | 11/10/21 | 73.85 | 68.68 | 5.17 | 3721.27 | 83.59 | - | - | - | - |
| MW-23 | 3790.93 | 12/21/21 | 73.93 | 68.77 | 5.16 | 3721.18 | 83.59 | - | - | - | - |
| MW-24 | 3791.40 | 2/27/20 | - | - | - | - | - | - | - | 15.0 | - |
| MW-24 | 3791.40 | 3/12/20 | 68.30 | - | 0.00 | 3723.10 | 89.97 | - | - | - | - |
| MW-24 | 3791.40 | 3/23/20 | 68.40 | - | 0.00 | 3723.00 | 90.02 | - | - | 11.0 | - |
| MW-24 | 3791.40 | 4/28/20 | 68.47 | - | 0.00 | 3722.93 | - | - | - | - | - |
| MW-24 | 3791.40 | 5/12/20 | 68.47 | - | 0.00 | 3722.93 | - | - | - | 11.0 | - |
| MW-24 | 3791.40 | 6/19/20 | 68.58 | - | 0.00 | 3722.82 | - | - | - | - | - |
| MW-24 | 3791.40 | 7/29/20 | 68.56 | - | 0.00 | 3722.84 | - | - | - | - | - |
| MW-24 | 3791.40 | 8/27/20 | 68.74 | - | 0.00 | 3722.66 | - | - | - | - | - |
| MW-24 | 3791.40 | 9/14/20 | 68.78 | - | 0.00 | 3722.62 | - | - | - | 11.0 | - |
| MW-24 | 3791.40 | 10/29/20 | 68.68 | - | 0.00 | 3722.72 | - | - | - | 11.0 | - |
| MW-24 | 3791.40 | 12/7/20 | 68.94 | - | 0.00 | 3722.46 | - | - | - | - | - |
| MW-24 | 3791.40 | 1/25/21 | 69.06 | - | 0.00 | 3722.34 | - | - | - | - | - |
| MW-24 | 3791.40 | 2/8/21 | 69.12 | - | 0.00 | 3722.28 | 89.97 | - | - | 10.0 | - |
| MW-24 | 3791.40 | 3/22/21 | 69.19 | - | 0.00 | 3722.21 | - | - | - | - | - |
| MW-24 | 3791.40 | 5/3/21 | 69.29 | - | 0.00 | 3722.11 | - | - | - | - | - |
| MW-24 | 3791.40 | 5/10/21 | 69.30 | - | 0.00 | 3722.10 | - | - | - | 10.0 | - |

Table 1
Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Well ID | Elevation of Top of Casing (famsl) | Date | Depth to Groundwater (fbtoc) | Depth to LNAPL (fbtoc) | Thickness of LNAPL (ft.) | Elevation of Potentiometric Surface (famsl) | Measured Well Depth (fbtoc) | Screen Interval (fbgs) Well Diameter (in.) | Volume Product Removed (gal.) | Volume Groundwater Bailed (gal.) | Volume Groundwater Removed by EFR (gal.) |
|---------|------------------------------------|----------|------------------------------|------------------------|--------------------------|---|-----------------------------|--|-------------------------------|----------------------------------|--|
| MW-24 | 3791.40 | 7/28/21 | 69.48 | - | 0.00 | 3721.92 | - | - | - | - | - |
| MW-24 | 3791.40 | 8/10/21 | 69.52 | - | 0.00 | 3721.88 | 90.10 | - | - | 10.0 | - |
| MW-24 | 3791.40 | 9/29/21 | 69.63 | - | 0.00 | 3721.77 | 89.97 | - | - | - | - |
| MW-24 | 3791.40 | 10/27/21 | 69.68 | - | 0.00 | 3721.72 | 89.97 | - | - | - | - |
| MW-24 | 3791.40 | 11/10/21 | 69.67 | - | 0.00 | 3721.73 | 89.97 | - | - | 10.0 | - |
| MW-24 | 3791.40 | 12/21/21 | 69.78 | - | 0.00 | 3721.62 | 89.97 | - | - | - | - |
| MW-25 | 3790.01 | 2/27/20 | - | - | - | - | - | - | - | 15.0 | - |
| MW-25 | 3790.01 | 3/12/20 | 67.57 | - | 0.00 | 3722.44 | 89.95 | - | - | - | - |
| MW-25 | 3790.01 | 3/23/20 | 67.69 | - | 0.00 | 3722.32 | 90.09 | - | - | 11.0 | - |
| MW-25 | 3790.01 | 4/28/20 | 67.76 | - | 0.00 | 3722.25 | - | - | - | - | - |
| MW-25 | 3790.01 | 5/12/20 | 67.74 | - | 0.00 | 3722.27 | - | - | - | 12.0 | - |
| MW-25 | 3790.01 | 6/19/20 | 67.87 | - | 0.00 | 3722.14 | - | - | - | - | - |
| MW-25 | 3790.01 | 7/29/20 | 67.93 | - | 0.00 | 3722.08 | - | - | - | - | - |
| MW-25 | 3790.01 | 8/27/20 | 68.00 | - | 0.00 | 3722.01 | - | - | - | - | - |
| MW-25 | 3790.01 | 9/14/20 | 68.05 | - | 0.00 | 3721.96 | - | - | - | 12.0 | - |
| MW-25 | 3790.01 | 10/29/20 | 68.14 | - | 0.00 | 3721.87 | - | - | - | 10.0 | - |
| MW-25 | 3790.01 | 12/7/20 | 68.20 | - | 0.00 | 3721.81 | - | - | - | - | - |
| MW-25 | 3790.01 | 1/25/21 | 68.33 | - | 0.00 | 3721.68 | - | - | - | - | - |
| MW-25 | 3790.01 | 2/8/21 | 68.37 | - | 0.00 | 3721.64 | 89.95 | - | - | 10.5 | - |
| MW-25 | 3790.01 | 3/22/21 | 68.46 | - | 0.00 | 3721.55 | - | - | - | - | - |
| MW-25 | 3790.01 | 5/3/21 | 68.54 | - | 0.00 | 3721.47 | - | - | - | - | - |
| MW-25 | 3790.01 | 5/10/21 | 68.55 | - | 0.00 | 3721.46 | - | - | - | 10.5 | - |
| MW-25 | 3790.01 | 7/28/21 | 68.73 | - | 0.00 | 3721.28 | - | - | - | - | - |
| MW-25 | 3790.01 | 8/10/21 | 68.77 | - | 0.00 | 3721.24 | 90.08 | - | - | 12.5 | - |
| MW-25 | 3790.01 | 9/29/21 | 68.87 | - | 0.00 | 3721.14 | 89.95 | - | - | - | - |
| MW-25 | 3790.01 | 10/27/21 | 69.93 | - | 0.00 | 3720.08 | 89.95 | - | - | - | - |
| MW-25 | 3790.01 | 11/10/21 | 68.93 | - | 0.00 | 3721.08 | 89.95 | - | - | 10.0 | - |
| MW-25 | 3790.01 | 12/21/21 | 69.02 | - | 0.00 | 3720.99 | 89.95 | - | - | - | - |
| RW-01 | P&A | 2/19/20 | | | | | | | | | |
| RW-1R | 3790.43 | 3/3/20 | - | - | - | - | - | - | - | 45 | - |
| RW-1R | 3790.43 | 3/12/20 | 68.77 | 67.49 | 1.28 | 3722.70 | 90.8 | - | - | - | - |
| RW-1R | 3790.43 | 3/23/20 | 71.19 | 67.09 | 4.10 | 3722.56 | 90.96 | - | - | - | - |
| RW-1R | 3790.43 | 4/28/20 | 72.60 | 66.85 | 5.75 | 3722.49 | - | - | - | - | - |
| RW-1R | 3790.43 | 5/12/20 | 72.60 | 66.85 | 5.75 | 3722.49 | - | - | - | - | - |
| RW-1R | 3790.43 | 6/19/20 | - | - | - | - | - | - | - | - | - |
| RW-1R | 3790.43 | 7/29/20 | 73.18 | 67.09 | 6.09 | 3722.18 | - | - | - | - | - |
| RW-1R | 3790.43 | 8/27/20 | - | - | - | - | - | - | - | - | - |
| RW-1R | 3790.43 | 9/14/20 | 72.47 | 67.24 | 5.23 | 3722.20 | - | - | - | - | - |
| RW-1R | 3790.43 | 10/29/20 | 72.85 | 67.21 | 5.64 | 3722.15 | - | - | - | - | - |
| RW-1R | 3790.43 | 12/7/20 | 73.02 | 67.32 | 5.70 | 3722.03 | - | - | - | - | - |
| RW-1R | 3790.43 | 1/25/21 | - | - | - | - | - | - | - | - | - |
| RW-1R | 3790.43 | 2/8/21 | 72.65 | 67.59 | 5.06 | 3721.88 | 90.89 | - | - | - | - |
| RW-1R | 3790.43 | 3/22/21 | - | - | - | - | - | - | - | - | - |
| RW-1R | 3790.43 | 5/3/21 | - | - | - | - | - | - | - | - | - |
| RW-1R | 3790.43 | 5/10/21 | 72.80 | 67.79 | 5.01 | 3721.69 | - | - | - | - | - |
| RW-1R | 3790.43 | 7/28/21 | 73.68 | 67.84 | 5.84 | 3721.48 | - | - | - | - | - |
| RW-1R | 3790.43 | 8/10/21 | 73.90 | 68.02 | 5.88 | 3721.29 | - | - | - | - | - |
| RW-1R | 3790.43 | 9/29/21 | 74.05 | 67.11 | 6.94 | 3722.00 | 90.89 | - | - | - | - |
| RW-1R | 3790.43 | 10/27/21 | 74.03 | 68.16 | 5.87 | 3721.15 | 90.89 | - | - | - | - |
| RW-1R | 3790.43 | 11/10/21 | 74.05 | 68.17 | 5.88 | 3721.14 | 90.89 | - | - | - | - |
| RW-1R | 3790.43 | 12/21/21 | 74.21 | 68.26 | 5.95 | 3721.04 | 90.89 | - | - | - | - |
| RW-02 | P&A | 2/19/20 | | | | | | | | | |
| RW-03 | 3791.34 | 1/8/20 | - | - | - | - | - | - | 0.5 | 0.0 | - |
| RW-03 | 3791.34 | 2/11/20 | - | 67.22 | 0.79+ | LNAPL at TD | 68.01 | - | - | - | - |
| RW-03 | 3791.34 | 4/28/20 | - | 67.35 | 0.61+ | LNAPL at TD | 67.96 | - | - | - | - |
| RW-03 | 3791.34 | 5/12/20 | - | 67.34 | 0.67+ | LNAPL at TD | 68.01 | - | - | - | - |
| RW-03 | 3791.34 | 6/19/20 | - | 67.42 | 0.59+ | LNAPL at TD | 68.01 | - | - | - | - |
| RW-03 | 3791.34 | 7/29/20 | 67.61 | 67.05 | 0.56 | 3724.18 | - | - | - | - | - |
| RW-03 | 3791.34 | 8/27/20 | - | 67.55 | 0.40+ | LNAPL at TD | 67.95 | - | - | - | - |
| RW-03 | 3791.34 | 9/14/20 | - | 67.60 | 0.30+ | LNAPL at TD | 67.90 | - | - | - | - |
| RW-03 | 3791.34 | 10/29/20 | - | 67.61 | 0.34+ | LNAPL at TD | 67.95 | - | - | - | - |
| RW-03 | 3791.34 | 12/7/20 | - | 67.61 | 0.34+ | LNAPL at TD | 67.95 | - | - | - | - |
| RW-03 | 3791.34 | 1/25/21 | - | 67.70 | 0.18+ | LNAPL at TD | 67.88 | - | - | - | - |
| RW-03 | 3791.34 | 2/8/21 | - | 67.74 | 0.16+ | LNAPL at TD | 67.90 | - | - | - | - |
| RW-03 | 3791.34 | 3/22/21 | - | 67.82 | 0.09+ | LNAPL at TD | 67.91 | - | - | - | - |
| RW-03 | 3791.34 | 5/3/21 | - | 67.82 | 0.10+ | LNAPL at TD | 67.92 | - | - | - | - |
| RW-03 | 3791.34 | 5/10/21 | - | - | - | Dry | 67.88 | - | - | - | - |
| RW-03 | 3791.34 | 7/28/21 | - | - | - | Dry | 67.89 | - | - | - | - |
| RW-03 | 3791.34 | 8/10/21 | - | - | - | Dry | 67.79 | - | - | - | - |

Table 1
Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Well ID | Elevation of Top of Casing (famsl) | Date | Depth to Groundwater (fbtoc) | Depth to LNAPL (fbtoc) | Thickness of LNAPL (ft.) | Elevation of Potentiometric Surface (famsl) | Measured Well Depth (fbtoc) | Screen Interval (fbgs) Well Diameter (in.) | Volume Product Removed (gal.) | Volume Groundwater Bailed (gal.) | Volume Groundwater Removed by EFR (gal.) |
|---------|------------------------------------|----------|------------------------------|------------------------|--------------------------|---|-----------------------------|--|-------------------------------|----------------------------------|--|
| RW-03 | 3791.34 | 9/29/21 | - | - | - | Dry | 67.90 | - | - | - | - |
| RW-03 | 3791.34 | 10/27/21 | - | - | - | Dry | 67.90 | - | - | - | - |
| RW-03 | 3791.34 | 11/10/21 | - | - | - | Dry | 67.90 | - | - | - | - |
| RW-03 | 3791.34 | 12/21/21 | - | - | - | Dry | 67.90 | - | - | - | - |
| RW-04 | 3790.76 | 2/11/20 | - | 67.01 | 3.52+ | LNAPL at TD | 70.53 | 50-70 (4 in.) | - | - | - |
| RW-04 | 3790.76 | 4/8/20 | 68.80 | 67.12 | 1.68 | 3723.32 | 68.81 | - | - | - | - |
| RW-04 | 3790.76 | 4/28/20 | - | 67.14 | 1.66+ | LNAPL at TD | 68.80 | - | - | - | - |
| RW-04 | 3790.76 | 5/12/20 | - | 67.15 | 3.38+ | LNAPL at TD | 70.53 | - | - | - | - |
| RW-04 | 3790.76 | 6/19/20 | - | 67.24 | 3.29+ | LNAPL at TD | 70.53 | - | - | - | - |
| RW-04 | 3790.76 | 7/29/20 | 68.96 | 67.52 | 1.44 | 3722.97 | - | - | - | - | - |
| RW-04 | 3790.76 | 8/27/20 | 68.84 | 67.38 | 1.46 | 3723.10 | - | - | - | - | - |
| RW-04 | 3790.76 | 9/14/20 | - | 67.46 | 1.26+ | LNAPL at TD | 68.72 | - | - | - | - |
| RW-04 | 3790.76 | 10/29/20 | - | 67.55 | 1.27+ | LNAPL at TD | 68.82 | - | - | - | - |
| RW-04 | 3790.76 | 12/7/20 | - | 67.62 | 2.88+ | LNAPL at TD | 70.50 | - | - | - | - |
| RW-04 | 3790.76 | 1/25/21 | - | 67.74 | 0.99+ | LNAPL at TD | 68.73 | - | - | - | - |
| RW-04 | 3790.76 | 2/8/21 | - | 67.77 | 0.96+ | LNAPL at TD | 68.73 | - | - | - | - |
| RW-04 | 3790.76 | 3/22/21 | - | 68.05 | 0.87+ | LNAPL at TD | 68.92 | - | - | - | - |
| RW-04 | 3790.76 | 5/3/21 | - | 67.93 | 0.79+ | LNAPL at TD | 68.72 | - | - | - | - |
| RW-04 | 3790.76 | 5/10/21 | - | 67.96 | 0.77+ | LNAPL at TD | 68.73 | - | - | - | - |
| RW-04 | 3790.76 | 7/28/21 | - | 68.17 | 0.58+ | LNAPL at TD | 68.75 | - | - | - | - |
| RW-04 | 3790.76 | 8/10/21 | - | 68.34 | 0.60+ | LNAPL at TD | 68.94 | - | - | - | - |
| RW-04 | 3790.76 | 9/29/21 | - | 68.43 | 0.30+ | LNAPL at TD | 68.73 | - | - | - | - |
| RW-04 | 3790.76 | 10/27/21 | - | 68.48 | 0.25+ | LNAPL at TD | 68.73 | - | - | - | - |
| RW-04 | 3790.76 | 11/10/21 | - | 68.48 | 0.25+ | LNAPL at TD | 68.73 | - | - | - | - |
| RW-04 | 3790.76 | 12/21/21 | - | 68.56 | 0.17+ | LNAPL at TD | 68.73 | - | - | - | - |
| RW-05 | 3791.45 | 1/8/20 | - | - | - | Dry | - | - | - | - | - |
| RW-05 | 3791.45 | 1/15/20 | - | - | - | - | - | - | 0 | 0 | - |
| RW-05 | 3791.45 | 2/11/20 | - | 67.11 | 0.02+ | LNAPL at TD | 67.13 | - | - | - | - |
| RW-05 | 3791.45 | 4/28/20 | - | - | - | Dry | 67.12 | - | - | - | - |
| RW-05 | 3791.45 | 5/12/20 | - | - | - | Dry | 67.13 | - | - | - | - |
| RW-05 | 3791.45 | 6/19/20 | - | - | - | Dry | - | - | - | - | - |
| RW-05 | 3791.45 | 7/29/20 | - | - | - | Dry | - | - | - | - | - |
| RW-05 | 3791.45 | 8/27/20 | - | - | - | Dry | 67.16 | - | - | - | - |
| RW-05 | 3791.45 | 9/14/20 | - | - | - | Dry | 67.10 | - | - | - | - |
| RW-05 | 3791.45 | 10/29/20 | - | - | - | Dry | 67.19 | - | - | - | - |
| RW-05 | 3791.45 | 12/7/20 | - | - | - | Dry | 67.20 | - | - | - | - |
| RW-05 | 3791.45 | 1/25/21 | - | - | - | Dry | 67.10 | - | - | - | - |
| RW-05 | 3791.45 | 2/8/21 | - | - | - | Dry | 67.11 | - | - | - | - |
| RW-05 | 3791.45 | 3/22/21 | - | - | - | Dry | 67.15 | - | - | - | - |
| RW-05 | 3791.45 | 5/3/21 | - | - | - | Dry | 67.15 | - | - | - | - |
| RW-05 | 3791.45 | 5/10/21 | - | 68.34 | 0.31+ | LNAPL at TD | 68.65 | - | - | - | - |
| RW-05 | 3791.45 | 7/28/21 | - | - | - | Dry | 67.13 | - | - | - | - |
| RW-05 | 3791.45 | 8/10/21 | - | - | - | Dry | 67.11 | - | - | - | - |
| RW-05 | 3791.45 | 9/29/21 | - | - | - | Dry | 67.11 | - | - | - | - |
| RW-05 | 3791.45 | 10/27/21 | - | - | - | Dry | 67.11 | - | - | - | - |
| RW-05 | 3791.45 | 11/10/21 | - | - | - | Dry | 67.11 | - | - | - | - |
| RW-05 | 3791.45 | 12/21/21 | - | - | - | Dry | 67.11 | - | - | - | - |
| RW-06 | 3791.39 | 1/8/20 | - | - | - | Dry | - | - | - | - | - |
| RW-06 | 3791.39 | 2/11/20 | - | 67.22 | 0.31+ | LNAPL at TD | 67.53 | - | - | - | - |
| RW-06 | 3791.39 | 4/8/20 | 67.44 | 67.34 | 0.10 | 3724.03 | 67.58 | - | - | - | - |
| RW-06 | 3791.39 | 4/28/20 | 67.45 | 67.35 | 0.10 | 3724.02 | - | - | - | - | - |
| RW-06 | 3791.39 | 5/12/20 | - | 67.37 | 0.16+ | LNAPL at TD | 67.53 | - | - | - | - |
| RW-06 | 3791.39 | 6/19/20 | - | 67.46 | 0.07+ | LNAPL at TD | 67.53 | - | - | - | - |
| RW-06 | 3791.39 | 7/29/20 | 67.60 | - | 0.00 | 3723.79 | - | - | - | - | - |
| RW-06 | 3791.39 | 8/27/20 | - | - | - | Dry | 67.50 | - | - | - | - |
| RW-06 | 3791.39 | 9/14/20 | - | - | - | Dry | 67.45 | - | - | - | - |
| RW-06 | 3791.39 | 10/29/20 | - | - | - | Dry | 67.56 | - | - | - | - |
| RW-06 | 3791.39 | 12/7/20 | - | - | - | Dry | 67.62 | - | - | - | - |
| RW-06 | 3791.39 | 1/25/21 | - | - | - | Dry | 67.45 | - | - | - | - |
| RW-06 | 3791.39 | 2/8/21 | - | - | - | Dry | 67.47 | - | - | - | - |
| RW-06 | 3791.39 | 3/22/21 | - | - | - | Dry | 67.49 | - | - | - | - |
| RW-06 | 3791.39 | 5/3/21 | - | - | - | Dry | 67.52 | - | - | - | - |
| RW-06 | 3791.39 | 5/10/21 | - | - | - | Dry | 67.48 | - | - | - | - |
| RW-06 | 3791.39 | 7/28/21 | - | - | - | Dry | 67.46 | - | - | - | - |
| RW-06 | 3791.39 | 8/10/21 | - | - | - | Dry | 67.50 | - | - | - | - |
| RW-06 | 3791.39 | 9/29/21 | - | - | - | Dry | 67.47 | - | - | - | - |
| RW-06 | 3791.39 | 10/27/21 | - | - | - | Dry | 67.47 | - | - | - | - |
| RW-06 | 3791.39 | 11/10/21 | - | - | - | Dry | 67.47 | - | - | - | - |
| RW-06 | 3791.39 | 12/21/21 | - | - | - | Dry | 67.47 | - | - | - | - |

Table 1
Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Well ID | Elevation of Top of Casing (famsl) | Date | Depth to Groundwater (fbtoc) | Depth to LNAPL (fbtoc) | Thickness of LNAPL (ft.) | Elevation of Potentiometric Surface (famsl) | Measured Well Depth (fbtoc) | Screen Interval (fbgs) Well Diameter (in.) | Volume Product Removed (gal.) | Volume Groundwater Bailed (gal.) | Volume Groundwater Removed by EFR (gal.) |
|---------|------------------------------------|----------|------------------------------|------------------------|--------------------------|---|-----------------------------|--|-------------------------------|----------------------------------|--|
| RW-07 | 3791.51 | 2/11/20 | - | 68.30 | 1.18+ | LNAPL at TD | 69.48 | - | - | - | - |
| RW-07 | 3791.51 | 4/28/20 | - | 67.94 | 1.51+ | LNAPL at TD | 69.45 | - | - | - | - |
| RW-07 | 3791.51 | 5/12/20 | - | 67.90 | 1.58+ | LNAPL at TD | 69.48 | - | - | - | - |
| RW-07 | 3791.51 | 6/19/20 | - | 67.83 | 1.65+ | LNAPL at TD | 69.48 | - | - | - | - |
| RW-07 | 3791.51 | 7/29/20 | - | 67.86 | 1.74+ | LNAPL at TD | 69.60 | - | - | - | - |
| RW-07 | 3791.51 | 8/27/20 | - | 67.87 | 1.55+ | LNAPL at TD | 69.42 | - | - | - | - |
| RW-07 | 3791.51 | 9/14/20 | - | 67.95 | 1.42+ | LNAPL at TD | 69.37 | - | - | - | - |
| RW-07 | 3791.51 | 10/29/20 | - | 68.03 | 1.47+ | LNAPL at TD | 69.5 | - | - | - | - |
| RW-07 | 3791.51 | 12/7/20 | - | 68.03 | 1.47+ | LNAPL at TD | 69.5 | - | - | - | - |
| RW-07 | 3791.51 | 1/25/21 | - | 68.20 | 1.16+ | LNAPL at TD | 69.36 | - | - | - | - |
| RW-07 | 3791.51 | 2/8/21 | - | 68.22 | 1.15+ | LNAPL at TD | 69.37 | - | - | - | - |
| RW-07 | 3791.51 | 3/22/21 | - | 68.33 | 1.06+ | LNAPL at TD | 69.39 | - | - | - | - |
| RW-07 | 3791.51 | 5/3/21 | - | 68.40 | 0.98+ | LNAPL at TD | 69.38 | - | - | - | - |
| RW-07 | 3791.51 | 5/10/21 | - | 68.41 | 0.96+ | LNAPL at TD | 69.37 | - | - | - | - |
| RW-07 | 3791.51 | 7/28/21 | - | 68.58 | 0.80+ | LNAPL at TD | 69.38 | - | - | - | - |
| RW-07 | 3791.51 | 8/10/21 | - | 68.62 | 0.77+ | LNAPL at TD | 69.39 | - | - | - | - |
| RW-07 | 3791.51 | 9/29/21 | - | 68.72 | 0.65+ | LNAPL at TD | 69.37 | - | - | - | - |
| RW-07 | 3791.51 | 10/27/21 | - | 68.76 | 0.61+ | LNAPL at TD | 69.37 | - | - | - | - |
| RW-07 | 3791.51 | 11/10/21 | - | 68.78 | 0.59+ | LNAPL at TD | 69.37 | - | - | - | - |
| RW-07 | 3791.51 | 12/21/21 | - | 68.83 | 0.54+ | LNAPL at TD | 69.37 | - | - | - | - |
| RW-08 | 3790.90 | 2/11/20 | - | 66.93 | 0.93+ | LNAPL at TD | 67.86 | 47-67 (4 in.) | - | - | - |
| RW-08 | 3790.90 | 3/11/20 | - | 67.00 | 0.86+ | LNAPL at TD | 67.86 | - | - | - | - |
| RW-08 | 3790.90 | 3/23/20 | - | 67.00 | 0.86+ | LNAPL at TD | 67.86 | - | - | - | - |
| RW-08 | 3790.90 | 4/28/20 | - | 67.06 | 0.76+ | LNAPL at TD | 67.82 | - | - | - | - |
| RW-08 | 3790.90 | 5/12/20 | - | 67.09 | 0.77+ | LNAPL at TD | 67.86 | - | - | - | - |
| RW-08 | 3790.90 | 6/19/20 | - | 67.17 | 0.69+ | LNAPL at TD | 67.86 | - | - | - | - |
| RW-08 | 3790.90 | 7/29/20 | - | 67.32 | 0.38+ | LNAPL at TD | 67.70 | - | - | - | - |
| RW-08 | 3790.90 | 8/27/20 | - | 67.29 | 0.34+ | LNAPL at TD | 67.63 | - | - | - | - |
| RW-08 | 3790.90 | 9/14/20 | - | 67.37 | 0.10+ | LNAPL at TD | 67.47 | - | - | - | - |
| RW-08 | 3790.90 | 10/29/20 | - | 67.45 | 0.13+ | LNAPL at TD | 67.58 | - | - | - | - |
| RW-08 | 3790.90 | 12/7/20 | - | 67.52 | 0.14+ | LNAPL at TD | 67.66 | - | - | - | - |
| RW-08 | 3790.90 | 1/25/21 | - | - | - | Dry | 67.45 | - | - | - | - |
| RW-08 | 3790.90 | 2/8/21 | - | - | - | Dry | 67.47 | - | - | - | - |
| RW-08 | 3790.90 | 3/22/21 | - | - | - | Dry | 67.43 | - | - | - | - |
| RW-08 | 3790.90 | 5/3/21 | - | - | - | Dry | 67.48 | - | - | - | - |
| RW-08 | 3790.90 | 5/10/21 | - | - | - | Dry | 67.46 | - | - | - | - |
| RW-08 | 3790.90 | 7/28/21 | - | - | - | Dry | 67.46 | - | - | - | - |
| RW-08 | 3790.90 | 8/10/21 | - | - | - | Dry | 67.51 | - | - | - | - |
| RW-08 | 3790.90 | 9/29/21 | - | - | - | Dry | 67.47 | - | - | - | - |
| RW-08 | 3790.90 | 10/27/21 | - | - | - | Dry | 67.47 | - | - | - | - |
| RW-08 | 3790.90 | 11/10/21 | - | - | - | Dry | 67.47 | - | - | - | - |
| RW-08 | 3790.90 | 12/21/21 | - | - | - | Dry | 67.47 | - | - | - | - |
| RW-09 | 3791.33 | 1/15/20 | - | - | - | - | - | - | 0.3 | 0 | - |
| RW-09 | 3791.33 | 2/11/20 | 68.69 | 68.49 | 0.20 | 3722.80 | 73.29 | - | - | - | - |
| RW-09 | 3791.33 | 4/28/20 | 68.81 | 68.60 | 0.21 | 3722.69 | - | - | - | - | - |
| RW-09 | 3791.33 | 5/12/20 | 68.85 | 68.65 | 0.20 | 3722.64 | - | - | - | - | - |
| RW-09 | 3791.33 | 6/19/20 | 68.93 | 68.71 | 0.22 | 3722.58 | - | - | - | - | - |
| RW-09 | 3791.33 | 7/29/20 | 69.05 | 68.81 | 0.24 | 3722.47 | - | - | - | - | - |
| RW-09 | 3791.33 | 8/27/20 | 69.07 | 68.85 | 0.22 | 3722.44 | - | - | - | - | - |
| RW-09 | 3791.33 | 9/14/20 | 69.15 | 68.94 | 0.21 | 3722.35 | - | - | - | - | - |
| RW-09 | 3791.33 | 10/29/20 | 69.30 | 69.03 | 0.27 | 3722.25 | - | - | - | - | - |
| RW-09 | 3791.33 | 12/7/20 | 69.32 | 69.06 | 0.26 | 3722.22 | - | - | - | - | - |
| RW-09 | 3791.33 | 1/25/21 | 69.42 | 69.20 | 0.22 | 3722.09 | - | - | - | - | - |
| RW-09 | 3791.33 | 2/8/21 | 69.45 | 69.25 | 0.20 | 3722.04 | 71.06 | - | - | - | - |
| RW-09 | 3791.33 | 3/22/21 | 69.56 | 69.34 | 0.22 | 3721.95 | - | - | - | - | - |
| RW-09 | 3791.33 | 5/3/21 | 69.63 | 69.41 | 0.22 | 3721.88 | - | - | - | - | - |
| RW-09 | 3791.33 | 5/10/21 | 69.64 | 69.45 | 0.19 | 3721.84 | - | - | - | - | - |
| RW-09 | 3791.33 | 7/28/21 | 69.82 | 69.62 | 0.20 | 3721.67 | - | - | - | - | - |
| RW-09 | 3791.33 | 8/10/21 | 69.89 | 69.68 | 0.21 | 3721.61 | - | - | - | - | - |
| RW-09 | 3791.33 | 9/29/21 | 70.00 | 69.78 | 0.22 | 3721.51 | 71.06 | - | - | - | - |
| RW-09 | 3791.33 | 10/27/21 | 70.01 | 69.76 | 0.25 | 3721.52 | 71.06 | - | - | - | - |
| RW-09 | 3791.33 | 11/10/21 | 70.03 | 69.76 | 0.27 | 3721.52 | 71.06 | - | - | - | - |
| RW-09 | 3791.33 | 12/21/21 | 69.85 | 69.45 | 0.40 | 3721.80 | 71.06 | - | - | - | - |
| RW-10 | 3791.16 | 2/11/20 | - | - | - | Dry | 68.68 | - | - | - | - |
| RW-10 | 3791.16 | 4/28/20 | 68.74 | 67.55 | 1.19 | 3723.38 | - | - | - | - | - |
| RW-10 | 3791.16 | 5/12/20 | - | 67.56 | 1.12+ | LNAPL at TD | 68.68 | - | - | - | - |
| RW-10 | 3791.16 | 6/19/20 | - | 67.62 | 1.06+ | LNAPL at TD | 68.68 | - | - | - | - |
| RW-10 | 3791.16 | 7/29/20 | - | 67.74 | 0.46+ | LNAPL at TD | 68.20 | - | - | - | - |
| RW-10 | 3791.16 | 8/27/20 | - | 67.74 | 0.94+ | LNAPL at TD | 68.68 | - | - | - | - |

Table 1
Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Well ID | Elevation of Top of Casing (famsl) | Date | Depth to Groundwater (fbtoc) | Depth to LNAPL (fbtoc) | Thickness of LNAPL (ft.) | Elevation of Potentiometric Surface (famsl) | Measured Well Depth (fbtoc) | Screen Interval (fbgs) Well Diameter (in.) | Volume Product Removed (gal.) | Volume Groundwater Bailed (gal.) | Volume Groundwater Removed by EFR (gal.) |
|---------|------------------------------------|----------|------------------------------|------------------------|--------------------------|---|-----------------------------|--|-------------------------------|----------------------------------|--|
| RW-10 | 3791.16 | 9/14/20 | - | 67.07 | 1.62+ | LNAPL at TD | 68.69 | - | - | - | - |
| RW-10 | 3791.16 | 10/29/20 | - | 67.93 | 0.37+ | LNAPL at TD | 68.30 | - | - | - | - |
| RW-10 | 3791.16 | 12/7/20 | 68.70 | 67.97 | 0.73 | 3723.05 | - | - | - | - | - |
| RW-10 | 3791.16 | 1/25/21 | - | 68.01 | 0.59+ | LNAPL at TD | 68.60 | - | - | - | - |
| RW-10 | 3791.16 | 2/8/21 | - | 68.13 | 0.52+ | LNAPL at TD | 68.65 | - | - | - | - |
| RW-10 | 3791.16 | 3/22/21 | - | 68.28 | 0.42+ | LNAPL at TD | 68.70 | - | - | - | - |
| RW-10 | 3791.16 | 5/3/21 | - | 68.30 | 0.15+ | LNAPL at TD | 68.45 | - | - | - | - |
| RW-10 | 3791.16 | 5/10/21 | - | 68.34 | 0.31+ | LNAPL at TD | 68.65 | - | - | - | - |
| RW-10 | 3791.16 | 7/28/21 | - | - | - | Dry | 68.46 | - | - | - | - |
| RW-10 | 3791.16 | 8/10/21 | - | 68.53 | 0.12+ | LNAPL at TD | 68.65 | - | - | - | - |
| RW-10 | 3791.16 | 9/29/21 | - | 68.64 | 0.01+ | LNAPL at TD | 68.65 | - | - | - | - |
| RW-10 | 3791.16 | 10/27/21 | - | - | - | Dry | 68.65 | - | - | - | - |
| RW-10 | 3791.16 | 11/10/21 | - | - | - | Dry | 68.65 | - | - | - | - |
| RW-10 | 3791.16 | 12/21/21 | - | - | - | Dry | 68.65 | - | - | - | - |
| RW-11 | 3790.82 | 1/15/20 | - | - | - | - | - | - | 0.4 | 1.6 | - |
| RW-11 | 3790.82 | 1/29/20 | - | - | - | - | - | - | 1.5 | 1.0 | - |
| RW-11 | 3790.82 | 2/11/20 | 68.70 | 68.18 | 0.52 | 3722.54 | 74.93 | - | - | - | - |
| RW-11 | 3790.82 | 2/25/20 | - | - | - | - | - | - | 1.0 | 0.2 | - |
| RW-11 | 3790.82 | 4/28/20 | 69.81 | 68.10 | 1.71 | 3722.40 | - | - | - | - | - |
| RW-11 | 3790.82 | 5/12/20 | 70.00 | 68.08 | 1.92 | 3722.38 | - | - | - | - | - |
| RW-11 | 3790.82 | 6/19/20 | 70.56 | 68.07 | 2.49 | 3722.28 | - | - | - | - | - |
| RW-11 | 3790.82 | 7/29/20 | 71.10 | 68.05 | 3.05 | 3722.19 | - | - | - | - | - |
| RW-11 | 3790.82 | 8/27/20 | 71.42 | 68.04 | 3.38 | 3722.14 | - | - | - | - | - |
| RW-11 | 3790.82 | 9/14/20 | 71.65 | 68.09 | 3.56 | 3722.05 | - | - | - | - | - |
| RW-11 | 3790.82 | 10/29/20 | 72.03 | 68.10 | 3.93 | 3721.97 | - | - | - | - | - |
| RW-11 | 3790.82 | 12/7/20 | 72.35 | 68.09 | 4.26 | 3721.92 | - | - | - | - | - |
| RW-11 | 3790.82 | 1/25/21 | - | 68.04 | 4.25+ | LNAPL at TD | 72.29 | - | - | - | - |
| RW-11 | 3790.82 | 2/8/21 | - | 68.03 | 4.27+ | LNAPL at TD | 72.30 | - | - | - | - |
| RW-11 | 3790.82 | 3/22/21 | - | 68.07 | 4.25+ | LNAPL at TD | 72.32 | - | - | - | - |
| RW-11 | 3790.82 | 5/3/21 | - | 68.13 | 4.17+ | LNAPL at TD | 72.30 | - | - | - | - |
| RW-11 | 3790.82 | 5/10/21 | - | 68.05 | 4.38+ | LNAPL at TD | 72.43 | - | - | - | - |
| RW-11 | 3790.82 | 7/28/21 | - | 68.28 | 4.03+ | LNAPL at TD | 72.31 | - | - | - | - |
| RW-11 | 3790.82 | 8/10/21 | - | 68.33 | 4.01+ | LNAPL at TD | 72.34 | - | - | - | - |
| RW-11 | 3790.82 | 9/29/21 | - | 68.40 | 3.94+ | LNAPL at TD | 72.34 | - | - | - | - |
| RW-11 | 3790.82 | 10/27/21 | - | 68.48 | 3.86+ | LNAPL at TD | 72.34 | - | - | - | - |
| RW-11 | 3790.82 | 11/10/21 | - | 68.48 | 3.86+ | LNAPL at TD | 72.34 | - | - | - | - |
| RW-11 | 3790.82 | 12/21/21 | - | 68.57 | 3.77+ | LNAPL at TD | 72.34 | - | - | - | - |
| RW-12 | 3791.20 | 2/11/20 | 68.21 | - | 0.00 | 3722.99 | 88.59 | - | - | 40.0 | - |
| RW-12 | 3791.20 | 2/25/20 | - | - | - | - | - | - | 0.8 | 0.4 | - |
| RW-12 | 3791.20 | 3/17/20 | - | - | - | - | - | - | - | 3.0 | - |
| RW-12 | 3791.20 | 4/28/20 | 68.38 | - | 0.00 | 3722.82 | - | - | - | - | - |
| RW-12 | 3791.20 | 5/12/20 | 68.36 | - | 0.00 | 3722.84 | - | - | - | 40.0 | - |
| RW-12 | 3791.20 | 6/19/20 | 68.45 | - | 0.00 | 3722.75 | - | - | - | - | - |
| RW-12 | 3791.20 | 7/29/20 | 67.53 | - | 0.00 | 3723.67 | - | - | - | - | - |
| RW-12 | 3791.20 | 8/27/20 | 68.61 | - | 0.00 | 3722.59 | - | - | - | - | - |
| RW-12 | 3791.20 | 9/14/20 | 68.65 | - | 0.00 | 3722.55 | - | - | - | 40.0 | - |
| RW-12 | 3791.20 | 10/29/20 | 68.74 | - | 0.00 | 3722.46 | - | - | - | 38.0 | - |
| RW-12 | 3791.20 | 12/7/20 | 68.83 | - | 0.00 | 3722.37 | - | - | - | 38.0 | - |
| RW-12 | 3791.20 | 1/25/21 | 68.94 | - | 0.00 | 3722.26 | - | - | - | 38.0 | - |
| RW-12 | 3791.20 | 2/8/21 | 69.00 | - | 0.00 | 3722.20 | 85.48 | - | - | 32.0 | - |
| RW-12 | 3791.20 | 3/22/21 | 69.07 | - | 0.00 | 3722.13 | - | - | - | - | - |
| RW-12 | 3791.20 | 5/3/21 | 69.16 | - | 0.00 | 3722.04 | - | - | - | - | - |
| RW-12 | 3791.20 | 5/10/21 | 68.31 | - | 0.00 | 3722.89 | - | - | - | 32.0 | - |
| RW-12 | 3791.20 | 7/28/21 | 69.36 | - | 0.00 | 3721.84 | - | - | - | - | - |
| RW-12 | 3791.20 | 8/10/21 | 69.40 | - | 0.00 | 3721.80 | 85.55 | - | - | 31.5 | - |
| RW-12 | 3791.20 | 9/29/21 | 69.50 | - | 0.00 | 3721.70 | 85.55 | - | - | - | - |
| RW-12 | 3791.20 | 10/27/21 | 69.56 | - | 0.00 | 3721.64 | 85.55 | - | - | - | - |
| RW-12 | 3791.20 | 11/10/21 | 69.57 | - | 0.00 | 3721.63 | 85.55 | - | - | 32.0 | - |
| RW-12 | 3791.20 | 12/21/21 | 69.64 | - | 0.00 | 3721.56 | 85.55 | - | - | - | - |
| RW-13 | 3791.08 | 2/11/20 | 73.32 | 67.39 | 5.93 | 3722.56 | 84.33 | - | - | - | - |
| RW-13 | 3791.08 | 4/28/20 | - | - | - | - | - | - | - | - | - |
| RW-13 | 3791.08 | 5/12/20 | 71.57 | 67.75 | 3.82 | 3722.60 | - | - | - | - | - |
| RW-13 | 3791.08 | 6/19/20 | 73.31 | 67.43 | 5.88 | 3722.53 | - | - | - | - | - |
| RW-13 | 3791.08 | 7/29/20 | 74.04 | 67.74 | 6.30 | 3722.14 | - | - | - | - | - |
| RW-13 | 3791.08 | 8/27/20 | 73.56 | 67.57 | 5.99 | 3722.37 | - | - | - | - | - |
| RW-13 | 3791.08 | 9/14/20 | 73.88 | 67.61 | 6.27 | 3722.28 | - | - | - | - | - |

