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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.

Conduct LNAPL abatement via hand-bailing 2. on a weekly basis for monitor and recovery wells that have a measurable amount of LNAPL, but no pump installed.

Continue NMOCD-approved quarterly 3. 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.

Sample monitor well MW-2 (if there is 5. 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 ¼, SE ¼, 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 trailermounted 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 monomethylnapthalenes. NMWQCC standards as shown in Table 2.1 are used to guide assessment and remediation of the Site:

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 MonomethyInaphthalenes	0.03 mg/L

Table 2.1 NMWQCC Human Health Standards



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:

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

Table 3.1 NMOCD-Approved Groundwater Sampling Schedule

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 monomethylnapthalenes 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.

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All of Which is Respectfully Submitted,

GHD

Rebena Haskell

Rebecca Haskell Senior project Manager

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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.

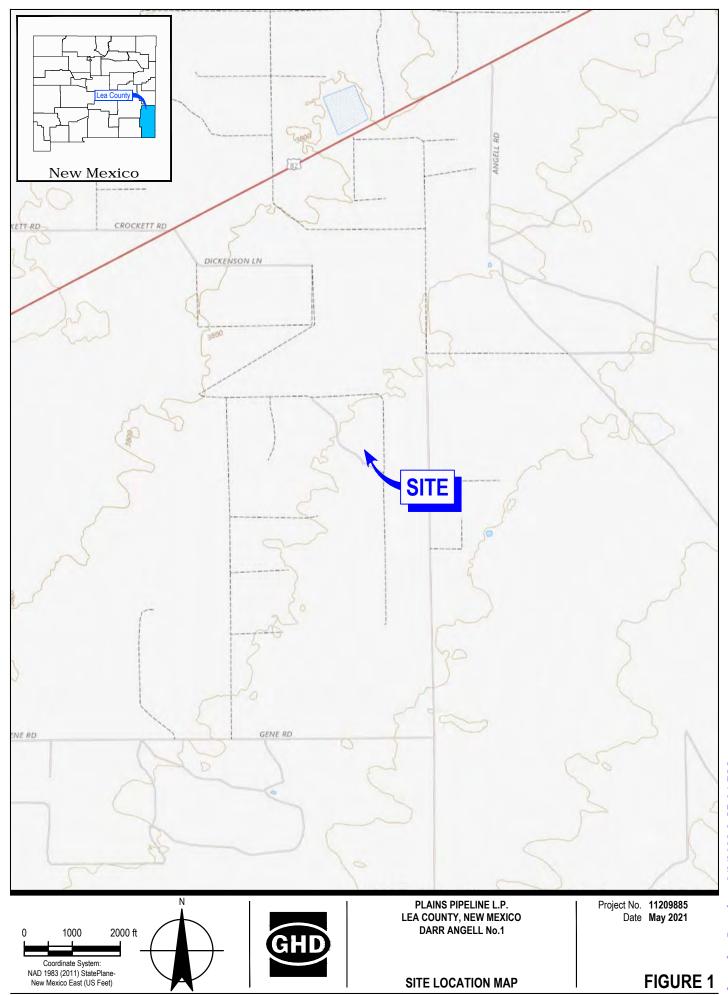
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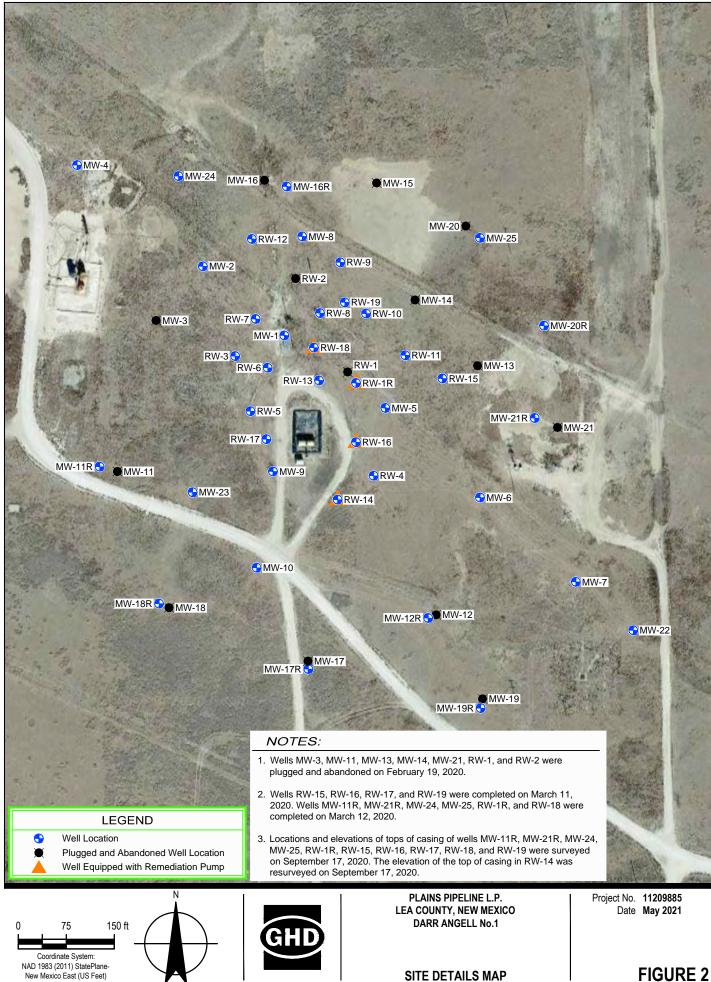
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Figures

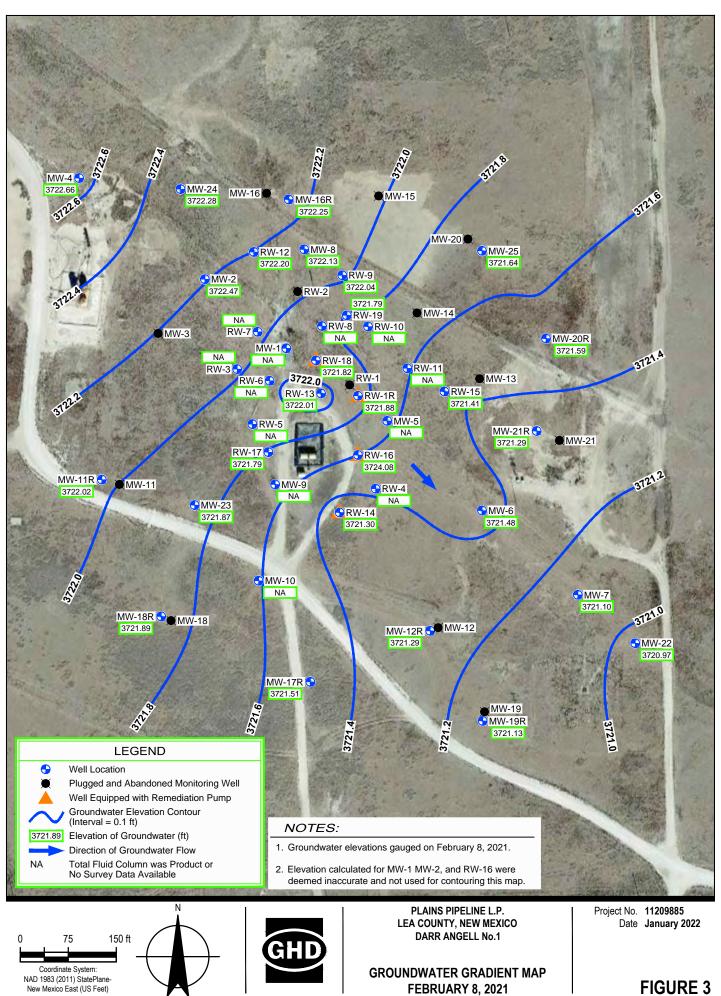
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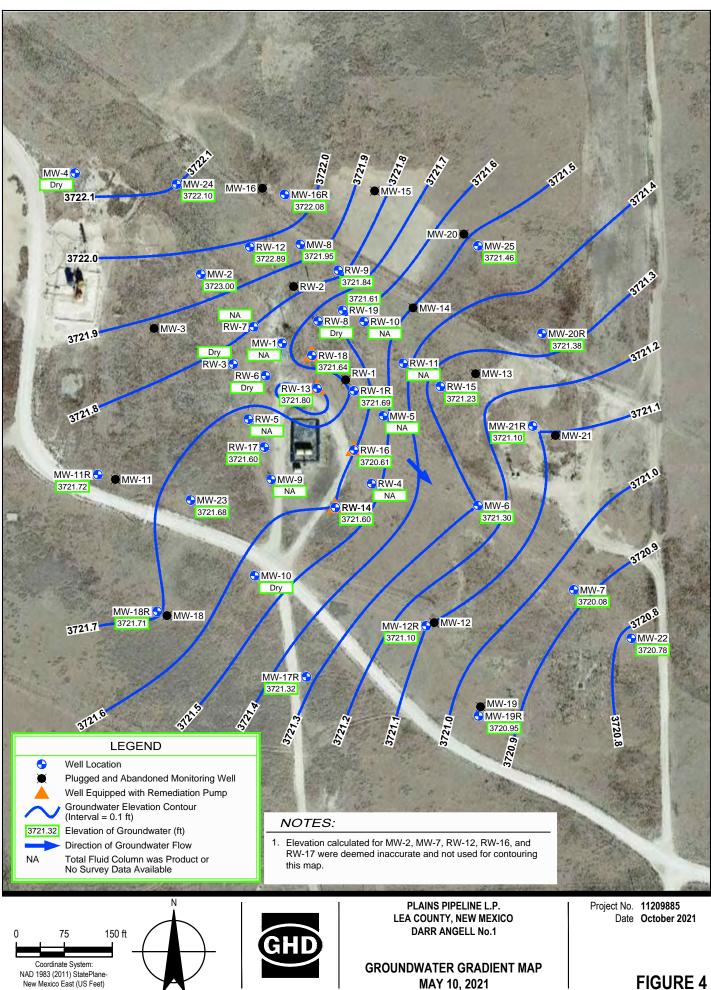