Table 1
Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Well ID | Elevation of Top of Casing (famsl) | Date | Depth to Groundwater (fbtoc) | Depth to LNAPL (fbtoc) | Thickness of LNAPL (ft.) | Elevation of Potentiometric Surface (famsl) | Measured Well Depth (fbtoc) | Screen Interval (fbgs) Well Diameter (in.) | Volume Product Removed (gal.) | Volume Groundwater Bailed (gal.) | Volume Groundwater Removed by EFR (gal.) |
|---------|------------------------------------|----------|------------------------------|------------------------|--------------------------|---|-----------------------------|--|-------------------------------|----------------------------------|--|
| RW-13 | 3791.08 | 10/29/20 | 71.80 | 68.09 | 3.71 | 3722.29 | - | - | - | - | - |
| RW-13 | 3791.08 | 12/7/20 | - | - | - | - | - | - | - | - | - |
| RW-13 | 3791.08 | 1/25/21 | 73.66 | 67.96 | 5.70 | 3722.04 | - | - | - | - | - |
| RW-13 | 3791.08 | 2/8/21 | 73.85 | 67.95 | 5.90 | 3722.01 | 81.83 | - | - | - | - |
| RW-13 | 3791.08 | 3/22/21 | 74.32 | 68.07 | 6.25 | 3721.82 | - | - | - | - | - |
| RW-13 | 3791.08 | 5/3/21 | 74.26 | 68.09 | 6.17 | 3721.82 | - | - | - | - | - |
| RW-13 | 3791.08 | 5/10/21 | 74.29 | 68.10 | 6.19 | 3721.80 | - | - | - | - | - |
| RW-13 | 3791.08 | 7/28/21 | - | - | - | - | - | - | - | - | - |
| RW-13 | 3791.08 | 8/10/21 | 74.65 | 68.66 | 5.99 | 3721.28 | - | - | - | - | - |
| RW-13 | 3791.08 | 9/29/21 | 71.46 | 68.85 | 2.61 | 3721.73 | - | - | - | - | - |
| RW-13 | 3791.08 | 10/27/21 | - | - | - | Pump | 81.83 | - | - | - | - |
| RW-13 | 3791.08 | 11/10/21 | 75.18 | 68.73 | 6.45 | 3721.12 | 81.83 | - | - | - | - |
| RW-13 | 3791.08 | 12/21/21 | - | - | - | Pump | 81.83 | - | - | - | - |
| RW-14 | 3790.92 | 2/11/20 | 73.69 | 67.48 | 6.21 | 3722.26 | 81.46 | - | - | - | - |
| RW-14 | 3790.92 | 4/21/20 | 77.16 | 66.94 | 10.22 | 3722.04 | - | - | - | - | - |
| RW-14 | 3790.92 | 4/28/20 | - | - | - | - | - | - | - | - | - |
| RW-14 | 3790.92 | 5/12/20 | 74.44 | 67.31 | 7.13 | 3722.26 | - | - | - | - | - |
| RW-14 | 3790.92 | 6/19/20 | - | - | - | - | - | - | - | - | - |
| RW-14 | 3790.92 | 7/29/20 | - | - | - | - | - | - | - | - | - |
| RW-14 | 3790.92 | 8/27/20 | - | - | - | - | - | - | - | - | - |
| RW-14 | 3790.69 | 9/14/20 | 74.74 | 67.80 | 6.94 | 3721.57 | - | - | - | - | - |
| RW-14 | 3790.69 | 10/29/20 | 76.77 | 67.42 | 9.35 | 3721.49 | - | - | - | - | - |
| RW-14 | 3791.08 | 12/7/20 | - | - | - | - | - | - | - | - | - |
| RW-14 | 3791.08 | 1/25/21 | - | - | - | - | - | - | - | - | - |
| RW-14 | 3790.69 | 2/8/21 | 76.55 | 67.71 | 8.84 | 3721.30 | 79.41 | - | - | - | - |
| RW-14 | 3791.08 | 3/22/21 | - | - | - | - | - | - | - | - | - |
| RW-14 | 3791.08 | 5/3/21 | - | - | - | - | - | - | - | - | - |
| RW-14 | 3791.08 | 5/10/21 | 74.93 | 68.20 | 6.73 | 3721.60 | - | - | - | - | - |
| RW-14 | 3791.08 | 7/28/21 | - | - | - | - | - | - | - | - | - |
| RW-14 | 3791.08 | 8/10/21 | 75.88 | 68.51 | 7.37 | 3721.17 | - | - | - | - | - |
| RW-14 | 3791.08 | 9/29/21 | 76.22 | 68.63 | 7.59 | 3721.01 | 79.41 | - | - | - | - |
| RW-14 | 3791.08 | 10/27/21 | 75.30 | 68.66 | 6.64 | 3721.16 | 79.41 | - | - | - | - |
| RW-14 | 3791.08 | 11/10/21 | 75.31 | 68.66 | 6.65 | 3721.16 | 79.41 | - | - | - | - |
| RW-14 | 3791.08 | 12/21/21 | 75.39 | 68.75 | 6.64 | 3721.07 | 79.41 | - | - | - | - |
| RW-15 | 3789.74 | 2/28/20 | - | - | - | - | - | - | - | 45 | - |
| RW-15 | 3789.74 | 3/12/20 | 67.53 | - | 0.00 | 3722.21 | 90.89 | - | - | - | - |
| RW-15 | 3789.74 | 3/23/20 | 67.65 | 67.64 | 0.01 | 3722.10 | 90.96 | - | - | - | - |
| RW-15 | 3789.74 | 4/28/20 | 67.71 | - | 0.00 | 3722.03 | - | - | - | - | - |
| RW-15 | 3789.74 | 5/12/20 | 67.72 | 67.70 | 0.02 | 3722.04 | - | - | - | - | - |
| RW-15 | 3789.74 | 6/19/20 | 67.84 | 67.79 | 0.05 | 3721.94 | - | - | - | - | - |
| RW-15 | 3789.74 | 7/29/20 | 68.00 | 67.75 | 0.25 | 3721.94 | - | - | - | - | - |
| RW-15 | 3789.74 | 8/27/20 | 68.11 | 67.89 | 0.22 | 3721.81 | - | - | - | - | - |
| RW-15 | 3789.74 | 9/14/20 | 68.21 | 67.95 | 0.26 | 3721.74 | - | - | - | - | - |
| RW-15 | 3789.74 | 10/29/20 | 68.43 | 68.00 | 0.43 | 3721.66 | - | - | - | - | - |
| RW-15 | 3789.74 | 12/7/20 | 68.59 | 68.07 | 0.52 | 3721.57 | - | - | - | - | - |
| RW-15 | 3789.74 | 1/25/21 | 68.80 | 68.18 | 0.62 | 3721.44 | - | - | - | - | - |
| RW-15 | 3789.74 | 2/8/21 | 68.84 | 68.21 | 0.63 | 3721.41 | 90.85 | - | - | - | - |
| RW-15 | 3789.74 | 3/22/21 | 69.00 | 68.31 | 0.69 | 3721.30 | - | - | - | - | - |
| RW-15 | 3789.74 | 5/3/21 | 69.09 | 68.38 | 0.71 | 3721.23 | - | - | - | - | - |
| RW-15 | 3789.74 | 5/10/21 | 69.12 | 68.37 | 0.75 | 3721.23 | - | - | - | - | - |
| RW-15 | 3789.74 | 7/28/21 | 69.46 | 68.56 | 0.90 | 3721.01 | - | - | - | - | - |
| RW-15 | 3789.74 | 8/10/21 | 69.49 | 68.56 | 0.93 | 3721.00 | - | - | - | - | - |
| RW-15 | 3789.74 | 9/29/21 | 69.66 | 68.64 | 1.02 | 3720.91 | 90.85 | - | - | - | - |
| RW-15 | 3789.74 | 10/27/21 | 69.70 | 68.68 | 1.02 | 3720.87 | 90.85 | - | - | - | - |
| RW-15 | 3789.74 | 11/10/21 | 69.72 | 68.68 | 1.04 | 3720.86 | 90.85 | - | - | - | - |
| RW-15 | 3789.74 | 12/21/21 | 70.11 | 68.74 | 1.37 | 3720.74 | 90.85 | - | - | - | - |
| RW-16 | 3789.70 | 3/2/20 | 67.28 | - | 0.00 | 3722.42 | 91.15 | - | - | 45 | - |
| RW-16 | 3789.70 | 3/12/20 | 69.54 | 67.70 | 1.84 | 3721.65 | 90.9 | - | - | - | - |
| RW-16 | 3789.70 | 3/23/20 | 71.85 | 67.32 | 4.53 | 3721.52 | 91 | - | - | - | - |
| RW-16 | 3789.70 | 4/28/20 | 73.10 | 67.11 | 5.99 | 3721.45 | - | - | - | - | - |
| RW-16 | 3789.70 | 5/12/20 | 72.88 | 67.20 | 5.68 | 3721.42 | - | - | - | - | - |
| RW-16 | 3789.70 | 6/19/20 | - | - | - | - | - | - | - | - | - |
| RW-16 | 3789.70 | 7/29/20 | - | - | - | - | - | - | - | - | - |
| RW-16 | 3789.70 | 8/27/20 | - | - | - | - | - | - | - | - | - |
| RW-16 | 3789.70 | 9/14/20 | 72.62 | 66.71 | 5.91 | 3721.87 | - | - | - | - | - |
| RW-16 | 3789.70 | 10/29/20 | 73.03 | 67.64 | 5.39 | 3721.04 | - | - | - | - | - |
| RW-16 | 3789.70 | 12/7/20 | - | - | - | - | - | - | - | - | - |
| RW-16 | 3789.70 | 1/25/21 | - | - | - | - | - | - | - | - | - |

Table 1
Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Well ID | Elevation of Top of Casing (famsl) | Date | Depth to Groundwater (fbtoc) | Depth to LNAPL (fbtoc) | Thickness of LNAPL (ft.) | Elevation of Potentiometric Surface (famsl) | Measured Well Depth (fbtoc) | Screen Interval (fbgs) Well Diameter (in.) | Volume Product Removed (gal.) | Volume Groundwater Bailed (gal.) | Volume Groundwater Removed by EFR (gal.) |
|---------|------------------------------------|----------|------------------------------|------------------------|--------------------------|---|-----------------------------|--|-------------------------------|----------------------------------|--|
| RW-16 | 3789.70 | 2/8/21 | 73.13 | 63.86 | 9.27 | 3724.08 | 90.99 | - | - | - | - |
| RW-16 | 3789.70 | 3/22/21 | - | - | - | - | - | - | - | - | - |
| RW-16 | 3789.70 | 5/3/21 | - | - | - | - | - | - | - | - | - |
| RW-16 | 3789.70 | 5/10/21 | 73.32 | 68.10 | 5.22 | 3720.61 | - | - | - | - | - |
| RW-16 | 3789.70 | 7/28/21 | - | - | - | - | - | - | - | - | - |
| RW-16 | 3789.70 | 8/10/21 | 74.77 | 68.12 | 6.65 | 3720.32 | - | - | - | - | - |
| RW-16 | 3789.70 | 9/29/21 | 72.14 | 68.17 | 3.97 | 3720.78 | 90.99 | - | - | - | - |
| RW-16 | 3789.70 | 10/27/21 | - | - | - | Pump | 90.99 | - | - | - | - |
| RW-16 | 3789.70 | 11/10/21 | 75.63 | 68.26 | 7.37 | 3720.04 | 90.99 | - | - | - | - |
| RW-16 | 3789.70 | 12/21/21 | - | - | - | Pump | 90.99 | - | - | - | - |
| RW-17 | 3790.62 | 3/2/20 | 67.94 | - | 0.00 | 3722.68 | 90.85 | - | - | 45 | - |
| RW-17 | 3790.62 | 3/12/20 | 68.18 | 67.93 | 0.25 | 3722.64 | 90.85 | - | - | - | - |
| RW-17 | 3790.62 | 3/23/20 | 68.52 | 68.00 | 0.52 | 3722.52 | 90.97 | - | - | - | - |
| RW-17 | 3790.62 | 4/28/20 | 69.61 | 67.84 | 1.77 | 3722.44 | - | - | - | - | - |
| RW-17 | 3790.62 | 5/12/20 | 70.30 | 67.70 | 2.60 | 3722.43 | - | - | - | - | - |
| RW-17 | 3790.62 | 6/19/20 | 72.75 | 67.27 | 5.48 | 3722.31 | - | - | - | - | - |
| RW-17 | 3790.62 | 7/29/20 | 73.55 | 67.20 | 6.35 | 3722.21 | - | - | - | - | - |
| RW-17 | 3790.62 | 8/27/20 | 73.63 | 67.25 | 6.38 | 3722.16 | - | - | - | - | - |
| RW-17 | 3790.62 | 9/14/20 | 73.65 | 67.31 | 6.34 | 3722.11 | - | - | - | - | - |
| RW-17 | 3790.62 | 10/29/20 | 73.70 | 67.42 | 6.28 | 3722.01 | - | - | - | - | - |
| RW-17 | 3790.62 | 12/7/20 | 73.75 | 67.51 | 6.24 | 3721.92 | - | - | - | - | - |
| RW-17 | 3790.62 | 1/25/21 | 73.82 | 67.65 | 6.17 | 3721.80 | - | - | - | - | - |
| RW-17 | 3790.62 | 2/8/21 | 73.83 | 67.66 | 6.17 | 3721.79 | 90.85 | - | - | - | - |
| RW-17 | 3790.62 | 3/22/21 | 73.90 | 67.77 | 6.13 | 3721.69 | - | - | - | - | - |
| RW-17 | 3790.62 | 5/3/21 | 73.96 | 67.50 | 6.46 | 3721.89 | - | - | - | - | - |
| RW-17 | 3790.62 | 5/10/21 | 73.97 | 67.86 | 6.11 | 3721.60 | - | - | - | - | - |
| RW-17 | 3790.62 | 7/28/21 | 74.13 | 68.05 | 6.08 | 3721.41 | - | - | - | - | - |
| RW-17 | 3790.62 | 8/10/21 | 74.16 | 68.09 | 6.07 | 3721.38 | - | - | - | - | - |
| RW-17 | 3790.62 | 9/29/21 | 74.30 | 68.18 | 6.12 | 3721.28 | 90.85 | - | - | - | - |
| RW-17 | 3790.62 | 10/27/21 | 74.33 | 68.22 | 6.11 | 3721.24 | 90.85 | - | - | - | - |
| RW-17 | 3790.62 | 11/10/21 | 74.33 | 68.22 | 6.11 | 3721.24 | 90.85 | - | - | - | - |
| RW-17 | 3790.62 | 12/21/21 | 74.45 | 68.34 | 6.11 | 3721.12 | 90.85 | - | - | - | - |
| RW-18 | 3790.85 | 3/3/20 | - | - | - | - | - | - | - | 45 | - |
| RW-18 | 3790.85 | 3/12/20 | 69.02 | 67.45 | 1.57 | 3723.10 | 90.75 | - | - | - | - |
| RW-18 | 3790.85 | 3/23/20 | 71.76 | 67.00 | 4.76 | 3722.95 | 90.84 | - | - | - | - |
| RW-18 | 3790.85 | 4/28/20 | 73.25 | 66.75 | 6.50 | 3722.87 | - | - | - | - | - |
| RW-18 | 3790.85 | 5/12/20 | 72.80 | 66.84 | 5.96 | 3722.88 | - | - | - | - | - |
| RW-18 | 3790.85 | 6/19/20 | - | - | - | - | - | - | - | - | - |
| RW-18 | 3790.85 | 7/29/20 | - | - | - | - | - | - | - | - | - |
| RW-18 | 3790.85 | 8/27/20 | - | - | - | - | - | - | - | - | - |
| RW-18 | 3790.85 | 9/14/20 | 73.97 | 67.51 | 6.46 | 3722.11 | - | - | - | - | - |
| RW-18 | 3790.85 | 10/29/20 | 74.06 | 67.58 | 6.48 | 3722.04 | - | - | - | - | - |
| RW-18 | 3790.85 | 12/7/20 | - | - | - | - | - | - | - | - | - |
| RW-18 | 3790.85 | 1/25/21 | - | - | - | - | - | - | - | - | - |
| RW-18 | 3790.85 | 2/8/21 | 74.17 | 67.82 | 6.35 | 3721.82 | 90.67 | - | - | - | - |
| RW-18 | 3790.85 | 3/22/21 | - | - | - | - | - | - | - | - | - |
| RW-18 | 3790.85 | 5/3/21 | - | - | - | - | - | - | - | - | - |
| RW-18 | 3790.85 | 5/10/21 | 74.65 | 67.94 | 6.71 | 3721.64 | - | - | - | - | - |
| RW-18 | 3790.85 | 7/28/21 | - | - | - | - | - | - | - | - | - |
| RW-18 | 3790.85 | 8/10/21 | 75.09 | 68.25 | 6.84 | 3721.30 | - | - | - | - | - |
| RW-18 | 3790.85 | 9/29/21 | 72.33 | 68.35 | 3.98 | 3721.74 | 90.67 | - | - | - | - |
| RW-18 | 3790.85 | 10/27/21 | - | - | - | Pump | 90.67 | - | - | - | - |
| RW-18 | 3790.85 | 11/10/21 | 74.55 | 68.48 | 6.07 | 3721.22 | 90.67 | - | - | - | - |
| RW-18 | 3790.85 | 12/21/21 | - | - | - | Pump | 90.67 | - | - | - | - |
| RW-19 | 3790.46 | 2/27/20 | - | - | - | - | - | - | - | 45 | - |
| RW-19 | 3790.46 | 3/12/20 | 69.20 | 67.45 | 1.75 | 3722.68 | 90.75 | - | - | - | - |
| RW-19 | 3790.46 | 3/23/20 | 70.18 | 67.40 | 2.78 | 3722.53 | 90.98 | - | - | - | - |
| RW-19 | 3790.46 | 4/28/20 | 72.08 | 67.05 | 5.03 | 3722.45 | - | - | - | - | - |
| RW-19 | 3790.46 | 5/12/20 | 72.51 | 66.98 | 5.53 | 3722.43 | - | - | - | - | - |
| RW-19 | 3790.46 | 6/19/20 | 72.98 | 67.00 | 5.98 | 3722.32 | - | - | - | - | - |
| RW-19 | 3790.46 | 7/29/20 | 73.15 | 67.06 | 6.09 | 3722.24 | - | - | - | - | - |
| RW-19 | 3790.46 | 8/27/20 | 73.24 | 67.10 | 6.14 | 3722.19 | - | - | - | - | - |
| RW-19 | 3790.46 | 9/14/20 | 73.30 | 67.18 | 6.12 | 3722.12 | - | - | - | - | - |
| RW-19 | 3790.46 | 10/29/20 | 73.40 | 67.25 | 6.15 | 3722.04 | - | - | - | - | - |
| RW-19 | 3790.46 | 12/7/20 | 73.52 | 67.33 | 6.19 | 3721.95 | - | - | - | - | - |
| RW-19 | 3790.46 | 1/25/21 | 73.65 | 67.46 | 6.19 | 3721.82 | - | - | - | - | - |
| RW-19 | 3790.46 | 2/8/21 | 73.68 | 67.50 | 6.18 | 3721.79 | 90.86 | - | - | - | - |
| RW-19 | 3790.46 | 3/22/21 | 73.79 | 67.58 | 6.21 | 3721.70 | - | - | - | - | - |
| RW-19 | 3790.46 | 5/3/21 | 73.86 | 67.67 | 6.19 | 3721.61 | - | - | - | - | - |
| RW-19 | 3790.46 | 5/10/21 | 73.86 | 67.68 | 6.18 | 3721.61 | - | - | - | - | - |

**Table 1
 Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
 Plains Pipeline, L.P.
 Darr Angell No. 1
 Lea County, New Mexico**

| <i>Well ID</i> | <i>Elevation of Top of Casing (famsl)</i> | <i>Date</i> | <i>Depth to Groundwater (fbtoc)</i> | <i>Depth to LNAPL (fbtoc)</i> | <i>Thickness of LNAPL (ft.)</i> | <i>Elevation of Potentiometric Surface (famsl)</i> | <i>Measured Well Depth (fbtoc)</i> | <i>Screen Interval (fbgs) Well Diameter (in.)</i> | <i>Volume Product Removed (gal.)</i> | <i>Volume Groundwater Bailed (gal.)</i> | <i>Volume Groundwater Removed by EFR (gal.)</i> |
|----------------|---|-------------|-------------------------------------|-------------------------------|---------------------------------|--|------------------------------------|---|--------------------------------------|---|---|
| RW-19 | 3790.46 | 7/28/21 | 74.11 | 67.86 | 6.25 | 3721.41 | - | - | - | - | - |
| RW-19 | 3790.46 | 8/10/21 | 74.09 | 67.89 | 6.20 | 3721.39 | - | - | - | - | - |
| RW-19 | 3790.46 | 9/29/21 | 74.15 | 67.99 | 6.16 | 3721.30 | 90.86 | - | - | - | - |
| RW-19 | 3790.46 | 10/27/21 | 74.18 | 68.03 | 6.15 | 3721.26 | 90.86 | - | - | - | - |
| RW-19 | 3790.46 | 11/10/21 | 74.20 | 68.05 | 6.15 | 3721.24 | 90.86 | - | - | - | - |
| RW-19 | 3790.46 | 12/21/21 | 74.30 | 68.14 | 6.16 | 3721.15 | 90.86 | - | - | - | - |

Notes:

1. famsl - Feet above mean sea level
2. fbtoe - Feet below top of casing
3. LNAPL - Light non-aqueous phase liquid.
4. fbgs - Feet below ground surface.
5. Factor of 0.81 was used for density of LNAPL to calculate elevation of potentiometric surface where measureable thickness of LNAPL was present.
6. LNAPL at TD - LNAPL was present at bottom of well; therefore full thickness of LNAPL could not be determined.

Table 2
BTEX Analytical Results for Groundwater Sampling Events 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Sample ID | Sample Date | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes |
|----------------|-------------|-------------------------------|-------------------|------------------------|---------------|
| | | NMWQCC Human Health Standards | | | |
| | | 0.01 | 0.75 | 0.75 | 0.62 |
| MW-2 | 2/14/20 | 0.0188 | <0.000412 | <0.000160 | 0.000510 |
| MW-2 | 5/14/20 | <0.000190 | 0.000734 J | 0.000363 J | 0.00746 |
| MW-2 | 2/22/21 | 0.00583 | <0.000412 | <0.000160 | 0.0757 |
| MW-2 | 8/11/21 | 0.0144 | <0.000412 | <0.000160 | 0.0519 |
| MW-2 (DUP-2) | 8/11/21 | 0.0262 | <0.000412 | <0.000160 | 0.145 |
| MW-2 | 11/11/21 | <0.000190 | <0.000412 | <0.000160 | 0.00180 B |
| MW-2 (DUP) | 11/11/21 | 0.000425 J | 0.000299 J | 0.000162 J | 0.000630 J |
| MW-4 | 11/2/20 | 0.00402 J | <0.000412 | <0.000160 | <0.000510 |
| MW-6 | 2/14/20 | 0.0291 | <0.0291 | 0.00865 | 0.00736 |
| MW-6 | 5/14/20 | 0.0223 | <0.000412 | 0.000855 | 0.00447 |
| MW-6 | 9/18/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-6 (DUP-2) | 9/18/20 | 0.0268 | <0.000412 | <0.000160 | 0.00285 |
| MW-6 | 11/5/20 | 0.00438 | <0.000412 | 0.00168 | 0.00321 |
| MW-6 (DUP-2) | 11/5/20 | 0.00604 | <0.000412 | 0.00199 | 0.00344 |
| MW-6 | 2/22/21 | 0.00170 | <0.000412 | 0.000836 | 0.00192 |
| MW-6 (DUP-2) | 2/22/21 | 0.00166 | <0.000412 | 0.000835 | 0.0019 |
| MW-6 | 5/14/21 | <0.000190 | <0.000412 | 0.000348 J | 0.00201 |
| MW-6 | 8/11/21 | 0.00405 | <0.000412 | <0.000160 | 0.0280 |
| MW-6 | 11/11/21 | 0.000858 | <0.000412 | <0.000160 | 0.000559 B J |
| MW-7 | 5/14/20 | 0.000267 J | <0.000412 | 0.000515 | 0.00112 J |
| MW-7 | 9/18/20 | 0.0249 | <0.000412 | <0.000160 | 0.00552 |
| MW-7 (DUP-1) | 9/18/20 | 0.000399 J | <0.000412 | <0.000160 | 0.00107 J |
| MW-7 | 11/2/20 | 0.000747 | <0.000412 | <0.000160 | 0.00107 J |
| MW-7 (DUP-1) | 11/2/20 | 0.000846 | <0.000412 | <0.000160 | <0.000510 |
| MW-7 | 5/14/21 | <0.000190 | <0.000412 | 0.000310 J | 0.00192 |
| MW-7 | 11/11/21 | 0.000667 | <0.000412 | <0.000160 | <0.000510 |
| MW-11R | 3/26/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-11R | 5/14/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-11R | 9/17/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-11R | 11/2/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-11R | 2/22/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-11R | 5/14/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-11R | 8/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-11R | 11/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-12R | 2/14/20 | 0.000366 B J | 0.000476 B J | <0.000160 | 0.000783 B J |
| MW-12R | 5/14/20 | 0.000247 J | <0.000412 | <0.000160 | <0.000510 |
| MW-12R | 9/18/20 | 0.000654 | <0.000412 | <0.000160 | 0.00194 |
| MW-12R | 11/2/20 | 0.00395 J | <0.000412 | <0.000160 | <0.000510 |
| MW-12R | 2/22/21 | 0.000626 | <0.000412 | 0.000240 J | <0.000510 |
| MW-12R | 5/14/21 | <0.000190 | <0.000412 | 0.000305 J | 0.000655 J |
| MW-12R (DUP-2) | 5/14/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |

Table 2
BTEX Analytical Results for Groundwater Sampling Events 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Sample ID | Sample Date | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes |
|----------------|-------------|-------------------------------|-------------------|------------------------|------------------|
| | | NMWQCC Human Health Standards | | | |
| | | 0.01 | 0.75 | 0.75 | 0.62 |
| MW-12R | 8/11/21 | 0.000811 | <0.000412 | 0.000211 B J | <0.000510 |
| MW-12R | 11/11/21 | 0.00135 | <0.000412 | 0.000300 B J | <0.000510 |
| | | | | | |
| MW-16R | 2/13/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-16R | 5/14/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-16R | 9/17/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-16R | 11/2/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-16R | 2/22/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-16R (DUP-1) | 2/22/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-16R | 5/14/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-16R | 8/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-16R | 11/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| | | | | | |
| MW-17R | 2/13/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-17R | 5/14/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-17R | 9/18/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-17R | 11/2/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-17R | 2/22/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-17R | 5/14/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-17R | 8/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-17R | 11/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| | | | | | |
| MW-18R | 2/13/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-18R | 5/14/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-18R (DUP-1) | 5/14/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-18R | 9/18/20 | 0.000660 | <0.000412 | <0.000160 | 0.00137 J |
| MW-18R | 11/2/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-18R | 2/22/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-18R | 5/14/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-18R | 8/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-18R | 11/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| | | | | | |
| MW-19R | 2/13/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-19R | 5/14/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-19R | 9/18/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-19R | 11/2/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-19R | 2/22/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-19R | 5/14/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-19R | 8/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-19R | 11/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| | | | | | |
| MW-20R | 2/13/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-20R | 5/14/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-20R | 9/17/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-20R | 11/2/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-20R | 2/22/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-20R | 5/14/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |

Table 2
BTEX Analytical Results for Groundwater Sampling Events 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Sample ID | Sample Date | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes |
|----------------|-------------|-------------------------------|-------------------|------------------------|----------------|
| | | NMWQCC Human Health Standards | | | |
| | | 0.01 | 0.75 | 0.75 | 0.62 |
| MW-20R | 8/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-20R | 11/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| | | | | | |
| MW-21R | 3/26/20 | <0.00190 | <0.00412 | <0.000160 | <0.000510 |
| MW-21R | 5/14/20 | <0.00190 | <0.00412 | <0.000160 | <0.000510 |
| MW-21R | 9/17/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-21R | 11/2/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-21R | 2/22/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-21R | 5/14/21 | <0.000190 | <0.000412 | 0.000183 J | <0.000510 |
| MW-21R (DUP-1) | 5/14/21 | <0.000190 | <0.000412 | 0.000302 J | <0.000510 |
| MW-21R | 8/11/21 | 0.000195 J | <0.000412 | 0.000228 B J | <0.000510 |
| MW-21R | 11/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| | | | | | |
| MW-22 | 2/13/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-22 | 5/14/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-22 | 9/18/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-22 | 11/2/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-22 | 2/22/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-22 | 5/14/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-22 | 8/11/21 | 0.000269 J | <0.000412 | <0.000160 | <0.000510 |
| MW-22 | 11/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| | | | | | |
| MW-24 | 3/26/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-24 | 5/14/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-24 | 9/17/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-24 | 11/2/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-24 | 2/22/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-24 | 5/14/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-24 | 8/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-24 | 11/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| | | | | | |
| MW-25 | 3/26/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-25 (DUP-1) | 3/26/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-25 | 5/14/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-25 (DUP-2) | 5/14/2020 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-25 | 9/17/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-25 | 11/2/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-25 | 2/22/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-25 | 5/14/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-25 | 8/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| MW-25 | 11/11/21 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| | | | | | |
| RW-12 | 2/14/20 | 0.00479 | 0.00242 B | 0.00688 | 0.061 |
| RW-12 | 5/14/20 | 0.00199 | 0.00485 | 0.000594 | 0.105 |
| RW-12 | 9/17/20 | 0.000599 | 0.000742 | <0.000160 | 0.0138 |
| RW-12 | 11/2/20 | <0.000190 | <0.000412 | <0.000160 | 0.00349 |
| RW-12 | 2/22/21 | <0.000190 | <0.000412 | <0.000160 | 0.00821 |

Table 2
BTEX Analytical Results for Groundwater Sampling Events 2020-2021
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Sample ID | Sample Date | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes |
|---------------|-------------|-------------------------------|-------------------|------------------------|----------------|
| | | NMWQCC Human Health Standards | | | |
| | | 0.01 | 0.75 | 0.75 | 0.62 |
| RW-12 | 5/14/21 | 0.00138 | 0.00325 | 0.00118 | 0.104 |
| RW-12 | 8/11/21 | 0.000489 J | <0.000412 | 0.000212 B J | 0.00545 |
| RW-12 (DUP-1) | 8/11/21 | 0.000672 | <0.000412 | 0.000197 B J | 0.00765 |
| RW-12 | 11/11/21 | <0.000190 | <0.000412 | 0.000219 B J | 0.0129 |
| | | | | | |
| Trip Blank | 2/14/20 | <0.000190 | <0.000412 | <0.000160 | <0.000510 |
| | | | | | |

Notes:

1. Yellow shaded cells indicate concentrations exceeding New Mexico Water Quality Control Commission Human Health Standards.
2. Bold indicates detection.
3. BTEX analyses by EPA Method 8021B.
4. MW-12R, MW-16R, MW-18R, MW-22, MW-23, and RW-12 were installed in February 2017.
5. Flag J indicates the identification of the analyte is acceptable and the reported result is an estimate.
6. Flag B indicates the same analyte is found in the associated blank.

Table 3
 Polycyclic Aromatic Hydrocarbons Analytical Results
 Plains Pipeline, L.P.
 Darr Angell No. 1
 Lea County, New Mexico

| Sample ID | Sample Date | Anthracene | Acenaphthene (mg/L) | Acenaphthylene (mg/l) | Benzo(a)anthracene (mg/L) | Benzo(b)pyrene (mg/L) | Benzo(k)fluoranthene (mg/L) | Benzo(g,h,i)perylene (mg/L) | Benzo(k)fluoranthene (mg/L) | Chrysene (mg/L) | Dibenzo(a,h)anthracene (mg/L) | Dibenzofuran (mg/L) | Fluoranthene (mg/L) | Fluorene (mg/L) | Indeno(1,2,3-cd)pyrene (mg/L) | Phenanthrene (mg/L) | Pyrene (mg/L) | Naphthalene (mg/L) | 1-Methylnaphthalene (mg/L) | 2-Methylnaphthalene (mg/L) |
|-----------|-------------|----------------------------|---------------------|-----------------------|---------------------------|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|-------------------------------|---------------------|---------------------|-----------------|-------------------------------|---------------------|---------------|--------------------|----------------------------|----------------------------|
| | | NMOCD Regulatory Standards | | | | | | | | | | | | | | | | | | |
| | | 0.001 | 0.001 | 0.001 | 0.001 | 0.0002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.03 | 0.03 | 0.03 |
| MW-1 | 11/24/08 | <0.000183 | <0.000183 | 0.00485 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | 0.0106 | <0.000183 | 0.0167 | <0.000183 | 0.0205 | <0.000183 | 0.122 | 0.173 | 0.250 |
| MW-1 | 12/08/09 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | 0.0164 | <0.000922 | 0.0436 | <0.000922 | 0.0719 | <0.000922 | 0.106 | <0.000922 | 0.350 | 0.748 | 1.09 |
| MW-2 | 10/24/19 | 0.00120 | 0.000502 | <0.0000120 | 0.000537 | 0.000323 | 0.0000671 J | 0.0000552 J | <0.0000136 | 0.000253 | <0.00000396 | 0.00102 | 0.000181 | 0.00182 | <0.0000148 | 0.00290 | 0.000539 | 0.00140 | 0.00629 | 0.00159 |
| MW-2 | 11/11/21 | <0.0000190 | 0.00348 | <0.0000171 | <0.0000203 | <0.0000184 J3 | 0.000378 | 0.000345 J3 | 0.0000983 J3 | 0.00139 | <0.0000160 J3 | 0.00790 | 0.00142 | 0.0128 | <0.0000158 J3 | 0.0190 | <0.0000169 | 0.0114 | 0.0607 | 0.0511 |
| MW-4 | 11/24/08 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 |
| MW-4 | 12/07/09 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 |
| MW-5 | 11/24/08 | 0.0424 | <0.000917 | 0.0806 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | 0.0201 | <0.000917 | 0.0326 | <0.000917 | 0.0427 | <0.000917 | 0.136 | 0.261 | 0.372 |
| MW-5 | 12/07/09 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | 0.00262 | <0.000184 | 0.00767 | <0.000184 | 0.0122 | <0.000184 | 0.0172 | <0.000184 | 0.0779 | 0.137 | 0.194 |
| MW-6 | 11/29/18 | 0.000306 | 0.000311 | <0.0000120 | <0.0000410 | <0.0000116 | 0.0000189 J | 0.0000137 J | <0.0000136 | <0.0000108 | <0.00000396 | 0.000334 | 0.0000159 J | 0.000146 | <0.0000148 | 0.000293 | 0.000141 | 0.00196 | 0.00188 | 0.00107 |
| MW-6 | 10/24/19 | 0.0000833 | 0.000313 | <0.0000120 | <0.0000410 | <0.0000116 | <0.00000212 | <0.00000227 | <0.0000136 | <0.0000108 | <0.00000396 | 0.000332 | <0.0000157 | 0.0000546 | <0.0000148 | 0.000139 | 0.0000246 J | 0.00161 | 0.000970 | 0.000783 |
| MW-7 | 11/29/18 | <0.0000140 | 0.0000476 J | <0.0000120 | <0.0000410 | <0.0000116 | <0.00000212 | <0.00000227 | <0.0000136 | <0.0000108 | <0.00000396 | 0.00028 | <0.0000157 | <0.00000850 | <0.0000148 | 0.0000751 | <0.0000117 | 0.000254 B | 0.000367 | 0.0000983 J |
| MW-7 | 10/24/19 | <0.0000140 | <0.0000100 | <0.0000120 | <0.0000410 | <0.0000116 | <0.00000212 | <0.00000227 | <0.0000136 | <0.0000108 | <0.00000396 | 0.0000667 B J | <0.0000157 | <0.0000085 | <0.0000148 | <0.00000820 | <0.0000117 | 0.0000281 B J | 0.0000148 B J | 0.0000138 B J |
| MW-8 | 11/25/08 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | 0.0861 | <0.000184 | 0.135 | <0.000184 | 0.188 | <0.000184 | 0.529 | 1.26 | 1.86 |
| MW-8 | 12/08/09 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | 0.0165 | <0.000917 | 0.0566 | <0.000917 | 0.0789 | <0.000917 | 0.113 | <0.000917 | 0.359 | 0.839 | 1.14 |
| MW-9 | 11/25/08 | <0.000184 | <0.000184 | 0.00163 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | 0.00172 | <0.000184 | 0.00578 | <0.000184 | 0.00846 | <0.000184 | 0.0104 | <0.000184 | 0.0641 | 0.0851 | 0.112 |
| MW-10 | 11/24/08 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | 0.0286 | <0.000922 | 0.0382 | <0.000922 | 0.0512 | <0.000922 | 0.212 | 0.382 | 0.537 |
| MW-10 | 12/08/09 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | 0.0357 | <0.000917 | 0.112 | <0.000917 | 0.172 | <0.000917 | 0.245 | <0.000917 | 0.856 | 1.89 | 2.64 |
| MW-11R | 11/02/20 | <0.0000190 | <0.0000190 | <0.0000171 | <0.0000203 | <0.0000184 | <0.0000168 | <0.0000184 | <0.0000202 | <0.0000179 | <0.0000160 | <0.0000191 | <0.0000270 | <0.0000169 | <0.0000158 | <0.0000180 | <0.0000169 | <0.0000917 | <0.0000687 | <0.0000674 |
| MW-11R | 11/11/21 | <0.0000190 | <0.0000190 | <0.0000171 | <0.0000203 | <0.0000184 J3 | <0.0000168 | <0.0000184 J3 | <0.0000202 J3 | <0.0000179 | <0.0000160 J3 | <0.0000191 | <0.0000270 | <0.0000169 | <0.0000158 J3 | <0.0000180 | <0.0000169 | <0.0000917 | <0.0000687 | <0.0000674 |
| MW-12R | 11/29/18 | <0.0000140 | <0.0000100 | <0.0000120 | <0.0000410 | <0.0000116 | 0.00000214 J | <0.00000227 | <0.0000136 | <0.0000108 | <0.00000396 | 0.00000847 B J | <0.0000157 | <0.00000850 | <0.0000148 | 0.0000133 J | <0.0000117 | 0.0000307 B J | <0.00000821 | <0.00000902 |
| MW-12R | 10/24/19 | <0.0000140 | <0.0000100 | <0.0000120 | <0.0000410 | <0.0000116 | <0.00000212 | <0.00000227 | <0.0000136 | <0.0000108 | <0.00000396 | 0.00000710 B J | <0.0000157 | <0.0000085 | <0.0000148 | 0.00000922 J | <0.0000117 | 0.0000286 B J | 0.0000150 B J | 0.0000132 B J |
| MW-16R | 11/02/20 | <0.0000190 | <0.0000190 | <0.0000171 | <0.0000203 | <0.0000184 | <0.0000168 | <0.0000184 | <0.0000202 | <0.0000179 | <0.0000160 | <0.0000191 | <0.0000270 | <0.0000169 | <0.0000158 | <0.0000180 | <0.0000169 | <0.0000917 | <0.0000687 | <0.0000674 |
| MW-16R | 11/11/21 | <0.0000190 | <0.0000190 | <0.0000171 | <0.0000203 | <0.0000184 J3 | <0.0000168 | <0.0000184 J3 | <0.0000202 J3 | <0.0000179 | <0.0000160 J3 | <0.0000191 | <0.0000270 | <0.0000169 | <0.0000158 J3 | <0.0000180 | <0.0000169 | <0.0000917 | <0.0000687 | <0.0000674 |
| MW-17R | 12/11/14 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 |
| MW-17R | 12/04/15 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 |
| MW-18R | 12/01/17 | <0.000184 | <0.000184 | <0.000184 | 0.000257 | <0.000184 | 0.000252 | 0.000298 | 0.000278 | 0.000250 | 0.000348 | <0.000184 | 0.000286 | <0.000184 | 0.000329 | <0.000184 | 0.00029 | <0.000368 | <0.000184 | <0.000184 |
| MW-18R | 11/29/18 | <0.0000140 | <0.0000100 | <0.0000120 | <0.0000410 | <0.0000116 | <0.00000212 | <0.00000227 | <0.0000136 | <0.0000108 | <0.00000396 | 0.00000623 B J | <0.0000157 | <0.00000850 | <0.0000148 | 0.00000952 J | <0.0000117 | 0.000134 B J | 0.0000439 J | 0.0000423 J |
| MW-19R | 11/04/16 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | <0.000185 | 0.000296 | <0.000185 | <0.000185 | <0.000185 |
| MW-19R | 11/29/18 | <0.0000140 | <0.0000100 | <0.0000120 | <0.0000410 | <0.0000116 | <0.00000212 | <0.00000227 | <0.0000136 | <0.0000108 | <0.00000396 | 0.00000399 B J | <0.0000157 | <0.00000850 | <0.0000148 | <0.00000820 | <0.0000117 | 0.0000460 B J | <0.00000821 | <0.00000902 |
| MW-20R | 12/11/14 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 | <0.000186 |
| MW-20R | 12/04/15 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 | <0.000196 |
| MW-21R | 11/02/20 | <0.0000190 | <0.0000190 | <0.0000171 | <0.0000203 | <0.0000184 | <0.0000168 | <0.0000184 | <0.0000202 | <0.0000179 | <0.0000160 | <0.0000191 | <0.0000270 | <0.0000169 | <0.0000158 | <0.0000180 | <0.0000169 | <0.0000917 | <0.0000687 | <0.0000674 |
| MW-21R | 11/11/21 | <0.0000190 | <0.0000190 | <0.0000171 | <0.0000203 | <0.0000184 J3 | <0.0000168 | <0.0000184 J3 | <0.0000202 J3 | <0.0000179 | <0.0000160 J3 | <0.0000191 | <0.0000270 | <0.0000169 | <0.0000158 J3 | <0.0000180 | <0.0000169 | <0.0000917 | <0.0000687 | <0.0000674 |
| MW-22 | 11/29/18 | <0.0000140 | <0.0000100 | <0.0000120 | <0.0000410 | <0.0000116 | <0.00000212 | <0.00000227 | <0.0000136 | <0.0000108 | <0.00000396 | 0.00000399 B J | <0.0000157 | <0.00000850 | <0.0000148 | <0.00000820 | <0.0000117 | 0.0000537 B J | <0.00000821 | <0.00000902 |
| MW-22 | 10/24/19 | <0.0000140 | <0.0000100 | <0.0000120 | <0.0000410 | <0.0000116 | <0.00000212 | <0.00000227 | <0.0000136 | <0.0000108 | <0.00000396 | 0.00000625 B J | <0.0000157 | <0.00000850 | <0.0000148 | <0.00000820 | <0.0000117 | 0.0000362 B J | 0.00001 | |

Table 3
Polycyclic Aromatic Hydrocarbons Analytical Results
Plains Pipeline, L.P.
Darr Angell No. 1
Lea County, New Mexico

| Sample ID | Sample Date | Anthracene | Acenaphthene (mg/L) | Acenaphthylene (mg/l) | Benzo(a)anthracene (mg/L) | Benzo(e)pyrene (mg/L) | Benzo(b)fluoranthene (mg/L) | Benzo(g,h,i)perylene (mg/L) | Benzo(k)fluoranthene (mg/L) | Chrysene (mg/L) | Dibenzo(a,h)anthracene (mg/L) | Dibenzofuran (mg/L) | Fluoranthene (mg/L) | Fluorene (mg/L) | Indeno(1,2,3-cd)pyrene (mg) | Phenanthrene (mg/L) | Pyrene (mg/L) | Naphthalene (mg/L) | 1-Methylthalene (mg) | 2-Methylnaphthalene (mg/L) |
|-----------|-------------|----------------------------------|---------------------|-----------------------|---------------------------|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|-------------------------------|-----------------------|---------------------|-----------------|-----------------------------|---------------------|---------------|----------------------|----------------------|----------------------------|
| | | NMOC Regulatory Standards | | | | | | | | | | | | | | | | | | |
| | | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.03 | 0.03 | 0.03 |
| RW-5 | 12/08/09 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | 0.0166 | <0.000917 | 0.0426 | <0.000917 | 0.0726 | <0.000917 | 0.105 | <0.000917 | 0.338 | 0.726 | 1.07 |
| RW-6 | 11/25/08 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | 0.0286 | <0.000917 | 0.0751 | <0.000917 | 0.126 | <0.000917 | 0.167 | <0.000917 | 0.564 | 1.33 | 1.93 |
| RW-6 | 12/08/09 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | 0.0110 | <0.000922 | 0.0180 | <0.000922 | 0.0330 | <0.000922 | 0.0456 | <0.000922 | 0.175 | 0.327 | 0.462 |
| RW-7 | 11/25/08 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | <0.000922 | 0.0254 | <0.000922 | 0.0709 | <0.000922 | 0.106 | <0.000922 | 0.143 | <0.000922 | 0.477 | 1.07 | 1.55 |
| RW-7 | 12/08/09 | <0.00862 | <0.00862 | <0.00862 | <0.00862 | <0.00862 | <0.00862 | <0.00862 | <0.00862 | 0.191 | <0.00862 | 0.0531 | <0.00862 | 0.844 | <0.00862 | 1.28 | <0.00862 | 3.95 | 9.15 | 13.1 |
| RW-8 | 11/25/08 | <0.00459 | <0.00459 | <0.00459 | <0.00459 | <0.00459 | <0.00459 | <0.00459 | <0.00459 | <0.00459 | <0.00459 | 0.214 | <0.00459 | 0.342 | <0.00459 | 0.436 | <0.00459 | 1.17 | 2.87 | 4.15 |
| RW-8 | 12/08/09 | <0.00461 | <0.00461 | <0.00461 | <0.00461 | <0.00461 | <0.00461 | <0.00461 | <0.00461 | 0.116 | <0.00461 | 0.294 | <0.00461 | 0.480 | <0.00461 | 0.704 | <0.00461 | 2.16 | 5.04 | 7.19 |
| RW-9 | 11/25/08 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | 0.0488 | <0.000917 | 0.064 | <0.000917 | 0.0838 | <0.000917 | 0.294 | 0.587 | 0.841 |
| RW-9 | 12/08/09 | <0.00183 | <0.00183 | <0.00183 | <0.00183 | <0.00183 | <0.00183 | <0.00183 | <0.00183 | 0.0186 | <0.00183 | 0.0576 | <0.00183 | 0.0795 | <0.00183 | 0.117 | <0.00183 | 0.402 | 0.890 | 1.24 |
| RW-10 | 12/08/09 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | 0.00344 | <0.000183 | 0.00496 | <0.000183 | 0.00643 | <0.000183 | 0.0478 | 0.0674 | 0.0898 |
| RW-11 | 11/25/08 | <0.000917 | 0.0062 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | 0.0105 | <0.000917 | 0.0269 | <0.000917 | 0.0426 | <0.000917 | 0.0571 | <0.000917 | 0.145 | 0.322 | 0.441 |
| RW-12 | 11/29/18 | <0.0000140 | <0.0000100 | <0.0000120 | <0.00000410 | <0.0000116 | <0.00000212 | <0.00000227 | <0.0000136 | <0.0000108 | <0.00000396 | 0.00000538 B J | <0.0000157 | <0.00000850 | <0.0000148 | <0.00000820 | <0.0000117 | 0.000138 B J | 0.0000167 J | <0.00000902 |
| RW-12 | 11/12/19 | <0.00000800 | <0.0000100 | <0.00000700 | 0.0000120 J | <0.0000158 | 0.00000573 J | 0.00000505 J | <0.0000255 | <0.0000144 | <0.00000454 | 0.00000221 J | <0.0000165 | <0.00000898 | <0.00000739 | <0.0000184 | <0.0000155 | 0.0000393 B J | <0.0000189 | <0.0000155 |

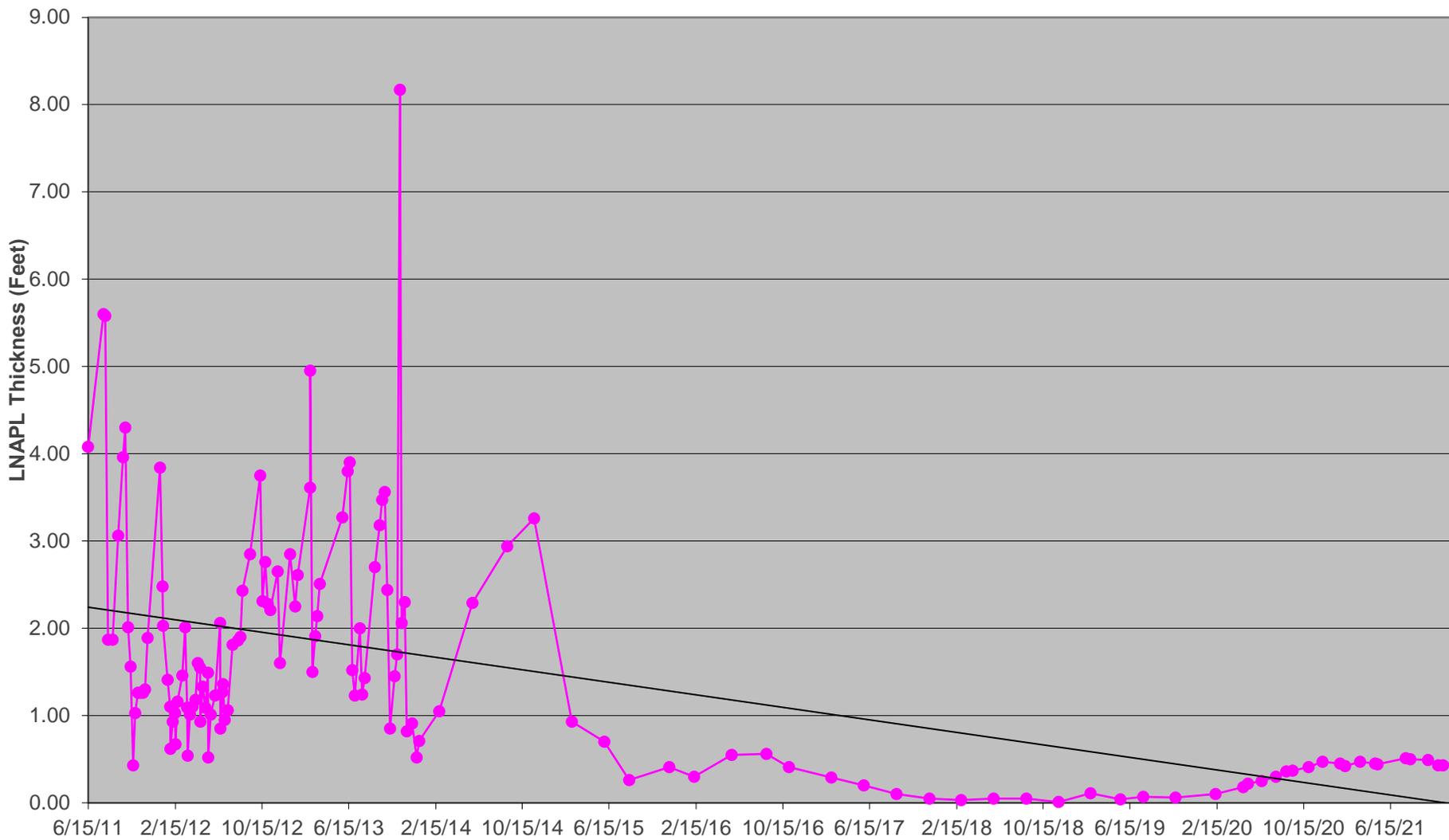
Notes:

1. PAH analyses by EPA Method 8270D.
2. Shaded cells indicate NMWQCC Drinking Water Standards Section 1-101.UU and 3-103.A exceedance.
3. **Bold** indicates detection.
4. Nova Training and Environmental collected samples from 2008 through 2010.
5. Flag J indicates the identification of the analyte is acceptable and the reported result is an estimate.
6. Flag B indicates the same analyte is found in the associated blank.
7. Regulatory standards of 0.001 mg/L noted above are requirements of the NMOC. Other standards are required by NMAC 20.6.2.3103 Section A..

Appendix A

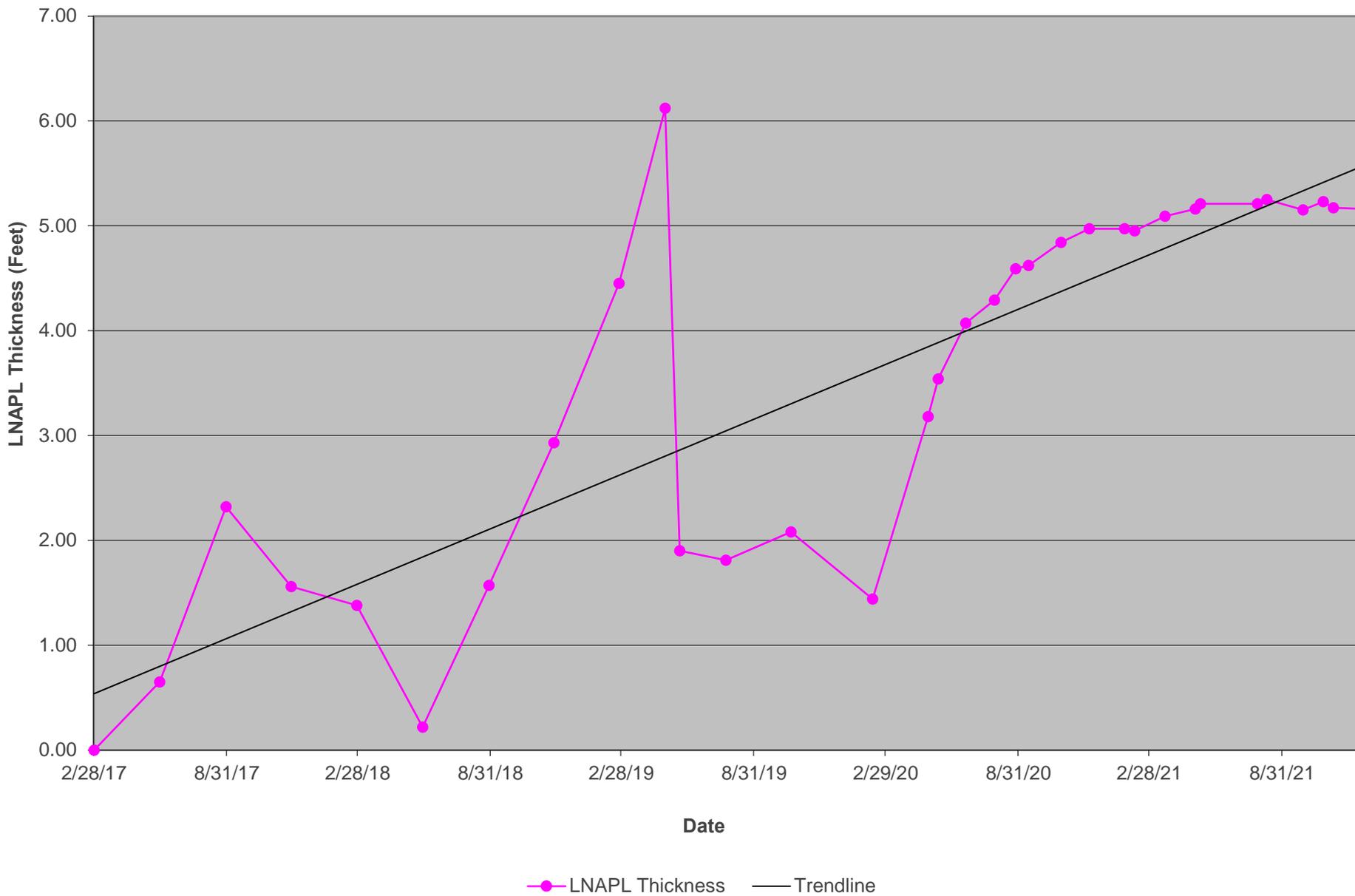
Charts of LNAPL Thickness Versus Time

DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
LNAPL THICKNESS vs. TIME
MW-8

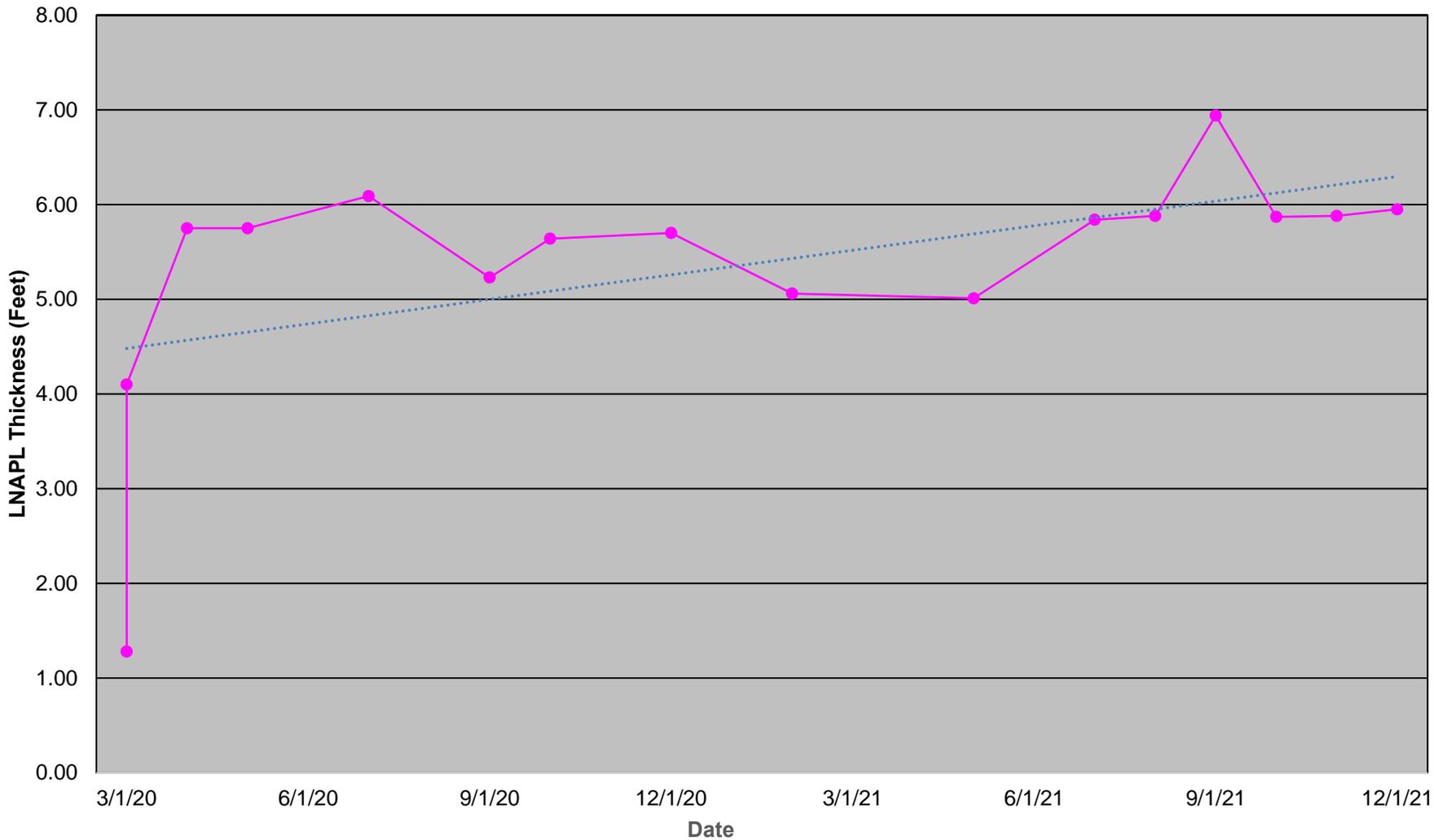


● LNAPL Thickness — Trendline

DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
LNAPL THICKNESS vs. TIME
MW-23

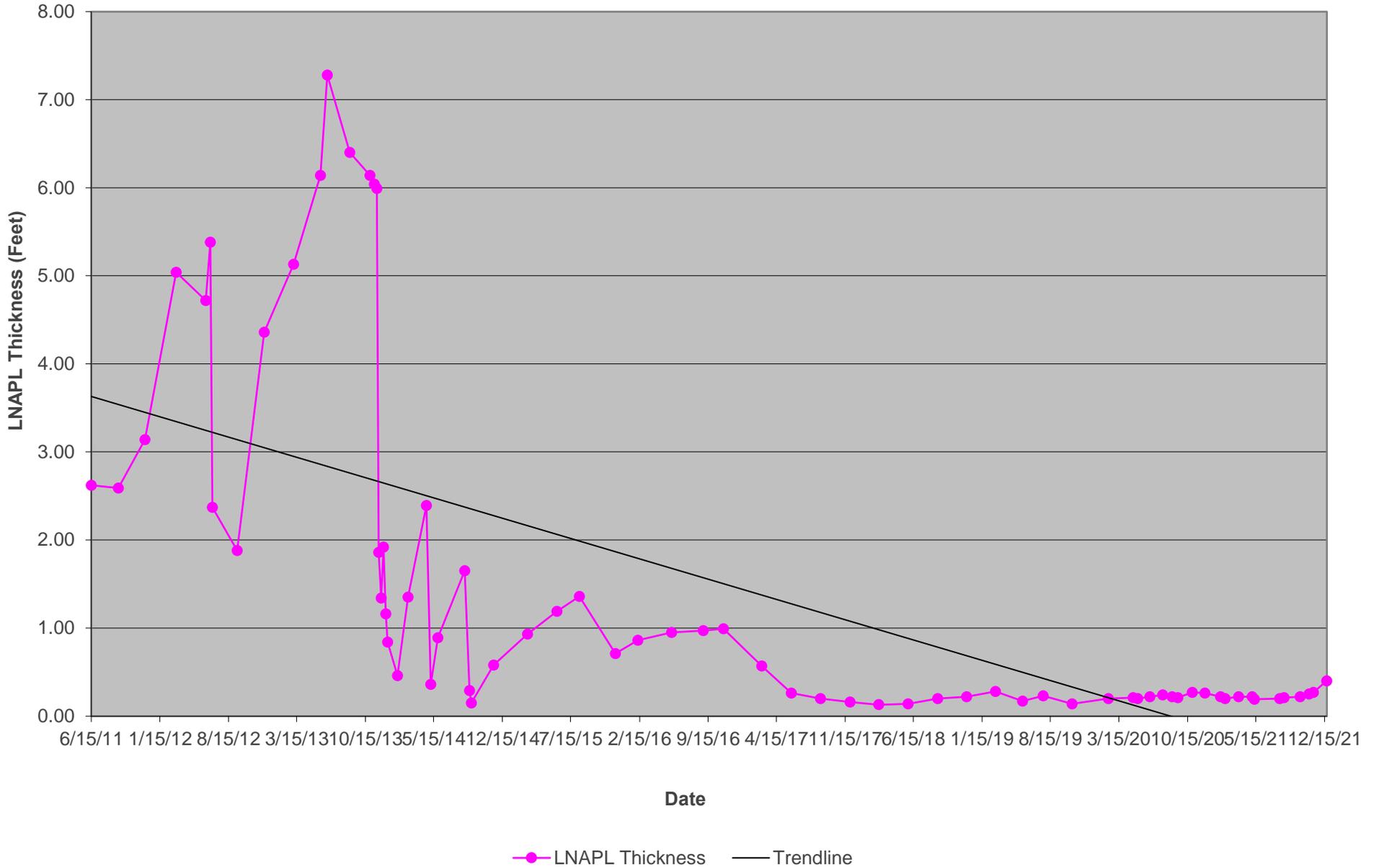


DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
LNAPL THICKNESS vs. TIME
RW-1R

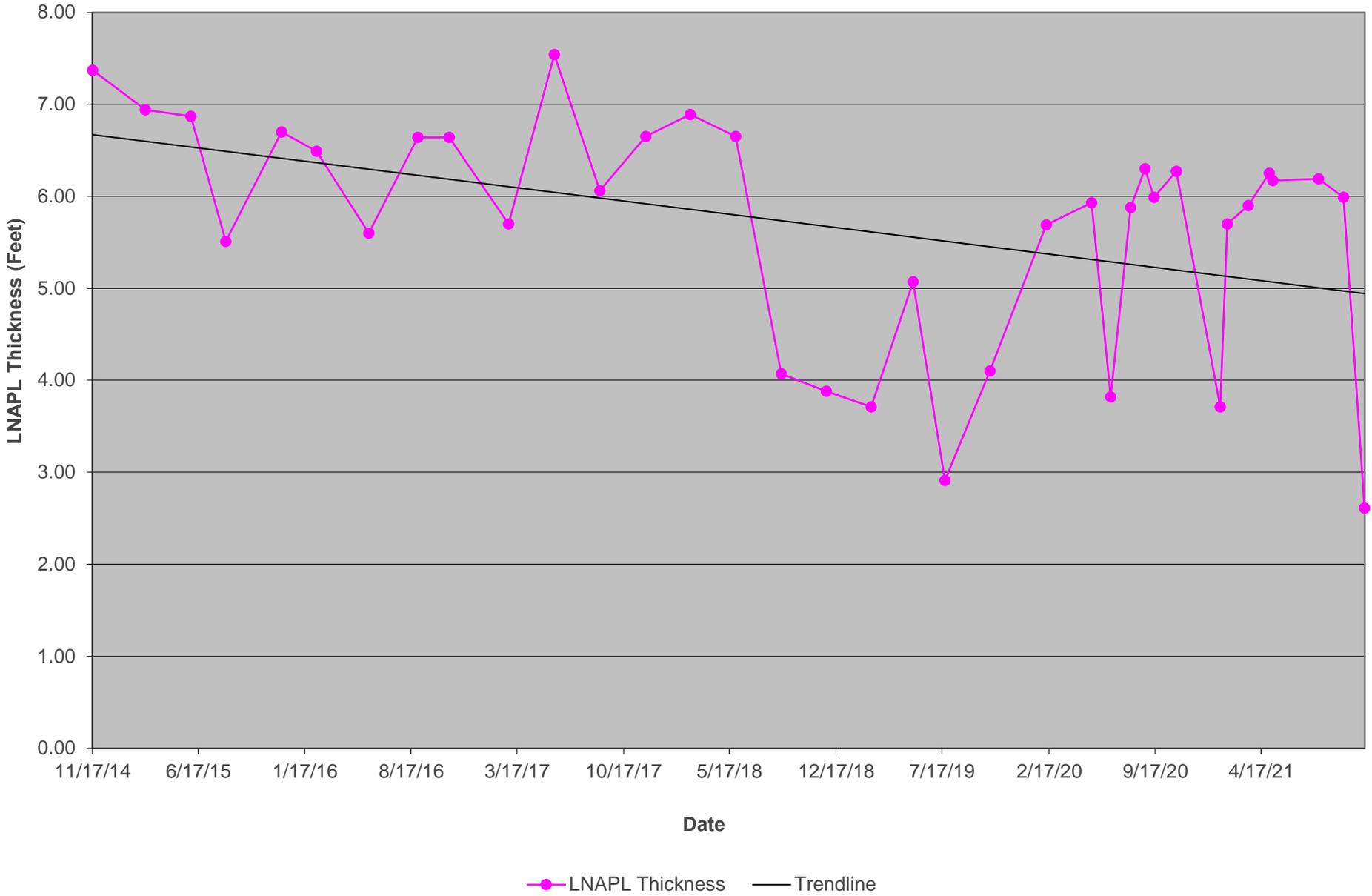


—●— LNAPL Thickness Trendline

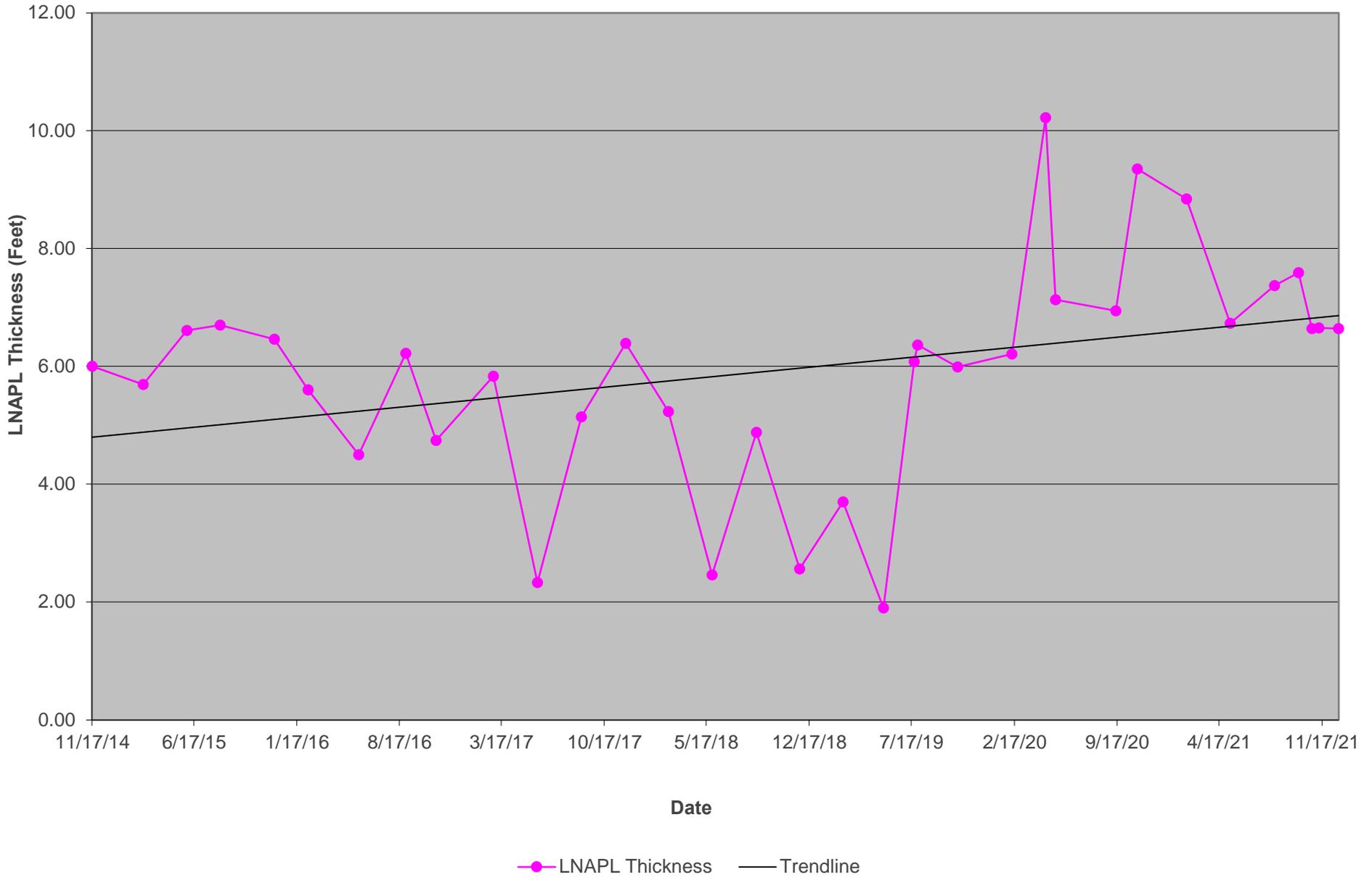
DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
LNAPL THICKNESS vs. TIME
RW-9



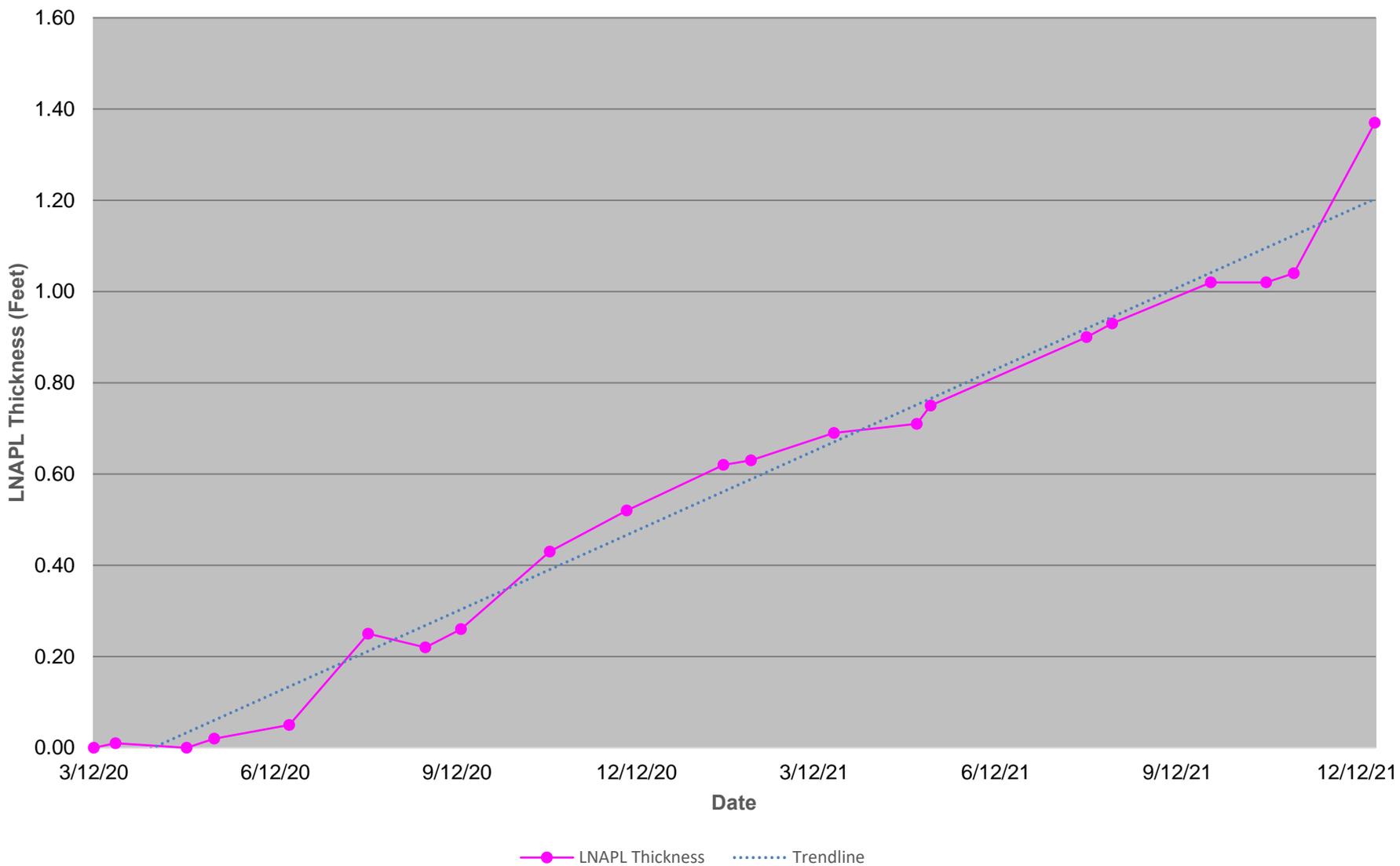
DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
LNAPL THICKNESS vs. TIME
RW-13



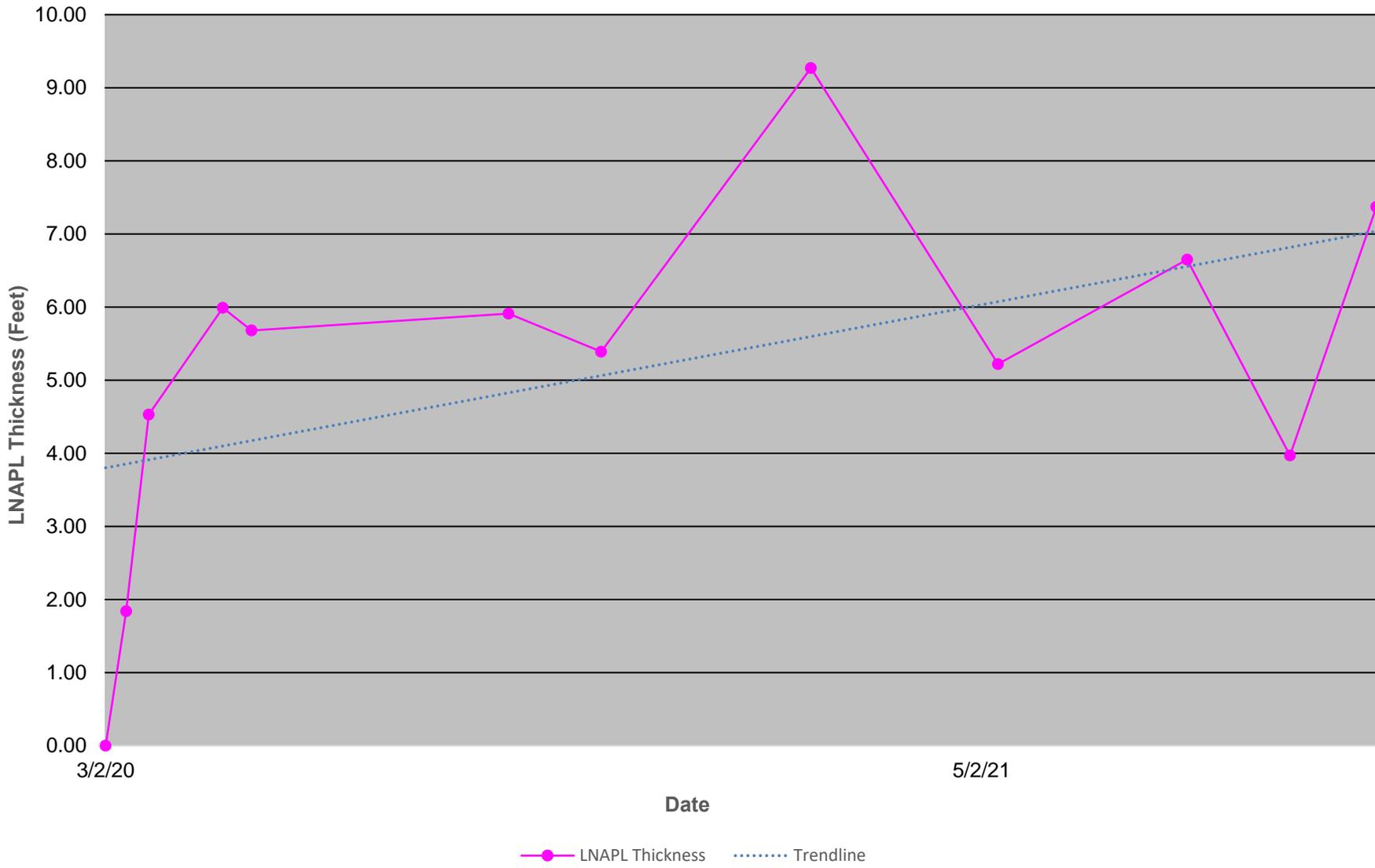
DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
LNAPL THICKNESS vs. TIME
RW-14



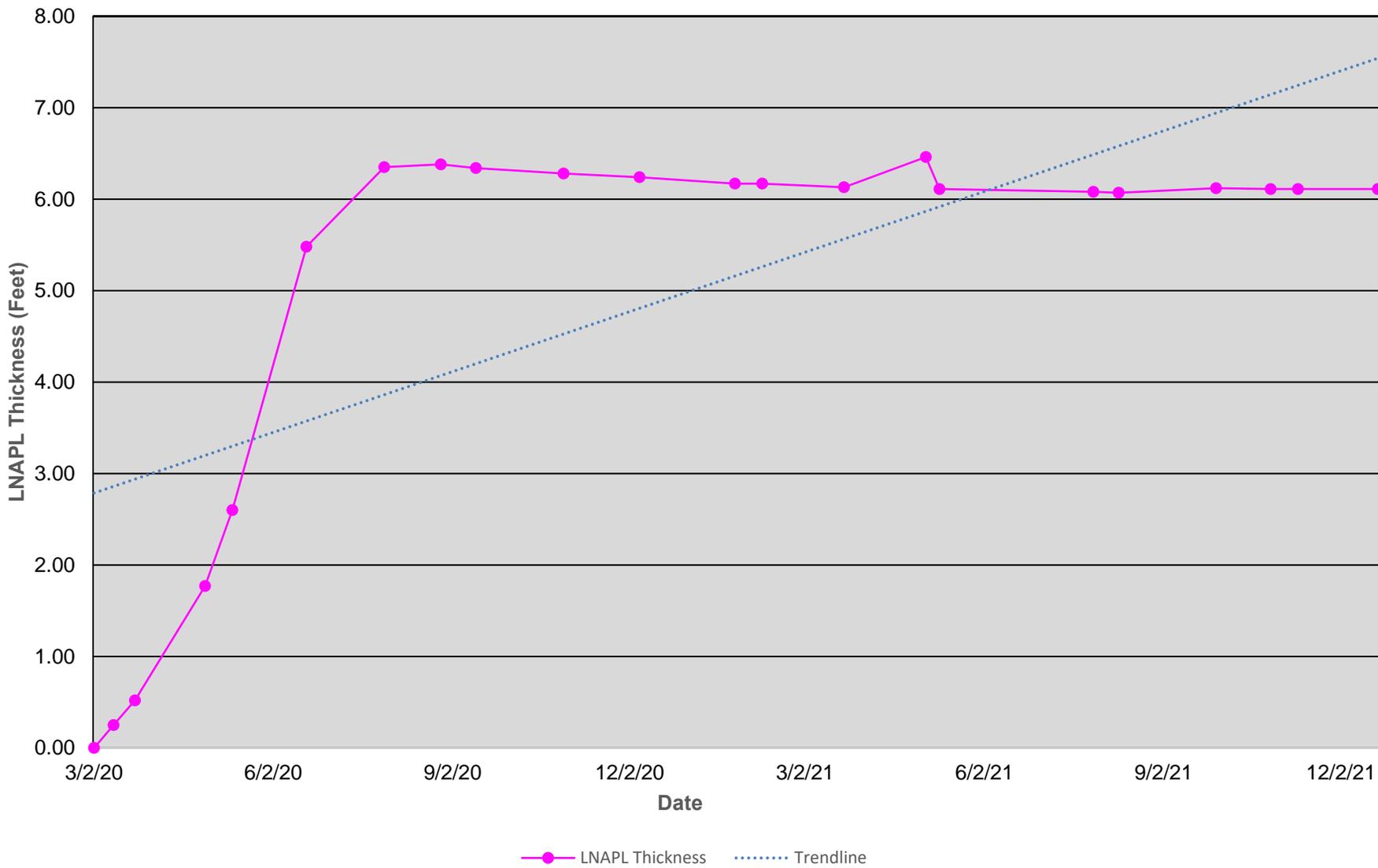
DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
LNAPL THICKNESS vs. TIME
RW-15



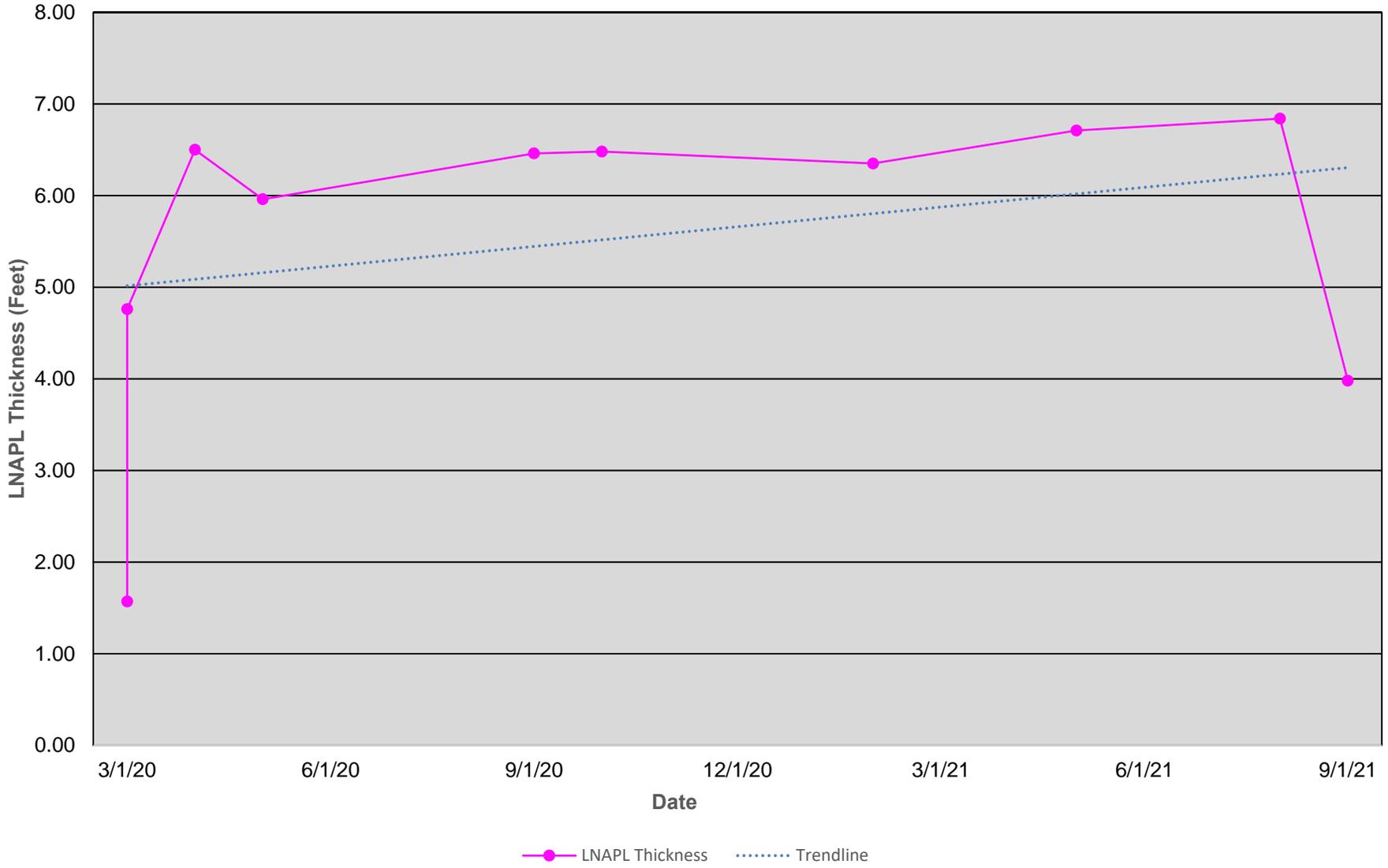
DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
LNAPL THICKNESS vs. TIME
RW-16



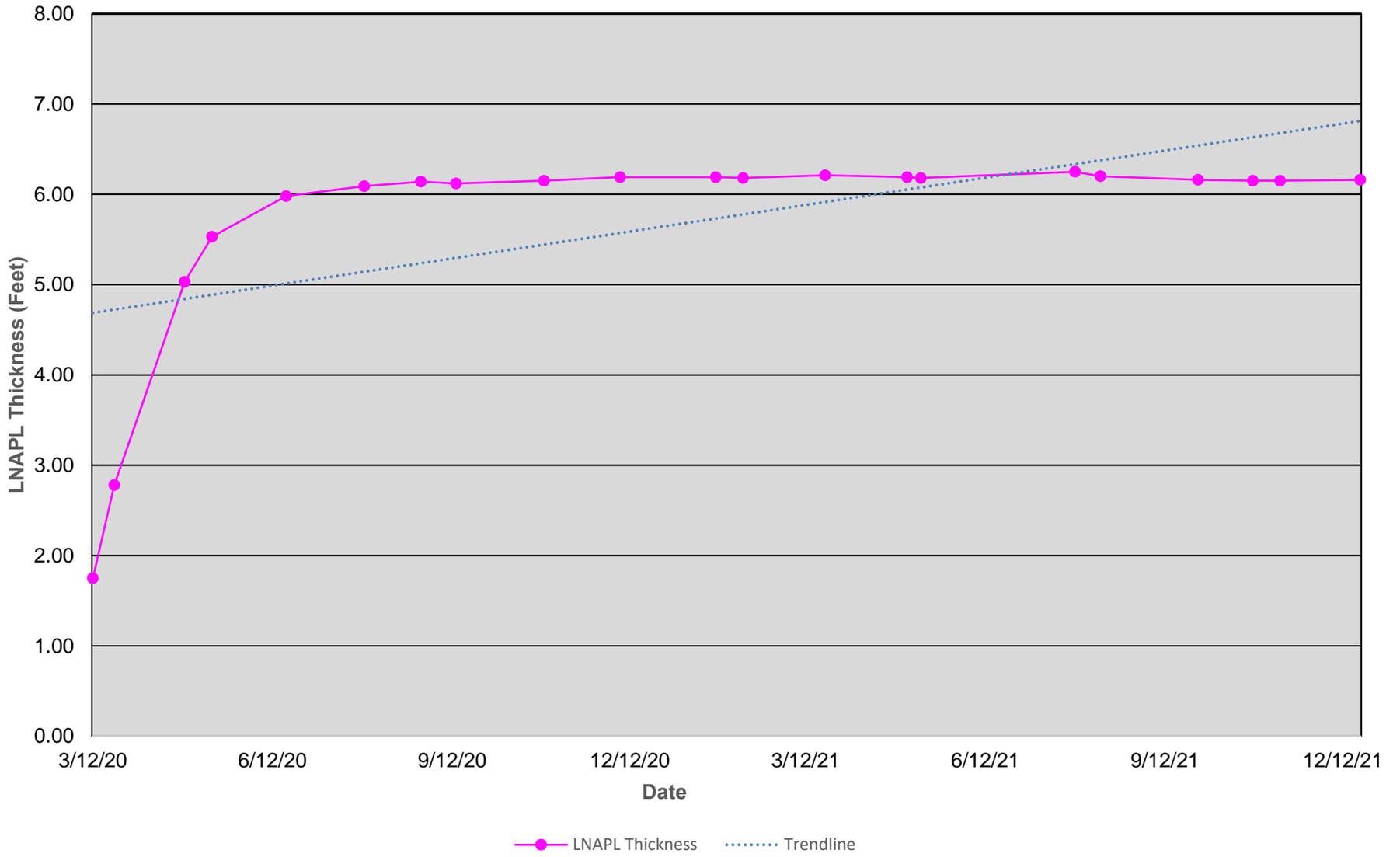
DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
LNAPL THICKNESS vs. TIME
RW-17



DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
LNAPL THICKNESS vs. TIME
RW-18