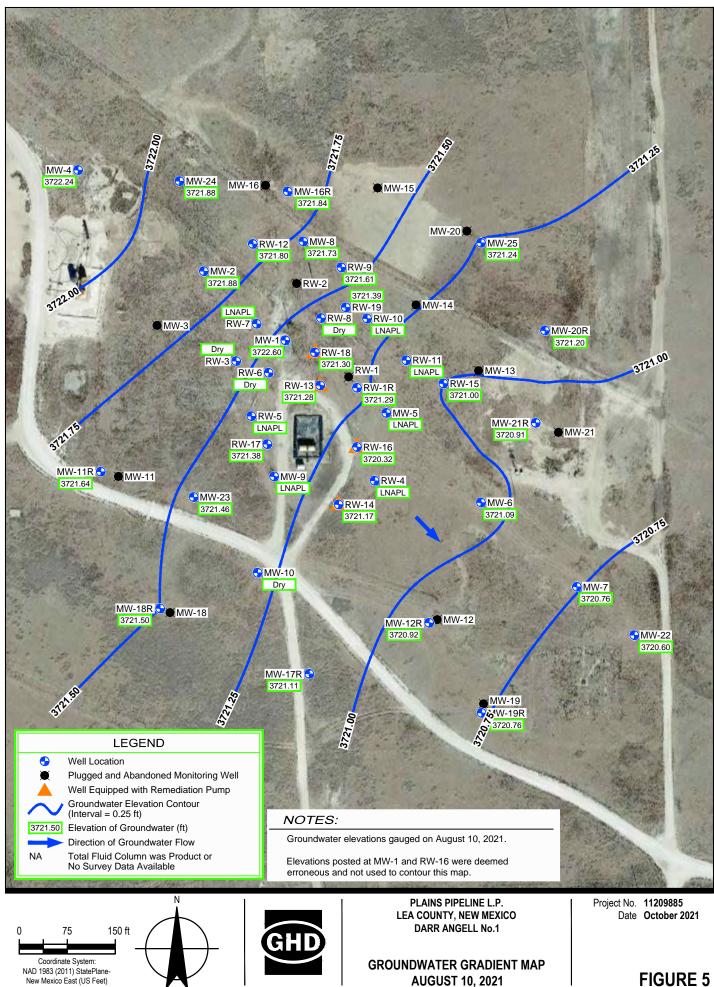
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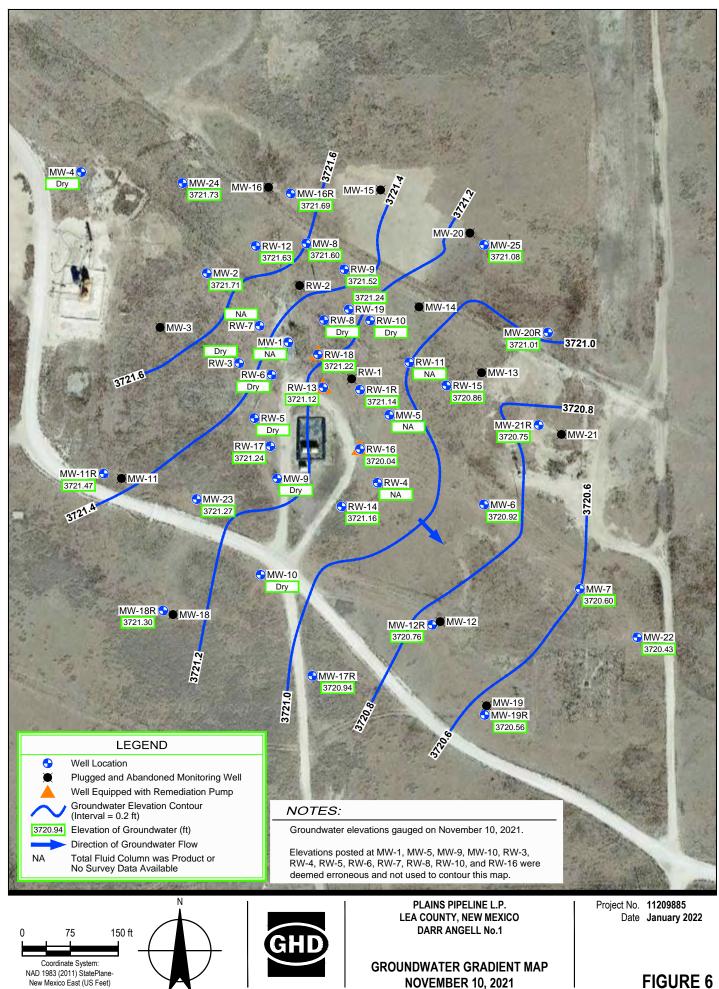
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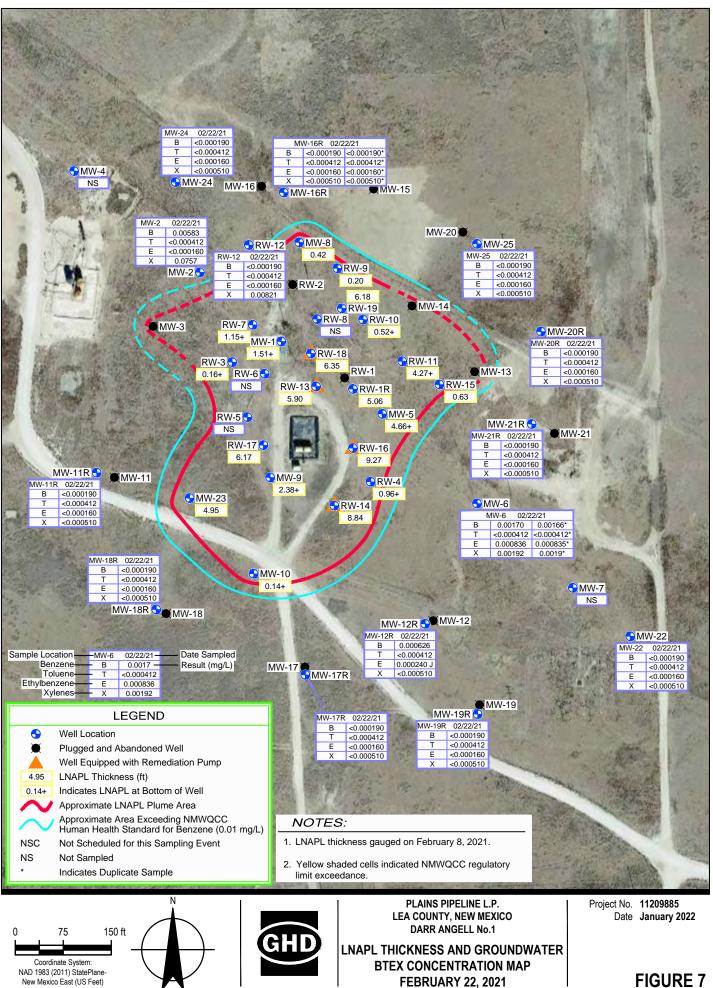