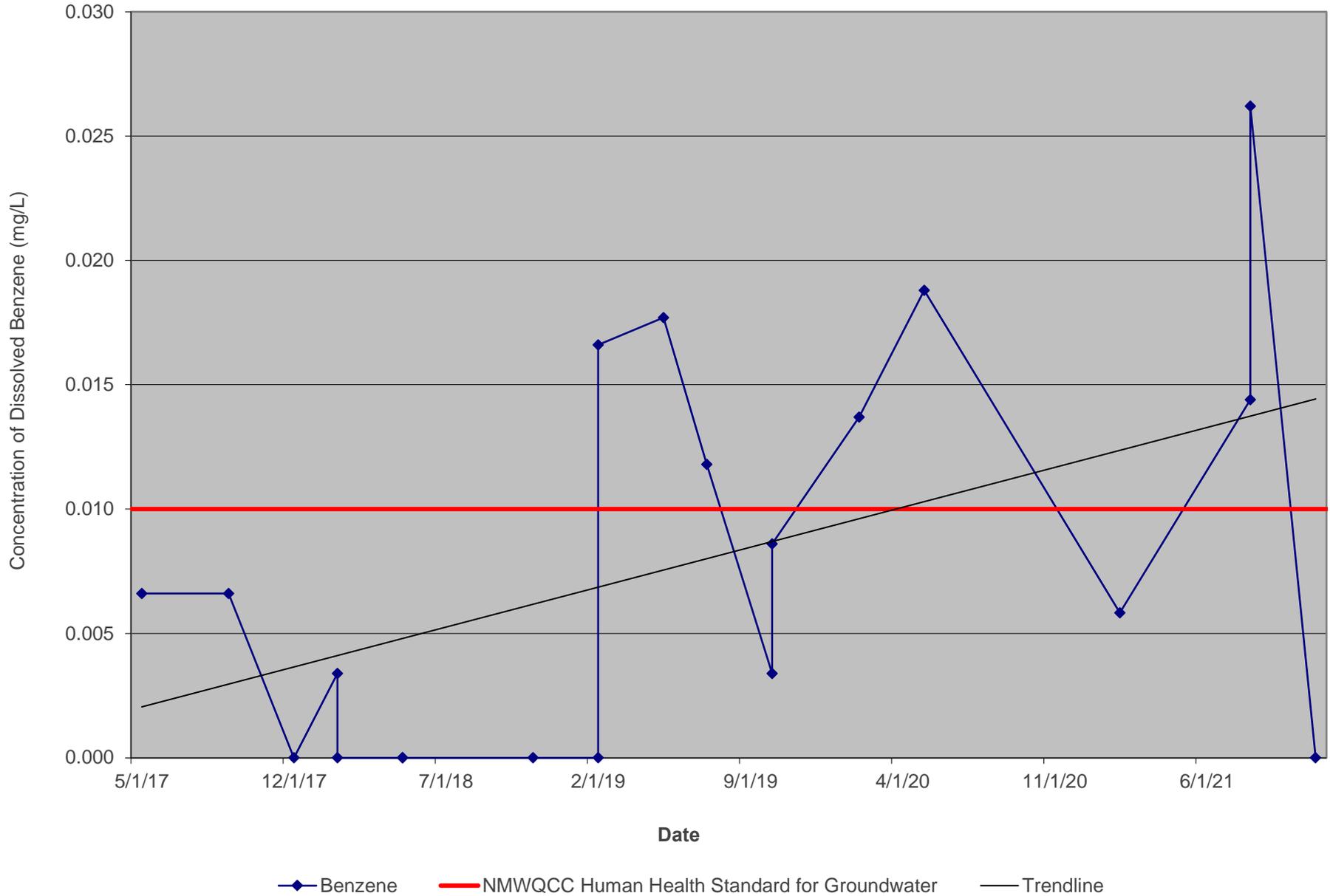


DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
LNAPL THICKNESS vs. TIME
RW-19

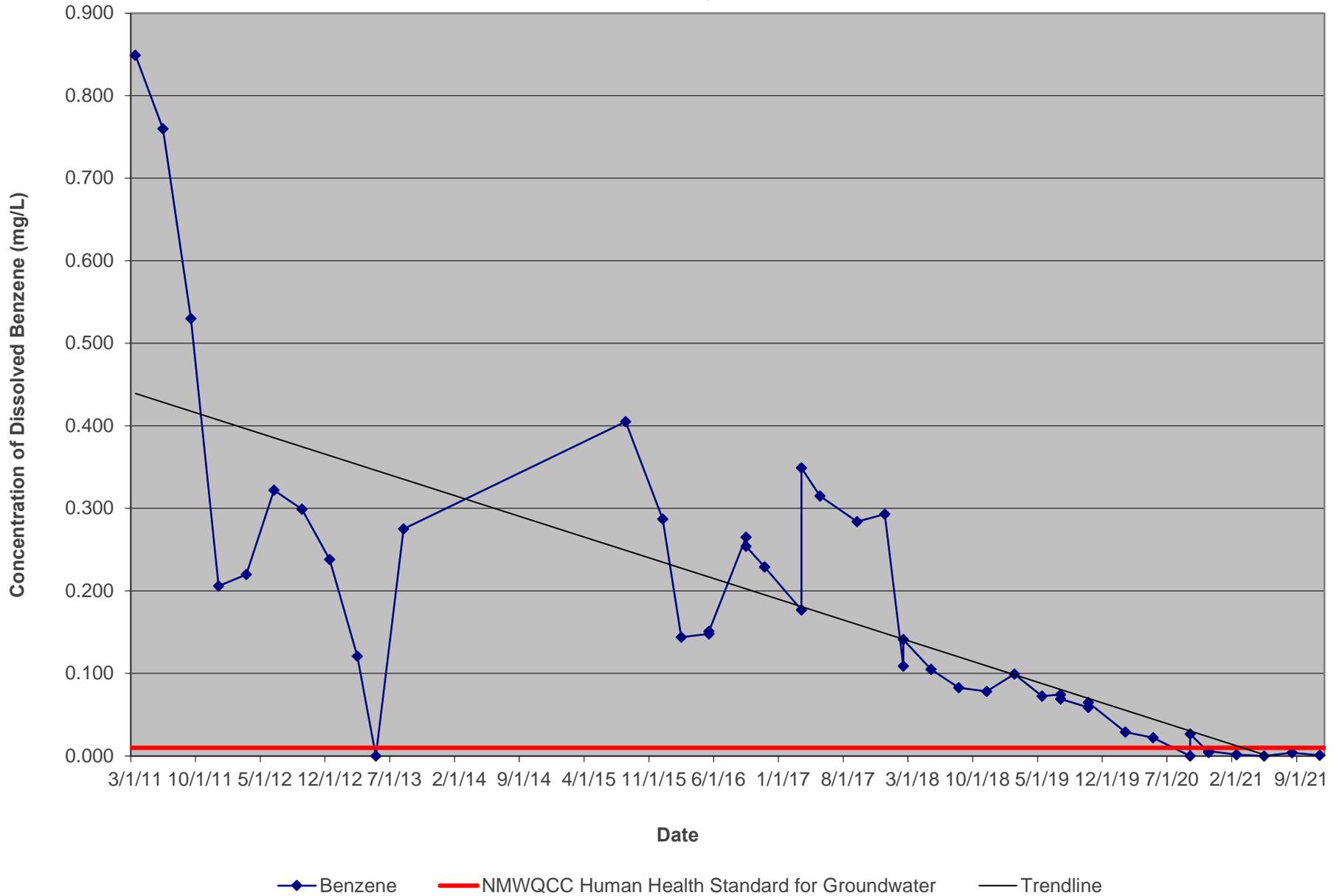


Appendix B Charts of Dissolved Benzene Concentrations Versus Time

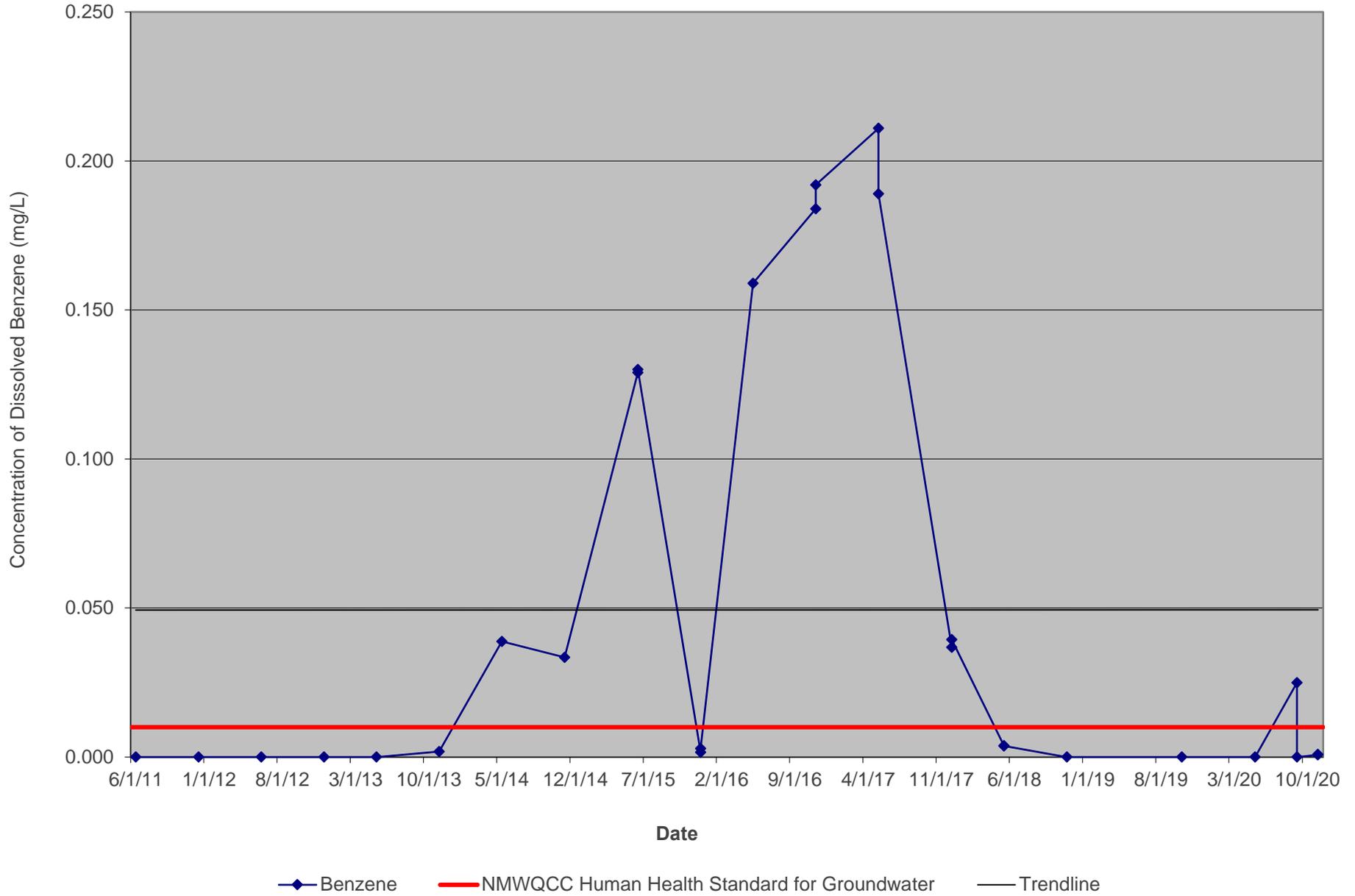
DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
CONCENTRATION OF DISSOLVED BENZENE vs. TIME
MW-2



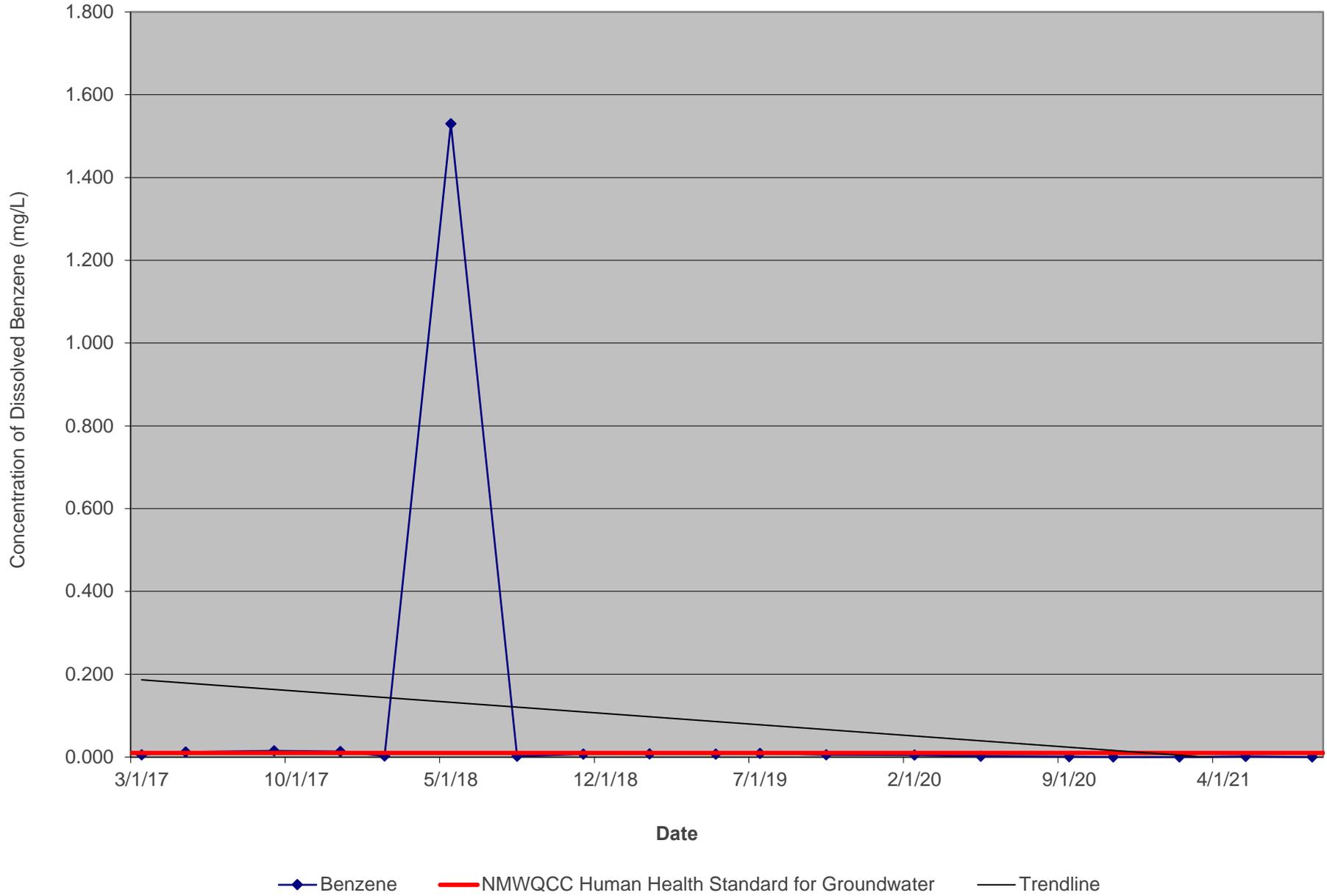
DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
CONCENTRATION OF DISSOLVED BENZENE vs. TIME
MW-6



DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
CONCENTRATION OF DISSOLVED BENZENE vs. TIME
MW-7



DARR ANGELL #1, SRS DARR ANGELL #1
LEA COUNTY, NEW MEXICO
NMOCD AP-007
CONCENTRATION OF DISSOLVED BENZENE vs. TIME
RW-12



Attachment C Certified Laboratory Analytical Reports and Chain-of-Custody Documentation



ANALYTICAL REPORT

March 08, 2021

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

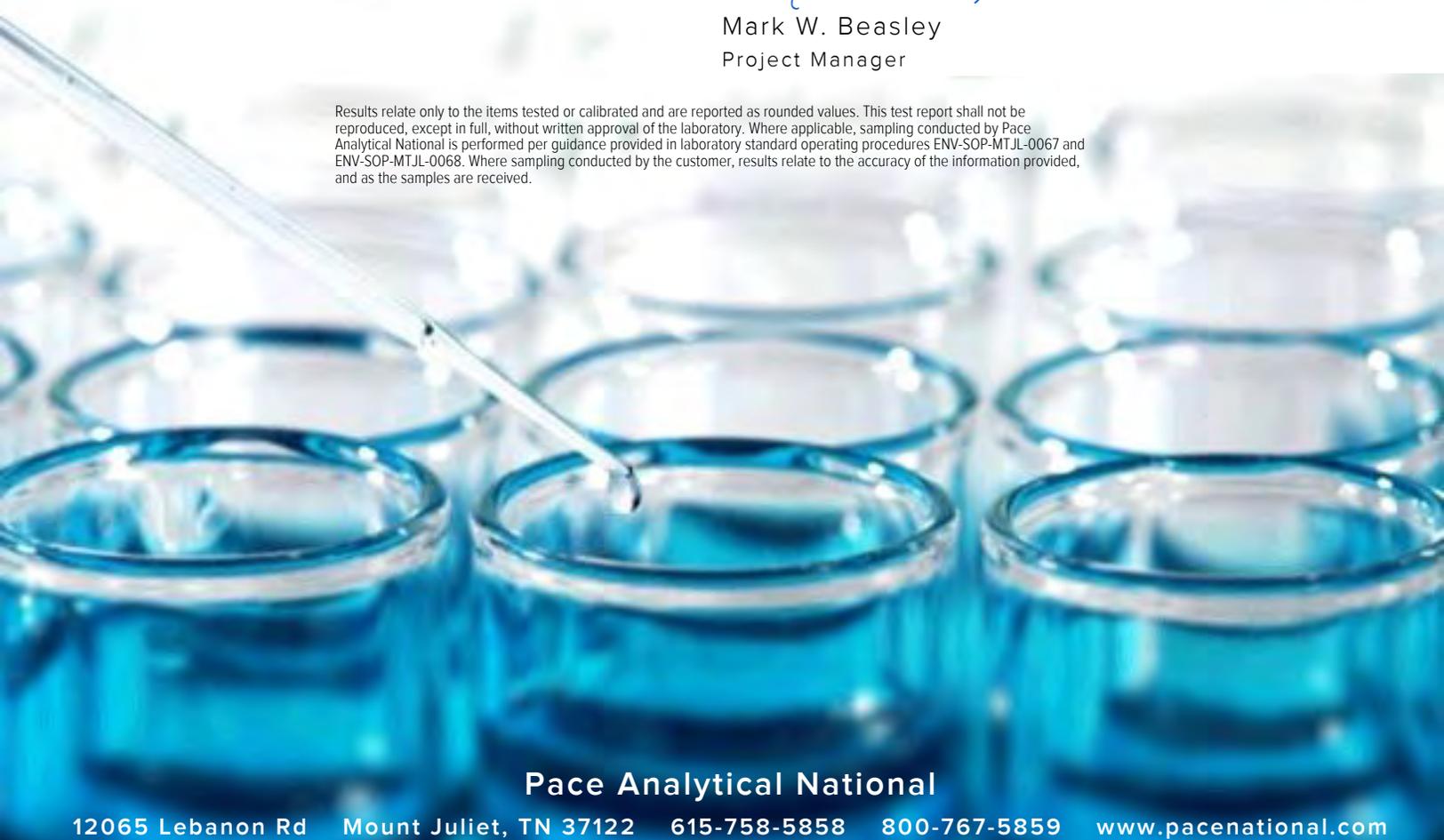
Plains All American, LP - GHD

Sample Delivery Group: L1320377
 Samples Received: 02/26/2021
 Project Number:
 Description: Darr Angell #1 SRS Darr Angell #1
 Site: SRS DARR ANGELL #1
 Report To: Becky Haskell
 2135 S Loop 250 W
 Midland, TX 79703

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

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



Pace Analytical National

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

| | | |
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SAMPLE SUMMARY

MW-11R L1320377-01 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 09:45
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1626734 | 1 | 03/01/21 05:35 | 03/01/21 05:35 | ACG | Mt. Juliet, TN |

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

MW-16R L1320377-02 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 11:30
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1626734 | 1 | 03/01/21 05:57 | 03/01/21 05:57 | ACG | Mt. Juliet, TN |

MW-17R L1320377-03 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 08:30
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1626734 | 1 | 03/01/21 06:19 | 03/01/21 06:19 | ACG | Mt. Juliet, TN |

MW-18R L1320377-04 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 09:00
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1626734 | 1 | 03/01/21 06:41 | 03/01/21 06:41 | ACG | Mt. Juliet, TN |

MW-19R L1320377-05 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 13:30
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1626734 | 1 | 03/01/21 07:03 | 03/01/21 07:03 | ACG | Mt. Juliet, TN |

MW-20R L1320377-06 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 12:30
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1626734 | 1 | 03/01/21 07:25 | 03/01/21 07:25 | ACG | Mt. Juliet, TN |

MW-21R L1320377-07 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 13:05
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1626734 | 1 | 03/01/21 07:47 | 03/01/21 07:47 | ACG | Mt. Juliet, TN |

MW-22 L1320377-08 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 14:00
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1626734 | 1 | 03/01/21 08:09 | 03/01/21 08:09 | ACG | Mt. Juliet, TN |

SAMPLE SUMMARY

MW-24 L1320377-09 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 10:20
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1626734 | 1 | 03/01/21 08:31 | 03/01/21 08:31 | ACG | Mt. Juliet, TN |

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

MW-25 L1320377-10 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 12:10
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1626734 | 1 | 03/01/21 09:07 | 03/01/21 09:07 | ACG | Mt. Juliet, TN |

RW-12 L1320377-11 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 10:55
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1630109 | 1 | 03/05/21 21:56 | 03/05/21 21:56 | BMB | Mt. Juliet, TN |

MW-2 L1320377-12 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 15:30
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1630718 | 1 | 03/07/21 18:38 | 03/07/21 18:38 | JAH | Mt. Juliet, TN |

MW-12 L1320377-13 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 14:30
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1630109 | 1 | 03/05/21 22:18 | 03/05/21 22:18 | BMB | Mt. Juliet, TN |

MW-6 L1320377-14 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 15:00
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1630109 | 1 | 03/05/21 22:40 | 03/05/21 22:40 | BMB | Mt. Juliet, TN |

DUP-1 L1320377-15 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 00:00
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1630109 | 1 | 03/05/21 23:01 | 03/05/21 23:01 | BMB | Mt. Juliet, TN |

DUP-2 L1320377-16 GW

Collected by Heath Boyd
 Collected date/time 02/22/21 00:00
 Received date/time 02/26/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1630109 | 1 | 03/05/21 23:23 | 03/05/21 23:23 | BMB | 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.

Mark W. Beasley
Project Manager

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

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

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

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



Mark W. Beasley
Project Manager

| Laboratory Name: Pace Analytical National | | LRC Date: 03/08/2021 16:45 | | | | | |
|---|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1320377-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 and 16 | | | | | |
| Reviewer Name: Mark W. Beasley | | Prep Batch Number(s): WG1626734, WG1630109 and WG1630718 | | | | | |
| # ¹ | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| R1 | OI | Chain-of-custody (C-O-C) | | | | | |
| | | Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? | X | | | | |
| | | Were all departures from standard conditions described in an exception report? | | | X | | |
| R2 | OI | Sample and quality control (QC) identification | | | | | |
| | | Are all field sample ID numbers cross-referenced to the laboratory ID numbers? | X | | | | |
| | | Are all laboratory ID numbers cross-referenced to the corresponding QC data? | X | | | | |
| R3 | OI | Test reports | | | | | |
| | | Were all samples prepared and analyzed within holding times? | X | | | | |
| | | Other than those results < MQL, were all other raw values bracketed by calibration standards? | X | | | | |
| | | Were calculations checked by a peer or supervisor? | X | | | | |
| | | Were all analyte identifications checked by a peer or supervisor? | X | | | | |
| | | Were sample detection limits reported for all analytes not detected? | X | | | | |
| | | Were all results for soil and sediment samples reported on a dry weight basis? | X | | | | |
| | | Were % moisture (or solids) reported for all soil and sediment samples? | | | X | | |
| | | Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035? | | | X | | |
| | | If required for the project, are TICs reported? | | | X | | |
| R4 | O | Surrogate recovery data | | | | | |
| | | Were surrogates added prior to extraction? | X | | | | |
| | | Were surrogate percent recoveries in all samples within the laboratory QC limits? | X | | | | |
| R5 | OI | Test reports/summary forms for blank samples | | | | | |
| | | Were appropriate type(s) of blanks analyzed? | X | | | | |
| | | Were blanks analyzed at the appropriate frequency? | X | | | | |
| | | Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? | X | | | | |
| | | Were blank concentrations < MQL? | X | | | | |
| R6 | OI | Laboratory control samples (LCS): | | | | | |
| | | Were all COCs included in the LCS? | X | | | | |
| | | Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? | X | | | | |
| | | Were LCSs analyzed at the required frequency? | X | | | | |
| | | Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? | X | | | | |
| | | Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs? | X | | | | |
| | | Was the LCSD RPD within QC limits? | X | | | | |
| R7 | OI | Matrix spike (MS) and matrix spike duplicate (MSD) data | | | | | |
| | | Were the project/method specified analytes included in the MS and MSD? | X | | | | |
| | | Were MS/MSD analyzed at the appropriate frequency? | X | | | | |
| | | Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? | X | | | | |
| | | Were MS/MSD RPDs within laboratory QC limits? | X | | | | |
| R8 | OI | Analytical duplicate data | | | | | |
| | | Were appropriate analytical duplicates analyzed for each matrix? | | | X | | |
| | | Were analytical duplicates analyzed at the appropriate frequency? | | | X | | |
| | | Were RPDs or relative standard deviations within the laboratory QC limits? | | | X | | |
| R9 | OI | Method quantitation limits (MQLs): | | | | | |
| | | Are the MQLs for each method analyte included in the laboratory data package? | X | | | | |
| | | Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? | X | | | | |
| | | Are unadjusted MQLs and DCSs included in the laboratory data package? | X | | | | |
| R10 | OI | Other problems/anomalies | | | | | |
| | | Are all known problems/anomalies/special conditions noted in this LRC and ER? | X | | | | |
| | | Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results? | X | | | | |
| | | Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package? | X | | | | |

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

| | |
|---|---|
| Laboratory Name: Pace Analytical National | LRC Date: 03/08/2021 16:45 |
| Project Name: Darr Angell #1 SRS Darr Angell #1 | Laboratory Job Number: L1320377-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 and 16 |
| Reviewer Name: Mark W. Beasley | Prep Batch Number(s): WG1626734, WG1630109 and WG1630718 |

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

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

| Laboratory Name: Pace Analytical National | | LRC Date: 03/08/2021 16:45 | |
|---|---|---|--|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1320377-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 and 16 | |
| Reviewer Name: Mark W. Beasley | | Prep Batch Number(s): WG1626734, WG1630109 and WG1630718 | |
| ER # ¹ | Description | | |
| | The Exception Report intentionally left blank, there are no exceptions applied to this SDG. | | |
| 1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked). | | | |

Collected date/time: 02/22/21 09:45

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/01/2021 05:35 | WG1626734 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/01/2021 05:35 | WG1626734 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/01/2021 05:35 | WG1626734 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/01/2021 05:35 | WG1626734 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 03/01/2021 05:35 | WG1626734 |

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

Collected date/time: 02/22/21 11:30

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/01/2021 05:57 | WG1626734 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/01/2021 05:57 | WG1626734 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/01/2021 05:57 | WG1626734 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/01/2021 05:57 | WG1626734 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 03/01/2021 05:57 | WG1626734 |

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

Collected date/time: 02/22/21 08:30

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/01/2021 06:19 | WG1626734 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/01/2021 06:19 | WG1626734 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/01/2021 06:19 | WG1626734 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/01/2021 06:19 | WG1626734 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 03/01/2021 06:19 | WG1626734 |

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

Collected date/time: 02/22/21 09:00

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/01/2021 06:41 | WG1626734 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/01/2021 06:41 | WG1626734 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/01/2021 06:41 | WG1626734 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/01/2021 06:41 | WG1626734 |
| (S) a,a,a-Trifluorotoluene(PID) | 103 | | | | 79.0-125 | | 03/01/2021 06:41 | WG1626734 |

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

Collected date/time: 02/22/21 13:30

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/01/2021 07:03 | WG1626734 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/01/2021 07:03 | WG1626734 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/01/2021 07:03 | WG1626734 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/01/2021 07:03 | WG1626734 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 03/01/2021 07:03 | WG1626734 |

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

Collected date/time: 02/22/21 12:30

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/01/2021 07:25 | WG1626734 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/01/2021 07:25 | WG1626734 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/01/2021 07:25 | WG1626734 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/01/2021 07:25 | WG1626734 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 03/01/2021 07:25 | WG1626734 |

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

Collected date/time: 02/22/21 13:05

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/01/2021 07:47 | WG1626734 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/01/2021 07:47 | WG1626734 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/01/2021 07:47 | WG1626734 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/01/2021 07:47 | WG1626734 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 03/01/2021 07:47 | WG1626734 |

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

Collected date/time: 02/22/21 14:00

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/01/2021 08:09 | WG1626734 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/01/2021 08:09 | WG1626734 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/01/2021 08:09 | WG1626734 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/01/2021 08:09 | WG1626734 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 03/01/2021 08:09 | WG1626734 |

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

Collected date/time: 02/22/21 10:20

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/01/2021 08:31 | WG1626734 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/01/2021 08:31 | WG1626734 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/01/2021 08:31 | WG1626734 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/01/2021 08:31 | WG1626734 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 03/01/2021 08:31 | WG1626734 |

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

Collected date/time: 02/22/21 12:10

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/01/2021 09:07 | WG1626734 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/01/2021 09:07 | WG1626734 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/01/2021 09:07 | WG1626734 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/01/2021 09:07 | WG1626734 |
| (S) a,a,a-Trifluorotoluene(PID) | 102 | | | | 79.0-125 | | 03/01/2021 09:07 | WG1626734 |

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

Collected date/time: 02/22/21 10:55

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|---------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/05/2021 21:56 | WG1630109 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/05/2021 21:56 | WG1630109 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/05/2021 21:56 | WG1630109 |
| Total Xylene | 0.00821 | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/05/2021 21:56 | WG1630109 |
| (S) a,a,a-Trifluorotoluene(PID) | 103 | | | | 79.0-125 | | 03/05/2021 21:56 | WG1630109 |

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

Collected date/time: 02/22/21 15:30

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-----------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | 0.00583 | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/07/2021 18:38 | WG1630718 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/07/2021 18:38 | WG1630718 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/07/2021 18:38 | WG1630718 |
| Total Xylene | 0.0757 | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/07/2021 18:38 | WG1630718 |
| (S) a,a,a-Trifluorotoluene(PID) | 97.6 | | | | 79.0-125 | | 03/07/2021 18:38 | WG1630718 |

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

Collected date/time: 02/22/21 14:30

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-----------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | 0.000626 | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/05/2021 22:18 | WG1630109 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/05/2021 22:18 | WG1630109 |
| Ethylbenzene | 0.000240 | J | 0.000160 | 0.000500 | 0.000500 | 1 | 03/05/2021 22:18 | WG1630109 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/05/2021 22:18 | WG1630109 |
| (S) a,a,a-Trifluorotoluene(PID) | 103 | | | | 79.0-125 | | 03/05/2021 22:18 | WG1630109 |

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

Collected date/time: 02/22/21 15:00

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-----------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | 0.00170 | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/05/2021 22:40 | WG1630109 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/05/2021 22:40 | WG1630109 |
| Ethylbenzene | 0.000836 | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/05/2021 22:40 | WG1630109 |
| Total Xylene | 0.00192 | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/05/2021 22:40 | WG1630109 |
| (S) a,a,a-Trifluorotoluene(PID) | 103 | | | | 79.0-125 | | 03/05/2021 22:40 | WG1630109 |

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

Collected date/time: 02/22/21 00:00

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/05/2021 23:01 | WG1630109 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/05/2021 23:01 | WG1630109 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/05/2021 23:01 | WG1630109 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/05/2021 23:01 | WG1630109 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 03/05/2021 23:01 | WG1630109 |

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

Collected date/time: 02/22/21 00:00

L1320377

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-----------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | 0.00166 | | 0.000190 | 0.000500 | 0.000500 | 1 | 03/05/2021 23:23 | WG1630109 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 03/05/2021 23:23 | WG1630109 |
| Ethylbenzene | 0.000835 | | 0.000160 | 0.000500 | 0.000500 | 1 | 03/05/2021 23:23 | WG1630109 |
| Total Xylene | 0.00190 | | 0.000510 | 0.00150 | 0.00150 | 1 | 03/05/2021 23:23 | WG1630109 |
| (S) a,a,a-Trifluorotoluene(PID) | 103 | | | | 79.0-125 | | 03/05/2021 23:23 | WG1630109 |

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

Volatile Organic Compounds (GC) by Method 8021B

[L1320377-01,02,03,04,05,06,07,08,09,10](#)

Method Blank (MB)

(MB) R3626999-3 03/01/21 01:24

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------------------------------|-----------|--------------|----------|----------|
| | mg/l | | mg/l | mg/l |
| Benzene | U | | 0.000190 | 0.000500 |
| Toluene | U | | 0.000412 | 0.00100 |
| Ethylbenzene | U | | 0.000160 | 0.000500 |
| Total Xylene | U | | 0.000510 | 0.00150 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | 79.0-125 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

Laboratory Control Sample (LCS)

(LCS) R3626999-1 03/01/21 00:07

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------------------------------|--------------|------------|----------|-------------|---------------|
| | mg/l | mg/l | % | % | |
| Benzene | 0.0500 | 0.0526 | 105 | 77.0-122 | |
| Toluene | 0.0500 | 0.0504 | 101 | 80.0-121 | |
| Ethylbenzene | 0.0500 | 0.0504 | 101 | 80.0-123 | |
| Total Xylene | 0.150 | 0.157 | 105 | 47.0-154 | |
| (S) a,a,a-Trifluorotoluene(PID) | | | 104 | 79.0-125 | |

6 Sr

7 Qc

8 Gl

9 Al

L1320279-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1320279-01 03/01/21 05:13 • (MS) R3626999-4 03/01/21 10:00 • (MSD) R3626999-5 03/01/21 10:22

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|------------------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Benzene | 0.0500 | U | 0.0521 | 0.0568 | 104 | 114 | 1 | 10.0-160 | | | 8.63 | 21 |
| Toluene | 0.0500 | U | 0.0487 | 0.0532 | 97.4 | 106 | 1 | 12.0-148 | | | 8.83 | 21 |
| Ethylbenzene | 0.0500 | U | 0.0480 | 0.0524 | 96.0 | 105 | 1 | 22.0-149 | | | 8.76 | 21 |
| Total Xylene | 0.150 | U | 0.153 | 0.166 | 102 | 111 | 1 | 13.0-155 | | | 8.15 | 21 |
| (S) a,a,a-Trifluorotoluene(PID) | | | | | 103 | 103 | | 79.0-125 | | | | |

10 Sc

Volatile Organic Compounds (GC) by Method 8021B

L1320377-11,13,14,15,16

Method Blank (MB)

(MB) R3628064-3 03/05/21 21:13

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------------------------------|-----------|--------------|----------|----------|
| | mg/l | | mg/l | mg/l |
| Benzene | U | | 0.000190 | 0.000500 |
| Toluene | U | | 0.000412 | 0.00100 |
| Ethylbenzene | U | | 0.000160 | 0.000500 |
| Total Xylene | U | | 0.000510 | 0.00150 |
| (S) a,a,a-Trifluorotoluene(PID) | 103 | | | 79.0-125 |

Laboratory Control Sample (LCS)

(LCS) R3628064-1 03/05/21 19:48

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------------------------------|--------------|------------|----------|-------------|---------------|
| | mg/l | mg/l | % | % | |
| Benzene | 0.0500 | 0.0486 | 97.2 | 77.0-122 | |
| Toluene | 0.0500 | 0.0473 | 94.6 | 80.0-121 | |
| Ethylbenzene | 0.0500 | 0.0471 | 94.2 | 80.0-123 | |
| Total Xylene | 0.150 | 0.141 | 94.0 | 47.0-154 | |
| (S) a,a,a-Trifluorotoluene(PID) | | | 103 | 79.0-125 | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC) by Method 8021B

L1320377-12

Method Blank (MB)

(MB) R3628378-3 03/07/21 15:12

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------------------------------|-----------|--------------|----------|----------|
| | mg/l | | mg/l | mg/l |
| Benzene | U | | 0.000190 | 0.000500 |
| Toluene | U | | 0.000412 | 0.00100 |
| Ethylbenzene | U | | 0.000160 | 0.000500 |
| Total Xylene | U | | 0.000510 | 0.00150 |
| (S) a,a,a-Trifluorotoluene(PID) | 106 | | | 79.0-125 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

Laboratory Control Sample (LCS)

(LCS) R3628378-1 03/07/21 14:06

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------------------------------|--------------|------------|----------|-------------|---------------|
| | mg/l | mg/l | % | % | |
| Benzene | 0.0500 | 0.0515 | 103 | 77.0-122 | |
| Toluene | 0.0500 | 0.0492 | 98.4 | 80.0-121 | |
| Ethylbenzene | 0.0500 | 0.0482 | 96.4 | 80.0-123 | |
| Total Xylene | 0.150 | 0.155 | 103 | 47.0-154 | |
| (S) a,a,a-Trifluorotoluene(PID) | | | 106 | 79.0-125 | |

6 Sr

7 Qc

8 Gl

9 Al

10 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. |
| MQL | Method Quantitation Limit. |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| SDL | Sample Detection Limit. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Sample Detection Limit. |
| Unadj. MQL | Unadjusted Method Quantitation Limit. |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

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

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

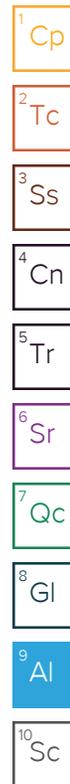
Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN, 37122

| | | | |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey-NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio-VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LAO00356 |
| Kentucky ^{1,6} | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee ^{1,4} | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA-Crypto | TN00003 | | |

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



Plains Air American, LP - GHD

2135 S. Loop 250 W
Midland, TX 79703

Billing Information:

Camille Bryant
1106 Griffith Drive
Midland, TX 79706

Pres
Chk

Analysis / Container / Preservative



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to: **Becky Haskell**
Email To: **becky.haskell@ghd.com (see remarks)**

Project Description: **Darr Angell #1**
City/State Collected: *Louington, New Mexico*

Phone: **432-250-7917**
Client Project #: **Plains SRS #: Darr Angell #1**
Lab Project #: *11209885*

Collected by (print): *Heath Boyd Darr Angell #1*
Site/Facility ID #
P.O. #

Collected by (signature): *[Signature]*
Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day
 Date Results Needed
 Immediately Packed on Ice N Y X

BTEX 10m/Amb-HCL

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs |
|-----------|-----------|----------|-------|---------|------|--------------|
| MW-11R | Grab | GW | - | 2/22/21 | 945 | 3 X |
| MW-16R | | GW | - | | 1130 | X |
| MW-17R | | GW | - | | 830 | X |
| MW-18R | | GW | - | | 900 | X |
| MW-19R | | GW | - | | 1330 | X |
| MW-20R | | GW | - | | 1230 | X |
| MW-21R | | GW | - | | 1305 | X |
| MW-22 | | GW | - | | 1400 | X |
| MW-24 | | GW | - | | 1026 | X |
| MW-25 | ✓ | GW | - | ✓ | 1210 | X X |

L# **1320377**
1237

Acctnum: **Plains GHD**
Template:
Prelogin:
TSR:
PB:
Shipped Via:

| Remarks | Sample # (lab only) |
|---------|---------------------|
| | -01 |
| | -02 |
| | -03 |
| | -04 |
| | -05 |
| | -06 |
| | -07 |
| | -08 |
| | -09 |
| | -10 |

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

Remarks:
Email final report to becky.haskell@ghd.com, cjbryan@paalp.com, algroves@paalp.com and maocchoa@paalp.com

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist

| | |
|-------------------------------|--|
| COC Seal Present/Intact: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| COC Signed/Accurate: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Bottles arrive intact: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Correct bottles used: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Sufficient volume sent: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| If Applicable | |
| VOA Zero Headspace: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Preservation Correct/Checked: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |

Samples returned via:
 UPS FedEx Courier

| | | | | |
|---|----------------------|--------------------|---|--|
| Relinquished by: (Signature) <i>[Signature]</i> | Date: <i>2-25-21</i> | Time: <i>11:00</i> | Received by: (Signature) <i>[Signature]</i> | Trip Blank Received: Yes/No <i>0</i> |
| Relinquished by: (Signature) <i>[Signature]</i> | Date: <i>2/23/21</i> | Time: <i>0800</i> | Received by: (Signature) <i>[Signature]</i> | HCL/MeOH TBR |
| Relinquished by: (Signature) <i>[Signature]</i> | Date: <i>2-25-21</i> | Time: <i>14:00</i> | Received by: (Signature) <i>[Signature]</i> | Temp °C <i>25.1/24</i> Bottles Received: <i>44</i> |
| Relinquished by: (Signature) <i>[Signature]</i> | Date: _____ | Time: _____ | Received for lab by: (Signature) <i>[Signature]</i> | Date: <i>02/26/21</i> Time: <i>09100</i> |

If preservation required by Login: Date/Time

Hold: _____ Condition: **NCF / OK**

Plains Air American, LP - GHD

2135 S. Loop 250 W
Midland, TX 79703

Billing Information:

Camille Bryant
1106 Griffith Drive
Midland, TX 79706

Pres
Chk

Analysis / Container / Preservative



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to: **Becky Haskell**
Email To: **becky.haskell@ghd.com (see remarks)**

Project Description: **Darr Angell #1**
City/State Collected: **Lovington, New Mexico**

Phone: **432-250-7917** Client Project #
Fax: **Plains SRS #: Darr Angell #1** Lab Project #
11209885

Collected by (print): **Heath Boyd** Site/Facility ID #
Darr Angell #1 P.O. #

Collected by (signature): **[Signature]** **Rush?** (Lab MUST Be Notified)
Date Results Needed
No. of Cntrs

Immediately Packed on Ice N Y X
Sample ID Comp/Grab Matrix * Depth Date Time

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs |
|-----------|-----------|----------|-------|---------|------|--------------|
| RW-12 | Grnd | GW | - | 2/22/21 | 1055 | 3 |
| MW-2 | ↓ | GW | - | ↓ | 1530 | ↓ |
| MW-12 | ↓ | GW | - | ↓ | 1430 | ↓ |
| MW-6 | ↓ | GW | - | ↓ | 1500 | ↓ |
| Dup-1 | ↓ | GW | - | - | - | ↓ |
| Dup-2 | ↓ | GW | - | - | - | ↓ |
| | | GW | | | | |
| | | GW | | | | |
| | | GW | | | | |
| | | GW | | | | |

BTEX 10m/Amb-HCL

L# **1320377**
Table #
Acctnum: **Plains GHD**
Template:
Prelogin:
TSR:
PB:
Shipped Via:

| Remarks | Sample # (lab only) |
|---------|---------------------|
| | - 11 |
| | - 13 |
| | - 13 |
| | - 14 |
| | - 15 |
| | - 16 |

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

Remarks:
Email final report to becky.haskell@ghd.com, cjryan@paalp.com, algroves@paalp.com and maocchoa@paalp.com

Samples returned via:
 UPS FedEx Courier

Tracking #

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist

| | | | |
|-------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| COC Seal Present/Intact: | NP | Y | N |
| COC Signed/Accurate: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Bottles arrive intact: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Correct bottles used: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sufficient volume sent: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| If Applicable | | | |
| VOA Zero Headspace: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Preservation Correct/Checked: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Relinquished by: (Signature) **[Signature]** Date: **2-25-21** Time: **11:00**

Received by: (Signature) **[Signature]** Trip Blank Received: Yes/No **0**
HCL / MeOH TBR

Relinquished by: (Signature) **[Signature]** Date: **2-25-21** Time: **16:00**

Received by: (Signature) **[Signature]** Temp: **25.24** °C Bottles Received: **48**

Relinquished by: (Signature) Date: Time:

Received for lab by: (Signature) **[Signature]** Date: **02/26/21** Time: **08:00**

If preservation required by Login: Date/Time
Hold: Condition: **NCF / OK**



ANALYTICAL REPORT

March 18, 2021

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

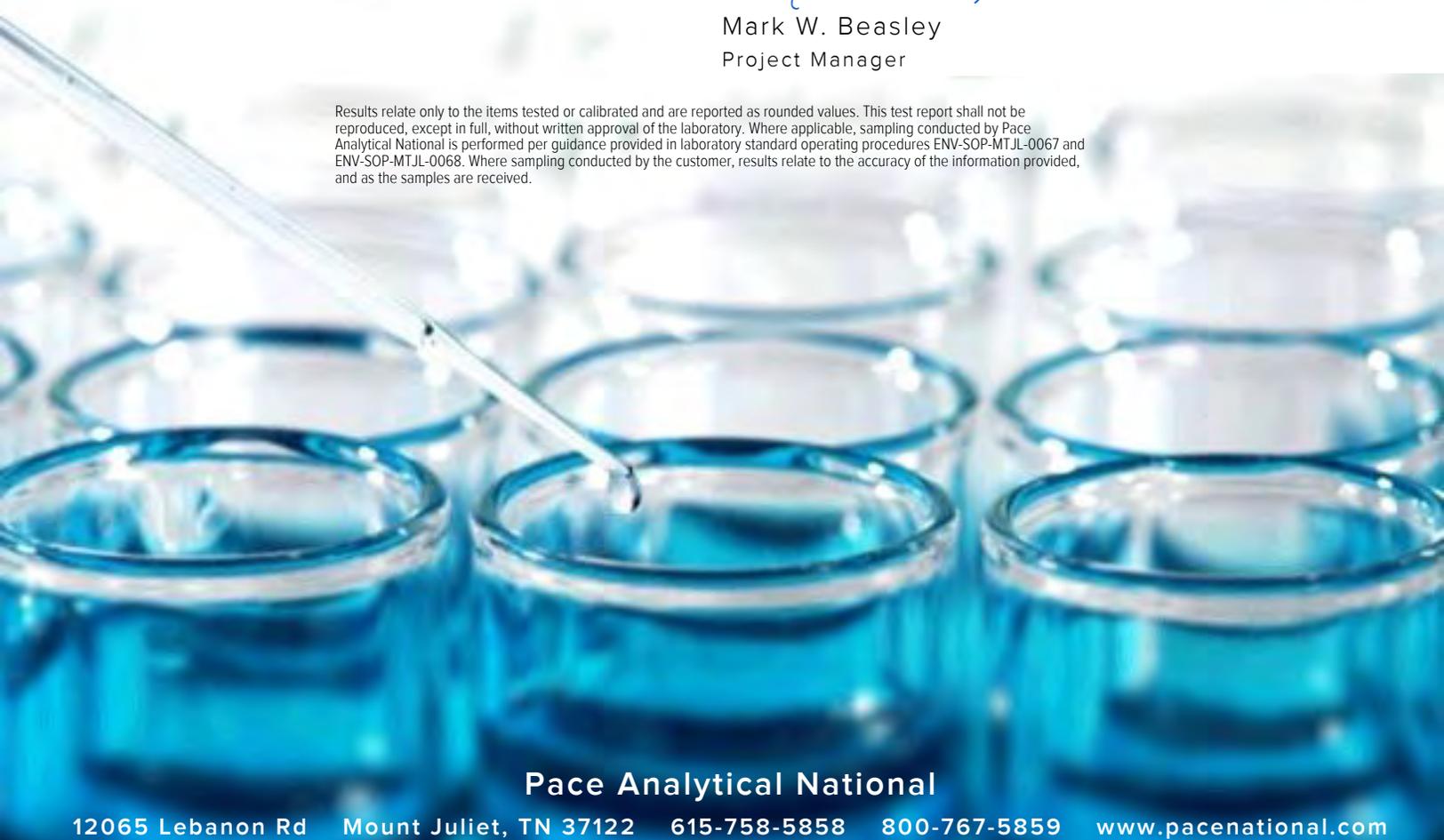
Plains All American, LP - GHD

Sample Delivery Group: L1327514
 Samples Received: 03/17/2021
 Project Number: PLAINS SRS #: DARR A
 Description: Darr Angell #1
 Site: SRS DARR ANGELL #1
 Report To: Becky Haskell
 2135 S Loop 250 W
 Midland, TX 79703

Entire Report Reviewed By:

Mark W. Beasley
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

| | | |
|--|-----------|---|
| Cp: Cover Page | 1 |  |
| Tc: Table of Contents | 2 | |
| Ss: Sample Summary | 3 |  |
| Cn: Case Narrative | 4 | |
| Tr: TRRP Summary | 5 |  |
| TRRP form R | 6 | |
| TRRP form S | 7 |  |
| TRRP Exception Reports | 8 |  |
| Sr: Sample Results | 9 | |
| PUMP ON L1327514-01 | 9 |  |
| PUMP OFF L1327514-02 | 10 | |
| Qc: Quality Control Summary | 11 |  |
| Volatile Organic Compounds (MS) by Method M18-Mod | 11 |  |
| Gl: Glossary of Terms | 12 | |
| Al: Accreditations & Locations | 13 |  |
| Sc: Sample Chain of Custody | 14 |  |

SAMPLE SUMMARY

PUMP ON L1327514-01 Air

| | | |
|------------------|---------------------|--------------------|
| Collected by | Collected date/time | Received date/time |
| Matthew Laughlin | 03/15/21 12:00 | 03/17/21 09:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (MS) by Method M18-Mod | WG1636018 | 4000 | 03/17/21 22:40 | 03/17/21 22:40 | FKG | Mt. Juliet, TN |

¹ Cp

² Tc

³ Ss

PUMP OFF L1327514-02 Air

| | | |
|------------------|---------------------|--------------------|
| Collected by | Collected date/time | Received date/time |
| Matthew Laughlin | 03/15/21 12:45 | 03/17/21 09:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (MS) by Method M18-Mod | WG1636018 | 4000 | 03/17/21 23:17 | 03/17/21 23:17 | FKG | Mt. Juliet, TN |

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

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

Mark W. Beasley
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Laboratory Data Package Cover Page

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

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

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



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

| Laboratory Name: Pace Analytical National | | | LRC Date: 03/18/2021 15:34 | | | | |
|---|----------------|--|---|----|-----------------|-----------------|------------------|
| Project Name: Darr Angell #1 | | | Laboratory Job Number: L1327514-01 and 02 | | | | |
| Reviewer Name: Mark W. Beasley | | | Prep Batch Number(s): WG1636018 | | | | |
| #1 | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| R1 | OI | Chain-of-custody (C-O-C) | | | | | |
| | | Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? | X | | | | |
| | | Were all departures from standard conditions described in an exception report? | | | X | | |
| R2 | OI | Sample and quality control (QC) identification | | | | | |
| | | Are all field sample ID numbers cross-referenced to the laboratory ID numbers? | X | | | | |
| | | Are all laboratory ID numbers cross-referenced to the corresponding QC data? | X | | | | |
| R3 | OI | Test reports | | | | | |
| | | Were all samples prepared and analyzed within holding times? | X | | | | |
| | | Other than those results < MQL, were all other raw values bracketed by calibration standards? | X | | | | |
| | | Were calculations checked by a peer or supervisor? | X | | | | |
| | | Were all analyte identifications checked by a peer or supervisor? | X | | | | |
| | | Were sample detection limits reported for all analytes not detected? | X | | | | |
| | | Were all results for soil and sediment samples reported on a dry weight basis? | X | | | | |
| | | Were % moisture (or solids) reported for all soil and sediment samples? | | | X | | |
| | | Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035? | | | X | | |
| | | If required for the project, are TICs reported? | | | X | | |
| R4 | O | Surrogate recovery data | | | | | |
| | | Were surrogates added prior to extraction? | X | | | | |
| | | Were surrogate percent recoveries in all samples within the laboratory QC limits? | X | | | | |
| R5 | OI | Test reports/summary forms for blank samples | | | | | |
| | | Were appropriate type(s) of blanks analyzed? | X | | | | |
| | | Were blanks analyzed at the appropriate frequency? | X | | | | |
| | | Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? | X | | | | |
| | | Were blank concentrations < MQL? | X | | | | |
| R6 | OI | Laboratory control samples (LCS): | | | | | |
| | | Were all COCs included in the LCS? | X | | | | |
| | | Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? | X | | | | |
| | | Were LCSs analyzed at the required frequency? | X | | | | |
| | | Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? | X | | | | |
| | | Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs? | X | | | | |
| | | Was the LCSD RPD within QC limits? | X | | | | |
| R7 | OI | Matrix spike (MS) and matrix spike duplicate (MSD) data | | | | | |
| | | Were the project/method specified analytes included in the MS and MSD? | | | X | | |
| | | Were MS/MSD analyzed at the appropriate frequency? | | | X | | |
| | | Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? | | | X | | |
| | | Were MS/MSD RPDs within laboratory QC limits? | | | X | | |
| R8 | OI | Analytical duplicate data | | | | | |
| | | Were appropriate analytical duplicates analyzed for each matrix? | | | X | | |
| | | Were analytical duplicates analyzed at the appropriate frequency? | | | X | | |
| | | Were RPDs or relative standard deviations within the laboratory QC limits? | | | X | | |
| R9 | OI | Method quantitation limits (MQLs): | | | | | |
| | | Are the MQLs for each method analyte included in the laboratory data package? | X | | | | |
| | | Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? | X | | | | |
| | | Are unadjusted MQLs and DCSs included in the laboratory data package? | X | | | | |
| R10 | OI | Other problems/anomalies | | | | | |
| | | Are all known problems/anomalies/special conditions noted in this LRC and ER? | X | | | | |
| | | Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results? | X | | | | |
| | | Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package? | X | | | | |

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

Laboratory Review Checklist: Supporting Data

| Laboratory Name: Pace Analytical National | | LRC Date: 03/18/2021 15:34 | | | | | |
|--|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: Darr Angell #1 | | Laboratory Job Number: L1327514-01 and 02 | | | | | |
| Reviewer Name: Mark W. Beasley | | Prep Batch Number(s): WG1636018 | | | | | |
| # ¹ | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| S1 | OI | Initial calibration (ICAL) | | | | | |
| | | Were response factors and/or relative response factors for each analyte within QC limits? | X | | | | |
| | | Were percent RSDs or correlation coefficient criteria met? | X | | | | |
| | | Was the number of standards recommended in the method used for all analytes? | X | | | | |
| | | Were all points generated between the lowest and highest standard used to calculate the curve? | X | | | | |
| | | Are ICAL data available for all instruments used? | X | | | | |
| | | Has the initial calibration curve been verified using an appropriate second source standard? | X | | | | |
| S2 | OI | Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB): | | | | | |
| | | Was the CCV analyzed at the method-required frequency? | X | | | | |
| | | Were percent differences for each analyte within the method-required QC limits? | X | | | | |
| | | Was the ICAL curve verified for each analyte? | X | | | | |
| | | Was the absolute value of the analyte concentration in the inorganic CCB < MDL? | | | X | | |
| S3 | O | Mass spectral tuning | | | | | |
| | | Was the appropriate compound for the method used for tuning? | X | | | | |
| | | Were ion abundance data within the method-required QC limits? | X | | | | |
| S4 | O | Internal standards (IS) | | | | | |
| | | Were IS area counts and retention times within the method-required QC limits? | X | | | | |
| S5 | OI | Raw data (NELAC Section 5.5.10) | | | | | |
| | | Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst? | X | | | | |
| | | Were data associated with manual integrations flagged on the raw data? | X | | | | |
| S6 | O | Dual column confirmation | | | | | |
| | | Did dual column confirmation results meet the method-required QC? | | | X | | |
| S7 | O | Tentatively identified compounds (TICs) | | | | | |
| | | If TICs were requested, were the mass spectra and TIC data subject to appropriate checks? | | | X | | |
| S8 | I | Interference Check Sample (ICS) results | | | | | |
| | | Were percent recoveries within method QC limits? | | | X | | |
| S9 | I | Serial dilutions, post digestion spikes, and method of standard additions | | | | | |
| | | Were percent differences, recoveries, and the linearity within the QC limits specified in the method? | | | X | | |
| S10 | OI | Method detection limit (MDL) studies | | | | | |
| | | Was a MDL study performed for each reported analyte? | X | | | | |
| | | Is the MDL either adjusted or supported by the analysis of DCSs? | X | | | | |
| S11 | OI | Proficiency test reports | | | | | |
| | | Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies? | X | | | | |
| S12 | OI | Standards documentation | | | | | |
| | | Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources? | X | | | | |
| S13 | OI | Compound/analyte identification procedures | | | | | |
| | | Are the procedures for compound/analyte identification documented? | X | | | | |
| S14 | OI | Demonstration of analyst competency (DOC) | | | | | |
| | | Was DOC conducted consistent with NELAC Chapter 5? | X | | | | |
| | | Is documentation of the analyst's competency up-to-date and on file? | X | | | | |
| S15 | OI | Verification/validation documentation for methods (NELAC Chapter 5) | | | | | |
| | | Are all the methods used to generate the data documented, verified, and validated, where applicable? | X | | | | |
| S16 | OI | Laboratory standard operating procedures (SOPs) | | | | | |
| | | Are laboratory SOPs current and on file for each method performed | X | | | | |
| <p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p> | | | | | | | |

Laboratory Review Checklist: Exception Reports

| | |
|---|---|
| Laboratory Name: Pace Analytical National | LRC Date: 03/18/2021 15:34 |
| Project Name: Darr Angell #1 | Laboratory Job Number: L1327514-01 and 02 |
| Reviewer Name: Mark W. Beasley | Prep Batch Number(s): WG1636018 |

| ER # ¹ | Description |
|-------------------|-------------|
|-------------------|-------------|

The Exception Report intentionally left blank, there are no exceptions applied to this SDG.

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

Collected date/time: 03/15/21 12:00

L1327514

Volatile Organic Compounds (MS) by Method M18-Mod

| Analyte | CAS # | Mol. Wt. | RDL1 ppbv | RDL2 ug/m3 | Result ppbv | Result ug/m3 | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| Benzene | 71-43-2 | 78.10 | 800 | 2560 | 24100 | 77000 | | 4000 | WG1636018 |
| Toluene | 108-88-3 | 92.10 | 2000 | 7530 | 50800 | 191000 | | 4000 | WG1636018 |
| Ethylbenzene | 100-41-4 | 106 | 800 | 3470 | 12900 | 55900 | | 4000 | WG1636018 |
| m&p-Xylene | 1330-20-7 | 106 | 1600 | 6940 | 30200 | 131000 | | 4000 | WG1636018 |
| o-Xylene | 95-47-6 | 106 | 800 | 3470 | 10000 | 43400 | | 4000 | WG1636018 |
| Methyl tert-butyl ether | 1634-04-4 | 88.10 | 800 | 2880 | ND | ND | | 4000 | WG1636018 |
| TPH (GC/MS) Low Fraction | 8006-61-9 | 101 | 800000 | 3300000 | 3300000 | 13600000 | | 4000 | WG1636018 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 102 | | | | WG1636018 |

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

Collected date/time: 03/15/21 12:45

L1327514

Volatile Organic Compounds (MS) by Method M18-Mod

| Analyte | CAS # | Mol. Wt. | RDL1 ppbv | RDL2 ug/m3 | Result ppbv | Result ug/m3 | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| Benzene | 71-43-2 | 78.10 | 800 | 2560 | 21900 | 70000 | | 4000 | WG1636018 |
| Toluene | 108-88-3 | 92.10 | 2000 | 7530 | 43700 | 165000 | | 4000 | WG1636018 |
| Ethylbenzene | 100-41-4 | 106 | 800 | 3470 | 11000 | 47700 | | 4000 | WG1636018 |
| m&p-Xylene | 1330-20-7 | 106 | 1600 | 6940 | 25700 | 111000 | | 4000 | WG1636018 |
| o-Xylene | 95-47-6 | 106 | 800 | 3470 | 8320 | 36100 | | 4000 | WG1636018 |
| Methyl tert-butyl ether | 1634-04-4 | 88.10 | 800 | 2880 | ND | ND | | 4000 | WG1636018 |
| TPH (GC/MS) Low Fraction | 8006-61-9 | 101 | 800000 | 3300000 | 2720000 | 11200000 | | 4000 | WG1636018 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 98.9 | | | | WG1636018 |

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

Volatile Organic Compounds (MS) by Method M18-Mod

[L1327514-01,02](#)

Method Blank (MB)

(MB) R3632055-3 03/17/21 10:36

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

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

(LCS) R3632055-1 03/17/21 09:21 • (LCSD) R3632055-2 03/17/21 09:59

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
| | ppbv | ppbv | ppbv | % | % | % | | | % | % |
| MTBE | 3.75 | 3.90 | 4.06 | 104 | 108 | 70.0-130 | | | 4.02 | 25 |
| Benzene | 3.75 | 3.99 | 4.00 | 106 | 107 | 70.0-130 | | | 0.250 | 25 |
| Toluene | 3.75 | 4.00 | 4.10 | 107 | 109 | 70.0-130 | | | 2.47 | 25 |
| Ethylbenzene | 3.75 | 4.02 | 4.08 | 107 | 109 | 70.0-130 | | | 1.48 | 25 |
| m&p-Xylene | 7.50 | 8.27 | 8.33 | 110 | 111 | 70.0-130 | | | 0.723 | 25 |
| o-Xylene | 3.75 | 3.96 | 4.02 | 106 | 107 | 70.0-130 | | | 1.50 | 25 |
| TPH (GC/MS) Low Fraction | 203 | 214 | 216 | 105 | 106 | 70.0-130 | | | 0.930 | 25 |
| (S) 1,4-Bromofluorobenzene | | | | 99.8 | 99.5 | 60.0-140 | | | | |

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

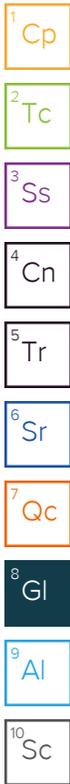
Guide to Reading and Understanding Your Laboratory Report

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



Qualifier Description

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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





ANALYTICAL REPORT

May 29, 2021

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

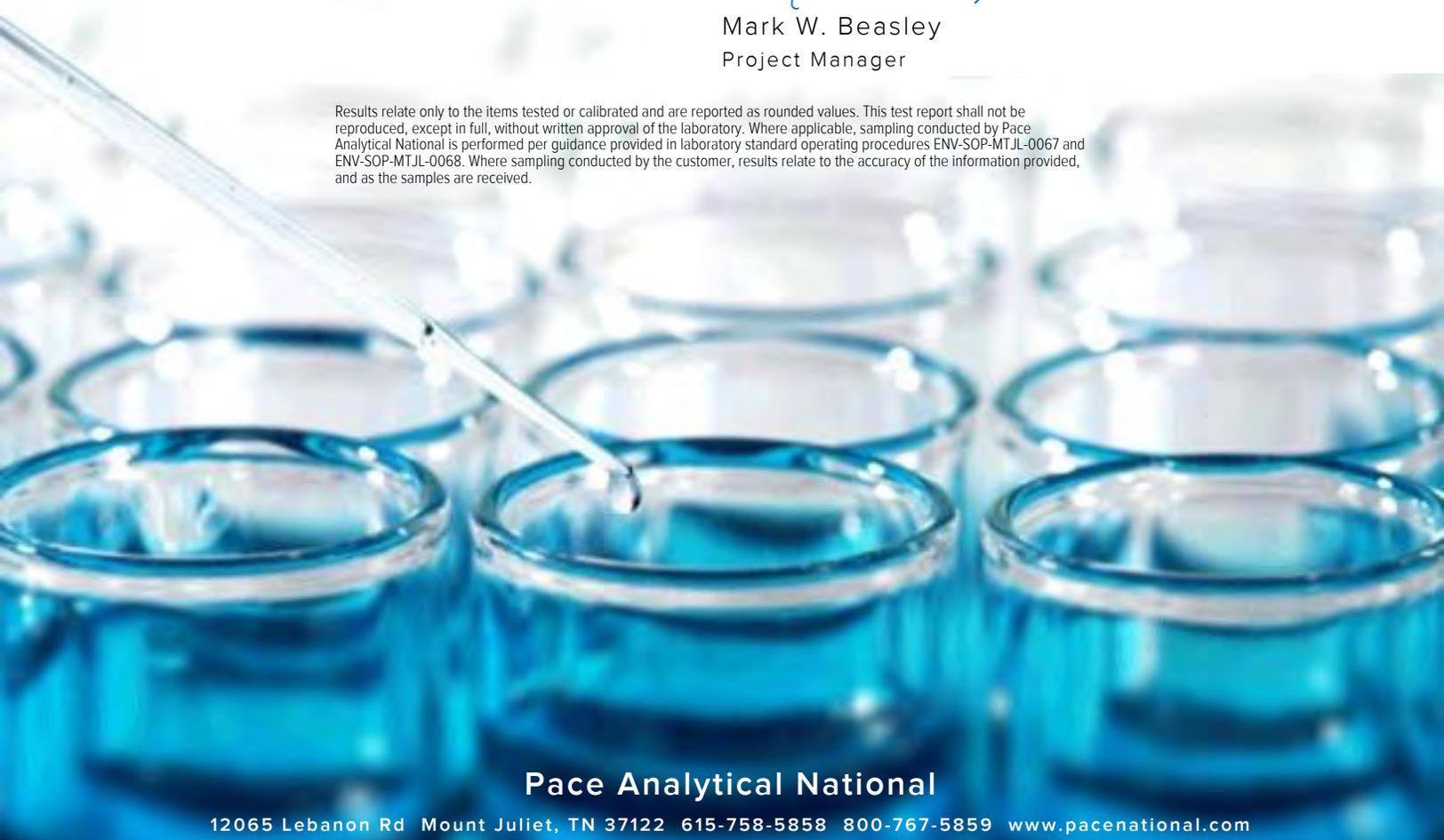
Plains All American, LP - GHD

Sample Delivery Group: L1354515
 Samples Received: 05/18/2021
 Project Number: 11209885/02
 Description: Darr Angell #1 SRS Darr Angell #1
 Site: SRS DARR ANGELL #1
 Report To: Becky Haskell
 2135 S Loop 250 W
 Midland, TX 79703

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

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



Pace Analytical National

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

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SAMPLE SUMMARY

MW-11R L1354515-01 GW

Collected by Zach Comino
 Collected date/time 05/14/21 08:00
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 01:22 | 05/20/21 01:22 | JAH | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

MW-16R L1354515-02 GW

Collected by Zach Comino
 Collected date/time 05/14/21 08:30
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 01:43 | 05/20/21 01:43 | JAH | Mt. Juliet, TN |

4 Cn

5 Tr

6 Sr

MW-17R L1354515-03 GW

Collected by Zach Comino
 Collected date/time 05/14/21 09:00
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 02:05 | 05/20/21 02:05 | JAH | Mt. Juliet, TN |

7 Qc

8 Gl

MW-18R L1354515-04 GW

Collected by Zach Comino
 Collected date/time 05/14/21 09:30
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 02:27 | 05/20/21 02:27 | JAH | Mt. Juliet, TN |

9 Al

10 Sc

MW-19R L1354515-05 GW

Collected by Zach Comino
 Collected date/time 05/14/21 10:00
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 02:49 | 05/20/21 02:49 | JAH | Mt. Juliet, TN |

MW-20R L1354515-06 GW

Collected by Zach Comino
 Collected date/time 05/14/21 10:20
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 03:11 | 05/20/21 03:11 | JAH | Mt. Juliet, TN |

MW-21R L1354515-07 GW

Collected by Zach Comino
 Collected date/time 05/14/21 11:00
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 03:33 | 05/20/21 03:33 | JAH | Mt. Juliet, TN |

MW-22 L1354515-08 GW

Collected by Zach Comino
 Collected date/time 05/14/21 11:30
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 03:55 | 05/20/21 03:55 | JAH | Mt. Juliet, TN |

MW-24 L1354515-09 GW

Collected by Zach Comino
 Collected date/time 05/14/21 12:00
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 04:17 | 05/20/21 04:17 | JAH | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

MW-25 L1354515-10 GW

Collected by Zach Comino
 Collected date/time 05/14/21 12:30
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 04:39 | 05/20/21 04:39 | JAH | Mt. Juliet, TN |

4 Cn

5 Tr

6 Sr

RW-12 L1354515-11 GW

Collected by Zach Comino
 Collected date/time 05/14/21 13:10
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 05:00 | 05/20/21 05:00 | JAH | Mt. Juliet, TN |

7 Qc

8 Gl

MW-7 L1354515-12 GW

Collected by Zach Comino
 Collected date/time 05/14/21 14:00
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 05:51 | 05/20/21 05:51 | JAH | Mt. Juliet, TN |

9 Al

10 Sc

MW-12 L1354515-13 GW

Collected by Zach Comino
 Collected date/time 05/14/21 14:20
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 06:47 | 05/20/21 06:47 | JAH | Mt. Juliet, TN |

MW-6 L1354515-14 GW

Collected by Zach Comino
 Collected date/time 05/14/21 14:40
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 07:31 | 05/20/21 07:31 | JAH | Mt. Juliet, TN |

DUP-1 L1354515-15 GW

Collected by Zach Comino
 Collected date/time 05/14/21 00:00
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 08:32 | 05/20/21 08:32 | JAH | Mt. Juliet, TN |

DUP-2 L1354515-16 GW

Collected by Zach Comino
 Collected date/time 05/14/21 00:00
 Received date/time 05/18/21 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1673236 | 1 | 05/20/21 08:54 | 05/20/21 08:54 | JAH | 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.

Mark W. Beasley
Project Manager

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

Laboratory Data Package Cover Page

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

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

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



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

| Laboratory Name: Pace Analytical National | | LRC Date: 05/29/2021 11:48 | | | | | |
|---|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1354515-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 and 16 | | | | | |
| Reviewer Name: Mark W. Beasley | | Prep Batch Number(s): WG1673236 | | | | | |
| # ¹ | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| R1 | OI | Chain-of-custody (C-O-C) | | | | | |
| | | Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? | X | | | | |
| | | Were all departures from standard conditions described in an exception report? | | | X | | |
| R2 | OI | Sample and quality control (QC) identification | | | | | |
| | | Are all field sample ID numbers cross-referenced to the laboratory ID numbers? | X | | | | |
| | | Are all laboratory ID numbers cross-referenced to the corresponding QC data? | X | | | | |
| R3 | OI | Test reports | | | | | |
| | | Were all samples prepared and analyzed within holding times? | X | | | | |
| | | Other than those results < MQL, were all other raw values bracketed by calibration standards? | X | | | | |
| | | Were calculations checked by a peer or supervisor? | X | | | | |
| | | Were all analyte identifications checked by a peer or supervisor? | X | | | | |
| | | Were sample detection limits reported for all analytes not detected? | X | | | | |
| | | Were all results for soil and sediment samples reported on a dry weight basis? | X | | | | |
| | | Were % moisture (or solids) reported for all soil and sediment samples? | | | X | | |
| | | Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035? | | | X | | |
| | | If required for the project, are TICs reported? | | | X | | |
| R4 | O | Surrogate recovery data | | | | | |
| | | Were surrogates added prior to extraction? | X | | | | |
| | | Were surrogate percent recoveries in all samples within the laboratory QC limits? | X | | | | |
| R5 | OI | Test reports/summary forms for blank samples | | | | | |
| | | Were appropriate type(s) of blanks analyzed? | X | | | | |
| | | Were blanks analyzed at the appropriate frequency? | X | | | | |
| | | Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? | X | | | | |
| | | Were blank concentrations < MQL? | X | | | | |
| R6 | OI | Laboratory control samples (LCS): | | | | | |
| | | Were all COCs included in the LCS? | X | | | | |
| | | Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? | X | | | | |
| | | Were LCSs analyzed at the required frequency? | X | | | | |
| | | Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? | X | | | | |
| | | Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs? | X | | | | |
| | | Was the LCSD RPD within QC limits? | X | | | | |
| R7 | OI | Matrix spike (MS) and matrix spike duplicate (MSD) data | | | | | |
| | | Were the project/method specified analytes included in the MS and MSD? | | | X | | |
| | | Were MS/MSD analyzed at the appropriate frequency? | | | X | | |
| | | Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? | | | X | | |
| | | Were MS/MSD RPDs within laboratory QC limits? | | | X | | |
| R8 | OI | Analytical duplicate data | | | | | |
| | | Were appropriate analytical duplicates analyzed for each matrix? | | | X | | |
| | | Were analytical duplicates analyzed at the appropriate frequency? | | | X | | |
| | | Were RPDs or relative standard deviations within the laboratory QC limits? | | | X | | |
| R9 | OI | Method quantitation limits (MQLs): | | | | | |
| | | Are the MQLs for each method analyte included in the laboratory data package? | X | | | | |
| | | Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? | X | | | | |
| | | Are unadjusted MQLs and DCSs included in the laboratory data package? | X | | | | |
| R10 | OI | Other problems/anomalies | | | | | |
| | | Are all known problems/anomalies/special conditions noted in this LRC and ER? | X | | | | |
| | | Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results? | X | | | | |
| | | Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package? | X | | | | |

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

Laboratory Review Checklist: Supporting Data

| | |
|---|---|
| Laboratory Name: Pace Analytical National | LRC Date: 05/29/2021 11:48 |
| Project Name: Darr Angell #1 SRS Darr Angell #1 | Laboratory Job Number: L1354515-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 and 16 |
| Reviewer Name: Mark W. Beasley | Prep Batch Number(s): WG1673236 |

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

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

Laboratory Review Checklist: Exception Reports

| | | | |
|---|--------------------|---|--|
| Laboratory Name: Pace Analytical National | | LRC Date: 05/29/2021 11:48 | |
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1354515-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 and 16 | |
| Reviewer Name: Mark W. Beasley | | Prep Batch Number(s): WG1673236 | |
| ER #¹ | Description | | |
| The Exception Report intentionally left blank, there are no exceptions applied to this SDG. | | | |
| 1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked). | | | |

Collected date/time: 05/14/21 08:00

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 01:22 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 01:22 | WG1673236 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 01:22 | WG1673236 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 01:22 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 106 | | | | 79.0-125 | | 05/20/2021 01:22 | WG1673236 |

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

Collected date/time: 05/14/21 08:30

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 01:43 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 01:43 | WG1673236 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 01:43 | WG1673236 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 01:43 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 05/20/2021 01:43 | WG1673236 |

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

Collected date/time: 05/14/21 09:00

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 02:05 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 02:05 | WG1673236 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 02:05 | WG1673236 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 02:05 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 106 | | | | 79.0-125 | | 05/20/2021 02:05 | WG1673236 |

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

Collected date/time: 05/14/21 09:30

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 02:27 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 02:27 | WG1673236 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 02:27 | WG1673236 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 02:27 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 05/20/2021 02:27 | WG1673236 |

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

Collected date/time: 05/14/21 10:00

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 02:49 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 02:49 | WG1673236 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 02:49 | WG1673236 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 02:49 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 106 | | | | 79.0-125 | | 05/20/2021 02:49 | WG1673236 |

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

Collected date/time: 05/14/21 10:20

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 03:11 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 03:11 | WG1673236 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 03:11 | WG1673236 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 03:11 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 05/20/2021 03:11 | WG1673236 |

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

Collected date/time: 05/14/21 11:00

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-----------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 03:33 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 03:33 | WG1673236 |
| Ethylbenzene | 0.000183 | J | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 03:33 | WG1673236 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 03:33 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 05/20/2021 03:33 | WG1673236 |

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

Collected date/time: 05/14/21 11:30

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 03:55 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 03:55 | WG1673236 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 03:55 | WG1673236 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 03:55 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 106 | | | | 79.0-125 | | 05/20/2021 03:55 | WG1673236 |

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

Collected date/time: 05/14/21 12:00

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 04:17 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 04:17 | WG1673236 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 04:17 | WG1673236 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 04:17 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 106 | | | | 79.0-125 | | 05/20/2021 04:17 | WG1673236 |

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

Collected date/time: 05/14/21 12:30

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 04:39 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 04:39 | WG1673236 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 04:39 | WG1673236 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 04:39 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 106 | | | | 79.0-125 | | 05/20/2021 04:39 | WG1673236 |

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

Collected date/time: 05/14/21 13:10

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-----------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | 0.00138 | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 05:00 | WG1673236 |
| Toluene | 0.00325 | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 05:00 | WG1673236 |
| Ethylbenzene | 0.00118 | | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 05:00 | WG1673236 |
| Total Xylene | 0.104 | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 05:00 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 05/20/2021 05:00 | WG1673236 |

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

Collected date/time: 05/14/21 14:00

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-----------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 05:51 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 05:51 | WG1673236 |
| Ethylbenzene | 0.000310 | J | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 05:51 | WG1673236 |
| Total Xylene | 0.00192 | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 05:51 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 05/20/2021 05:51 | WG1673236 |

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

Collected date/time: 05/14/21 14:20

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-----------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 06:47 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 06:47 | WG1673236 |
| Ethylbenzene | 0.000305 | J | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 06:47 | WG1673236 |
| Total Xylene | 0.000655 | J | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 06:47 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 05/20/2021 06:47 | WG1673236 |

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

Collected date/time: 05/14/21 14:40

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-----------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 07:31 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 07:31 | WG1673236 |
| Ethylbenzene | 0.000348 | J | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 07:31 | WG1673236 |
| Total Xylene | 0.00201 | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 07:31 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 05/20/2021 07:31 | WG1673236 |

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

Collected date/time: 05/14/21 00:00

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|----------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 08:32 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 08:32 | WG1673236 |
| Ethylbenzene | 0.000302 | J | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 08:32 | WG1673236 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 08:32 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 05/20/2021 08:32 | WG1673236 |

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

Collected date/time: 05/14/21 00:00

L1354515

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 05/20/2021 08:54 | WG1673236 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 05/20/2021 08:54 | WG1673236 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 05/20/2021 08:54 | WG1673236 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 05/20/2021 08:54 | WG1673236 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 05/20/2021 08:54 | WG1673236 |

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

Volatile Organic Compounds (GC) by Method 8021B

[L1354515-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16](#)

Method Blank (MB)

(MB) R3660438-2 05/20/21 01:00

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------------------------------|-----------|--------------|----------|----------|
| | mg/l | | mg/l | mg/l |
| Benzene | U | | 0.000190 | 0.000500 |
| Toluene | U | | 0.000412 | 0.00100 |
| Ethylbenzene | U | | 0.000160 | 0.000500 |
| Total Xylene | U | | 0.000510 | 0.00150 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | 79.0-125 |

Laboratory Control Sample (LCS)

(LCS) R3660438-1 05/20/21 00:01

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------------------------------|--------------|------------|----------|-------------|---------------|
| | mg/l | mg/l | % | % | |
| Benzene | 0.0500 | 0.0546 | 109 | 77.0-122 | |
| Toluene | 0.0500 | 0.0538 | 108 | 80.0-121 | |
| Ethylbenzene | 0.0500 | 0.0565 | 113 | 80.0-123 | |
| Total Xylene | 0.150 | 0.157 | 105 | 47.0-154 | |
| (S) a,a,a-Trifluorotoluene(PID) | | | 105 | 79.0-125 | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 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.

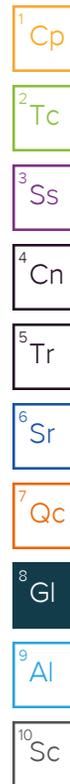
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

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



Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

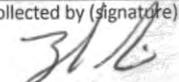
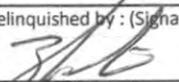
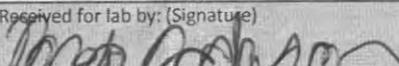
| | | | |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey-NELAP | TN002 |
| California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

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

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

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



| | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|--|--|--|-------------------------------------|-------|--|--|--|--|--|--|--|-----------------------|--|---|---|--|
| Company Name/Address: Plains All American, LP - GHD 2135 S Loop 250 W Midland, TX 79703 | | | Billing Information: Attn: Camille Bryant 10 Desta Dr., Ste. 550E Midland, TX 79705 | | | Pres Chk | Analysis / Container / Preservative | | | | | | | | | | Chain of Custody Page ___ of ___ | | | |
| Report to: Becky Haskell | | | Email To: becky.haskell@ghd.com; glenn.quinney@ghd.co | | | | | | | | | | | | | |  12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf | | | |
| Project Description: Darr Angell #1 SRS Darr Angell #1 | | | City/State Collected: Lovington, NM | | Please Circle: PT <input checked="" type="radio"/> MT <input type="radio"/> CT <input type="radio"/> ET <input type="radio"/> | | | | | | | | | | | SDG # L1354515 | | | | |
| Phone: 432-250-7917 | | Client Project # 11209885/02 | | Lab Project # PLAINSGHD-11209885 | | BTEX 40ml/Amb-HCl | | | | | | | | | | | Table # IN 14 | | | |
| Collected by (print): Zach Camino | | Site/Facility ID # SRS DARR ANGELL #1 | | P.O. # | | | | | | | | | | | | | Acctnum: PLAINSGHD | | | |
| Collected by (signature):  | | Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day | | Quote # | | | | | | | | | | | | | Template: T167385 | | | |
| Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/> | | Date Results Needed | | No. of Cntrs | | | | | | | | | | | | | Prelogin: P844025 | | | |
| Sample ID | | Comp/Grab | Matrix * | Depth | Date | | Time | | | | | | | | | | | PM: 134 - Mark W. Beasley | | |
| MW-11R | | Grab | GW | | 05/4/2021 | | 0800 | 3 | | | | | | | | | | | PB: | |
| MW-16R | | ↓ | GW | | ↓ | | 0830 | ↓ | | | | | | | | | | | Shipped Via: FedEX Ground | |
| MW-17R | | ↓ | GW | | ↓ | | 0900 | ↓ | | | | | | | | | | | Remarks | |
| MW-18R | | ↓ | GW | | ↓ | | 0930 | ↓ | | | | | | | | | | | Sample # (lab only) | |
| MW-19R | | ↓ | GW | | ↓ | | 1000 | ↓ | | | | | | | | | | | -01 | |
| MW-20R | | ↓ | GW | | ↓ | 1030 | ↓ | | | | | | | | | | | -02 | | |
| MW-21R | | ↓ | GW | | ↓ | 1100 | ↓ | | | | | | | | | | | -03 | | |
| MW-22R | | ↓ | GW | | ↓ | 1130 | ↓ | | | | | | | | | | | -04 | | |
| MW-24 | | ↓ | GW | | ↓ | 1200 | ↓ | | | | | | | | | | | -05 | | |
| MW-25 | | ↓ | GW | | ↓ | 1230 | ↓ | | | | | | | | | | | -06 | | |
| * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other | | Remarks: | | | pH _____ Temp _____ | | Flow _____ Other _____ | | | | | | | | | | | | Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| Relinquished by: (Signature)  | | Date: 05/4/2021 | Time: 1500 | Received by: (Signature) | | Trip Blank Received: Yes/No HCL / MeOH TBR | | | | | | | | | | | | Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier | | |
| Relinquished by: (Signature) | | Date: | Time: | Received by: (Signature) | | Bottles Received: 22-12-3 30 | | | | | | | | | | | | Tracking # 787203785448 | | |
| Relinquished by: (Signature) | | Date: | Time: | Received for lab by: (Signature)  | | Date: 5/18/21 | Time: 9:15 | Hold: | | | | | | | | | | | If preservation required by Login: Date/Time Condition: NCF / OK | |

| Company Name/Address: Plains All American, LP - GHD 2135 S Loop 250 W Midland, TX 79703 | | Billing Information: Attn: Camille Bryant 10 Desta Dr., Ste. 550E Midland, TX 79705 | | Analysis / Container / Preservative | | Chain of Custody Page ___ of ___ | | | | | |
|---|--|---|-------------------------------|-------------------------------------|--|--|--|-------|------------|------|---|
| Report to: Becky Haskell | | Email To: becky.haskell@ghd.com; glenn.quinney@ghd.co | | Pres Chk | |  12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf | | | | | |
| Project Description: Darr Angell #1 SRS Darr Angell #1 | | City/State Collected: Longton, NM | Please Circle: PT MT CT ET | | | | | | | | |
| Phone: 432-250-7917 | Client Project # 11209885/02 | Lab Project # PLAINSGHD-11209885 | | | | | | | | | |
| Collected by (print): <i>Zach Comins</i> | Site/Facility ID # SRS DARR ANGELL #1 | P.O. # | | | | | | | | | |
| Collected by (signature): <i>ZAC</i> | Rush? (Lab MUST Be Notified) ___ Same Day <input checked="" type="checkbox"/> Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day | Quote # | | | | | | | | | |
| Immediately Packed on Ice N ___ Y <input checked="" type="checkbox"/> | Date Results Needed | No. of Cntrs | BTEX 40ml/Amb-HCI | | | | | | | | |
| Sample ID | Comp/Grab | Matrix * | | | | | | Depth | Date | Time | |
| RW-12 | Grab | GW | | | | | | | 05/14/2021 | 1310 | 3 |
| MW-7 | | GW | | | | | | | | 1400 | ↓ |
| MW-12 | | GW | | | | | | | | 1420 | ↓ |
| MW-6 | | GW | | | | | | | | 1440 | ↓ |
| 1 Dup-1 | | GW | | | | | | | | - | ↓ |
| 1 Dup-2 | | GW | | | | | | | | - | ↓ |
| | | GW | | | | | | | | | |
| | | GW | | | | | | | | | |

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

Remarks: _____

Samples returned via: ___ UPS ___ FedEx ___ Courier _____ Tracking # **78263785948**

Relinquished by: (Signature) *ZAC* Date: **05/14/2021** Time: **1500** Received by: (Signature) _____ Trip Blank Received: Yes No
 HCL/MeOH TBR

Relinquished by: (Signature) _____ Date: _____ Time: _____ Received by: (Signature) _____ Temp: **22.1/23** °C Bottles Received: **18**

Relinquished by: (Signature) _____ Date: _____ Time: _____ Received for lab by: (Signature) *Teresa...* Date: **5/18/21** Time: **9:15** Hold: _____ Condition: NCF OK

pH _____ Temp _____
Flow _____ Other _____

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



ANALYTICAL REPORT

June 24, 2021

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

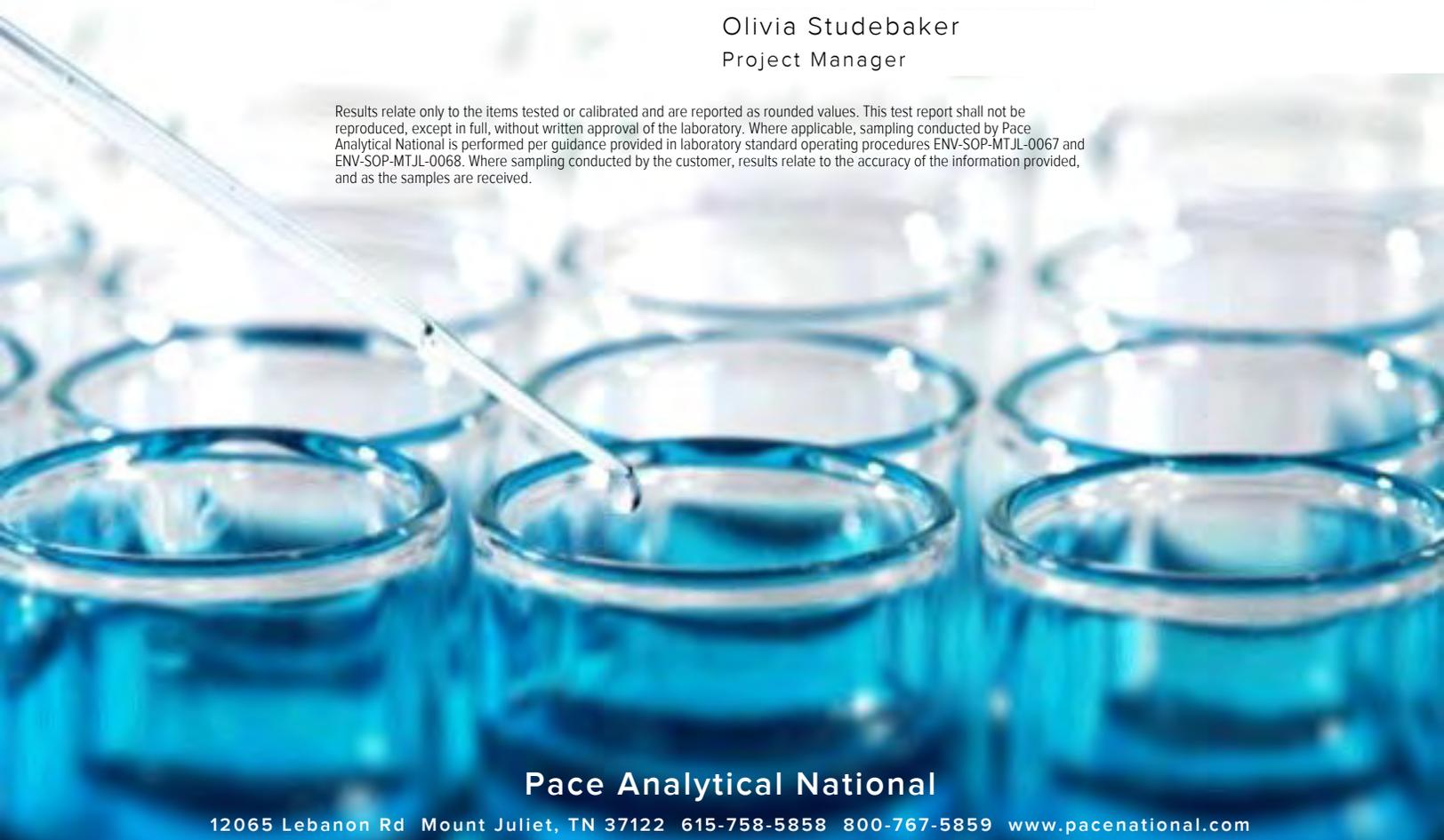
Plains All American, LP - GHD

Sample Delivery Group: L1368999
 Samples Received: 06/22/2021
 Project Number: 11209885/02
 Description: Darr Angell #1 SRS Darr Angell #1
 Site: SRS DARR ANGELL #1
 Report To: Becky Haskell
 2135 S Loop 250 W
 Midland, TX 79703

Entire Report Reviewed By:

Olivia Studebaker
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

| | | |
|---|-----------|---|
| Cp: Cover Page | 1 |  |
| Tc: Table of Contents | 2 | |
| Ss: Sample Summary | 3 |  |
| Cn: Case Narrative | 4 | |
| Tr: TRRP Summary | 5 |  |
| TRRP form R | 6 | |
| TRRP form S | 7 |  |
| TRRP Exception Reports | 8 |  |
| Sr: Sample Results | 9 | |
| PUMPS OFF DARR 1 L1368999-01 | 9 |  |
| DARR 1 PUMPS ON L1368999-02 | 10 | |
| Qc: Quality Control Summary | 11 |  |
| Volatile Organic Compounds (MS) by Method M18-Mod | 11 |  |
| Gl: Glossary of Terms | 12 | |
| Al: Accreditations & Locations | 13 |  |
| Sc: Sample Chain of Custody | 14 |  |

SAMPLE SUMMARY

PUMPS OFF DARR 1 L1368999-01 Air

| | | |
|-----------------|---------------------|--------------------|
| Collected by | Collected date/time | Received date/time |
| Ryan Livingston | 06/21/21 12:30 | 06/22/21 09:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (MS) by Method M18-Mod | WG1692980 | 400 | 06/22/21 17:19 | 06/22/21 17:19 | DAH | Mt. Juliet, TN |

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

DARR 1 PUMPS ON L1368999-02 Air

| | | |
|-----------------|---------------------|--------------------|
| Collected by | Collected date/time | Received date/time |
| Ryan Livingston | 06/21/21 12:45 | 06/22/21 09:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (MS) by Method M18-Mod | WG1692980 | 800 | 06/22/21 17:58 | 06/22/21 17:58 | DAH | 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.