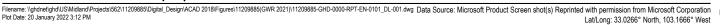
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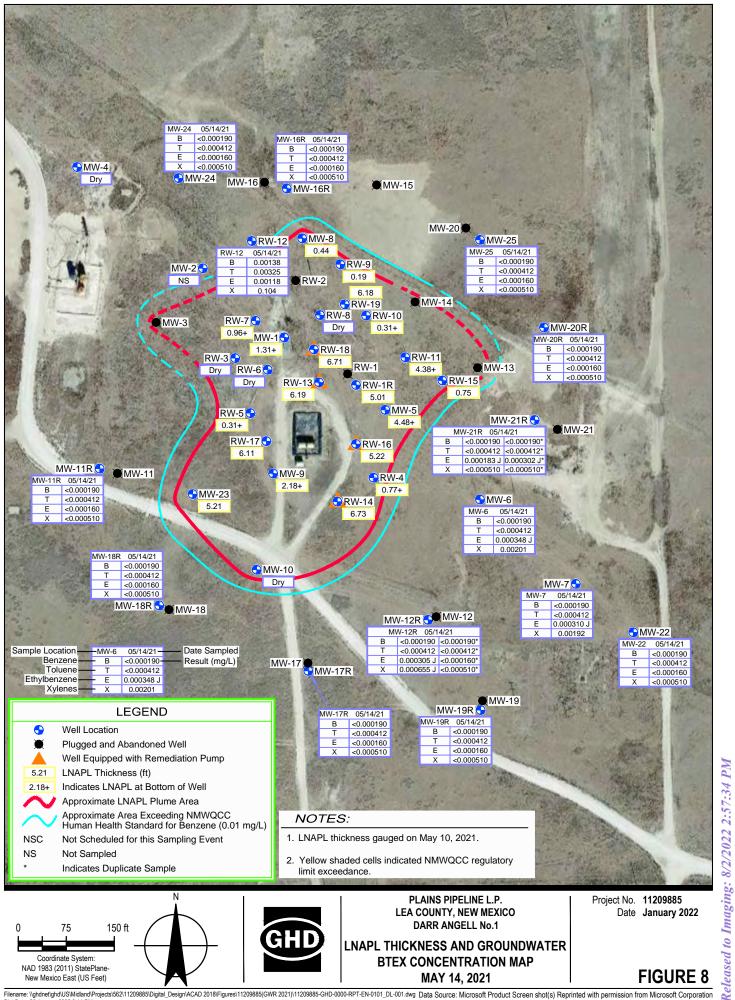


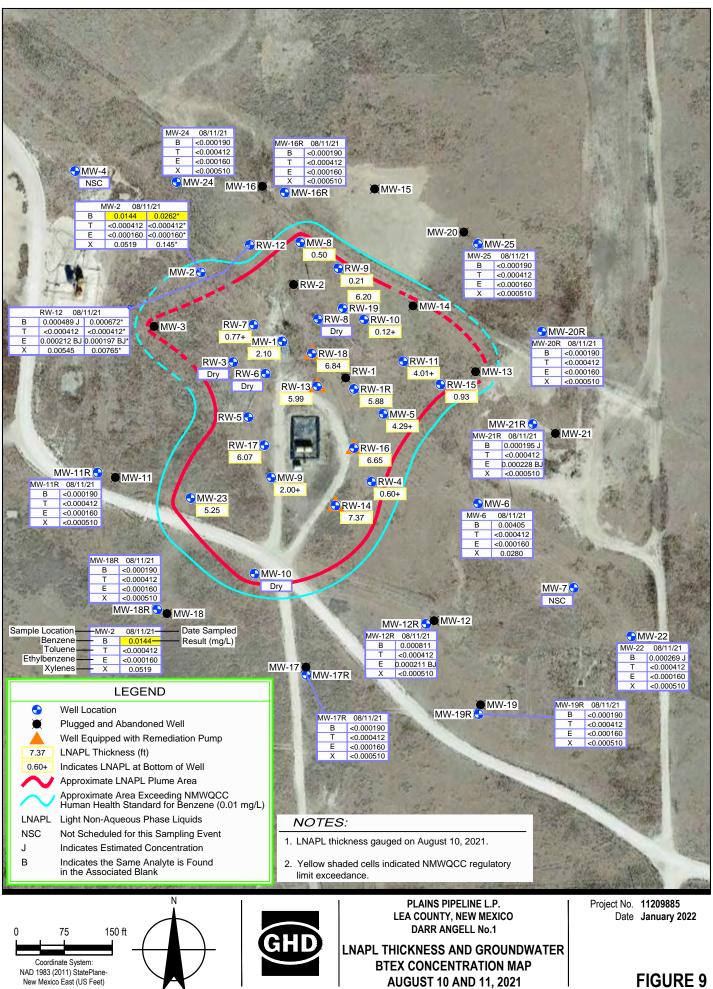
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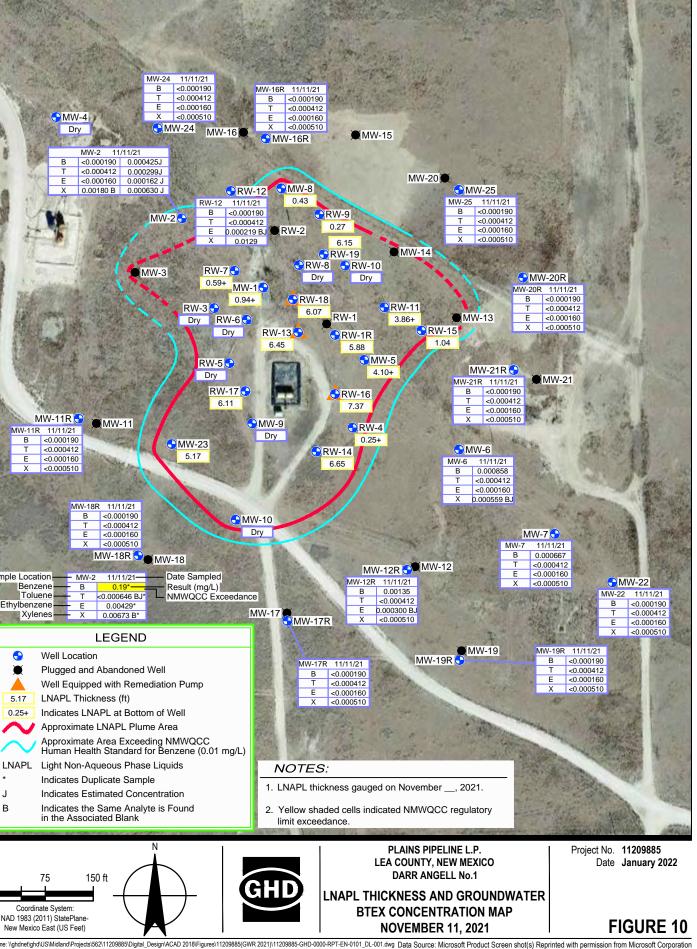






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Tables

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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

	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 MW-01	3790.02 3790.02	5/12/20 6/19/20	-	67.17 67.25	1.73+ 1.65+	LNAPL at TD LNAPL at TD	68.90 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 MW-01	3790.02 3790.02	5/3/21 5/10/21	-	68.00 67.99	1.02+ 1.31+	LNAPL at TD LNAPL at TD	69.02 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 MW-02	3790.83 3790.83	4/28/20 5/12/20	68.06 67.92	-	0.00	3722.77 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 MW-02	3790.83 3790.83	3/22/21 5/3/21	68.64 68.53	-	0.00	3722.19 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 MW-02	3790.83	11/10/21	69.12	-	0.00	3721.71	71.53	-	-	5.5		
IVIVV-02	3790.83	12/21/21	69.20	-	0.00	3721.63	71.53	-	-	-	-	
MW-03	P&A	2/19/20										
1111 00	1 00/1	2/10/20										
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 MW-04	3792.51 3792.51	8/27/20 9/14/20	69.48 69.52	-	0.00	3723.03 3722.99	-	-	-	-	-	
MW-04	3792.51	9/14/20	69.61	-	0.00	3722.99	- 69.94	-	-	- Pull sample	-	
MW-04	3792.51	12/7/20	69.70	-	0.00	3722.80	- 05.54	-	-	-	-	
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 MW-04	3792.51 3792.51	8/10/21 9/29/21	70.27	-	0.00	3722.24 3722.61	71.77 69.95	-	-	-	-	
MW-04	3792.51 3792.51	9/29/21	69.90 -	-	0.00	3722.61 Dry	69.95 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

	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 MW-05	3789.50 3789.50	8/27/20 9/14/20	71.16	66.59 66.58	4.57 4.73+	3722.04 LNAPL at TD	- 71.31	-	-	-	-	
MW-05	3789.50	10/29/20	-	66.47	4.73+	LNAPL at TD	71.31	-	-	-	-	
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 LNAPL at TD	71.30 71.30	-	-	-	-	
MW-05 MW-05	3789.50 3789.50	7/28/21 8/10/21	-	66.99 67.01	4.31+ 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 MW-06	3789.27 3789.27	4/28/20 5/12/20	67.19 67.20	-	0.00	3722.08 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 MW-06	3789.27 3789.27	5/3/21 5/10/21	67.95 67.97	-	0.00	3721.32 3721.30	-	-	-	- 8.0	-	
MW-06	3789.27	7/28/21	68.15	-	0.00	3721.30	-	-	-	-	-	
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	-	-	-	-	
104/07	0700.00	0/11/00	07.44		0.00	0704.05	75.00	50 70 (4)				
MW-07 MW-07	3789.26 3789.26	2/11/20 4/28/20	67.41 67.51	-	0.00	3721.85 3721.75	75.36	50-70 (4 in.)	-	-	-	
MW-07	3789.20	5/12/20	67.52	-	0.00	3721.75	-	-	-	- 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 MW-07	3789.26 3789.26	12/7/20 1/25/21	67.96 68.08	-	0.00	3721.30 3721.18	-	-	-	-	-	
MW-07	3789.26	2/8/21	68.16	-	0.00	3721.18	- 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 MW-07	3789.26 3789.26	9/29/21 10/27/21	68.60 68.66	-	0.00	3720.66 3720.60	73.11 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 MW-08	3790.66 3790.66	6/19/20 7/29/20	68.19 68.34	67.94 68.04	0.25	3722.67 3722.56	-	-	-	-	-	
MW-08	3790.66	8/27/20	68.43	68.04 68.07	0.30	3722.56	-	-	-	-	-	
MW-08	3790.66	9/14/20	68.50	68.13	0.30	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	-	-	-	-	-	

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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 (famsI)	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	-	-	-	- Ballea (gall)		
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 MW-09	3790.94 3790.94	6/19/20 7/29/20	-	67.36 67.25	5.41+ 3.15+	LNAPL at TD LNAPL at TD	72.77 70.40	-	-	-	-	
MW-09	3790.94	8/27/20	70.32	67.53	2.79	3722.88	- 70.40	-	-	-	-	
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 MW-09	3790.94 3790.94	5/3/21 5/10/21	-	68.06	2.21+	LNAPL at TD LNAPL at TD	70.27 70.28	-	-	-	-	
MW-09	3790.94	7/28/21	-	68.10 68.24	2.18+ 2.04+	LNAPL at TD	70.28	-	-	-	-	
MW-09	3790.94	8/10/21	-	68.29	2.04+	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 MW-10	3790.94 3790.94	8/27/20 9/14/20	68.72	68.08 68.23	0.64	3722.74 LNAPL at TD	- 68.63	-	-	-	-	
MW-10	3790.94	10/29/20	-	68.26	0.40+	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 MW-10	3790.94 3790.94	8/10/21 9/29/21	-	-	-	Dry Dry	68.69	-	-	-	-	
MW-10	3790.94	9/29/21	-	-	-	Dry	68.66 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										
	0.5.5	a//										
MW-11R	3790.62	2/26/20	-	-	-	-	-	-	-	15	-	
MW-11R	3790.62	3/12/20 3/23/20	67.76	-	0.00	3722.86	90.02	-	-	-	-	
MW-11R MW-11R	3790.62 3790.62	3/23/20 4/28/20	67.88 67.95	-	0.00	3722.74 3722.67	90.02	-	-	-	-	
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 68.54	-	0.00	3722.20	-	-	-	-	-	
MW-11R MW-11R	3790.62 3790.62	1/25/21 2/8/21	68.54 68.60	-	0.00	3722.08 3722.02	- 90.10	-	-	- 11	-	
MW-11R	3790.62	3/22/21	68.68	-	0.00	3722.02	- 90.10	-	-	-	-	
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

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 MW-11R	3790.62 3790.62	11/10/21 12/21/21	69.15 69.25	-	0.00	3721.47 3721.37	90.10 90.10	-	-	10.5	-
	3730.02	12/21/21	09.25		0.00	5721.57	30.10	-	-	-	-
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 MW-12R	3789.55 3789.55	8/27/20 9/14/20	67.88 67.93	-	0.00	3721.67 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 MW-12R	3789.55 3789.55	7/28/21 8/10/21	68.61 68.63	-	0.00	3720.94 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									Į
MW-14	P&A	2/19/20									
10100-14	ΡαΑ	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 MW-16R	3791.21 3791.21	8/27/20 9/14/20	68.63 68.63	-	0.00	3722.58 3722.58	-	-	-	- 9.0	-
MW-16R	3791.21	9/14/20	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 MW-16R	3791.21 3791.21	5/10/21 7/28/21	69.13 69.34	-	0.00	3722.08 3721.87	-	-	-	8.0	-
MW-16R	3791.21	8/10/21	69.37	-	0.00	3721.87	- 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	2700.00	2/11/20	67.94		0.00	3722.26	70.45			5.2	
MW-17R MW-17R	3790.20 3790.20	2/11/20 4/28/20	67.94 68.06	-	0.00	3722.26	79.15	-	-	5.3	-
MW-17R	3790.20	5/12/20	68.09	-	0.00	3722.14	-	-	-	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 MW-17R	3790.20 3790.20	12/7/20 1/25/21	68.55 68.65	-	0.00	3721.65 3721.55	-	-	-	-	-
MW-17R	3790.20	2/8/21	68.69	-	0.00	3721.55	- 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 MW-17R	3790.20 3790.20	9/29/21 10/27/21	69.2 69.26	-	0.00	3721.00 3720.94	78.71 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

	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 3722.34	-	-	-	-	-	
MW-18R MW-18R	3791.04 3791.04	7/29/20 8/27/20	68.70 68.77	-	0.00	3722.34 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 69.54	-	0.00	3721.54	-	-	-	-	-	
MW-18R MW-18R	3791.04 3791.04	8/10/21 9/29/21	69.66 69.66	-	0.00	3721.50 3721.38	81.50 81.41	-	-	6.0	-	
MW-18R	3791.04	10/27/21	69.73	-	0.00	3721.38	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 MW-19R	3789.67 3789.67	7/29/20 8/27/20	68.08 68.15	-	0.00	3721.59 3721.52	-	-	-	-	-	
MW-19R	3789.67	9/14/20	68.42	-	0.00	3721.52	-	-	-	6.0	-	
MW-19R	3789.67	10/29/20	68.29	-	0.00	3721.23	-	-	-	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 MW-19R	3789.67 3789.67	8/10/21 9/29/21	68.91 69.00	-	0.00	3720.76 3720.67	77.78 77.66	-	-	4.5	-	
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 MW-20R	3789.73 3789.73	6/19/20 7/29/20	67.64 67.71	-	0.00	3722.09 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 MW-20R	3789.73 3789.73	3/22/21 5/3/21	68.24 68.31	-	0.00	3721.49 3721.42	-	-	-	-	-	
MW-20R	3789.73	5/10/21	68.35	-	0.00	3721.42	-	-	-	- 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	-	-	-	-	<u> </u>	
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 MW-21R	3789.71 3789.71	10/29/20 12/7/20	68.17 68.25	-	0.00	3721.54 3721.46	-	-	-	- 10.00	-	
11117-211	5103.11	12/1/20	00.20	-	0.00	5121.40	-	-	-	ı -		

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

	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 3/22/21	68.42	-	0.00	3721.29 3721.21	89.45 -	-	-	10.50	-	
MW-21R MW-21R	3789.71 3789.71	5/3/21	68.50 68.56	-	0.00	3721.21			-	-	-	
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 MW-22	3788.97 3788.97	7/29/20 8/27/20	67.58 67.63	-	0.00	3721.39 3721.34	-	-	-	-	-	
MW-22	3788.97	9/14/20	67.69	-	0.00	3721.34	-	-	-	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 MW-22	3788.97 3788.97	7/28/21 8/10/21	68.33 68.37	-	0.00	3720.64 3720.60	- 84.30	-	-	- 8.0	-	
MW-22	3788.97	9/29/21	68.50	-	0.00	3720.00	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 MW-23	3790.93 3790.93	1/15/20 1/29/20	-	-	-	-	-	-	0.5	0.2	-	
MW-23	3790.93	2/11/20	69.37	67.93	- 1.44	3722.73	- 84.92	-	- 0.4	-	-	
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 MW-23	3790.93 3790.93	10/29/20 12/7/20	72.74 72.92	67.90 67.95	4.84 4.97	3722.11 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 MW-23	3790.93 3790.93	9/29/21 10/27/21	73.75 73.91	68.60 68.68	5.15 5.23	3721.35 3721.26	83.59 83.59	-	-	-	-	
MW-23	3790.93	11/10/21	73.85	68.68	5.23	3721.20	83.59	-	-	-	- 1	
MW-23	3790.93	12/21/21	73.93	68.77	5.16	3721.27	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 MW-24	3791.40	3/23/20	68.40 68.47	-	0.00	3723.00	90.02	-	-	- 11.0	-	
MW-24	3791.40 3791.40	4/28/20 5/12/20	68.47 68.47	-	0.00	3722.93 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 MW-24	3791.40 3791.40	2/8/21 3/22/21	69.12 69.19	-	0.00	3722.28 3722.21	89.97	-	-	- 10.0	-	
MW-24	3791.40	5/3/21	69.29	-	0.00	3722.21	-		-	-	-	
MW-24	3791.40	5/10/21	69.30	-	0.00	3722.10	-	-	-	10.0	-	
					2.00		·					