Olivia Studebaker
Project Manager

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

Laboratory Data Package Cover Page

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

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

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



Olivia Studebaker
Project Manager

Laboratory Review Checklist: Reportable Data

| Laboratory Name: Pace Analytical National | | LRC Date: 06/24/2021 12:18 | | | | | |
|---|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1368999-01 and 02 | | | | | |
| Reviewer Name: Olivia Studebaker | | Prep Batch Number(s): WG1692980 | | | | | |
| #1 | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| R1 | OI | Chain-of-custody (C-O-C) | | | | | |
| | | Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? | X | | | | |
| | | Were all departures from standard conditions described in an exception report? | | | X | | |
| R2 | OI | Sample and quality control (QC) identification | | | | | |
| | | Are all field sample ID numbers cross-referenced to the laboratory ID numbers? | X | | | | |
| | | Are all laboratory ID numbers cross-referenced to the corresponding QC data? | X | | | | |
| R3 | OI | Test reports | | | | | |
| | | Were all samples prepared and analyzed within holding times? | X | | | | |
| | | Other than those results < MQL, were all other raw values bracketed by calibration standards? | X | | | | |
| | | Were calculations checked by a peer or supervisor? | X | | | | |
| | | Were all analyte identifications checked by a peer or supervisor? | X | | | | |
| | | Were sample detection limits reported for all analytes not detected? | X | | | | |
| | | Were all results for soil and sediment samples reported on a dry weight basis? | X | | | | |
| | | Were % moisture (or solids) reported for all soil and sediment samples? | | | X | | |
| | | Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035? | | | X | | |
| | | If required for the project, are TICs reported? | | | X | | |
| R4 | O | Surrogate recovery data | | | | | |
| | | Were surrogates added prior to extraction? | X | | | | |
| | | Were surrogate percent recoveries in all samples within the laboratory QC limits? | X | | | | |
| R5 | OI | Test reports/summary forms for blank samples | | | | | |
| | | Were appropriate type(s) of blanks analyzed? | X | | | | |
| | | Were blanks analyzed at the appropriate frequency? | X | | | | |
| | | Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? | X | | | | |
| | | Were blank concentrations < MQL? | X | | | | |
| R6 | OI | Laboratory control samples (LCS): | | | | | |
| | | Were all COCs included in the LCS? | X | | | | |
| | | Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? | X | | | | |
| | | Were LCSs analyzed at the required frequency? | X | | | | |
| | | Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? | X | | | | |
| | | Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs? | X | | | | |
| | | Was the LCSD RPD within QC limits? | X | | | | |
| R7 | OI | Matrix spike (MS) and matrix spike duplicate (MSD) data | | | | | |
| | | Were the project/method specified analytes included in the MS and MSD? | | | X | | |
| | | Were MS/MSD analyzed at the appropriate frequency? | | | X | | |
| | | Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? | | | X | | |
| | | Were MS/MSD RPDs within laboratory QC limits? | | | X | | |
| R8 | OI | Analytical duplicate data | | | | | |
| | | Were appropriate analytical duplicates analyzed for each matrix? | | | X | | |
| | | Were analytical duplicates analyzed at the appropriate frequency? | | | X | | |
| | | Were RPDs or relative standard deviations within the laboratory QC limits? | | | X | | |
| R9 | OI | Method quantitation limits (MQLs): | | | | | |
| | | Are the MQLs for each method analyte included in the laboratory data package? | X | | | | |
| | | Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? | X | | | | |
| | | Are unadjusted MQLs and DCSs included in the laboratory data package? | X | | | | |
| R10 | OI | Other problems/anomalies | | | | | |
| | | Are all known problems/anomalies/special conditions noted in this LRC and ER? | X | | | | |
| | | Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results? | X | | | | |
| | | Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package? | X | | | | |

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

Laboratory Review Checklist: Supporting Data

| Laboratory Name: Pace Analytical National | | LRC Date: 06/24/2021 12:18 | | | | | |
|---|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1368999-01 and 02 | | | | | |
| Reviewer Name: Olivia Studebaker | | Prep Batch Number(s): WG1692980 | | | | | |
| #1 | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| S1 | OI | Initial calibration (ICAL) | | | | | |
| | | Were response factors and/or relative response factors for each analyte within QC limits? | X | | | | |
| | | Were percent RSDs or correlation coefficient criteria met? | X | | | | |
| | | Was the number of standards recommended in the method used for all analytes? | X | | | | |
| | | Were all points generated between the lowest and highest standard used to calculate the curve? | X | | | | |
| | | Are ICAL data available for all instruments used? | X | | | | |
| | | Has the initial calibration curve been verified using an appropriate second source standard? | X | | | | |
| S2 | OI | Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB): | | | | | |
| | | Was the CCV analyzed at the method-required frequency? | X | | | | |
| | | Were percent differences for each analyte within the method-required QC limits? | X | | | | |
| | | Was the ICAL curve verified for each analyte? | X | | | | |
| | | Was the absolute value of the analyte concentration in the inorganic CCB < MDL? | | | X | | |
| S3 | O | Mass spectral tuning | | | | | |
| | | Was the appropriate compound for the method used for tuning? | X | | | | |
| | | Were ion abundance data within the method-required QC limits? | X | | | | |
| S4 | O | Internal standards (IS) | | | | | |
| | | Were IS area counts and retention times within the method-required QC limits? | X | | | | |
| S5 | OI | Raw data (NELAC Section 5.5.10) | | | | | |
| | | Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst? | X | | | | |
| | | Were data associated with manual integrations flagged on the raw data? | X | | | | |
| S6 | O | Dual column confirmation | | | | | |
| | | Did dual column confirmation results meet the method-required QC? | | | X | | |
| S7 | O | Tentatively identified compounds (TICs) | | | | | |
| | | If TICs were requested, were the mass spectra and TIC data subject to appropriate checks? | | | X | | |
| S8 | I | Interference Check Sample (ICS) results | | | | | |
| | | Were percent recoveries within method QC limits? | | | X | | |
| S9 | I | Serial dilutions, post digestion spikes, and method of standard additions | | | | | |
| | | Were percent differences, recoveries, and the linearity within the QC limits specified in the method? | | | X | | |
| S10 | OI | Method detection limit (MDL) studies | | | | | |
| | | Was a MDL study performed for each reported analyte? | X | | | | |
| | | Is the MDL either adjusted or supported by the analysis of DCSs? | X | | | | |
| S11 | OI | Proficiency test reports | | | | | |
| | | Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies? | X | | | | |
| S12 | OI | Standards documentation | | | | | |
| | | Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources? | X | | | | |
| S13 | OI | Compound/analyte identification procedures | | | | | |
| | | Are the procedures for compound/analyte identification documented? | X | | | | |
| S14 | OI | Demonstration of analyst competency (DOC) | | | | | |
| | | Was DOC conducted consistent with NELAC Chapter 5? | X | | | | |
| | | Is documentation of the analyst's competency up-to-date and on file? | X | | | | |
| S15 | OI | Verification/validation documentation for methods (NELAC Chapter 5) | | | | | |
| | | Are all the methods used to generate the data documented, verified, and validated, where applicable? | X | | | | |
| S16 | OI | Laboratory standard operating procedures (SOPs) | | | | | |
| | | Are laboratory SOPs current and on file for each method performed | X | | | | |
| 1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked). | | | | | | | |

Laboratory Review Checklist: Exception Reports

| Laboratory Name: Pace Analytical National | | LRC Date: 06/24/2021 12:18 | |
|--|---|---|--|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1368999-01 and 02 | |
| Reviewer Name: Olivia Studebaker | | Prep Batch Number(s): WG1692980 | |
| ER # ¹ | Description | | |
| | The Exception Report intentionally left blank, there are no exceptions applied to this SDG. | | |
| <p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p> | | | |

Collected date/time: 06/21/21 12:30

L1368999

Volatile Organic Compounds (MS) by Method M18-Mod

| Analyte | CAS # | Mol. Wt. | RDL1 ppbv | RDL2 ug/m3 | Result ppbv | Result ug/m3 | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| Benzene | 71-43-2 | 78.10 | 80.0 | 256 | 14600 | 46600 | | 400 | WG1692980 |
| Toluene | 108-88-3 | 92.10 | 200 | 753 | 19400 | 73100 | | 400 | WG1692980 |
| Ethylbenzene | 100-41-4 | 106 | 80.0 | 347 | 3090 | 13400 | | 400 | WG1692980 |
| m&p-Xylene | 1330-20-7 | 106 | 160 | 694 | 12500 | 54200 | | 400 | WG1692980 |
| o-Xylene | 95-47-6 | 106 | 80.0 | 347 | 3700 | 16000 | | 400 | WG1692980 |
| Methyl tert-butyl ether | 1634-04-4 | 88.10 | 80.0 | 288 | ND | ND | | 400 | WG1692980 |
| TPH (GC/MS) Low Fraction | 8006-61-9 | 101 | 80000 | 330000 | 1500000 | 6200000 | | 400 | WG1692980 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 103 | | | | WG1692980 |

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

Collected date/time: 06/21/21 12:45

L1368999

Volatile Organic Compounds (MS) by Method M18-Mod

| Analyte | CAS # | Mol. Wt. | RDL1 ppbv | RDL2 ug/m3 | Result ppbv | Result ug/m3 | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| Benzene | 71-43-2 | 78.10 | 160 | 511 | 23000 | 73500 | | 800 | WG1692980 |
| Toluene | 108-88-3 | 92.10 | 400 | 1510 | 27200 | 102000 | | 800 | WG1692980 |
| Ethylbenzene | 100-41-4 | 106 | 160 | 694 | 3800 | 16500 | | 800 | WG1692980 |
| m&p-Xylene | 1330-20-7 | 106 | 320 | 1390 | 15200 | 65900 | | 800 | WG1692980 |
| o-Xylene | 95-47-6 | 106 | 160 | 694 | 4320 | 18700 | | 800 | WG1692980 |
| Methyl tert-butyl ether | 1634-04-4 | 88.10 | 160 | 577 | ND | ND | | 800 | WG1692980 |
| TPH (GC/MS) Low Fraction | 8006-61-9 | 101 | 160000 | 661000 | 2140000 | 8840000 | | 800 | WG1692980 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 99.7 | | | | WG1692980 |

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

Volatile Organic Compounds (MS) by Method M18-Mod

L1368999-01,02

Method Blank (MB)

(MB) R3670687-3 06/22/21 10:18

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|----------|
| | ppbv | | ppbv | ppbv |
| Benzene | U | | 0.0715 | 0.200 |
| Ethylbenzene | U | | 0.0835 | 0.200 |
| MTBE | U | | 0.0647 | 0.200 |
| Toluene | U | | 0.0870 | 0.500 |
| m&p-Xylene | U | | 0.135 | 0.400 |
| o-Xylene | U | | 0.0828 | 0.200 |
| TPH (GC/MS) Low Fraction | U | | 39.7 | 200 |
| (S) 1,4-Bromofluorobenzene | 93.9 | | | 60.0-140 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

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

(LCS) R3670687-1 06/22/21 08:50 • (LCSD) R3670687-2 06/22/21 09:34

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
| | ppbv | ppbv | ppbv | % | % | % | | | % | % |
| MTBE | 3.75 | 3.56 | 3.60 | 94.9 | 96.0 | 70.0-130 | | | 1.12 | 25 |
| Benzene | 3.75 | 3.62 | 3.61 | 96.5 | 96.3 | 70.0-130 | | | 0.277 | 25 |
| Toluene | 3.75 | 3.68 | 3.64 | 98.1 | 97.1 | 70.0-130 | | | 1.09 | 25 |
| Ethylbenzene | 3.75 | 3.72 | 3.71 | 99.2 | 98.9 | 70.0-130 | | | 0.269 | 25 |
| m&p-Xylene | 7.50 | 7.40 | 7.40 | 98.7 | 98.7 | 70.0-130 | | | 0.000 | 25 |
| o-Xylene | 3.75 | 3.64 | 3.61 | 97.1 | 96.3 | 70.0-130 | | | 0.828 | 25 |
| TPH (GC/MS) Low Fraction | 203 | 215 | 212 | 106 | 104 | 70.0-130 | | | 1.41 | 25 |
| (S) 1,4-Bromofluorobenzene | | | | 97.4 | 97.1 | 60.0-140 | | | | |

7 Qc

8 Gl

9 Al

10 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.

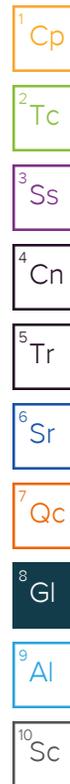
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

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



Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:

Attn: Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___



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

Report to:
Becky Haskell

Email To:
becky.haskell@ghd.com; glenn.quinney@ghd.co

Project Description:
Darr Angell #1 SRS Darr Angell #1

City/State
Collected:

Please Circle:
PT MT CT ET

Phone: 432-250-7917

Client Project #
11209885/02

Lab Project #
PLAINSGHD-11209885

Collected by (print):
Ryan Livingston

Site/Facility ID #
SRS DARR ANGELL #1

P.O. #

Collected by (signature):
[Signature]

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

Quote #

Date Results Needed

No.
of
Cntrs

Immediately
Packed on Ice N ___ Y ___

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs |
|-----------|-----------|----------|-------|------|------|--------------|
|-----------|-----------|----------|-------|------|------|--------------|

| | | | | | | |
|-----------------|---|-----|-----------|------|---|--|
| Pumps of Darr 1 | G | Air | 21-Jun-21 | 1230 | 2 | |
| Darr 1 Pumps on | G | Air | 21-Jun-21 | 1245 | 2 | |
| | | Air | | | | |
| | | Air | | | | |

M18-MOD Tedlar

SDG # *L1368909*
C085

Acctnum: PLAINSGHD

Template: T163766

Prelogin: P844047

PM: 134 - Mark W. Beasley

PB: *76 4-27-21*

Shipped Via: FedEX Ground

Remarks Sample # (lab only)

-01
-02

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

Remarks:

pH _____ Temp _____
Flow _____ Other _____

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

Samples returned via:
 UPS FedEx Courier

Tracking #

| | | | | |
|--|--------------------|---------------|--|---|
| Relinquished by: (Signature) <i>[Signature]</i> | Date: 21-Jun-21 | Time: 1500 | Received by: (Signature) <i>[Signature]</i> | Trip Blank Received: Yes / <input checked="" type="checkbox"/> No HCL / MeOH TBR |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: <i>AMB</i> °C Bottles Received: <i>4</i> |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) <i>[Signature]</i> | Date: <i>6/22/21</i> Time: <i>0900</i> Hold: Condition: NCF / <input checked="" type="checkbox"/> OK |



ANALYTICAL REPORT

August 25, 2021

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

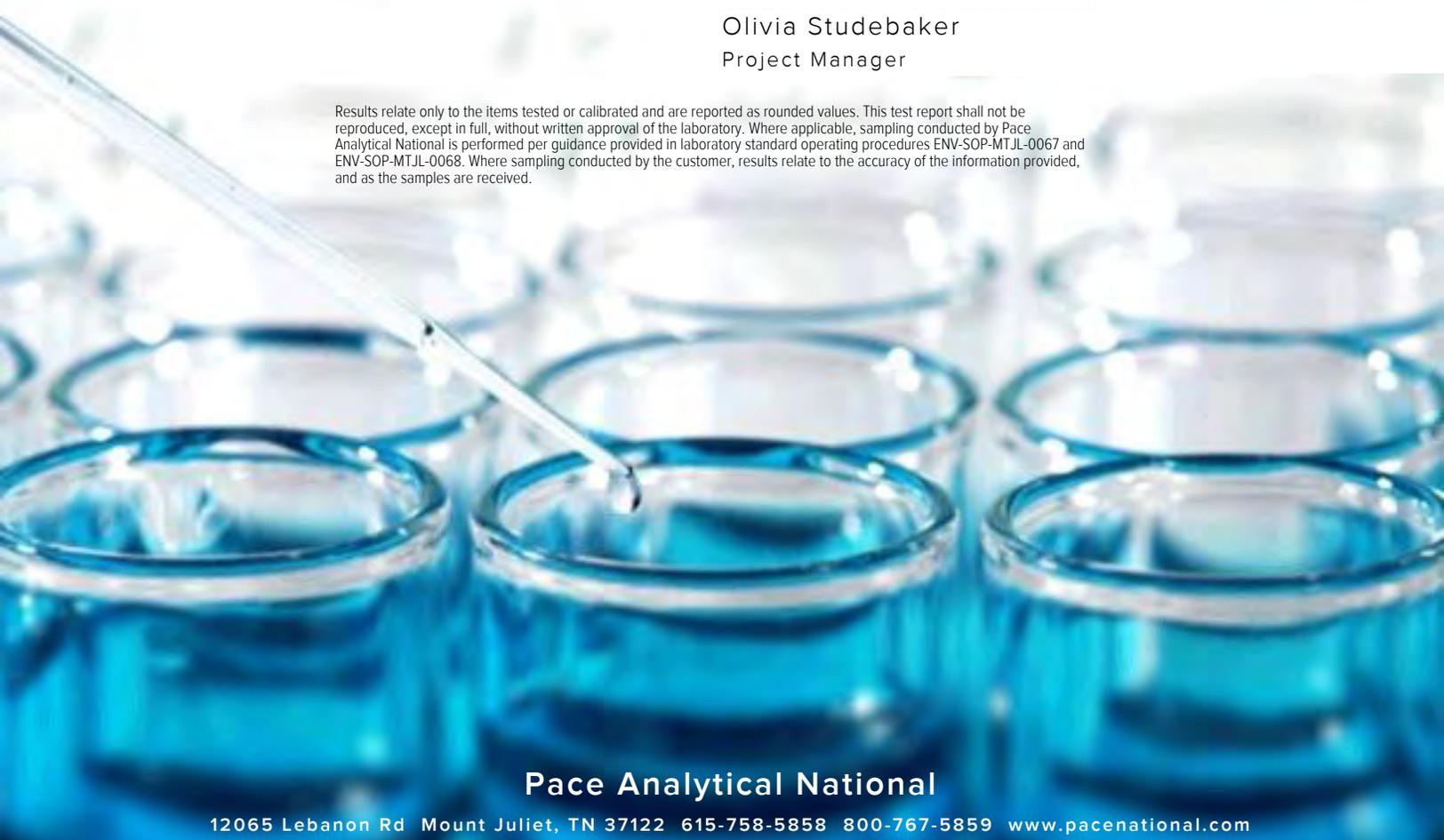
Plains All American, LP - GHD

Sample Delivery Group: L1390546
 Samples Received: 08/13/2021
 Project Number: 11209885/02
 Description: Darr Angell #1 SRS Darr Angell #1
 Site: SRS DARR ANGELL #1
 Report To: Becky Haskell
 2135 S Loop 250 W
 Midland, TX 79703

Entire Report Reviewed By:

Olivia Studebaker
Project Manager

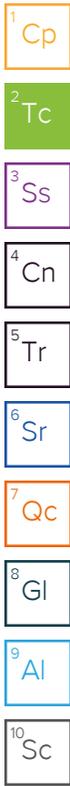
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory 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

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| | |
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MW-11R-081121 L1390546-01 GW

Collected by Ryan L. Collected date/time 08/11/21 11:30 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 01:23 | 08/15/21 01:23 | BMB | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

MW-16R-081121 L1390546-02 GW

Collected by Ryan L. Collected date/time 08/11/21 11:40 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 01:47 | 08/15/21 01:47 | BMB | Mt. Juliet, TN |

4 Cn

5 Tr

6 Sr

MW-17R-081121 L1390546-03 GW

Collected by Ryan L. Collected date/time 08/11/21 11:50 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 02:10 | 08/15/21 02:10 | BMB | Mt. Juliet, TN |

7 Qc

8 Gl

MW-18R-081121 L1390546-04 GW

Collected by Ryan L. Collected date/time 08/11/21 12:00 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 02:34 | 08/15/21 02:34 | BMB | Mt. Juliet, TN |

9 Al

10 Sc

MW-19R-081121 L1390546-05 GW

Collected by Ryan L. Collected date/time 08/11/21 12:10 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 02:58 | 08/15/21 02:58 | BMB | Mt. Juliet, TN |

MW-20R-081121 L1390546-06 GW

Collected by Ryan L. Collected date/time 08/11/21 12:20 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 03:21 | 08/15/21 03:21 | BMB | Mt. Juliet, TN |

MW-21R-081121 L1390546-07 GW

Collected by Ryan L. Collected date/time 08/11/21 12:30 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 03:45 | 08/15/21 03:45 | BMB | Mt. Juliet, TN |

MW-22-081121 L1390546-08 GW

Collected by Ryan L. Collected date/time 08/11/21 12:40 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 04:09 | 08/15/21 04:09 | BMB | Mt. Juliet, TN |

MW-24-081121 L1390546-09 GW

Collected by Ryan L. Collected date/time 08/11/21 12:50 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 04:33 | 08/15/21 04:33 | BMB | Mt. Juliet, TN |

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

MW-25-081121 L1390546-10 GW

Collected by Ryan L. Collected date/time 08/11/21 13:00 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 04:56 | 08/15/21 04:56 | BMB | Mt. Juliet, TN |

MW-2-081121 L1390546-11 GW

Collected by Ryan L. Collected date/time 08/11/21 13:10 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 05:20 | 08/15/21 05:20 | BMB | Mt. Juliet, TN |

MW-12R-081121 L1390546-12 GW

Collected by Ryan L. Collected date/time 08/11/21 13:20 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 05:44 | 08/15/21 05:44 | BMB | Mt. Juliet, TN |

MW-6-081121 L1390546-13 GW

Collected by Ryan L. Collected date/time 08/11/21 13:30 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 06:07 | 08/15/21 06:07 | BMB | Mt. Juliet, TN |

DUP-1-081121 L1390546-14 GW

Collected by Ryan L. Collected date/time 08/11/21 00:00 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 06:31 | 08/15/21 06:31 | BMB | Mt. Juliet, TN |

DUP-2-081121 L1390546-15 GW

Collected by Ryan L. Collected date/time 08/11/21 00:00 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 06:55 | 08/15/21 06:55 | BMB | Mt. Juliet, TN |

RW-12-081121 L1390546-16 GW

Collected by Ryan L. Collected date/time 08/11/21 13:05 Received date/time 08/13/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1723167 | 1 | 08/15/21 07:18 | 08/15/21 07:18 | BMB | 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.

Olivia Studebaker
Project Manager

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

Laboratory Data Package Cover Page

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

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

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



Olivia Studebaker
Project Manager

Laboratory Review Checklist: Reportable Data

| Laboratory Name: Pace Analytical National | | LRC Date: 08/25/2021 10:32 | | | | | |
|---|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1390546-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 and 16 | | | | | |
| Reviewer Name: Olivia Studebaker | | Prep Batch Number(s): WG1723167 | | | | | |
| # ¹ | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| R1 | OI | Chain-of-custody (C-O-C) | | | | | |
| | | Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? | X | | | | |
| | | Were all departures from standard conditions described in an exception report? | | | X | | |
| R2 | OI | Sample and quality control (QC) identification | | | | | |
| | | Are all field sample ID numbers cross-referenced to the laboratory ID numbers? | X | | | | |
| | | Are all laboratory ID numbers cross-referenced to the corresponding QC data? | X | | | | |
| R3 | OI | Test reports | | | | | |
| | | Were all samples prepared and analyzed within holding times? | X | | | | |
| | | Other than those results < MQL, were all other raw values bracketed by calibration standards? | X | | | | |
| | | Were calculations checked by a peer or supervisor? | X | | | | |
| | | Were all analyte identifications checked by a peer or supervisor? | X | | | | |
| | | Were sample detection limits reported for all analytes not detected? | X | | | | |
| | | Were all results for soil and sediment samples reported on a dry weight basis? | X | | | | |
| | | Were % moisture (or solids) reported for all soil and sediment samples? | | | X | | |
| | | Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035? | | | X | | |
| | | If required for the project, are TICs reported? | | | X | | |
| R4 | O | Surrogate recovery data | | | | | |
| | | Were surrogates added prior to extraction? | X | | | | |
| | | Were surrogate percent recoveries in all samples within the laboratory QC limits? | X | | | | |
| R5 | OI | Test reports/summary forms for blank samples | | | | | |
| | | Were appropriate type(s) of blanks analyzed? | X | | | | |
| | | Were blanks analyzed at the appropriate frequency? | X | | | | |
| | | Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? | X | | | | |
| | | Were blank concentrations < MQL? | X | | | | |
| R6 | OI | Laboratory control samples (LCS): | | | | | |
| | | Were all COCs included in the LCS? | X | | | | |
| | | Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? | X | | | | |
| | | Were LCSs analyzed at the required frequency? | X | | | | |
| | | Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? | X | | | | |
| | | Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs? | X | | | | |
| | | Was the LCSD RPD within QC limits? | X | | | | |
| R7 | OI | Matrix spike (MS) and matrix spike duplicate (MSD) data | | | | | |
| | | Were the project/method specified analytes included in the MS and MSD? | | | X | | |
| | | Were MS/MSD analyzed at the appropriate frequency? | | | X | | |
| | | Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? | | | X | | |
| | | Were MS/MSD RPDs within laboratory QC limits? | | | X | | |
| R8 | OI | Analytical duplicate data | | | | | |
| | | Were appropriate analytical duplicates analyzed for each matrix? | | | X | | |
| | | Were analytical duplicates analyzed at the appropriate frequency? | | | X | | |
| | | Were RPDs or relative standard deviations within the laboratory QC limits? | | | X | | |
| R9 | OI | Method quantitation limits (MQLs): | | | | | |
| | | Are the MQLs for each method analyte included in the laboratory data package? | X | | | | |
| | | Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? | X | | | | |
| | | Are unadjusted MQLs and DCSs included in the laboratory data package? | X | | | | |
| R10 | OI | Other problems/anomalies | | | | | |
| | | Are all known problems/anomalies/special conditions noted in this LRC and ER? | X | | | | |
| | | Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results? | X | | | | |
| | | Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package? | X | | | | |

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

Laboratory Review Checklist: Supporting Data

| | |
|---|---|
| Laboratory Name: Pace Analytical National | LRC Date: 08/25/2021 10:32 |
| Project Name: Darr Angell #1 SRS Darr Angell #1 | Laboratory Job Number: L1390546-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 and 16 |
| Reviewer Name: Olivia Studebaker | Prep Batch Number(s): WG1723167 |

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

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

Laboratory Review Checklist: Exception Reports

| | | | |
|---|--------------------|---|--|
| Laboratory Name: Pace Analytical National | | LRC Date: 08/25/2021 10:32 | |
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1390546-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 and 16 | |
| Reviewer Name: Olivia Studebaker | | Prep Batch Number(s): WG1723167 | |
| ER #¹ | Description | | |
| The Exception Report intentionally left blank, there are no exceptions applied to this SDG. | | | |
| 1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked). | | | |

Collected date/time: 08/11/21 11:30

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 01:23 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 01:23 | WG1723167 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 01:23 | WG1723167 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 01:23 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 08/15/2021 01:23 | WG1723167 |

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

Collected date/time: 08/11/21 11:40

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 01:47 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 01:47 | WG1723167 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 01:47 | WG1723167 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 01:47 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 08/15/2021 01:47 | WG1723167 |

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

Collected date/time: 08/11/21 11:50

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 02:10 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 02:10 | WG1723167 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 02:10 | WG1723167 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 02:10 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 08/15/2021 02:10 | WG1723167 |

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

MMW-16R-081121
 Collected date/time: 08/11/21 12:00

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 02:34 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 02:34 | WG1723167 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 02:34 | WG1723167 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 02:34 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 08/15/2021 02:34 | WG1723167 |

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

Collected date/time: 08/11/21 12:10

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 02:58 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 02:58 | WG1723167 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 02:58 | WG1723167 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 02:58 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 08/15/2021 02:58 | WG1723167 |

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

Collected date/time: 08/11/21 12:20

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 03:21 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 03:21 | WG1723167 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 03:21 | WG1723167 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 03:21 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 103 | | | | 79.0-125 | | 08/15/2021 03:21 | WG1723167 |

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

Collected date/time: 08/11/21 12:30

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-----------|-------------|--------------------|-------------|----------|-------------------------|-----------|
| Benzene | 0.000195 | J | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 03:45 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 03:45 | WG1723167 |
| Ethylbenzene | 0.000228 | B J | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 03:45 | WG1723167 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 03:45 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 08/15/2021 03:45 | WG1723167 |

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

Collected date/time: 08/11/21 12:40

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-----------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | 0.000269 | J | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 04:09 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 04:09 | WG1723167 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 04:09 | WG1723167 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 04:09 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 08/15/2021 04:09 | WG1723167 |

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

Collected date/time: 08/11/21 12:50

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 04:33 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 04:33 | WG1723167 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 04:33 | WG1723167 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 04:33 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 103 | | | | 79.0-125 | | 08/15/2021 04:33 | WG1723167 |

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

Collected date/time: 08/11/21 13:00

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 04:56 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 04:56 | WG1723167 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 04:56 | WG1723167 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 04:56 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 08/15/2021 04:56 | WG1723167 |

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

Collected date/time: 08/11/21 13:10

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | 0.0144 | | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 05:20 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 05:20 | WG1723167 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 05:20 | WG1723167 |
| Total Xylene | 0.0519 | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 05:20 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 101 | | | | 79.0-125 | | 08/15/2021 05:20 | WG1723167 |

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

Collected date/time: 08/11/21 13:20

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|----------|---------------------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | 0.000811 | | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 05:44 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 05:44 | WG1723167 |
| Ethylbenzene | 0.000211 | B J | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 05:44 | WG1723167 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 05:44 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 08/15/2021 05:44 | WG1723167 |

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

Collected date/time: 08/11/21 13:30

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-----------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | 0.00405 | | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 06:07 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 06:07 | WG1723167 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 06:07 | WG1723167 |
| Total Xylene | 0.0280 | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 06:07 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 103 | | | | 79.0-125 | | 08/15/2021 06:07 | WG1723167 |

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

Collected date/time: 08/11/21 00:00

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|------------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | 0.000672 | | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 06:31 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 06:31 | WG1723167 |
| Ethylbenzene | 0.000197 | <u>B J</u> | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 06:31 | WG1723167 |
| Total Xylene | 0.00765 | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 06:31 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 106 | | | | 79.0-125 | | 08/15/2021 06:31 | WG1723167 |

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

Collected date/time: 08/11/21 00:00

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | 0.0262 | | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 06:55 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 06:55 | WG1723167 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 06:55 | WG1723167 |
| Total Xylene | 0.145 | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 06:55 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 102 | | | | 79.0-125 | | 08/15/2021 06:55 | WG1723167 |

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

Collected date/time: 08/11/21 13:05

L1390546

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-----------|-------------|--------------------|-------------|----------|-------------------------|-----------|
| Benzene | 0.000489 | J | 0.000190 | 0.000500 | 0.000500 | 1 | 08/15/2021 07:18 | WG1723167 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 08/15/2021 07:18 | WG1723167 |
| Ethylbenzene | 0.000212 | B J | 0.000160 | 0.000500 | 0.000500 | 1 | 08/15/2021 07:18 | WG1723167 |
| Total Xylene | 0.00545 | | 0.000510 | 0.00150 | 0.00150 | 1 | 08/15/2021 07:18 | WG1723167 |
| (S) a,a,a-Trifluorotoluene(PID) | 105 | | | | 79.0-125 | | 08/15/2021 07:18 | WG1723167 |

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

Volatile Organic Compounds (GC) by Method 8021B

[L1390546-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16](#)

Method Blank (MB)

(MB) R3695910-2 08/15/21 00:12

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------------------------------|-----------|--------------|----------|----------|
| | mg/l | | mg/l | mg/l |
| Benzene | U | | 0.000190 | 0.000500 |
| Toluene | U | | 0.000412 | 0.00100 |
| Ethylbenzene | 0.000177 | ↓ | 0.000160 | 0.000500 |
| Total Xylene | U | | 0.000510 | 0.00150 |
| (S) a,a,a-Trifluorotoluene(PID) | 106 | | | 79.0-125 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

Laboratory Control Sample (LCS)

(LCS) R3695910-1 08/14/21 23:25

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------------------------------|--------------|------------|----------|-------------|---------------|
| | mg/l | mg/l | % | % | |
| Benzene | 0.0500 | 0.0483 | 96.6 | 77.0-122 | |
| Toluene | 0.0500 | 0.0483 | 96.6 | 80.0-121 | |
| Ethylbenzene | 0.0500 | 0.0498 | 99.6 | 80.0-123 | |
| Total Xylene | 0.150 | 0.149 | 99.3 | 47.0-154 | |
| (S) a,a,a-Trifluorotoluene(PID) | | | 102 | 79.0-125 | |

6 Sr

7 Qc

8 Gl

9 Al

10 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.

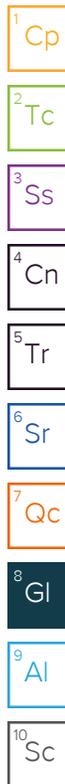
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

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



Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

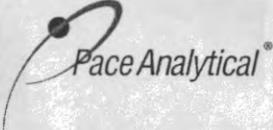
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|-------------------------------|-------------|-----------------------------|------------------|
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| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas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

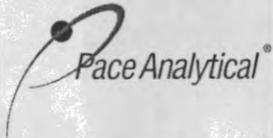
¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

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

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



| Company Name/Address: Plains All American, LP - GHD 2135 S Loop 250 W Midland, TX 79703 | | Billing Information: Attn: Camille Bryant 10 Desta Dr., Ste. 550E Midland, TX 79705 | | Pres Chk | | Analysis / Container / Preservative | | | | | | | | | | Chain of Custody Page <u> </u> of <u> </u> | | | |
|--|-----------|---|-------|-------------------------------------|------|--|---|--|--|--|--|---|--|---|---------------------|--|--|---|--|
| Report to: Becky Haskell | | Email To: becky.haskell@ghd.com; glenn.quinney@ghd.com | | | | BTEX 40m/Amb-HCI | | | | | | | | | | | |  12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf SDG # 1390546 H147 Acctnum: PLAINSGHD Template: T167385 Prelogin: P863981 PM: 823 - Olivia Studebaker PB: Shipped Via: FedEX Ground | |
| Project Description: Darr Angell #1 SRS Darr Angell #1 | | City/State Collected: | | Please Circle: PT MT CT ET | | | | | | | | | | | | | | | |
| Phone: 432-250-7917 | | Client Project # 11209885/02 | | Lab Project # PLAINSGHD-11209885 | | | | | | | | | | | | | | | |
| Collected by (print): <i>Ryan Wingfield</i> | | Site/Facility ID # SRS DARR ANGELL #1 | | P.O. # | | | | | | | | | | | | | | | |
| Collected by (signature): <i>[Signature]</i> | | Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day | | Quote # | | Date Results Needed | | No. of Cntrs | | | | | | | | | | | |
| Immediately Packed on Ice N <u> </u> Y <u> </u> | | | | | | | | | | | | | | | | | | | |
| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | | | | | | | | | Remarks | Sample # (lab only) | | | | |
| MW-11R-081121 | Gr2b | GW | | 8-11-21 | 1130 | 3 | X | | | | | | | | -01 | | | | |
| MW-16R-081121 | | GW | | | 1140 | 1 | | | | | | | | | -02 | | | | |
| MW-17R-081121 | | GW | | | 1150 | 1 | | | | | | | | | -03 | | | | |
| MW-18R-081121 | | GW | | | 1200 | 1 | | | | | | | | | -04 | | | | |
| MW-19R-081121 | | GW | | | 1210 | 1 | | | | | | | | | -05 | | | | |
| MW-20R-081121 | | GW | | | 1220 | 1 | | | | | | | | | -06 | | | | |
| MW-21R-081121 | | GW | | | 1230 | 1 | | | | | | | | | -07 | | | | |
| MW-22-081121 | | GW | | | 1240 | 1 | | | | | | | | | -08 | | | | |
| MW-24-081121 | | GW | | | 1250 | 1 | | | | | | | | | -09 | | | | |
| MW-25-081121 | | GW | | | 1300 | 1 | | | | | | | | | -10 | | | | |
| * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____ | | Remarks: | | | | | | | | | | pH _____ Temp _____ Flow _____ Other _____ | | Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | | | | |
| Relinquished by: (Signature) <i>[Signature]</i> | | Date: 8-12-21 | | Time: 1230 | | Received by: (Signature) <i>[Signature]</i> | | Trip Blank Received: Yes / No A312 HCL / MeOH TBR | | | | | | | | | | | |
| Relinquished by: (Signature) <i>[Signature]</i> | | Date: 8-12-21 | | Time: 1230 | | Received by: (Signature) <i>[Signature]</i> | | Temp: 2.6 + 1 = 2.7 °C Bottles Received: 48 | | If preservation required by Login: Date/Time | | | | | | | | | |
| Relinquished by: (Signature) | | Date: | | Time: | | Received for lab by: (Signature) <i>Jasmine Fugate</i> | | Date: 8/13/21 Time: 800 | | Hold: | | Condition: NCF / OK | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|--|--|---|----------------|--|---------|---|---|--|--|---|--|------------------------|--|--|---------|---|--|
| Company Name/Address: Plains All American, LP - GHD 2135 S Loop 250 W Midland, TX 79703 | | Billing Information: Attn: Camille Bryant 10 Desta Dr., Ste. 550E Midland, TX 79705 | | Pres Chk | | Analysis / Container / Preservative | | | | | | | | | | Chain of Custody Page <u>22</u> of <u> </u> | |
| Report to: Becky Haskell | | Email To: becky.haskell@ghd.com;glenn.quinney@ghd.co | | | | BTEX 40ml/Amb-HCl | | | | | | | | | |  12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf | |
| Project Description: Darr Angell #1 SRS Darr Angell #1 | | City/State Collected: | | Please Circle: PT MT CT ET | | | | | | | | | | | | | |
| Phone: 432-250-7917 | | Client Project # 11209885/02 | | Lab Project # PLAINSGHD-11209885 | | | | | | | | | | | | | |
| Collected by (print): <i>Byron L. Dwyer</i> | | Site/Facility ID # SRS DARR ANGELL #1 | | P.O. # | | | | | | | | | | | | | |
| Collected by (signature): <i>[Signature]</i> | | Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day | | Quote # | | Date Results Needed | | No. of Cntrs | | SDG # 1390596 Table # Acctnum: PLAINSGHD Template: T167385 Prelogin: P863981 PM: 823 - Olivia Studebaker PB: Shipped Via: FedEX Ground | | | | | | | |
| Immediately Packed on Ice N <u> </u> Y <u> </u> | | | | | | | | | | | | | | | | | |
| Sample ID | | Comp/Grab | Matrix * | Depth | Date | Time | | | | | | | | | Remarks | Sample # (lab only) | |
| mw-2-081121 | | Grab | GW | | 8-11-21 | 1300 | 3 | X | | | | | | | | -11 | |
| mw-12R-081121 | | ↓ | GW | | ↓ | 1320 | 1 | | | | | | | | | -12 | |
| mw-6-081121 | | ↓ | GW | | ↓ | 1330 | 1 | | | | | | | | | -13 | |
| Dop-1-081121 | | ↓ | GW | | ↓ | - | 1 | | | | | | | | | -14 | |
| Dop-2-081121 | | ↓ | GW | | ↓ | - | 1 | | | | | | | | | -15 | |
| RW-12-081121 | | Grab | GW | | 8-11-21 | 1305 | 3 | X | | | | | | | | -16 | |
| | | | GW | | | | | | | | | | | | | | |
| | | | GW | | | | | | | | | | | | | | |
| | | | GW | | | | | | | | | | | | | | |
| | | | GW | | | | | | | | | | | | | | |
| * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other | | Remarks: | | | | pH _____ Temp _____ Flow _____ Other _____ | | | | | | | | | | Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |
| Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier | | Tracking # | | | | | | | | | | | | | | | |
| Relinquished by: (Signature) <i>[Signature]</i> | | Date: 8-12-21 | Time: 12:30 | Received by: (Signature) <i>[Signature]</i> | | Trip Blank Received: Yes / No A3R HCL / MeOH TBR | | Bottles Received: 2.6 + 1.6 = 2.748 | | If preservation required by Login: Date/Time | | | | | | | |
| Relinquished by: (Signature) <i>[Signature]</i> | | Date: 8-12-21 | Time: 16:30 | Received by: (Signature) <i>[Signature]</i> | | Date: 8/13/21 | | Time: 800 | | Hold: | | Condition: NCF / OK | | | | | |
| Relinquished by: (Signature) <i>[Signature]</i> | | Date: | Time: | Received for lab by: (Signature) <i>Jasmine Juque</i> | | Date: 8/13/21 | | Time: 800 | | Hold: | | Condition: NCF / OK | | | | | |



ANALYTICAL REPORT

September 07, 2021

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

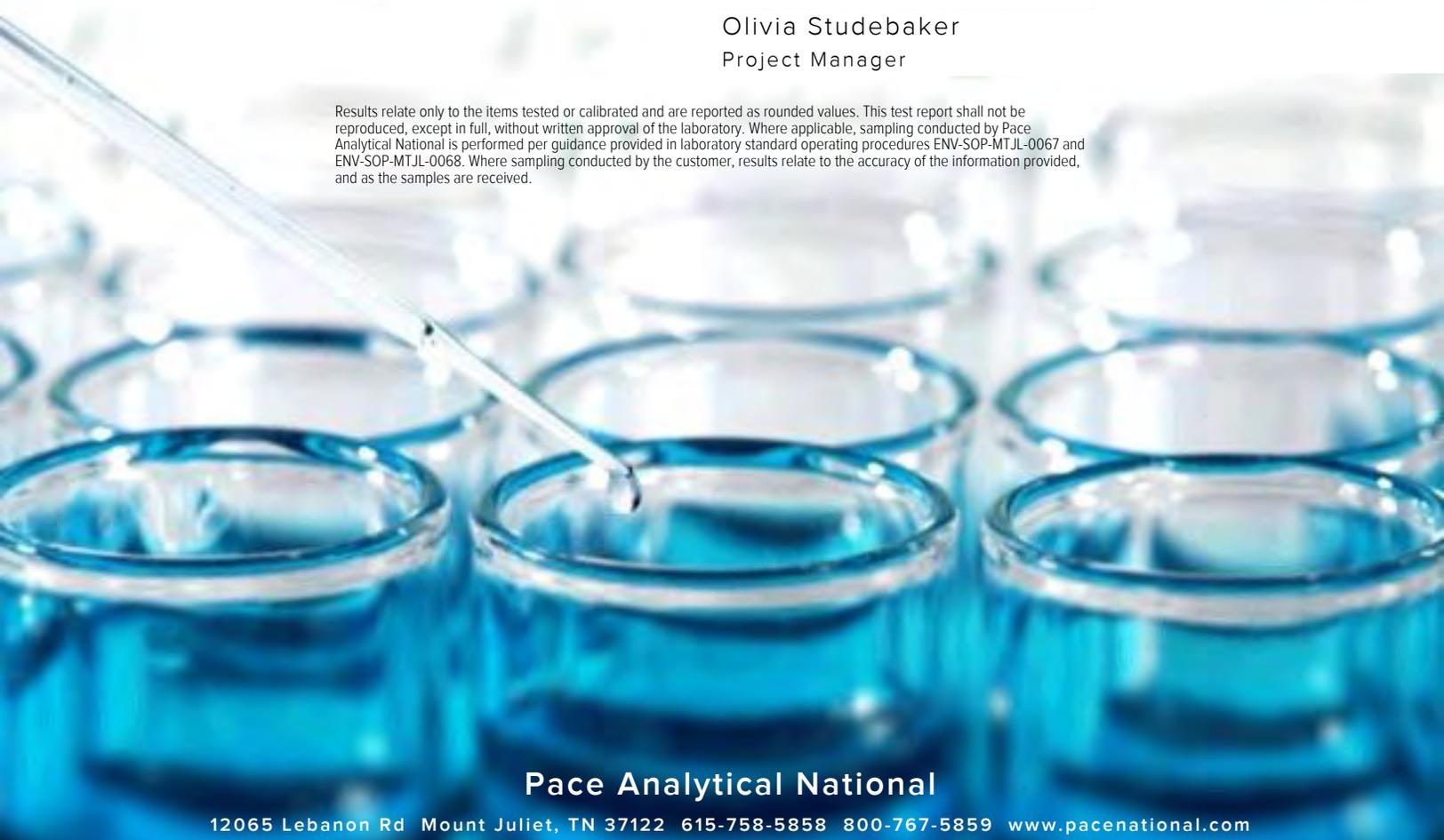
Plains All American, LP - GHD

Sample Delivery Group: L1397138
 Samples Received: 08/31/2021
 Project Number: 11209885/02
 Description: Darr Angell #1 SRS Darr Angell #1
 Site: SRS DARR ANGELL #1
 Report To: Becky Haskell
 2135 S Loop 250 W
 Midland, TX 79703

Entire Report Reviewed By:

Olivia Studebaker
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

| | | |
|---|-----------|---|
| Cp: Cover Page | 1 |  |
| Tc: Table of Contents | 2 | |
| Ss: Sample Summary | 3 |  |
| Cn: Case Narrative | 4 | |
| Tr: TRRP Summary | 5 |  |
| TRRP form R | 6 | |
| TRRP form S | 7 |  |
| TRRP Exception Reports | 8 |  |
| Sr: Sample Results | 9 | |
| DARR 1: SYSTEM OFF L1397138-01 | 9 |  |
| DARR 1: SYSTEM ON L1397138-03 | 10 | |
| Qc: Quality Control Summary | 11 |  |
| Volatile Organic Compounds (MS) by Method M18-Mod | 11 |  |
| Gl: Glossary of Terms | 13 | |
| Al: Accreditations & Locations | 14 |  |
| Sc: Sample Chain of Custody | 15 |  |

DARR 1: SYSTEM OFF L1397138-01 Air

Collected by
Collected date/time
Received date/time
08/30/21 11:25 08/31/21 13:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (MS) by Method M18-Mod | WG1733073 | 800 | 09/01/21 14:51 | 09/01/21 14:51 | FKG | Mt. Juliet, TN |
| Volatile Organic Compounds (MS) by Method M18-Mod | WG1733817 | 5000 | 09/02/21 12:12 | 09/02/21 12:12 | MBF | Mt. Juliet, TN |

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

DARR 1: SYSTEM ON L1397138-03 Air

Collected by
Collected date/time
Received date/time
08/30/21 11:30 08/31/21 13:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (MS) by Method M18-Mod | WG1733073 | 800 | 09/01/21 15:32 | 09/01/21 15:32 | FKG | Mt. Juliet, TN |
| Volatile Organic Compounds (MS) by Method M18-Mod | WG1733817 | 5000 | 09/02/21 12:53 | 09/02/21 12:53 | MBF | 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.