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

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 MW-25	3790.01 3790.01	12/7/20	68.20 68.33	-	0.00	3721.81 3721.68	-	-	-	-	-
MW-25	3790.01	1/25/21 2/8/21	68.37	-	0.00	3721.66	- 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	3721.33	-	-	-	-	-
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									
	1 00/1	2/10/20									
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 RW-1R	3790.43	6/19/20	- 73.18	- 67.09	- 6.09	- 3722.18	-	-	-	-	-
RW-1R	3790.43 3790.43	7/29/20 8/27/20	-	- 67.09	-		-	-	-	-	-
RW-IR 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 RW-1R	3790.43 3790.43	5/10/21 7/28/21	72.80 73.68	67.79 67.84	5.01 5.84	3721.69 3721.48	-	-	-	-	-
RW-1R RW-1R	3790.43	8/10/21	73.68	67.84 68.02	5.84 5.88	3721.48	-	-	-	-	<u> </u>
RW-IR	3790.43	9/29/21	73.90	67.11	5.88 6.94	3721.29	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									
D14/ 00	0701.01	4/0/00							0.5	0.0	
RW-03	3791.34	1/8/20	-	-	- 0.701	-	-	-	0.5	0.0	-
RW-03 RW-03	3791.34 3791.34	2/11/20 4/28/20	-	67.22 67.35	0.79+ 0.61+	LNAPL at TD LNAPL at TD	68.01	-	-	-	-
RW-03	3791.34	4/28/20	-	67.35	0.61+	LNAPL at TD	67.96 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	-	-	-	-

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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

	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 RW-04	3790.76 3790.76	10/29/20 12/7/20	-	67.55 67.62	1.27+ 2.88+	LNAPL at TD LNAPL at TD	68.82 70.50	-	-	-	-	
RW-04 RW-04	3790.76	1/25/21	-	67.74	2.00+	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 RW-04	3790.76	10/27/21	-	68.48	0.25+	LNAPL at TD	68.73	-	-	-	-	
RW-04 RW-04	3790.76 3790.76	11/10/21 12/21/21	-	68.48 68.56	0.25+	LNAPL at TD LNAPL at TD	68.73 68.73	-	-	-	-	
KW-04	3790.70	12/21/21	-	00.00	0.17+	LINAFL aLTD	00.73	-	-	-	-	
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 RW-05	3791.45 3791.45	8/27/20 9/14/20	-	-	-	Dry Dry	67.16 67.10	-	-	-	-	
RW-05	3791.45	10/29/20	-	-	-	Dry	67.10	-	-	-	-	
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 RW-05	3791.45	7/28/21 8/10/21	-	-	-	Dry	67.13 67.11	-	-	-	-	
RW-05	3791.45 3791.45	9/29/21	-	-	-	Dry 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 RW-06	3791.39 3791.39	4/28/20 5/12/20	67.45	67.35 67.37	0.10 0.16+	3724.02 LNAPL at TD	- 67.53	-	-	-	-	
RW-06	3791.39	6/19/20	-	67.46	0.16+	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 RW-06	3791.39 3791.39	3/22/21 5/3/21	-	-	-	Dry	67.49 67.52	-	-	-	-	
RW-06 RW-06	3791.39	5/3/21	-	-	-	Dry Dry	67.52	-	-	-	-	
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

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	(10100)	68.30	1.18+	LNAPL at TD	69.48		(gai.)	- Balled (gal.)	
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 RW-07	3791.51 3791.51	8/27/20 9/14/20	-	67.87 67.95	1.55+ 1.42+	LNAPL at TD LNAPL at TD	69.42 69.37	-	-	-	-
RW-07	3791.51	10/29/20	-	68.03	1.42+	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 RW-07	3791.51 3791.51	5/3/21 5/10/21	-	68.40 68.41	0.98+	LNAPL at TD LNAPL at TD	69.38 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 12/21/21	-	68.78	0.59+	LNAPL at TD 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 RW-08	3790.90	5/12/20 6/19/20	-	67.09 67.17	0.77+	LNAPL at TD LNAPL at TD	67.86 67.86	-	-	-	-
RW-08	3790.90 3790.90	7/29/20	-	67.32	0.89+	LNAPL at TD	67.60	-	-	-	-
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 RW-08	3790.90 3790.90	2/8/21 3/22/21	-	-	-	Dry Dry	67.47 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 RW-08	3790.90	9/29/21	-	-		Dry	67.47	-	-	-	-
RW-08	3790.90 3790.90	10/27/21 11/10/21	-	-	-	Dry Dry	67.47 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 RW-09	3791.33	4/28/20	68.81	68.60 68.65	0.21	3722.69	-	-	-	-	-
RW-09 RW-09	3791.33 3791.33	5/12/20 6/19/20	68.85 68.93	68.65 68.71	0.20	3722.64 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 RW-09	3791.33 3791.33	12/7/20 1/25/21	69.32 69.42	69.06 69.20	0.26	3722.22 3722.09	-	-	-	-	-
RW-09	3791.33	2/8/21	69.42	69.20 69.25	0.22	3722.09	- 71.06	-	-	-	-
RW-09	3791.33	3/22/21	69.56	69.34	0.20	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 RW-09	3791.33 3791.33	8/10/21 9/29/21	69.89 70.00	69.68 69.78	0.21	3721.61 3721.51	- 71.06	-	-	-	-
RW-09	3791.33	10/27/21	70.00	69.76	0.22	3721.51	71.06	-	-	-	-
RW-09	3791.33	11/10/21	70.03	69.76	0.23	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

	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	-	-	-	-
										1.0	
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 RW-11	3790.82 3790.82	4/28/20 5/12/20	69.81 70.00	68.10 68.08	1.71 1.92	3722.40 3722.38	-	-	-	-	-
RW-11	3790.82	6/19/20	70.00	68.07	2.49	3722.38	-	-	-	-	-
RW-11	3790.82	7/29/20	71.10	68.05	3.05	3722.19	-	-	-	-	-
RW-11	3790.82	8/27/20	71.10	68.04	3.38	3722.19	-	-	-	-	-
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+	LNAPI 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 RW-12	3791.20	3/17/20	-	-	-	- 3722.82	-	-	-	3.0	-
RW-12 RW-12	3791.20 3791.20	4/28/20 5/12/20	68.38 68.36	-	0.00	3722.82	-	-	-	40.0	-
RW-12	3791.20	6/19/20	68.45	-	0.00	3722.84	-	-	-	-	
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 RW-12	3791.20 3791.20	1/25/21 2/8/21	68.94 69.00	-	0.00	3722.26 3722.20	- 85.48	-	-	38.0 32.0	-
RW-12 RW-12	3791.20	3/22/21	69.00	-	0.00	3722.20	65.48	-	-	- 32.0	-
RW-12 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 RW-12	3791.20 3791.20	11/10/21 12/21/21	69.57 69.64	-	0.00	3721.63 3721.56	85.55 85.55	-	-	32.0	-
NVV-12	3/91.20	12/21/21	09.04	-	0.00	3121.00	00.00	-	-	-	-
RW-13	3791.08	2/11/20	73.32	67.39	5.93	3722.56	84.33	-	-	-	-
RW-13	3791.08	4/28/20	-	-	- 5.95	-	- 04.33	-	-	-	-
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	-	-	-	-	-
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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

Branding Desch Desch <thdesch< th=""> Desch Desch <</thdesch<>	Lea County, New Mexico											
mm-13791.0178.06.003.71372.2910.10 <t< th=""><th>Well ID</th><th>of Top of Casing</th><th>Date</th><th>Groundwater</th><th>to LNAPL</th><th>Thickness of LNAPL</th><th>Elevation of Potentiometric</th><th>Measured Well Depth</th><th>(fbgs) Well</th><th>Product Removed</th><th>Groundwater</th><th>Groundwater Removed by</th></t<>	Well ID	of Top of Casing	Date	Groundwater	to LNAPL	Thickness of LNAPL	Elevation of Potentiometric	Measured Well Depth	(fbgs) Well	Product Removed	Groundwater	Groundwater Removed by
BW1-3 379.08 1.522 7.58 7.58 7.58 7.59 5.90 5.722.01 8.81 .	RW-13	3791.08	10/29/20	71.80	68.09	3.71	3722.29	-	-	-	-	-
BW-13 SP16 BV21 TASE 67.95 67.05 62.03 372.01 81.85 RW-13 371.66 522.01 74.20 68.00 6.17 3721.62 .				-	-		-	-	-	-	-	-
NN-10379.065.2027.4206.006.17372.120 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td>-</td></t<>										-	-	-
Imma 3791.08 5921 7420 68.09 6171 3771.80 . W141 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
WH-13 3791.68 F1420 74.20 69.10 7271.80 1 .												
BW1-3 20108 7.8021 1. 1. 1. 1. 1. 1. 1. 1. 1. 1												
BW13 399108 #1021 7446 886 5.99 327128 1 . W14 20	-											
BW1-3 3791-08 1902/21 · · Purg 81:83 · · · · · BW1-3 3791-08 110/201 ·				74.65	68.66	5.99	3721.28	-	-	-	-	-
BW1-33 3791.08 111/021 751.8 68.73 6.40 3721.12 61.83 .	RW-13	3791.08	9/29/21	71.46	68.85	2.61	3721.73	81.83	-	-	-	-
BVN-10 129/121 1-1 Pum F1.80 1-1 1-1 1-1 RV0-14 3705.02 211/20 77.16 60.94 10.22 3722.26 81.46 - </td <td></td> <td>3791.08</td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>		3791.08		-		-			-	-	-	-
White The set of the set o												
NV-14 3790.22 4/21/20 77.16 66.84 10.22 372.204 . . . <td>RW-13</td> <td>3791.08</td> <td>12/21/21</td> <td>-</td> <td>-</td> <td>-</td> <td>Pump</td> <td>81.83</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	RW-13	3791.08	12/21/21	-	-	-	Pump	81.83	-	-	-	-
NV-14 3790.22 4/21/20 77.16 66.84 10.22 372.204 . . . <td>RW-14</td> <td>3700.02</td> <td>2/11/20</td> <td>73.69</td> <td>67.48</td> <td>6.21</td> <td>3722.26</td> <td>81.46</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	RW-14	3700.02	2/11/20	73.69	67.48	6.21	3722.26	81.46	-	-	-	-
RW-14 3790.92 4/3200 -												
RW-48 3790.92 61/1020 .								-	-	-	-	-
RW-14 3790.92 F728/20 - - - -												
RW-44 37002 827700 .												
RW-14 379.069 914/20 74.74 67.80 6.94 3721.57 <				-	-							
RW-14 ST0063 10/2920 T6.77 67.42 9.36 ST21.49 .				74.74	67.80							
RW-14 3791.08 1/2521 . RW+14 3781.08 <th< td=""><td>RW-14</td><td>3790.69</td><td>10/29/20</td><td>76.77</td><td>67.42</td><td>9.35</td><td>3721.49</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></th<>	RW-14	3790.69	10/29/20	76.77	67.42	9.35	3721.49	-	-	-	-	-
RW-14 3706.99 2/821 7.65.5 67.71 8.84 3721.30 79.41 .	-			-	-	-	-	-	-	-	-	-
RW-14 3791.06 32221 . . .												
RW-14 3791.08 5/321 . RW-14 <												
RW-14 3791.08 5/10/21 7.4.93 68.20 6.73 3721.60 . RW-143791.08 </td <td></td>												
RW-14 3731.08 72821 . . .												
RW-14 3731.08 9232.1 76.22 68.63 7.59 3721.01 79.41 - - - - RW-14 3791.08 1027/21 75.30 68.66 6.64 3721.16 79.41 -				-			-	-	-	-	-	-
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	RW-14	3791.08	8/10/21	75.88	68.51	7.37	3721.17	-	-	-	-	-
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		3791.08			68.63	7.59	3721.01		-	-	-	-
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $									-	-	-	-
RW-15 3789.74 212820 . RW-153789743787437874 </td <td></td>												
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	RW-14	3791.08	12/21/21	75.39	68.75	6.64	3721.07	79.41	-	-	-	-
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	RW-15	3789.74	2/28/20	-	-	-	-	-	-	-	45	-
RW-15 3789.74 4/28/20 67.71 - 0.00 3722.03 - - - - - RW-15 3789.74 6/19/20 67.72 67.70 0.02 3722.04 -	RW-15			67.53	-	0.00	3722.21	90.89	-	-		-
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					67.64							
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					-							
RW-15 3789.74 7/29/20 68.00 67.75 0.25 3721.94 - - - - - RW-15 3789.74 92/720 68.11 67.95 0.26 3721.74 -												
$\begin{array}{c c c c c c c c c c c c c c c c c c c $								-	-	-	-	-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $								-	-	-	-	-
RW-15 3789.74 12/7/20 68.59 68.07 0.52 3721.57 -								-	-	-	-	-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $								-				-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $								-				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	RW-15	3789.74	2/8/21	68.84	68.21	0.63	3721.41	90.85	-	-	-	-
RW-15 3789.74 5/10/21 69.12 68.37 0.75 3721.23 -												
$\begin{array}{c c c c c c c c c c c c c c c c c c c $												
$\begin{array}{c c c c c c c c c c c c c c c c c c c $												
RW-15 3789.74 10/27/21 69.70 68.68 1.02 3720.87 90.85 - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>								-	-	-	-	-
RW-15 3789.74 11/10/21 69.72 68.68 1.04 3720.86 90.85 - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td>										-		-
RW-15 3789.74 12/21/21 70.11 68.74 1.37 3720.74 90.85 - <td></td>												
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 3/12/20 69.54 67.70 1.84 3721.65 90.9 -		0.00.14						50.00				
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 8/27/20 -	RW-16						-	-	-	-		-
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					-		-	-				-
	RW-16	3789.70	1/25/21	-	-	-	-	-	-	-	-	-

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

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 RW-16	3789.70	5/3/21	- 73.32	-	-	-	-	-	-	-	-
RW-16 RW-16	3789.70 3789.70	5/10/21 7/28/21	-	68.10 -	5.22	3720.61	-	-	-	-	-
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 RW-17	3790.62 3790.62	4/28/20 5/12/20	69.61 70.30	67.84 67.70	1.77 2.60	3722.44 3722.43	-	-	-	-	-
RW-17 RW-17	3790.62	6/19/20	70.30	67.27	5.48	3722.43	-		-	-	-
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 3721.41	-	-	-	-	-
RW-17 RW-17	3790.62 3790.62	7/28/21 8/10/21	74.13 74.16	68.05 68.09	6.08 6.07	3721.41	-	-	-	-	-
RW-17	3790.62	9/29/21	74.10	68.18	6.12	3721.38	90.85	-		-	-
RW-17	3790.62	10/27/21	74.33	68.22	6.11	3721.20	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 RW-18	3790.85 3790.85	6/19/20 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 RW-18	3790.85 3790.85	7/28/21 8/10/21	- 75.09	- 68.25	- 6.84	- 3721.30	-	-	-	-	-
RW-18 RW-18	3790.85	9/29/21	75.09	68.25 68.35	3.98	3721.30	- 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 RW-19	3790.46	6/19/20	72.98	67.00	5.98	3722.32	-	-	-	-	-
RW-19 RW-19	3790.46 3790.46	7/29/20 8/27/20	73.15 73.24	67.06 67.10	6.09 6.14	3722.24 3722.19	-	-	-	-	-
RW-19 RW-19	3790.46	9/14/20	73.30	67.10	6.14	3722.19	-	-	-	-	
RW-19	3790.46	10/29/20	73.40	67.25	6.12	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	-	-	-	-	-

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

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-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

It is a feet below top of casing
 INAPL - Light non-aqueous phase liquid.
 fbgs - Feet below ground surface.
 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.