Olivia Studebaker
Project Manager

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

Laboratory Data Package Cover Page

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

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

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



Olivia Studebaker
Project Manager

Laboratory Review Checklist: Reportable Data

| Laboratory Name: Pace Analytical National | | LRC Date: 09/07/2021 12:45 | | | | | |
|---|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1397138-01 and 03 | | | | | |
| Reviewer Name: Olivia Studebaker | | Prep Batch Number(s): WG1733073 and WG1733817 | | | | | |
| #1 | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| R1 | OI | Chain-of-custody (C-O-C) | | | | | |
| | | Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? | X | | | | |
| | | Were all departures from standard conditions described in an exception report? | | | X | | |
| R2 | OI | Sample and quality control (QC) identification | | | | | |
| | | Are all field sample ID numbers cross-referenced to the laboratory ID numbers? | X | | | | |
| | | Are all laboratory ID numbers cross-referenced to the corresponding QC data? | X | | | | |
| R3 | OI | Test reports | | | | | |
| | | Were all samples prepared and analyzed within holding times? | X | | | | |
| | | Other than those results < MQL, were all other raw values bracketed by calibration standards? | X | | | | |
| | | Were calculations checked by a peer or supervisor? | X | | | | |
| | | Were all analyte identifications checked by a peer or supervisor? | X | | | | |
| | | Were sample detection limits reported for all analytes not detected? | X | | | | |
| | | Were all results for soil and sediment samples reported on a dry weight basis? | X | | | | |
| | | Were % moisture (or solids) reported for all soil and sediment samples? | | | X | | |
| | | Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035? | | | X | | |
| | | If required for the project, are TICs reported? | | | X | | |
| R4 | O | Surrogate recovery data | | | | | |
| | | Were surrogates added prior to extraction? | X | | | | |
| | | Were surrogate percent recoveries in all samples within the laboratory QC limits? | X | | | | |
| R5 | OI | Test reports/summary forms for blank samples | | | | | |
| | | Were appropriate type(s) of blanks analyzed? | X | | | | |
| | | Were blanks analyzed at the appropriate frequency? | X | | | | |
| | | Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? | X | | | | |
| | | Were blank concentrations < MQL? | X | | | | |
| R6 | OI | Laboratory control samples (LCS): | | | | | |
| | | Were all COCs included in the LCS? | X | | | | |
| | | Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? | X | | | | |
| | | Were LCSs analyzed at the required frequency? | X | | | | |
| | | Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? | X | | | | |
| | | Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs? | X | | | | |
| | | Was the LCSD RPD within QC limits? | X | | | | |
| R7 | OI | Matrix spike (MS) and matrix spike duplicate (MSD) data | | | | | |
| | | Were the project/method specified analytes included in the MS and MSD? | | | X | | |
| | | Were MS/MSD analyzed at the appropriate frequency? | | | X | | |
| | | Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? | | | X | | |
| | | Were MS/MSD RPDs within laboratory QC limits? | | | X | | |
| R8 | OI | Analytical duplicate data | | | | | |
| | | Were appropriate analytical duplicates analyzed for each matrix? | | | X | | |
| | | Were analytical duplicates analyzed at the appropriate frequency? | | | X | | |
| | | Were RPDs or relative standard deviations within the laboratory QC limits? | | | X | | |
| R9 | OI | Method quantitation limits (MQLs): | | | | | |
| | | Are the MQLs for each method analyte included in the laboratory data package? | X | | | | |
| | | Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? | X | | | | |
| | | Are unadjusted MQLs and DCSs included in the laboratory data package? | X | | | | |
| R10 | OI | Other problems/anomalies | | | | | |
| | | Are all known problems/anomalies/special conditions noted in this LRC and ER? | X | | | | |
| | | Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results? | X | | | | |
| | | Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package? | X | | | | |

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

Laboratory Review Checklist: Supporting Data

| Laboratory Name: Pace Analytical National | | LRC Date: 09/07/2021 12:45 | | | | | |
|--|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1397138-01 and 03 | | | | | |
| Reviewer Name: Olivia Studebaker | | Prep Batch Number(s): WG1733073 and WG1733817 | | | | | |
| # ¹ | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| S1 | OI | Initial calibration (ICAL) | | | | | |
| | | Were response factors and/or relative response factors for each analyte within QC limits? | X | | | | |
| | | Were percent RSDs or correlation coefficient criteria met? | X | | | | |
| | | Was the number of standards recommended in the method used for all analytes? | X | | | | |
| | | Were all points generated between the lowest and highest standard used to calculate the curve? | X | | | | |
| | | Are ICAL data available for all instruments used? | X | | | | |
| | | Has the initial calibration curve been verified using an appropriate second source standard? | X | | | | |
| S2 | OI | Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB): | | | | | |
| | | Was the CCV analyzed at the method-required frequency? | X | | | | |
| | | Were percent differences for each analyte within the method-required QC limits? | X | | | | |
| | | Was the ICAL curve verified for each analyte? | X | | | | |
| | | Was the absolute value of the analyte concentration in the inorganic CCB < MDL? | | | X | | |
| S3 | O | Mass spectral tuning | | | | | |
| | | Was the appropriate compound for the method used for tuning? | X | | | | |
| | | Were ion abundance data within the method-required QC limits? | X | | | | |
| S4 | O | Internal standards (IS) | | | | | |
| | | Were IS area counts and retention times within the method-required QC limits? | X | | | | |
| S5 | OI | Raw data (NELAC Section 5.5.10) | | | | | |
| | | Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst? | X | | | | |
| | | Were data associated with manual integrations flagged on the raw data? | X | | | | |
| S6 | O | Dual column confirmation | | | | | |
| | | Did dual column confirmation results meet the method-required QC? | | | X | | |
| S7 | O | Tentatively identified compounds (TICs) | | | | | |
| | | If TICs were requested, were the mass spectra and TIC data subject to appropriate checks? | | | X | | |
| S8 | I | Interference Check Sample (ICS) results | | | | | |
| | | Were percent recoveries within method QC limits? | | | X | | |
| S9 | I | Serial dilutions, post digestion spikes, and method of standard additions | | | | | |
| | | Were percent differences, recoveries, and the linearity within the QC limits specified in the method? | | | X | | |
| S10 | OI | Method detection limit (MDL) studies | | | | | |
| | | Was a MDL study performed for each reported analyte? | X | | | | |
| | | Is the MDL either adjusted or supported by the analysis of DCSs? | X | | | | |
| S11 | OI | Proficiency test reports | | | | | |
| | | Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies? | X | | | | |
| S12 | OI | Standards documentation | | | | | |
| | | Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources? | X | | | | |
| S13 | OI | Compound/analyte identification procedures | | | | | |
| | | Are the procedures for compound/analyte identification documented? | X | | | | |
| S14 | OI | Demonstration of analyst competency (DOC) | | | | | |
| | | Was DOC conducted consistent with NELAC Chapter 5? | X | | | | |
| | | Is documentation of the analyst's competency up-to-date and on file? | X | | | | |
| S15 | OI | Verification/validation documentation for methods (NELAC Chapter 5) | | | | | |
| | | Are all the methods used to generate the data documented, verified, and validated, where applicable? | X | | | | |
| S16 | OI | Laboratory standard operating procedures (SOPs) | | | | | |
| | | Are laboratory SOPs current and on file for each method performed | X | | | | |
| <p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p> | | | | | | | |

Laboratory Review Checklist: Exception Reports

| Laboratory Name: Pace Analytical National | | LRC Date: 09/07/2021 12:45 | |
|--|---|---|--|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1397138-01 and 03 | |
| Reviewer Name: Olivia Studebaker | | Prep Batch Number(s): WG1733073 and WG1733817 | |
| ER # ¹ | Description | | |
| | The Exception Report intentionally left blank, there are no exceptions applied to this SDG. | | |
| <p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p> | | | |

Volatile Organic Compounds (MS) by Method M18-Mod

| Analyte | CAS # | Mol. Wt. | RDL1 ppbv | RDL2 ug/m3 | Result ppbv | Result ug/m3 | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| Benzene | 71-43-2 | 78.10 | 160 | 511 | 40700 | 130000 | | 800 | WG1733073 |
| Toluene | 108-88-3 | 92.10 | 400 | 1510 | 73800 | 278000 | | 800 | WG1733073 |
| Ethylbenzene | 100-41-4 | 106 | 160 | 694 | 14700 | 63700 | | 800 | WG1733073 |
| m&p-Xylene | 1330-20-7 | 106 | 320 | 1390 | 64500 | 280000 | | 800 | WG1733073 |
| o-Xylene | 95-47-6 | 106 | 160 | 694 | 20900 | 90600 | | 800 | WG1733073 |
| Methyl tert-butyl ether | 1634-04-4 | 88.10 | 160 | 577 | ND | ND | | 800 | WG1733073 |
| TPH (GC/MS) Low Fraction | 8006-61-9 | 101 | 1000000 | 4130000 | 6650000 | 27500000 | | 5000 | WG1733817 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 118 | | | | WG1733073 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 103 | | | | WG1733817 |

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

Collected date/time: 08/30/21 11:30

L1397138

Volatile Organic Compounds (MS) by Method M18-Mod

| Analyte | CAS # | Mol. Wt. | RDL1 ppbv | RDL2 ug/m3 | Result ppbv | Result ug/m3 | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| Benzene | 71-43-2 | 78.10 | 160 | 511 | 40400 | 129000 | | 800 | WG1733073 |
| Toluene | 108-88-3 | 92.10 | 2500 | 9420 | 84000 | 316000 | | 5000 | WG1733817 |
| Ethylbenzene | 100-41-4 | 106 | 160 | 694 | 16400 | 71100 | | 800 | WG1733073 |
| m&p-Xylene | 1330-20-7 | 106 | 320 | 1390 | 67400 | 292000 | | 800 | WG1733073 |
| o-Xylene | 95-47-6 | 106 | 160 | 694 | 21300 | 92300 | | 800 | WG1733073 |
| Methyl tert-butyl ether | 1634-04-4 | 88.10 | 160 | 577 | ND | ND | | 800 | WG1733073 |
| TPH (GC/MS) Low Fraction | 8006-61-9 | 101 | 1000000 | 4130000 | 7080000 | 29200000 | | 5000 | WG1733817 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 114 | | | | WG1733073 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 101 | | | | WG1733817 |

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

Volatile Organic Compounds (MS) by Method M18-Mod

[L1397138-01.03](#)

Method Blank (MB)

(MB) R3699103-3 09/01/21 10:17

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|----------|
| | ppbv | | ppbv | ppbv |
| Benzene | U | | 0.0715 | 0.200 |
| Ethylbenzene | U | | 0.0835 | 0.200 |
| MTBE | U | | 0.0647 | 0.200 |
| Toluene | U | | 0.0870 | 0.500 |
| m&p-Xylene | U | | 0.135 | 0.400 |
| o-Xylene | U | | 0.0828 | 0.200 |
| (S) 1,4-Bromofluorobenzene | 93.9 | | | 60.0-140 |

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

(LCS) R3699103-1 09/01/21 08:55 • (LCSD) R3699103-2 09/01/21 09:36

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
| | ppbv | ppbv | ppbv | % | % | % | | | % | % |
| MTBE | 3.75 | 3.68 | 3.69 | 98.1 | 98.4 | 70.0-130 | | | 0.271 | 25 |
| Benzene | 3.75 | 3.74 | 3.72 | 99.7 | 99.2 | 70.0-130 | | | 0.536 | 25 |
| Toluene | 3.75 | 3.75 | 3.64 | 100 | 97.1 | 70.0-130 | | | 2.98 | 25 |
| Ethylbenzene | 3.75 | 3.63 | 3.68 | 96.8 | 98.1 | 70.0-130 | | | 1.37 | 25 |
| m&p-Xylene | 7.50 | 7.46 | 7.32 | 99.5 | 97.6 | 70.0-130 | | | 1.89 | 25 |
| o-Xylene | 3.75 | 3.71 | 3.64 | 98.9 | 97.1 | 70.0-130 | | | 1.90 | 25 |
| (S) 1,4-Bromofluorobenzene | | | | 99.7 | 98.8 | 60.0-140 | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method M18-Mod

[L1397138-01.03](#)

Method Blank (MB)

(MB) R3699995-3 09/02/21 10:17

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|----------|
| | ppbv | | ppbv | ppbv |
| Toluene | U | | 0.0870 | 0.500 |
| TPH (GC/MS) Low Fraction | U | | 39.7 | 200 |
| (S) 1,4-Bromofluorobenzene | 94.6 | | | 60.0-140 |

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

(LCS) R3699995-1 09/02/21 08:51 • (LCSD) R3699995-2 09/02/21 09:35

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
| | ppbv | ppbv | ppbv | % | % | % | | | % | % |
| Toluene | 3.75 | 4.35 | 4.32 | 116 | 115 | 70.0-130 | | | 0.692 | 25 |
| TPH (GC/MS) Low Fraction | 203 | 248 | 246 | 122 | 121 | 70.0-130 | | | 0.810 | 25 |
| (S) 1,4-Bromofluorobenzene | | | | 97.0 | 97.3 | 60.0-140 | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

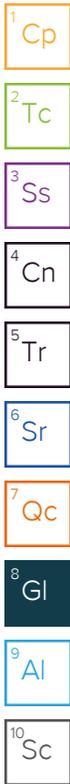
Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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



Qualifier Description

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:

Attn: Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Pres
Chk

Report to:
Becky Haskell

Email To:
becky.haskell@ghd.com; glenn.quinney@ghd.com

Project Description:
Darr Angell #1 SRS Darr Angell #1

City/State Collected:
Livingston, Wm

Please Circle:
PT MT CT ET

Phone: 432-250-7917

Client Project #
11209885/02021.1 (Darr 1)
11209891/2021.1 (Darr 2)

Lab Project #
PLAINSGHD-11209885

Collected by (print):
Heath Boyd, Ryan Livingston

Site/Facility ID #
SRS DARR ANGELL #1

P.O. #

Collected by (signature):

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

Quote #

Date Results Needed

Immediately Packed on Ice N ___ Y ___

No. of
Cntrs

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs |
|--------------------|-----------|----------|-------|---------|------|--------------|
| Darr 1: System off | Grab | Air | - | 8/30/21 | 1125 | 1 |
| Darr 1: System off | | Air | - | | 1127 | 1 |
| Darr 1: System on | | Air | - | | 1130 | 1 |
| Darr 1: System on | | Air | - | | 1132 | 1 |
| Darr 2: System off | | | - | | 1250 | 1 |
| Darr 2: System off | | | - | | 1252 | 1 |
| Darr 2: System on | | | - | | 1255 | 1 |
| Darr 2: System on | X | | - | X | 1257 | 1 |

M18-MOD Tedlar

Analysis / Container / Preservative

Chain of Custody



12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pac-standard-terms.pdf>

SDC # 1397138
C225

Acctnum: PLAINSGHD
Template: T163766
Prelogin: P824815
PM: 134 - Mark W. Beasley
PB: CB 1/28/21

Shipped Via: FedEX Ground

Remarks Sample # (lab only)

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

Remarks:
pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking # 9517 5755 7691

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

| | | | | |
|--|-------|-------|--|--|
| Relinquished by: (Signature) <i>[Signature]</i> | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL/MeOH TBR |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: <i>[Signature]</i> |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) <i>[Signature]</i> | Date: 8/31/21 Time: 13:30 |

If preservation required by Login: Date/Time
Hold: Condition: NCF OK

R3/R4/RX/EX

L1397138 *PLAINSGHD* Change Order

Please remove -02 and -04 from L1397138, the duplicate IDs are actually extra volume.
Please move the DARR 2 samples to separate SDG. Again, the duplicate IDs are extra volume.

Time estimate: 0h **Time spent:** 0h

Members

OS Olivia Studebaker



ANALYTICAL REPORT

November 26, 2021

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

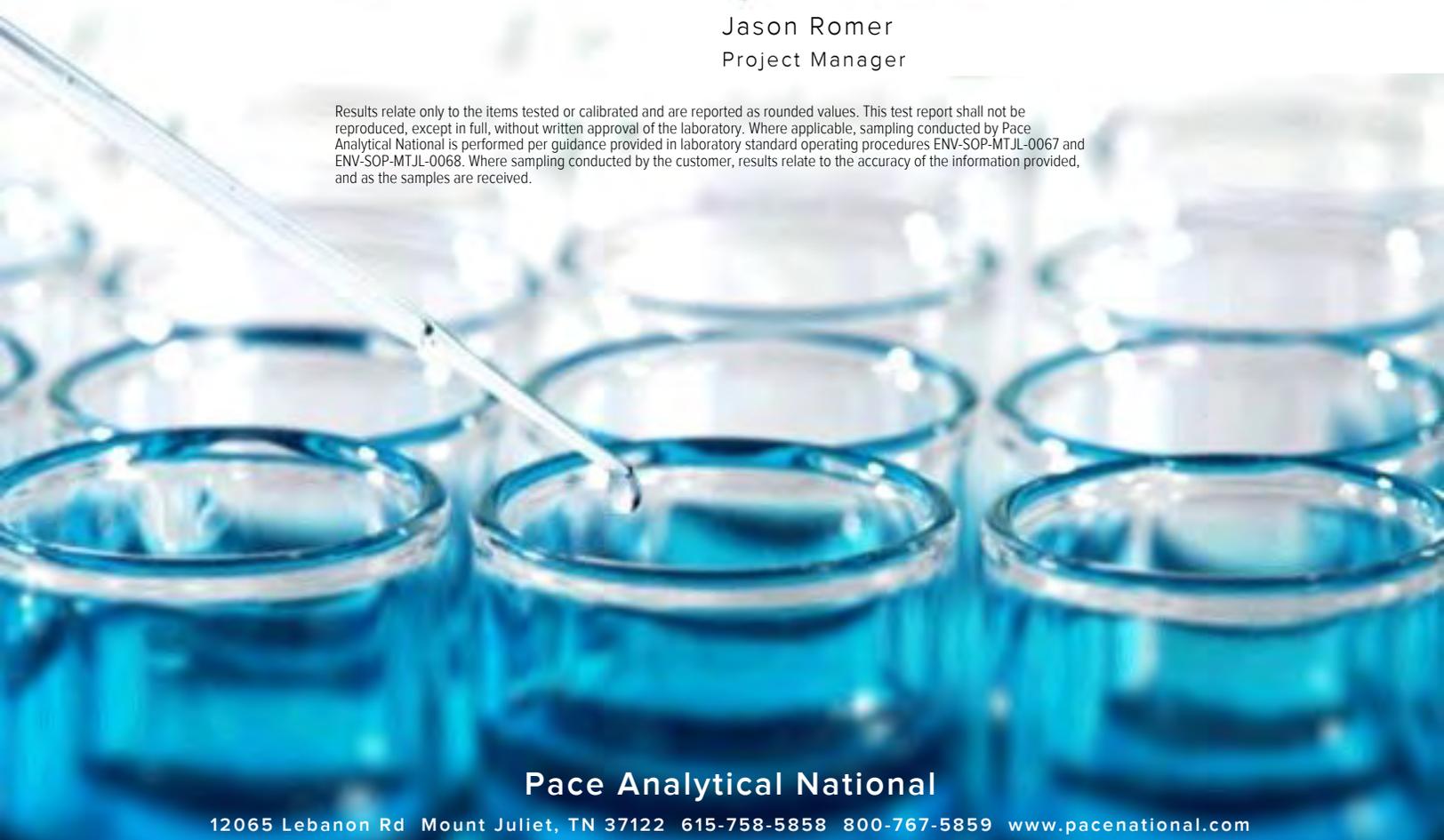
Plains All American, LP - GHD

Sample Delivery Group: L1431282
 Samples Received: 11/13/2021
 Project Number: 11209885/02
 Description: Darr Angell #1 SRS Darr Angell #1
 Site: SRS DARR ANGELL #1
 Report To: Becky Haskell
 2135 S Loop 250 W
 Midland, TX 79703

Entire Report Reviewed By:

Jason Romer
Project Manager

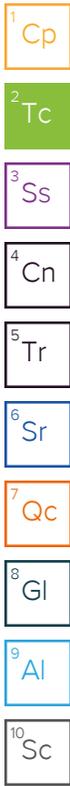
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory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



Pace Analytical National

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

| | |
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| MW16R L1431282-02 | 11 |
| MW17R L1431282-03 | 12 |
| MW18R L1431282-04 | 13 |
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| MW20R L1431282-06 | 15 |
| MW24 L1431282-07 | 16 |
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MW11R L1431282-01 GW

Collected by David Fletcher
 Collected date/time 11/11/21 10:00
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 09:35 | 11/19/21 09:35 | JAH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1775175 | 1 | 11/18/21 15:59 | 11/19/21 02:01 | AGW | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

MW16R L1431282-02 GW

Collected by David Fletcher
 Collected date/time 11/11/21 10:15
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 09:57 | 11/19/21 09:57 | JAH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1775175 | 1 | 11/18/21 15:59 | 11/19/21 02:21 | AGW | Mt. Juliet, TN |

4 Cn

5 Tr

6 Sr

MW17R L1431282-03 GW

Collected by David Fletcher
 Collected date/time 11/11/21 10:30
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 10:19 | 11/19/21 10:19 | JAH | Mt. Juliet, TN |

7 Qc

8 Gl

9 Al

MW18R L1431282-04 GW

Collected by David Fletcher
 Collected date/time 11/11/21 10:45
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 10:41 | 11/19/21 10:41 | JAH | Mt. Juliet, TN |

10 Sc

MW19R L1431282-05 GW

Collected by David Fletcher
 Collected date/time 11/11/21 11:00
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 11:03 | 11/19/21 11:03 | JAH | Mt. Juliet, TN |

MW20R L1431282-06 GW

Collected by David Fletcher
 Collected date/time 11/11/21 11:15
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 11:25 | 11/19/21 11:25 | JAH | Mt. Juliet, TN |

MW24 L1431282-07 GW

Collected by David Fletcher
 Collected date/time 11/11/21 11:30
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 11:47 | 11/19/21 11:47 | JAH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1775175 | 1 | 11/18/21 15:59 | 11/19/21 02:41 | AGW | Mt. Juliet, TN |

MW25 L1431282-08 GW

Collected by David Fletcher
 Collected date/time 11/11/21 11:45
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 12:09 | 11/19/21 12:09 | JAH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1775175 | 1 | 11/18/21 15:59 | 11/19/21 03:01 | AGW | Mt. Juliet, TN |

MW7 L1431282-09 GW

Collected by David Fletcher
 Collected date/time 11/11/21 12:00
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 12:31 | 11/19/21 12:31 | JAH | Mt. Juliet, TN |

1 Cp

2 Tc

MW21R L1431282-10 GW

Collected by David Fletcher
 Collected date/time 11/11/21 12:15
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 12:53 | 11/19/21 12:53 | JAH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1775175 | 1 | 11/18/21 15:59 | 11/19/21 03:21 | AGW | Mt. Juliet, TN |

3 Ss

4 Cn

5 Tr

MW22 L1431282-11 GW

Collected by David Fletcher
 Collected date/time 11/11/21 12:30
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 13:15 | 11/19/21 13:15 | JAH | Mt. Juliet, TN |

6 Sr

7 Qc

8 Gl

RW12 L1431282-12 GW

Collected by David Fletcher
 Collected date/time 11/11/21 12:45
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 13:37 | 11/19/21 13:37 | JAH | Mt. Juliet, TN |

9 Al

10 Sc

MW12R L1431282-13 GW

Collected by David Fletcher
 Collected date/time 11/11/21 13:15
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 13:59 | 11/19/21 13:59 | JAH | Mt. Juliet, TN |

MW6 L1431282-14 GW

Collected by David Fletcher
 Collected date/time 11/11/21 14:30
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 14:21 | 11/19/21 14:21 | JAH | Mt. Juliet, TN |

MW2 L1431282-15 GW

Collected by David Fletcher
 Collected date/time 11/11/21 15:00
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 14:43 | 11/19/21 14:43 | JAH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1775175 | 1 | 11/18/21 15:59 | 11/19/21 06:21 | AGW | Mt. Juliet, TN |

DUP L1431282-16 GW

Collected by David Fletcher
 Collected date/time 11/11/21 00:00
 Received date/time 11/13/21 17:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method 8021B | WG1777055 | 1 | 11/19/21 15:05 | 11/19/21 15:05 | JAH | 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.

Jason Romer
Project Manager

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

| <u>Lab Sample ID</u> | <u>Project Sample ID</u> | <u>Method</u> |
|-----------------------------|--------------------------|---------------|
| L1431282-14 | MW6 | 8021B |

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

Laboratory Data Package Cover Page

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

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

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



Jason Romer
Project Manager

Laboratory Review Checklist: Reportable Data

| Laboratory Name: Pace Analytical National | | LRC Date: 11/26/2021 15:44 | | | | | |
|---|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1431282-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 and 16 | | | | | |
| Reviewer Name: Jason Romer | | Prep Batch Number(s): WG1775175 and WG1777055 | | | | | |
| # ¹ | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| R1 | OI | Chain-of-custody (C-O-C) | | | | | |
| | | Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? | X | | | | |
| | | Were all departures from standard conditions described in an exception report? | | | X | | |
| R2 | OI | Sample and quality control (QC) identification | | | | | |
| | | Are all field sample ID numbers cross-referenced to the laboratory ID numbers? | X | | | | |
| | | Are all laboratory ID numbers cross-referenced to the corresponding QC data? | X | | | | |
| R3 | OI | Test reports | | | | | |
| | | Were all samples prepared and analyzed within holding times? | X | | | | |
| | | Other than those results < MQL, were all other raw values bracketed by calibration standards? | X | | | | |
| | | Were calculations checked by a peer or supervisor? | X | | | | |
| | | Were all analyte identifications checked by a peer or supervisor? | X | | | | |
| | | Were sample detection limits reported for all analytes not detected? | X | | | | |
| | | Were all results for soil and sediment samples reported on a dry weight basis? | X | | | | |
| | | Were % moisture (or solids) reported for all soil and sediment samples? | | | X | | |
| | | Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035? | | | X | | |
| | | If required for the project, are TICs reported? | | | X | | |
| R4 | O | Surrogate recovery data | | | | | |
| | | Were surrogates added prior to extraction? | X | | | | |
| | | Were surrogate percent recoveries in all samples within the laboratory QC limits? | | X | | | 1 |
| R5 | OI | Test reports/summary forms for blank samples | | | | | |
| | | Were appropriate type(s) of blanks analyzed? | X | | | | |
| | | Were blanks analyzed at the appropriate frequency? | X | | | | |
| | | Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? | X | | | | |
| | | Were blank concentrations < MQL? | | X | | | 2 |
| R6 | OI | Laboratory control samples (LCS): | | | | | |
| | | Were all COCs included in the LCS? | X | | | | |
| | | Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? | X | | | | |
| | | Were LCSs analyzed at the required frequency? | X | | | | |
| | | Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? | X | | | | |
| | | Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs? | X | | | | |
| | | Was the LCSD RPD within QC limits? | | X | | | 3 |
| R7 | OI | Matrix spike (MS) and matrix spike duplicate (MSD) data | | | | | |
| | | Were the project/method specified analytes included in the MS and MSD? | | | X | | |
| | | Were MS/MSD analyzed at the appropriate frequency? | | | X | | |
| | | Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? | | | X | | |
| | | Were MS/MSD RPDs within laboratory QC limits? | | | X | | |
| R8 | OI | Analytical duplicate data | | | | | |
| | | Were appropriate analytical duplicates analyzed for each matrix? | | | X | | |
| | | Were analytical duplicates analyzed at the appropriate frequency? | | | X | | |
| | | Were RPDs or relative standard deviations within the laboratory QC limits? | | | X | | |
| R9 | OI | Method quantitation limits (MQLs): | | | | | |
| | | Are the MQLs for each method analyte included in the laboratory data package? | X | | | | |
| | | Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? | X | | | | |
| | | Are unadjusted MQLs and DCSs included in the laboratory data package? | X | | | | |
| R10 | OI | Other problems/anomalies | | | | | |
| | | Are all known problems/anomalies/special conditions noted in this LRC and ER? | | X | | | 4 |
| | | Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results? | X | | | | |
| | | Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package? | X | | | | |

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

Laboratory Review Checklist: Supporting Data

| | |
|---|---|
| Laboratory Name: Pace Analytical National | LRC Date: 11/26/2021 15:44 |
| Project Name: Darr Angell #1 SRS Darr Angell #1 | Laboratory Job Number: L1431282-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 and 16 |
| Reviewer Name: Jason Romer | Prep Batch Number(s): WG1775175 and WG1777055 |

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

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

Laboratory Review Checklist: Exception Reports

| Laboratory Name: Pace Analytical National | LRC Date: 11/26/2021 15:44 |
|--|--|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | Laboratory Job Number: L1431282-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 and 16 |
| Reviewer Name: Jason Romer | Prep Batch Number(s): WG1775175 and WG1777055 |
| ER # ¹ | Description |
| 1 | 8270C-SIM WG1775175 Nitrobenzene-d5, p-Terphenyl-d14 L1431282-15 and 3: Percent Recovery is outside of established control limits. |
| 2 | 8021B WG1777055 Ethylbenzene, Total Xylene L1431282-12, 13 and 14: Concentration in the Blank >MQL. |
| 3 | 8270C-SIM WG1775175 Benzo(a)pyrene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene: Relative Percent Difference is outside of established control limits. |
| 4 | 8021B WG1777055 L1431282-14: pH outside of method requirement. |
| <p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p> | |

Collected date/time: 11/11/21 10:00

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|-----------------------------------|--------|-----------|----------|------------|----------|----------|------------------|--------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 09:35 | WG177055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 09:35 | WG177055 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 09:35 | WG177055 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 09:35 | WG177055 |
| (S) a, a, a-Trifluorotoluene(PID) | 99.1 | | | | 79.0-125 | | 11/19/2021 09:35 | WG177055 |

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

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Anthracene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| Acenaphthene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| Acenaphthylene | U | | 0.000171 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| Benzo(a)anthracene | U | | 0.000203 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| Benzo(a)pyrene | U | J3 | 0.000184 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| Benzo(b)fluoranthene | U | | 0.000168 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| Benzo(g,h,i)perylene | U | J3 | 0.000184 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| Benzo(k)fluoranthene | U | J3 | 0.000202 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| Chrysene | U | | 0.000179 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| Dibenz(a,h)anthracene | U | J3 | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| Dibenzofuran | U | | 0.000191 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| Fluoranthene | U | | 0.000270 | 0.000100 | 0.000100 | 1 | 11/19/2021 02:01 | WG1775175 |
| Fluorene | U | | 0.000169 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| Indeno(1,2,3-cd)pyrene | U | J3 | 0.000158 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| Naphthalene | U | | 0.000917 | 0.000250 | 0.000250 | 1 | 11/19/2021 02:01 | WG1775175 |
| Phenanthrene | U | | 0.000180 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| Pyrene | U | | 0.000169 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:01 | WG1775175 |
| 1-Methylnaphthalene | U | | 0.000687 | 0.000250 | 0.000250 | 1 | 11/19/2021 02:01 | WG1775175 |
| 2-Methylnaphthalene | U | | 0.000674 | 0.000250 | 0.000250 | 1 | 11/19/2021 02:01 | WG1775175 |
| (S) Nitrobenzene-d5 | 110 | | | | 31.0-160 | | 11/19/2021 02:01 | WG1775175 |
| (S) 2-Fluorobiphenyl | 109 | | | | 48.0-148 | | 11/19/2021 02:01 | WG1775175 |
| (S) p-Terphenyl-d14 | 124 | | | | 37.0-146 | | 11/19/2021 02:01 | WG1775175 |

Collected date/time: 11/11/21 10:15

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|-----------------------------------|--------|-----------|----------|------------|----------|----------|------------------|-----------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 09:57 | WG1777055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 09:57 | WG1777055 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 09:57 | WG1777055 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 09:57 | WG1777055 |
| (S) a, a, a-Trifluorotoluene(PID) | 99.6 | | | | 79.0-125 | | 11/19/2021 09:57 | WG1777055 |

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

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|------------------------|--------|-----------|----------|------------|----------|----------|------------------|-----------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Anthracene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| Acenaphthene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| Acenaphthylene | U | | 0.000171 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| Benzo(a)anthracene | U | | 0.000203 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| Benzo(a)pyrene | U | J3 | 0.000184 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| Benzo(b)fluoranthene | U | | 0.000168 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| Benzo(g,h,i)perylene | U | J3 | 0.000184 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| Benzo(k)fluoranthene | U | J3 | 0.000202 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| Chrysene | U | | 0.000179 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| Dibenz(a,h)anthracene | U | J3 | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| Dibenzofuran | U | | 0.000191 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| Fluoranthene | U | | 0.000270 | 0.000100 | 0.000100 | 1 | 11/19/2021 02:21 | WG1775175 |
| Fluorene | U | | 0.000169 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| Indeno(1,2,3-cd)pyrene | U | J3 | 0.000158 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| Naphthalene | U | | 0.000917 | 0.000250 | 0.000250 | 1 | 11/19/2021 02:21 | WG1775175 |
| Phenanthrene | U | | 0.000180 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| Pyrene | U | | 0.000169 | 0.000500 | 0.000500 | 1 | 11/19/2021 02:21 | WG1775175 |
| 1-Methylnaphthalene | U | | 0.000687 | 0.000250 | 0.000250 | 1 | 11/19/2021 02:21 | WG1775175 |
| 2-Methylnaphthalene | U | | 0.000674 | 0.000250 | 0.000250 | 1 | 11/19/2021 02:21 | WG1775175 |
| (S) Nitrobenzene-d5 | 110 | | | | 31.0-160 | | 11/19/2021 02:21 | WG1775175 |
| (S) 2-Fluorobiphenyl | 113 | | | | 48.0-148 | | 11/19/2021 02:21 | WG1775175 |
| (S) p-Terphenyl-d14 | 134 | | | | 37.0-146 | | 11/19/2021 02:21 | WG1775175 |

Collected date/time: 11/11/21 10:30

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|--------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 10:19 | WG177055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 10:19 | WG177055 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 10:19 | WG177055 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 10:19 | WG177055 |
| (S) a,a,a-Trifluorotoluene(PID) | 99.3 | | | | 79.0-125 | | 11/19/2021 10:19 | WG177055 |

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

Collected date/time: 11/11/21 10:45

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 10:41 | WG1777055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 10:41 | WG1777055 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 10:41 | WG1777055 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 10:41 | WG1777055 |
| (S) a,a,a-Trifluorotoluene(PID) | 100 | | | | 79.0-125 | | 11/19/2021 10:41 | WG1777055 |

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

Collected date/time: 11/11/21 11:00

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 11:03 | WG1777055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 11:03 | WG1777055 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 11:03 | WG1777055 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 11:03 | WG1777055 |
| (S) a,a,a-Trifluorotoluene(PID) | 99.3 | | | | 79.0-125 | | 11/19/2021 11:03 | WG1777055 |

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

Collected date/time: 11/11/21 11:15

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 11:25 | WG1777055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 11:25 | WG1777055 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 11:25 | WG1777055 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 11:25 | WG1777055 |
| (S) a,a,a-Trifluorotoluene(PID) | 99.6 | | | | 79.0-125 | | 11/19/2021 11:25 | WG1777055 |

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

Collected date/time: 11/11/21 11:30

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|-----------------------------------|--------|-----------|----------|------------|----------|----------|------------------|-----------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 11:47 | WG1777055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 11:47 | WG1777055 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 11:47 | WG1777055 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 11:47 | WG1777055 |
| (S) a, a, a-Trifluorotoluene(PID) | 100 | | | | 79.0-125 | | 11/19/2021 11:47 | WG1777055 |

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|------------------------|--------|-----------|-----------|------------|-----------|----------|------------------|-----------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Anthracene | U | | 0.0000190 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| Acenaphthene | U | | 0.0000190 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| Acenaphthylene | U | | 0.0000171 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| Benzo(a)anthracene | U | | 0.0000203 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| Benzo(a)pyrene | U | J3 | 0.0000184 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| Benzo(b)fluoranthene | U | | 0.0000168 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| Benzo(g,h,i)perylene | U | J3 | 0.0000184 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| Benzo(k)fluoranthene | U | J3 | 0.0000202 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| Chrysene | U | | 0.0000179 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| Dibenz(a,h)anthracene | U | J3 | 0.0000160 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| Dibenzofuran | U | | 0.0000191 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| Fluoranthene | U | | 0.0000270 | 0.000100 | 0.000100 | 1 | 11/19/2021 02:41 | WG1775175 |
| Fluorene | U | | 0.0000169 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| Indeno(1,2,3-cd)pyrene | U | J3 | 0.0000158 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| Naphthalene | U | | 0.0000917 | 0.000250 | 0.000250 | 1 | 11/19/2021 02:41 | WG1775175 |
| Phenanthrene | U | | 0.0000180 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| Pyrene | U | | 0.0000169 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 02:41 | WG1775175 |
| 1-Methylnaphthalene | U | | 0.0000687 | 0.000250 | 0.000250 | 1 | 11/19/2021 02:41 | WG1775175 |
| 2-Methylnaphthalene | U | | 0.0000674 | 0.000250 | 0.000250 | 1 | 11/19/2021 02:41 | WG1775175 |
| (S) Nitrobenzene-d5 | 103 | | | | 31.0-160 | | 11/19/2021 02:41 | WG1775175 |
| (S) 2-Fluorobiphenyl | 110 | | | | 48.0-148 | | 11/19/2021 02:41 | WG1775175 |
| (S) p-Terphenyl-d14 | 128 | | | | 37.0-146 | | 11/19/2021 02:41 | WG1775175 |

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

Collected date/time: 11/11/21 11:45

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|-----------------------------------|--------|-----------|----------|------------|----------|----------|------------------|-----------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 12:09 | WG1777055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 12:09 | WG1777055 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 12:09 | WG1777055 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 12:09 | WG1777055 |
| (S) a, a, a-Trifluorotoluene(PID) | 99.3 | | | | 79.0-125 | | 11/19/2021 12:09 | WG1777055 |

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

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|------------------------|--------|-----------|----------|------------|----------|----------|------------------|-----------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Anthracene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| Acenaphthene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| Acenaphthylene | U | | 0.000171 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| Benzo(a)anthracene | U | | 0.000203 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| Benzo(a)pyrene | U | J3 | 0.000184 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| Benzo(b)fluoranthene | U | | 0.000168 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| Benzo(g,h,i)perylene | U | J3 | 0.000184 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| Benzo(k)fluoranthene | U | J3 | 0.000202 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| Chrysene | U | | 0.000179 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| Dibenz(a,h)anthracene | U | J3 | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| Dibenzofuran | U | | 0.000191 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| Fluoranthene | U | | 0.000270 | 0.000100 | 0.000100 | 1 | 11/19/2021 03:01 | WG1775175 |
| Fluorene | U | | 0.000169 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| Indeno(1,2,3-cd)pyrene | U | J3 | 0.000158 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| Naphthalene | U | | 0.000917 | 0.000250 | 0.000250 | 1 | 11/19/2021 03:01 | WG1775175 |
| Phenanthrene | U | | 0.000180 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| Pyrene | U | | 0.000169 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:01 | WG1775175 |
| 1-Methylnaphthalene | U | | 0.000687 | 0.000250 | 0.000250 | 1 | 11/19/2021 03:01 | WG1775175 |
| 2-Methylnaphthalene | U | | 0.000674 | 0.000250 | 0.000250 | 1 | 11/19/2021 03:01 | WG1775175 |
| (S) Nitrobenzene-d5 | 108 | | | | 31.0-160 | | 11/19/2021 03:01 | WG1775175 |
| (S) 2-Fluorobiphenyl | 117 | | | | 48.0-148 | | 11/19/2021 03:01 | WG1775175 |
| (S) p-Terphenyl-d14 | 137 | | | | 37.0-146 | | 11/19/2021 03:01 | WG1775175 |