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

			New Mexico		
		Benzene	Toluene	Ethylbenzene	
		(mg/L)	(mg/L)	(mg/L)	Total Xylenes
Sample ID	Sample Date			an Health Standai	
		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
$1000^{-1}21(D00^{-2})$	J/14/21	<0.000130	NUUUU 412	<0.000100	<0.000310

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

Sample ID Sample ID MW-12R MW-12R MW-12R MW-16R MW-16R MW-16R	ample Date 8/11/21 11/11/21 2/13/20 5/14/20 9/17/20 11/2/20 2/22/21 2/22/21 5/14/21 8/11/21 11/11/21 2/13/20 5/14/20 9/18/20 11/2/20	Benzene (mg/L) 0.01 0.000811 0.000135 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190	0.75 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412	Ethylbenzene (mg/L) an Health Standar 0.75 0.000211 B J 0.000300 B J <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160	Cotal Xylenes ol.62 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510
MW-12R MW-12R MW-16R	8/11/21 11/11/21 2/13/20 5/14/20 9/17/20 11/2/20 2/22/21 2/22/21 2/22/21 5/14/21 8/11/21 11/11/21 2/13/20 5/14/20 9/18/20	0.01 0.000811 0.000135 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190	IMWQCC Hum 0.75 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412	an Health Standar 0.75 0.000211 B J 0.000300 B J <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160	ds 0.62 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510
MW-12R MW-12R MW-16R	8/11/21 11/11/21 2/13/20 5/14/20 9/17/20 11/2/20 2/22/21 2/22/21 2/22/21 5/14/21 8/11/21 11/11/21 2/13/20 5/14/20 9/18/20	0.01 0.000811 0.00135 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190	0.75 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412	0.75 0.000211 B J 0.000300 B J <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160	0.62 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510
MW-12R MW-16R MW-16R MW-16R MW-16R MW-16R MW-16R MW-16R MW-16R	11/11/21 2/13/20 5/14/20 9/17/20 11/2/20 2/22/21 2/22/21 5/14/21 8/11/21 11/11/21 2/13/20 5/14/20 9/18/20	0.000811 0.00135 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190	<0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412	0.000211 B J 0.000300 B J <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160	<0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510
MW-12R MW-16R MW-16R MW-16R MW-16R MW-16R MW-16R MW-16R MW-16R	11/11/21 2/13/20 5/14/20 9/17/20 11/2/20 2/22/21 2/22/21 5/14/21 8/11/21 11/11/21 2/13/20 5/14/20 9/18/20	0.00135 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190	<0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412	0.000300 B J <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160	<0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510
MW-16R MW-16R MW-16R MW-16R MW-16R MW-16R MW-16R MW-16R	2/13/20 5/14/20 9/17/20 11/2/20 2/22/21 2/22/21 5/14/21 8/11/21 11/11/21 2/13/20 5/14/20 9/18/20	<0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190	<0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412	<0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160	<0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510
MW-16R MW-16R MW-16R MW-16R MW-16R (DUP-1) MW-16R MW-16R	5/14/20 9/17/20 11/2/20 2/22/21 2/22/21 5/14/21 8/11/21 11/11/21 2/13/20 5/14/20 9/18/20	<0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190	<0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412	<0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160	<0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510
MW-16R MW-16R MW-16R MW-16R MW-16R (DUP-1) MW-16R MW-16R	5/14/20 9/17/20 11/2/20 2/22/21 2/22/21 5/14/21 8/11/21 11/11/21 2/13/20 5/14/20 9/18/20	<0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190	<0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412	<0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160	<0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510
MW-16R MW-16R MW-16R MW-16R MW-16R (DUP-1) MW-16R MW-16R	5/14/20 9/17/20 11/2/20 2/22/21 2/22/21 5/14/21 8/11/21 11/11/21 2/13/20 5/14/20 9/18/20	<0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190	<0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412	<0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160	<0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510
MW-16R MW-16R MW-16R MW-16R (DUP-1) MW-16R MW-16R	9/17/20 11/2/20 2/22/21 2/22/21 5/14/21 8/11/21 11/11/21 2/13/20 5/14/20 9/18/20	<0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190	<0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412	<0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160	<0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510
MW-16R MW-16R MW-16R (DUP-1) MW-16R MW-16R	11/2/20 2/22/21 2/22/21 5/14/21 8/11/21 11/11/21 2/13/20 5/14/20 9/18/20	<0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190	<0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412	<0.000160 <0.000160 <0.000160 <0.000160 <0.000160 <0.000160	<0.000510 <0.000510 <0.000510 <0.000510 <0.000510 <0.000510
MW-16R MW-16R (DUP-1) MW-16R MW-16R	2/22/21 2/22/21 5/14/21 8/11/21 11/11/21 2/13/20 5/14/20 9/18/20	<0.000190 <0.000190 <0.000190 <0.000190 <0.000190 <0.000190	<0.000412 <0.000412 <0.000412 <0.000412 <0.000412 <0.000412	<0.000160 <0.000160 <0.000160 <0.000160 <0.000160	<0.000510 <0.000510 <0.000510 <0.000510 <0.000510
MW-16R (DUP-1) MW-16R MW-16R	2/22/21 5/14/21 8/11/21 11/11/21 2/13/20 5/14/20 9/18/20	<0.000190 <0.000190 <0.000190 <0.000190 <0.000190	<0.000412 <0.000412 <0.000412 <0.000412 <0.000412	<0.000160 <0.000160 <0.000160 <0.000160	<0.000510 <0.000510 <0.000510 <0.000510
MW-16R MW-16R	5/14/21 8/11/21 11/11/21 2/13/20 5/14/20 9/18/20	<0.000190 <0.000190 <0.000190 <0.000190	<0.000412 <0.000412 <0.000412 <0.000412	<0.000160 <0.000160 <0.000160	<0.000510 <0.000510 <0.000510
MW-16R	8/11/21 11/11/21 2/13/20 5/14/20 9/18/20	<0.000190 <0.000190 <0.000190	<0.000412 <0.000412 <0.000412	<0.000160 <0.000160	<0.000510 <0.000510
	11/11/21 2/13/20 5/14/20 9/18/20	<0.000190 <0.000190	<0.000412 <0.000412	<0.000160	<0.000510
MVV-16R	2/13/20 5/14/20 9/18/20	<0.000190	<0.000412		
	5/14/20 9/18/20			<0.000160	<0.000510
1011 4-5	5/14/20 9/18/20			<0.000160	
MW-17R	9/18/20	<0.000190			
MW-17R			<0.000412	< 0.000160	<0.000510
MW-17R	11/2/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-17R		<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
	11/11/21	<0.000190	<0.000412	<0.000100	<0.000310
MW-19R	2/13/20	<0.000190	<0.000412	<0.000160	<0.000510
	2/13/20 5/14/20		<0.000412	<0.000160	<0.000510 <0.000510
MW-19R		<0.000190			
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
MW-20R MW-20R MW-20R	5/14/20 9/17/20 11/2/20	<0.000190 <0.000190 <0.000190	<0.000412 <0.000412 <0.000412	<0.000160 <0.000160 <0.000160	<0.000510 <0.000510 <0.000510

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

		Lea County,			
		Benzene	Toluene	Ethylbenzene	
		(mg/L)	(mg/L)	(mg/L)	Total Xylenes
Sample ID	Sample Date		IMWQCC Hum	an Health Standai	rds
		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
	11/11/21	<0.000100	V0.000 412	<0.000100	<0.000010
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
10100-24	11/11/21	<0.000130	<0.000412	<0.000100	<0.000310
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 (DOF-2) 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
10100-20	11/11/21	<0.000190	<0.00041Z	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	C0.000510
	2/11/20	0.00470	0.00242 P	0 00600	0.061
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