Collected date/time: 11/11/21 12:00

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-----------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | 0.000667 | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 12:31 | WG1777055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 12:31 | WG1777055 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 12:31 | WG1777055 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 12:31 | WG1777055 |
| (S) a,a,a-Trifluorotoluene(PID) | 98.2 | | | | 79.0-125 | | 11/19/2021 12:31 | WG1777055 |

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

Collected date/time: 11/11/21 12:15

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|-----------------------------------|--------|-----------|----------|------------|----------|----------|------------------|-----------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 12:53 | WG1777055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 12:53 | WG1777055 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 12:53 | WG1777055 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 12:53 | WG1777055 |
| (S) a, a, a-Trifluorotoluene(PID) | 99.0 | | | | 79.0-125 | | 11/19/2021 12:53 | WG1777055 |

1 Cp

2 Tc

3 Ss

4 Cn

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|------------------------|--------|-----------|----------|------------|----------|----------|------------------|-----------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Anthracene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| Acenaphthene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| Acenaphthylene | U | | 0.000171 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| Benzo(a)anthracene | U | | 0.000203 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| Benzo(a)pyrene | U | J3 | 0.000184 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| Benzo(b)fluoranthene | U | | 0.000168 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| Benzo(g,h,i)perylene | U | J3 | 0.000184 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| Benzo(k)fluoranthene | U | J3 | 0.000202 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| Chrysene | U | | 0.000179 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| Dibenz(a,h)anthracene | U | J3 | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| Dibenzofuran | U | | 0.000191 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| Fluoranthene | U | | 0.000270 | 0.000100 | 0.000100 | 1 | 11/19/2021 03:21 | WG1775175 |
| Fluorene | U | | 0.000169 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| Indeno(1,2,3-cd)pyrene | U | J3 | 0.000158 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| Naphthalene | U | | 0.000917 | 0.000250 | 0.000250 | 1 | 11/19/2021 03:21 | WG1775175 |
| Phenanthrene | U | | 0.000180 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| Pyrene | U | | 0.000169 | 0.000500 | 0.000500 | 1 | 11/19/2021 03:21 | WG1775175 |
| 1-Methylnaphthalene | U | | 0.000687 | 0.000250 | 0.000250 | 1 | 11/19/2021 03:21 | WG1775175 |
| 2-Methylnaphthalene | U | | 0.000674 | 0.000250 | 0.000250 | 1 | 11/19/2021 03:21 | WG1775175 |
| (S) Nitrobenzene-d5 | 91.0 | | | | 31.0-160 | | 11/19/2021 03:21 | WG1775175 |
| (S) 2-Fluorobiphenyl | 112 | | | | 48.0-148 | | 11/19/2021 03:21 | WG1775175 |
| (S) p-Terphenyl-d14 | 130 | | | | 37.0-146 | | 11/19/2021 03:21 | WG1775175 |

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 11/11/21 12:30

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|----------|------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 13:15 | WG1777055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 13:15 | WG1777055 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 13:15 | WG1777055 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 13:15 | WG1777055 |
| (S) a,a,a-Trifluorotoluene(PID) | 99.8 | | | | 79.0-125 | | 11/19/2021 13:15 | WG1777055 |

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

Collected date/time: 11/11/21 12:45

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|---------------------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 13:37 | WG1777055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 13:37 | WG1777055 |
| Ethylbenzene | 0.000219 | B J | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 13:37 | WG1777055 |
| Total Xylene | 0.0129 | | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 13:37 | WG1777055 |
| (S) a,a,a-Trifluorotoluene(PID) | 100 | | | | 79.0-125 | | 11/19/2021 13:37 | WG1777055 |

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

Collected date/time: 11/11/21 13:15

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|---------------------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | 0.00135 | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 13:59 | WG1777055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 13:59 | WG1777055 |
| Ethylbenzene | 0.000300 | B J | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 13:59 | WG1777055 |
| Total Xylene | U | | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 13:59 | WG1777055 |
| (S) a,a,a-Trifluorotoluene(PID) | 99.1 | | | | 79.0-125 | | 11/19/2021 13:59 | WG1777055 |

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

Collected date/time: 11/11/21 14:30

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|------------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | 0.000858 | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 14:21 | WG1777055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 14:21 | WG1777055 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 14:21 | WG1777055 |
| Total Xylene | 0.000559 | <u>B J</u> | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 14:21 | WG1777055 |
| (S) a,a,a-Trifluorotoluene(PID) | 100 | | | | 79.0-125 | | 11/19/2021 14:21 | WG1777055 |

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

Collected date/time: 11/11/21 15:00

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|---------------------------------|---------|-----------|----------|------------|----------|----------|------------------|-----------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 14:43 | WG1777055 |
| Toluene | U | | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 14:43 | WG1777055 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 14:43 | WG1777055 |
| Total Xylene | 0.00180 | <u>B</u> | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 14:43 | WG1777055 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 11/19/2021 14:43 | WG1777055 |

1 Cp

2 Tc

3 Ss

4 Cn

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result | Qualifier | SDL | Unadj. MQL | MQL | Dilution | Analysis | Batch |
|------------------------|-----------|-----------|-----------|------------|-----------|----------|------------------|-----------|
| | mg/l | | mg/l | mg/l | mg/l | | date / time | |
| Anthracene | U | | 0.0000190 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| Acenaphthene | 0.00348 | | 0.0000190 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| Acenaphthylene | U | | 0.0000171 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| Benzo(a)anthracene | U | | 0.0000203 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| Benzo(a)pyrene | U | <u>J3</u> | 0.0000184 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| Benzo(b)fluoranthene | 0.000378 | | 0.0000168 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| Benzo(g,h,i)perylene | 0.000345 | <u>J3</u> | 0.0000184 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| Benzo(k)fluoranthene | 0.0000983 | <u>J3</u> | 0.0000202 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| Chrysene | 0.00139 | | 0.0000179 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| Dibenz(a,h)anthracene | U | <u>J3</u> | 0.0000160 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| Dibenzofuran | 0.00790 | | 0.0000191 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| Fluoranthene | 0.00142 | | 0.0000270 | 0.000100 | 0.000100 | 1 | 11/19/2021 06:21 | WG1775175 |
| Fluorene | 0.0128 | | 0.0000169 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| Indeno(1,2,3-cd)pyrene | U | <u>J3</u> | 0.0000158 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| Naphthalene | 0.0114 | | 0.0000917 | 0.000250 | 0.000250 | 1 | 11/19/2021 06:21 | WG1775175 |
| Phenanthrene | 0.0190 | | 0.0000180 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| Pyrene | U | | 0.0000169 | 0.0000500 | 0.0000500 | 1 | 11/19/2021 06:21 | WG1775175 |
| 1-Methylnaphthalene | 0.0607 | | 0.0000687 | 0.000250 | 0.000250 | 1 | 11/19/2021 06:21 | WG1775175 |
| 2-Methylnaphthalene | 0.0511 | | 0.0000674 | 0.000250 | 0.000250 | 1 | 11/19/2021 06:21 | WG1775175 |
| (S) Nitrobenzene-d5 | 0.000 | <u>J2</u> | | | 31.0-160 | | 11/19/2021 06:21 | WG1775175 |
| (S) 2-Fluorobiphenyl | 113 | | | | 48.0-148 | | 11/19/2021 06:21 | WG1775175 |
| (S) p-Terphenyl-d14 | 116 | | | | 37.0-146 | | 11/19/2021 06:21 | WG1775175 |

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Sample Narrative:

L1431282-15 WG1775175: Surrogate failure due to matrix interference

Collected date/time: 11/11/21 00:00

L1431282

Volatile Organic Compounds (GC) by Method 8021B

| Analyte | Result mg/l | Qualifier | SDL mg/l | Unadj. MQL mg/l | MQL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------------|----------------|-------------------|-------------|--------------------|-------------|----------|-------------------------|---------------------------|
| Benzene | 0.190 | | 0.000190 | 0.000500 | 0.000500 | 1 | 11/19/2021 15:05 | WG1777055 |
| Toluene | 0.000646 | <u>B</u> <u>J</u> | 0.000412 | 0.00100 | 0.00100 | 1 | 11/19/2021 15:05 | WG1777055 |
| Ethylbenzene | 0.00429 | | 0.000160 | 0.000500 | 0.000500 | 1 | 11/19/2021 15:05 | WG1777055 |
| Total Xylene | 0.00673 | <u>B</u> | 0.000510 | 0.00150 | 0.00150 | 1 | 11/19/2021 15:05 | WG1777055 |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | | 79.0-125 | | 11/19/2021 15:05 | WG1777055 |

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

Volatile Organic Compounds (GC) by Method 8021B

[L1431282-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16](#)

Method Blank (MB)

(MB) R3733494-3 11/19/21 06:39

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Benzene | U | | 0.000190 | 0.000500 |
| Toluene | 0.000440 | U | 0.000412 | 0.00100 |
| Ethylbenzene | 0.000165 | U | 0.000160 | 0.000500 |
| Total Xylene | 0.00104 | U | 0.000510 | 0.00150 |
| (S) a,a,a-Trifluorotoluene(PID) | 100 | | | 79.0-125 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

Laboratory Control Sample (LCS)

(LCS) R3733494-1 11/19/21 05:19

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Benzene | 0.0500 | 0.0541 | 108 | 77.0-122 | |
| Toluene | 0.0500 | 0.0516 | 103 | 80.0-121 | |
| Ethylbenzene | 0.0500 | 0.0561 | 112 | 80.0-123 | |
| Total Xylene | 0.150 | 0.164 | 109 | 47.0-154 | |
| (S) a,a,a-Trifluorotoluene(PID) | | | 100 | 79.0-125 | |

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

[L1431282-01,02,07,08,10,15](#)

Method Blank (MB)

(MB) R3731776-3 11/18/21 23:41

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------------------|-----------|--------------|-----------|-----------|
| | mg/l | | mg/l | mg/l |
| Anthracene | U | | 0.0000190 | 0.0000500 |
| Acenaphthene | U | | 0.0000190 | 0.0000500 |
| Acenaphthylene | U | | 0.0000171 | 0.0000500 |
| Benzo(a)anthracene | U | | 0.0000203 | 0.0000500 |
| Benzo(a)pyrene | U | | 0.0000184 | 0.0000500 |
| Benzo(b)fluoranthene | U | | 0.0000168 | 0.0000500 |
| Benzo(g,h,i)perylene | U | | 0.0000184 | 0.0000500 |
| Benzo(k)fluoranthene | U | | 0.0000202 | 0.0000500 |
| Chrysene | U | | 0.0000179 | 0.0000500 |
| Dibenz(a,h)anthracene | U | | 0.0000160 | 0.0000500 |
| Fluoranthene | U | | 0.0000270 | 0.000100 |
| Fluorene | U | | 0.0000169 | 0.0000500 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0000158 | 0.0000500 |
| Naphthalene | U | | 0.0000917 | 0.000250 |
| Phenanthrene | U | | 0.0000180 | 0.0000500 |
| Pyrene | U | | 0.0000169 | 0.0000500 |
| 1-Methylnaphthalene | U | | 0.0000687 | 0.000250 |
| 2-Methylnaphthalene | U | | 0.0000674 | 0.000250 |
| Dibenzofuran | U | | 0.0000191 | 0.0000500 |
| (S) Nitrobenzene-d5 | 112 | | | 31.0-160 |
| (S) 2-Fluorobiphenyl | 124 | | | 48.0-148 |
| (S) p-Terphenyl-d14 | 152 | <u>J1</u> | | 37.0-146 |

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

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

(LCS) R3731776-1 11/18/21 23:01 • (LCSD) R3731776-2 11/18/21 23:21

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|-----------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
| | mg/l | mg/l | mg/l | % | % | % | | | % | % |
| Dibenzofuran | 0.00200 | 0.00237 | 0.00239 | 118 | 119 | 67.0-134 | | | 0.840 | 20 |
| Anthracene | 0.00200 | 0.00218 | 0.00217 | 109 | 108 | 67.0-150 | | | 0.460 | 20 |
| Acenaphthene | 0.00200 | 0.00225 | 0.00227 | 112 | 114 | 65.0-138 | | | 0.885 | 20 |
| Acenaphthylene | 0.00200 | 0.00226 | 0.00221 | 113 | 111 | 66.0-140 | | | 2.24 | 20 |
| Benzo(a)anthracene | 0.00200 | 0.00181 | 0.00202 | 90.5 | 101 | 61.0-140 | | | 11.0 | 20 |
| Benzo(a)pyrene | 0.00200 | 0.00161 | 0.00197 | 80.5 | 98.5 | 60.0-143 | | <u>J3</u> | 20.1 | 20 |
| Benzo(b)fluoranthene | 0.00200 | 0.00188 | 0.00226 | 94.0 | 113 | 58.0-141 | | | 18.4 | 20 |
| Benzo(g,h,i)perylene | 0.00200 | 0.00165 | 0.00211 | 82.5 | 105 | 52.0-153 | | <u>J3</u> | 24.5 | 20 |
| Benzo(k)fluoranthene | 0.00200 | 0.00169 | 0.00214 | 84.5 | 107 | 58.0-148 | | <u>J3</u> | 23.5 | 20 |
| Chrysene | 0.00200 | 0.00179 | 0.00213 | 89.5 | 106 | 64.0-144 | | | 17.3 | 20 |
| Dibenz(a,h)anthracene | 0.00200 | 0.00165 | 0.00208 | 82.5 | 104 | 52.0-155 | | <u>J3</u> | 23.1 | 20 |

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

[L1431282-01,02,07,08,10,15](#)

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

(LCS) R3731776-1 11/18/21 23:01 • (LCSD) R3731776-2 11/18/21 23:21

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Fluoranthene | 0.00200 | 0.00222 | 0.00230 | 111 | 115 | 69.0-153 | | | 3.54 | 20 |
| Fluorene | 0.00200 | 0.00235 | 0.00235 | 117 | 117 | 64.0-136 | | | 0.000 | 20 |
| Indeno(1,2,3-cd)pyrene | 0.00200 | 0.00168 | 0.00209 | 84.0 | 105 | 54.0-153 | | J3 | 21.8 | 20 |
| Naphthalene | 0.00200 | 0.00225 | 0.00224 | 112 | 112 | 61.0-137 | | | 0.445 | 20 |
| Phenanthrene | 0.00200 | 0.00226 | 0.00227 | 113 | 114 | 62.0-137 | | | 0.442 | 20 |
| Pyrene | 0.00200 | 0.00213 | 0.00222 | 106 | 111 | 60.0-142 | | | 4.14 | 20 |
| 1-Methylnaphthalene | 0.00200 | 0.00229 | 0.00230 | 114 | 115 | 66.0-142 | | | 0.436 | 20 |
| 2-Methylnaphthalene | 0.00200 | 0.00221 | 0.00218 | 111 | 109 | 62.0-136 | | | 1.37 | 20 |
| (S) Nitrobenzene-d5 | | | | 112 | 104 | 31.0-160 | | | | |
| (S) 2-Fluorobiphenyl | | | | 114 | 113 | 48.0-148 | | | | |
| (S) p-Terphenyl-d14 | | | | 101 | 119 | 37.0-146 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 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. |
| MQL | Method Quantitation Limit. |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| SDL | Sample Detection Limit. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Sample Detection Limit. |
| Unadj. MQL | Unadjusted Method Quantitation Limit. |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

Qualifier Description

| | |
|----|--|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J1 | Surrogate recovery limits have been exceeded; values are outside upper control limits. |
| J2 | Surrogate recovery limits have been exceeded; values are outside lower control limits. |
| J3 | The associated batch QC was outside the established quality control range for precision. |

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Company Name/Address:
Plains All American, LP - GHD
 2135 S Loop 250 W
 Midland, TX 79703

Billing Information:
 Attn: Camille Bryant
 10 Desta Dr., Ste. 550E
 Midland, TX 79705

Report to:
Becky Haskell

Email To:
 becky.haskell@ghd.com; glenn.quinney@ghd.com

Project Description:
Darr Angell #1 SRS Darr Angell #1

City/State Collected:

Please Circle:
 PT MT CT ET

Phone: **432-250-7917**

Client Project #
11209885/02

Lab Project #
PLAINSGHD-11209885

Collected by (print):
David Fletcher

Site/Facility ID #
SRS DARR ANGELL #1

P.O. #

Collected by (signature):
David Fletcher

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

Quote #

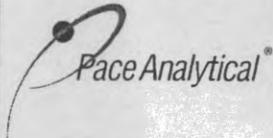
Date Results Needed

Immediately Packed on Ice N ___ Y

No. of Cntrs

| Analysis / Container / Preservative | |
|-------------------------------------|------------|
| BTEX 40ml/Amb-HCl | EXT to C35 |
| PAHSIMLV1 40ml/Amb-NoPres-WT | |

Chain of Custody Page 1 of 2



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

SDG # **1431282**

K096

Acctnum: **PLAINSGHD**

Template: **T198204**

Prelogin: **P883771**

PM: **823 - Olivia Studebaker**

PB:

Shipped Via:

Remarks | Sample # (lab only)

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | | | | | Remarks | Sample # (lab only) |
|-----------|-----------|----------|-------|----------|------|--------------|---|---|--|--|---------|---------------------|
| mw11R | 62MB | GW | NA | 11-11-21 | 1000 | 6 | X | X | | | | -01 |
| mw16R | | GW | | | 1015 | 6 | X | X | | | | -02 |
| mw17R | | GW | | | 1030 | 3 | X | | | | | -03 |
| mw18R | | GW | | | 1045 | 1 | X | | | | | -04 |
| mw19R | | GW | | | 1100 | 1 | X | | | | | -05 |
| mw20R | | GW | | | 1115 | 1 | X | | | | | -06 |
| mw24 | | GW | | | 1130 | 6 | X | X | | | | -07 |
| mw25 | | GW | | | 1145 | 6 | X | X | | | | -08 |
| mw7 | | GW | | | 1200 | 2 | X | | | | | -09 |
| mw21R | | GW | | | 1215 | 6 | X | X | | | | -10 |

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

Remarks:

Samples returned via:
 ___ UPS ___ FedEx ___ Courier _____

Tracking #

pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: Y N

COC Signed/Accurate: Y N

Bottles arrive intact: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

If Applicable

VOA Zero Headspace: Y N

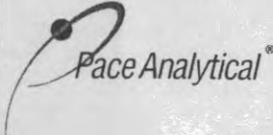
Preservation Correct/Checked: Y N

RAD Screen <0.5 mR/hr: Y N

| | | | | |
|---|----------------|------------|--|--|
| Relinquished by: (Signature) <i>David Fletcher</i> | Date: 11-12-21 | Time: 0700 | Received by: (Signature) <i>[Signature]</i> | Trip Blank Received: Yes/No HCL/MeOH TBR 1.4/0.219 |
| Relinquished by: (Signature) <i>[Signature]</i> | Date: 11-12-21 | Time: 1600 | Received by: (Signature) <i>[Signature]</i> | Temp: °C FASR 606 |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) <i>[Signature]</i> | Date: 11/13/21 Time: 1715 |

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

| | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|--|---|--|---|-------|------------------------|--|--|--|--|--|--|--|--|-----------------------------|---------|---------------------|
| Company Name/Address: Plains All American, LP - GHD 2135 S Loop 250 W Midland, TX 79703 | | | Billing Information: Attn: Camille Bryant 10 Desta Dr., Ste. 550E Midland, TX 79705 | | | Pres Chk | Analysis / Container / Preservative | | | | | | | | | | Chain of Custody Page 2 of 2 | | | |
| Report to: Becky Haskell | | | Email To: becky.haskell@ghd.com; glenn.quinney@ghd.com | | | BTEX 40mlAmb-HCl EXT to C35 PAHSIMLVI 40mlAmb-NoPres-WT | | | | | | | | | | |  12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf | | | |
| Project Description: Darr Angell #1 SRS Darr Angell #1 | | City/State Collected: | | Please Circle: PT MT CT ET | | | | | | | | | | | | | | | | |
| Phone: 432-250-7917 | | Client Project # 11209885/02 | | Lab Project # PLAINSGHD-11209885 | | | | | | | | | | | | | | | | |
| Collected by (print): <i>David Fletcher</i> | | Site/Facility ID # SRS DARR ANGELL #1 | | P.O. # | | | | | | | | | | | | | | | | |
| Collected by (signature): <i>David Fletcher</i> | | Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day | | Quote # | | No. of Cntrs | | | | | | | | | | | SDG # 1431282 | | | |
| Immediately Packed on Ice N ___ Y ___ | | Date Results Needed | | | | | | | | | | | | | | | Table # | | | |
| Sample ID | | Comp/Grab | Matrix * | Depth | Date | Time | | | | | | | | | | | | Acctnum: PLAINSGHD | | |
| | | | | | | | | | | | | | | | | | | Template: T198204 | | |
| mw22 | | 6/4/3 | GW | NA | 11-11-21 | 1230 | 3 | | | | | | | | | | | Prelogin: P883771 | | |
| Rw12 | | ↓ | GW | ↓ | ↓ | 1245 | 3 | | | | | | | | | | | PM: 823 - Olivia Studebaker | | |
| mw12R | | ↓ | GW | ↓ | ↓ | 1315 | 3 | | | | | | | | | | | PB: | | |
| mw6 | | ↓ | GW | ↓ | ↓ | 1430 | 3 | | | | | | | | | | | Shipped Via: | | |
| mw2 | | ↓ | GW | ↓ | ↓ | 1500 | 3 | | | | | | | | | | | X | Remarks | Sample # (lab only) |
| DUP | | ↓ | GW | ↓ | ↓ | | 3 | | | | | | | | | | | | | |
| | | | GW | | | | | | | | | | | | | | | | | |
| | | | GW | | | | | | | | | | | | | | | | | |
| | | | GW | | | | | | | | | | | | | | | | | |
| | | | GW | | | | | | | | | | | | | | | | | |
| | | | GW | | | | | | | | | | | | | | | | | |
| | | | GW | | | | | | | | | | | | | | | | | |
| * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other | | Remarks: | | | pH _____ Temp _____ Flow _____ Other _____ | | Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> NP <input type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | | | | | | | | | | | | |
| Relinquished by: (Signature) <i>David Fletcher</i> | | Date: 11-12-21 | Time: 700 | Received by: (Signature) <i>[Signature]</i> | | Trip Blank Received: Yes / No HCL / MeOH TBR | | | | | | | | | | | | | | |
| Relinquished by: (Signature) <i>[Signature]</i> | | Date: 11-2-21 | Time: 16:00 | Received by: (Signature) <i>[Signature]</i> | | Temp: <i>16.1</i> °C Bottles Received: <i>66</i> | If preservation required by Login: Date/Time | | | | | | | | | | | | | |
| Relinquished by: (Signature) | | Date: | Time: | Received for lab by: (Signature) | | Date: 11/13/21 | Time: 17:15 | Hold: | Condition: NCF / OK | | | | | | | | | | | |



ANALYTICAL REPORT

December 13, 2021

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

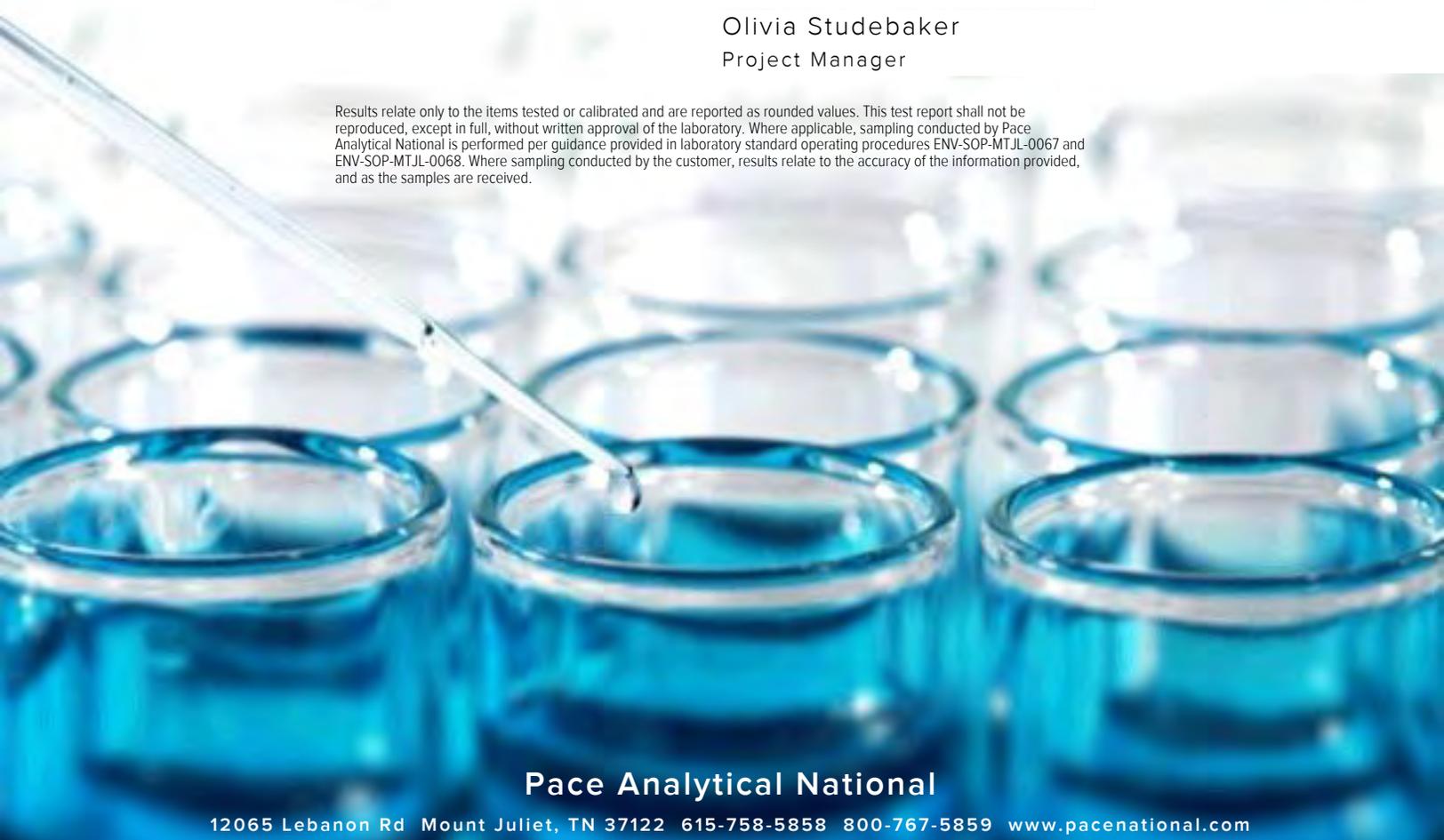
Plains All American, LP - GHD

Sample Delivery Group: L1439403
 Samples Received: 12/08/2021
 Project Number: 11209885/02
 Description: Darr Angell #1 SRS Darr Angell #1
 Site: SRS DARR ANGELL #1
 Report To: Becky Haskell
 2135 S Loop 250 W
 Midland, TX 79703

Entire Report Reviewed By:

Olivia Studebaker
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

| | | |
|--|-----------|---|
| Cp: Cover Page | 1 |  |
| Tc: Table of Contents | 2 | |
| Ss: Sample Summary | 3 |  |
| Cn: Case Narrative | 4 | |
| Tr: TRRP Summary | 5 |  |
| TRRP form R | 6 | |
| TRRP form S | 7 |  |
| TRRP Exception Reports | 8 |  |
| Sr: Sample Results | 9 | |
| PUMPS ON L1439403-01 | 9 |  |
| PUMPS OFF L1439403-02 | 10 | |
| Qc: Quality Control Summary | 11 |  |
| Volatile Organic Compounds (MS) by Method M18-Mod | 11 |  |
| Gl: Glossary of Terms | 13 | |
| Al: Accreditations & Locations | 14 |  |
| Sc: Sample Chain of Custody | 15 |  |

SAMPLE SUMMARY

PUMPS ON L1439403-01 Air

| | | |
|----------------|---------------------|--------------------|
| Collected by | Collected date/time | Received date/time |
| David Fletcher | 12/06/21 12:45 | 12/08/21 10:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (MS) by Method M18-Mod | WG1786013 | 800 | 12/08/21 21:25 | 12/08/21 21:25 | DAH | Mt. Juliet, TN |
| Volatile Organic Compounds (MS) by Method M18-Mod | WG1786714 | 10000 | 12/09/21 16:34 | 12/09/21 16:34 | CEP | Mt. Juliet, TN |

¹Cp

²Tc

³Ss

PUMPS OFF L1439403-02 Air

| | | |
|----------------|---------------------|--------------------|
| Collected by | Collected date/time | Received date/time |
| David Fletcher | 12/06/21 13:00 | 12/08/21 10:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (MS) by Method M18-Mod | WG1786013 | 800 | 12/08/21 22:05 | 12/08/21 22:05 | DAH | Mt. Juliet, TN |
| Volatile Organic Compounds (MS) by Method M18-Mod | WG1786714 | 10000 | 12/09/21 17:14 | 12/09/21 17:14 | CEP | Mt. Juliet, TN |

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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.

Olivia Studebaker
Project Manager

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

Laboratory Data Package Cover Page

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

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

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



Olivia Studebaker
Project Manager

Laboratory Review Checklist: Reportable Data

| Laboratory Name: Pace Analytical National | | LRC Date: 12/13/2021 11:57 | | | | | |
|---|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1439403-01 and 02 | | | | | |
| Reviewer Name: Olivia Studebaker | | Prep Batch Number(s): WG1786013 and WG1786714 | | | | | |
| #1 | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| R1 | OI | Chain-of-custody (C-O-C) | | | | | |
| | | Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? | X | | | | |
| | | Were all departures from standard conditions described in an exception report? | | | X | | |
| R2 | OI | Sample and quality control (QC) identification | | | | | |
| | | Are all field sample ID numbers cross-referenced to the laboratory ID numbers? | X | | | | |
| | | Are all laboratory ID numbers cross-referenced to the corresponding QC data? | X | | | | |
| R3 | OI | Test reports | | | | | |
| | | Were all samples prepared and analyzed within holding times? | X | | | | |
| | | Other than those results < MQL, were all other raw values bracketed by calibration standards? | X | | | | |
| | | Were calculations checked by a peer or supervisor? | X | | | | |
| | | Were all analyte identifications checked by a peer or supervisor? | X | | | | |
| | | Were sample detection limits reported for all analytes not detected? | X | | | | |
| | | Were all results for soil and sediment samples reported on a dry weight basis? | X | | | | |
| | | Were % moisture (or solids) reported for all soil and sediment samples? | | | X | | |
| | | Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035? | | | X | | |
| | | If required for the project, are TICs reported? | | | X | | |
| R4 | O | Surrogate recovery data | | | | | |
| | | Were surrogates added prior to extraction? | X | | | | |
| | | Were surrogate percent recoveries in all samples within the laboratory QC limits? | | X | | | 1 |
| R5 | OI | Test reports/summary forms for blank samples | | | | | |
| | | Were appropriate type(s) of blanks analyzed? | X | | | | |
| | | Were blanks analyzed at the appropriate frequency? | X | | | | |
| | | Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? | X | | | | |
| | | Were blank concentrations < MQL? | X | | | | |
| R6 | OI | Laboratory control samples (LCS): | | | | | |
| | | Were all COCs included in the LCS? | X | | | | |
| | | Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? | X | | | | |
| | | Were LCSs analyzed at the required frequency? | X | | | | |
| | | Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? | X | | | | |
| | | Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs? | X | | | | |
| | | Was the LCSD RPD within QC limits? | X | | | | |
| R7 | OI | Matrix spike (MS) and matrix spike duplicate (MSD) data | | | | | |
| | | Were the project/method specified analytes included in the MS and MSD? | | | X | | |
| | | Were MS/MSD analyzed at the appropriate frequency? | | | X | | |
| | | Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? | | | X | | |
| | | Were MS/MSD RPDs within laboratory QC limits? | | | X | | |
| R8 | OI | Analytical duplicate data | | | | | |
| | | Were appropriate analytical duplicates analyzed for each matrix? | | | X | | |
| | | Were analytical duplicates analyzed at the appropriate frequency? | | | X | | |
| | | Were RPDs or relative standard deviations within the laboratory QC limits? | | | X | | |
| R9 | OI | Method quantitation limits (MQLs): | | | | | |
| | | Are the MQLs for each method analyte included in the laboratory data package? | X | | | | |
| | | Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? | X | | | | |
| | | Are unadjusted MQLs and DCSs included in the laboratory data package? | X | | | | |
| R10 | OI | Other problems/anomalies | | | | | |
| | | Are all known problems/anomalies/special conditions noted in this LRC and ER? | X | | | | |
| | | Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results? | X | | | | |
| | | Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package? | X | | | | |

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

Laboratory Review Checklist: Supporting Data

| Laboratory Name: Pace Analytical National | | LRC Date: 12/13/2021 11:57 | | | | | |
|--|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1439403-01 and 02 | | | | | |
| Reviewer Name: Olivia Studebaker | | Prep Batch Number(s): WG1786013 and WG1786714 | | | | | |
| #1 | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| S1 | OI | Initial calibration (ICAL) | | | | | |
| | | Were response factors and/or relative response factors for each analyte within QC limits? | X | | | | |
| | | Were percent RSDs or correlation coefficient criteria met? | X | | | | |
| | | Was the number of standards recommended in the method used for all analytes? | X | | | | |
| | | Were all points generated between the lowest and highest standard used to calculate the curve? | X | | | | |
| | | Are ICAL data available for all instruments used? | X | | | | |
| | | Has the initial calibration curve been verified using an appropriate second source standard? | X | | | | |
| S2 | OI | Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB): | | | | | |
| | | Was the CCV analyzed at the method-required frequency? | X | | | | |
| | | Were percent differences for each analyte within the method-required QC limits? | X | | | | |
| | | Was the ICAL curve verified for each analyte? | X | | | | |
| | | Was the absolute value of the analyte concentration in the inorganic CCB < MDL? | | | X | | |
| S3 | O | Mass spectral tuning | | | | | |
| | | Was the appropriate compound for the method used for tuning? | X | | | | |
| | | Were ion abundance data within the method-required QC limits? | X | | | | |
| S4 | O | Internal standards (IS) | | | | | |
| | | Were IS area counts and retention times within the method-required QC limits? | X | | | | |
| S5 | OI | Raw data (NELAC Section 5.5.10) | | | | | |
| | | Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst? | X | | | | |
| | | Were data associated with manual integrations flagged on the raw data? | X | | | | |
| S6 | O | Dual column confirmation | | | | | |
| | | Did dual column confirmation results meet the method-required QC? | | | X | | |
| S7 | O | Tentatively identified compounds (TICs) | | | | | |
| | | If TICs were requested, were the mass spectra and TIC data subject to appropriate checks? | | | X | | |
| S8 | I | Interference Check Sample (ICS) results | | | | | |
| | | Were percent recoveries within method QC limits? | | | X | | |
| S9 | I | Serial dilutions, post digestion spikes, and method of standard additions | | | | | |
| | | Were percent differences, recoveries, and the linearity within the QC limits specified in the method? | | | X | | |
| S10 | OI | Method detection limit (MDL) studies | | | | | |
| | | Was a MDL study performed for each reported analyte? | X | | | | |
| | | Is the MDL either adjusted or supported by the analysis of DCSs? | X | | | | |
| S11 | OI | Proficiency test reports | | | | | |
| | | Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies? | X | | | | |
| S12 | OI | Standards documentation | | | | | |
| | | Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources? | X | | | | |
| S13 | OI | Compound/analyte identification procedures | | | | | |
| | | Are the procedures for compound/analyte identification documented? | X | | | | |
| S14 | OI | Demonstration of analyst competency (DOC) | | | | | |
| | | Was DOC conducted consistent with NELAC Chapter 5? | X | | | | |
| | | Is documentation of the analyst's competency up-to-date and on file? | X | | | | |
| S15 | OI | Verification/validation documentation for methods (NELAC Chapter 5) | | | | | |
| | | Are all the methods used to generate the data documented, verified, and validated, where applicable? | X | | | | |
| S16 | OI | Laboratory standard operating procedures (SOPs) | | | | | |
| | | Are laboratory SOPs current and on file for each method performed | X | | | | |
| <p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p> | | | | | | | |

Laboratory Review Checklist: Exception Reports

| Laboratory Name: Pace Analytical National | | LRC Date: 12/13/2021 11:57 | |
|--|---|---|--|
| Project Name: Darr Angell #1 SRS Darr Angell #1 | | Laboratory Job Number: L1439403-01 and 02 | |
| Reviewer Name: Olivia Studebaker | | Prep Batch Number(s): WG1786013 and WG1786714 | |
| ER # ¹ | Description | | |
| 1 | M18-Mod WG1786013 1,4-Bromofluorobenzene L1439403-01 and 02: Percent Recovery is outside of established control limits. | | |
| <p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p> | | | |

Collected date/time: 12/06/21 12:45

L1439403

Volatile Organic Compounds (MS) by Method M18-Mod

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|----------|---------|---------|----------|-----------|----------|---------------------------|
| | | | ppbv | ug/m3 | ppbv | ug/m3 | | | |
| Benzene | 71-43-2 | 78.10 | 2000 | 6390 | 37600 | 120000 | | 10000 | WG1786714 |
| Toluene | 108-88-3 | 92.10 | 5000 | 18800 | 57700 | 217000 | | 10000 | WG1786714 |
| Ethylbenzene | 100-41-4 | 106 | 2000 | 8670 | 12300 | 53300 | | 10000 | WG1786714 |
| m&p-Xylene | 1330-20-7 | 106 | 4000 | 17300 | 48700 | 211000 | | 10000 | WG1786714 |
| o-Xylene | 95-47-6 | 106 | 2000 | 8670 | 16000 | 69400 | | 10000 | WG1786714 |
| Methyl tert-butyl ether | 1634-04-4 | 88.10 | 160 | 577 | ND | ND | | 800 | WG1786013 |
| TPH (GC/MS) Low Fraction | 8006-61-9 | 101 | 2000000 | 8260000 | 6090000 | 25200000 | | 10000 | WG1786714 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 354 | | J1 | | WG1786013 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 102 | | | | WG1786714 |

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

Sample Narrative:

L1439403-01 WG1786013: Surrogate failure due to matrix interference

Collected date/time: 12/06/21 13:00

L1439403

Volatile Organic Compounds (MS) by Method M18-Mod

| Analyte | CAS # | Mol. Wt. | RDL1 ppbv | RDL2 ug/m3 | Result ppbv | Result ug/m3 | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| Benzene | 71-43-2 | 78.10 | 2000 | 6390 | 42300 | 135000 | | 10000 | WG1786714 |
| Toluene | 108-88-3 | 92.10 | 5000 | 18800 | 64900 | 244000 | | 10000 | WG1786714 |
| Ethylbenzene | 100-41-4 | 106 | 2000 | 8670 | 13900 | 60300 | | 10000 | WG1786714 |
| m&p-Xylene | 1330-20-7 | 106 | 4000 | 17300 | 52000 | 225000 | | 10000 | WG1786714 |
| o-Xylene | 95-47-6 | 106 | 2000 | 8670 | 17300 | 75000 | | 10000 | WG1786714 |
| Methyl tert-butyl ether | 1634-04-4 | 88.10 | 160 | 577 | ND | ND | | 800 | WG1786013 |
| TPH (GC/MS) Low Fraction | 8006-61-9 | 101 | 2000000 | 8260000 | 6680000 | 27600000 | | 10000 | WG1786714 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 368 | | J1 | | WG1786013 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 102 | | | | WG1786714 |

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

Sample Narrative:

L1439403-02 WG1786013: Surrogate failure due to matrix interference

Volatile Organic Compounds (MS) by Method M18-Mod

[L1439403-01,02](#)

Method Blank (MB)

(MB) R3738493-3 12/08/21 10:11

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|----------|
| | ppbv | | ppbv | ppbv |
| MTBE | U | | 0.0647 | 0.200 |
| (S) 1,4-Bromofluorobenzene | 97.8 | | | 60.0-140 |

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

(LCS) R3738493-1 12/08/21 08:50 • (LCSD) R3738493-2 12/08/21 09:31

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
| | ppbv | ppbv | ppbv | % | % | % | | | % | % |
| MTBE | 3.75 | 4.57 | 4.57 | 122 | 122 | 70.0-130 | | | 0.000 | 25 |
| (S) 1,4-Bromofluorobenzene | | | | 97.4 | 97.8 | 60.0-140 | | | | |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Volatile Organic Compounds (MS) by Method M18-Mod

[L1439403-01,02](#)

Method Blank (MB)

(MB) R3739068-3 12/09/21 10:42

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|----------|
| | ppbv | | ppbv | ppbv |
| Benzene | U | | 0.0715 | 0.200 |
| Ethylbenzene | U | | 0.0835 | 0.200 |
| Toluene | U | | 0.0870 | 0.500 |
| m&p-Xylene | U | | 0.135 | 0.400 |
| o-Xylene | U | | 0.0828 | 0.200 |
| TPH (GC/MS) Low Fraction | U | | 39.7 | 200 |
| (S) 1,4-Bromofluorobenzene | 94.9 | | | 60.0-140 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

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

(LCS) R3739068-1 12/09/21 09:18 • (LCSD) R3739068-2 12/09/21 10:01

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| | ppbv | ppbv | ppbv | % | % | % | | | % | % |
| Benzene | 3.75 | 4.27 | 4.20 | 114 | 112 | 70.0-130 | | | 1.65 | 25 |
| Toluene | 3.75 | 4.24 | 4.29 | 113 | 114 | 70.0-130 | | | 1.17 | 25 |
| Ethylbenzene | 3.75 | 4.26 | 4.20 | 114 | 112 | 70.0-130 | | | 1.42 | 25 |
| m&p-Xylene | 7.50 | 8.57 | 8.36 | 114 | 111 | 70.0-130 | | | 2.48 | 25 |
| o-Xylene | 3.75 | 4.34 | 4.15 | 116 | 111 | 70.0-130 | | | 4.48 | 25 |
| TPH (GC/MS) Low Fraction | 203 | 249 | 243 | 123 | 120 | 70.0-130 | | | 2.44 | 25 |
| (S) 1,4-Bromofluorobenzene | | | | 100 | 98.1 | 60.0-140 | | | | |

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

Qualifier Description

| | |
|----|--|
| J1 | Surrogate recovery limits have been exceeded; values are outside upper control limits. |
|----|--|

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



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 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 92044

CONDITIONS

| | |
|---|---|
| Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002 | OGRID: 34053 |
| | Action Number: 92044 |
| | Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |
| | |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|---|----------------|
| nvelez | Contractor recommendations approved by OCD and are as follows; 1. Continue the operation and maintenance of the system in various monitor and recovery wells on a weekly basis. 2. Conduct LNAPL abatement via hand-bailing on a weekly basis for monitor and recovery wells that have a measurable amount of LNAPL, but no pump installed. 3. Continue NMOCD-approved quarterly GWSEs for BTEX by Method 8021B for all monitor and recovery wells located on-site. 4. MW-11R, MW-16R, MW-21R, MW-24, and MW-25 have established 2 consecutive years below the NMWQCC criteria for PAH, therefore NMOCD approves the removal from the annual PAH sampling schedule unless they are re-impacted by LNAPL. 5. Sample monitor well MW-2 (if there is sufficient water) for PAH compounds during the fourth quarter of 2022. Additionally, sample any wells that cease to have LNAPL for PAH compounds. 6. Submit the Annual Monitoring Report to the NMOCD no later than March 31, 2023. | 8/2/2022 |