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

		Benzene	Toluene	Ethylbenzene	
		(mg/L)	(mg/L)	(mg/L)	Total Xylenes
Sample ID	Sample Date	٨	IMWQCC Hum	an Health Standar	ds
		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(a)pyrene (mg/L)	Benzo(b)fluoranthene (mg/L)	Benzo(g,h,')perylene (mg/L)	Benzo(k)filuoranthene (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)
			1								OCD Regulatory Sta		1		1	1		1		
		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	
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	<0.0000396	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	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.00262	<0.000917	0.00767	<0.000917	0.0328	<0.000917	0.0427	<0.000917	0.0779	0.137	0.194
	-	1									1		1		1					
MW-6	11/29/18	0.000306	0.000311	<0.0000120	<0.00000410	<0.0000116	0.0000189 J	0.0000137 J	< 0.0000136	< 0.0000108	< 0.0000396	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	<0.00000410	<0.0000116	<0.0000212	<0.0000227	<0.000136	<0.0000108	<0.0000396	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	<0.00000410	<0.0000116	<0.0000212	<0.0000227	<0.0000136	<0.0000108	<0.0000396	0.00028	<0.0000157	<0.0000850	<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	<0.0000212	<0.0000227	<0.0000136	<0.0000108	<0.0000396	0.00000667 B J	<0.0000157	<0.000085	<0.0000148	<0.0000820	<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
N#N/ 0	44/05/00	0.000404	0.000404	0.00460	0.000404	0.0004.04	0.0004.04	0.000404	0.0004.04	0.00470	0.000404	0.00570	0.0004.04	0.00040	0.000404	0.0404	0.0004.04	0.00044	0.0054	0.440
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	<0.0000227	<0.0000136	<0.0000108	<0.0000396	0.00000847 B J	<0.0000157	<0.0000850	<0.0000148	0.0000133 J	<0.0000117	0.0000307 B J	<0.0000821	<0.0000902
MW-12R	10/24/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000214 3	<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 MW-16R	11/02/20 11/11/21	<0.0000190 <0.0000190	<0.0000190 <0.0000190	<0.0000171 <0.0000171	<0.0000203 <0.0000203	<0.0000184 <0.0000184 J3	<0.0000168 <0.0000168	<0.0000184 <0.0000184 J3	<0.0000202 <0.0000202 J3	<0.0000179 <0.0000179	<0.0000160 <0.0000160 J3	<0.0000191 <0.0000191	<0.0000270 <0.0000270	<0.0000169 <0.0000169	<0.0000158 <0.0000158 J3	<0.0000180 <0.0000180	<0.0000169 <0.0000169	<0.0000917 <0.0000917	<0.0000687 <0.0000687	<0.0000674 <0.0000674
	11/11/21	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184 33	<0.0000108	<0.0000184 33	<0.0000202 33	<0.0000179	<0.0000100 33	<0.0000191	<0.0000270	<0.0000109	<0.0000158 33	<0.0000180	<0.0000109	<0.0000917	<0.000087	<0.0000074
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	<0.00000410	<0.0000116	<0.0000212	<0.0000227	<0.0000136	<0.0000108	<0.0000396	0.00000623 B J	<0.0000157	<0.0000850	<0.0000148	0.0000952 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		<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	< 0.0000396	0.00000399 B J	<0.0000157	<0.0000850	<0.0000148	<0.0000820	<0.0000117	0.0000460 B J	<0.0000821	<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	12/11/14	<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 <0.000196	<0.000186	<0.000186	<0.000186
		•									•		•			•				
MW-21R		<0.0000190	<0.0000190	<0.0000171	<0.0000203	< 0.0000184	< 0.0000168	<0.0000184	<0.0000202	< 0.0000179	<0.0000160	<0.000191	<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	<0.00000410	<0.0000116	<0.0000212	<0.0000227	<0.0000136	<0.0000108	<0.0000396	0.00000399 B J	<0.0000157	<0.0000850	<0.0000148	<0.0000820	<0.0000117	0.0000537 B J	<0.0000821	<0.0000902
MW-22	10/24/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.0000212	<0.0000227	<0.0000136	<0.0000108	<0.0000396	0.00000625 B J	<0.0000157	<0.0000850	<0.0000148	<0.0000820	<0.0000117	0.0000362 B J	0.0000126 B J	0.0000132 B J
MW-24	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-24	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
MMA OF	11/02/20	-0.0000100	-0.0000100	-0.0000171	<0.0000202	-0.0000184	<0.0000168	-0.0000184	<0.0000000	-0.0000170	<0.0000160	-0.0000101	<0.0000270	-0.0000160	-0.0000159	-0.0000180	<0.0000160	<0.0000017	-0.0000697	<0.0000674
MW-25 MW-25	11/02/20 11/11/21	<0.0000190 <0.0000190	<0.0000190 <0.0000190	<0.0000171 <0.0000171	<0.0000203 <0.0000203	<0.0000184 <0.0000184 J3	<0.0000168	<0.0000184 <0.0000184 J3	<0.0000202 <0.0000202 J3	<0.0000179 <0.0000179	<0.0000160 <0.0000160 J3	<0.0000191 <0.0000191	<0.0000270 <0.0000270	<0.0000169 <0.0000169	<0.0000158 <0.0000158 J3	<0.0000180 <0.0000180	<0.0000169 <0.0000169	<0.0000917 <0.0000917	<0.0000687 <0.0000687	<0.0000674 <0.0000674
		1									1		1		1					
RW-3	11/25/08	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.0218	<0.000917	0.0633	<0.000917	0.0966	<0.000917	0.129	<0.000917	0.400	0.888	1.31
RW-3	12/08/09	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	0.0506	<0.00183	0.130	<0.00183	0.210	<0.00183	0.321	<0.00183	1.02	2.27	3.29
RW-4	12/08/09	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.00224	<0.000183	0.00772	<0.000183	0.011	<0.000183	0.0161	<0.000183	0.0801	0.134	0.184
RW-5	11/25/08	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.013	<0.000917	0.0218	<0.000917	0.0273	<0.000917	0.132	0.17	0.254
												0.010		0.0210		0.0210		0.102		

11209885

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Table 3

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

0.03 0.338 0.726 1.07
0.338 0.726 1.07
0.564 1.33 1.93
0.175 0.327 0.462
0.477 1.07 1.55
3.95 9.15 13.1
0.00 0.10 10.1
1.17 2.87 4.15
2.16 5.04 7.19
0.294 0.587 0.841
0.402 0.890 1.24
0.0478 0.0674 0.0898
0.145 0.322 0.441
0.000138 B J 0.0000167 J <0.00009
0.0000393 B J <0.0000189 <0.00001
-

Notes:

 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.

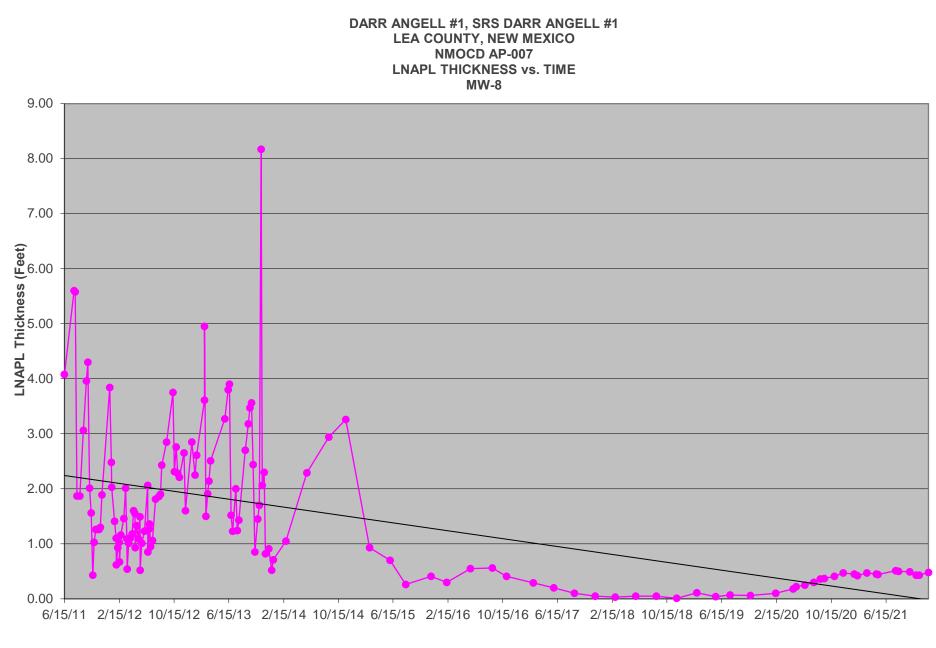
 5. Flag J indicates the identification of the analyte is acceptable and the reported result is an estimate.

 6. Flag B indicates the same analyte is found in the associated blank.

 7. Regulaotry standards of 0.001 mg/L noted above are requirements of the NMOCD. Other standards are required by NMAC 20.6.2.3103 Section A..

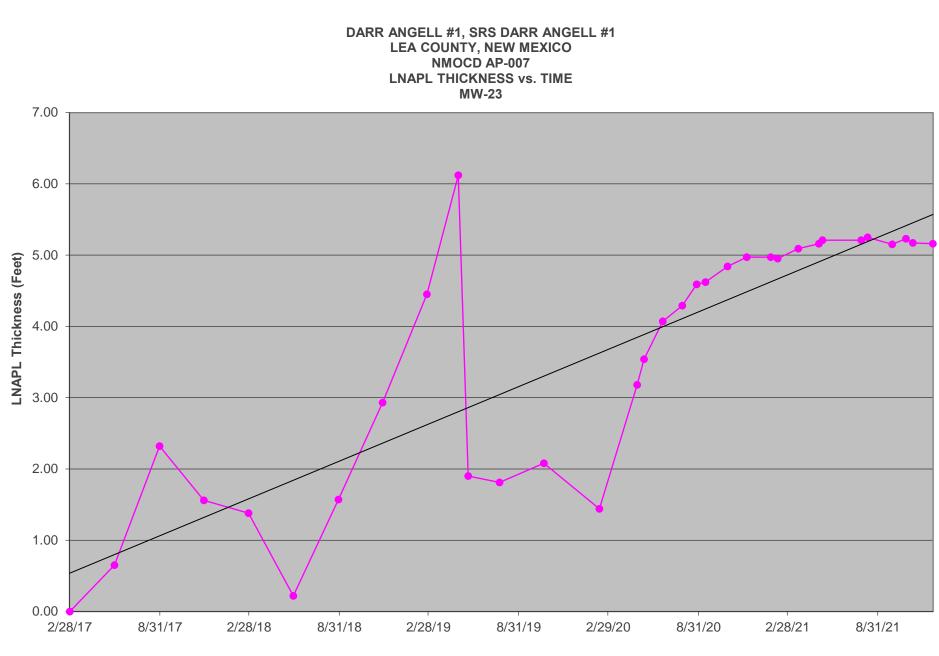
Appendix A Charts of LNAPL Thickness Versus Time

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Date

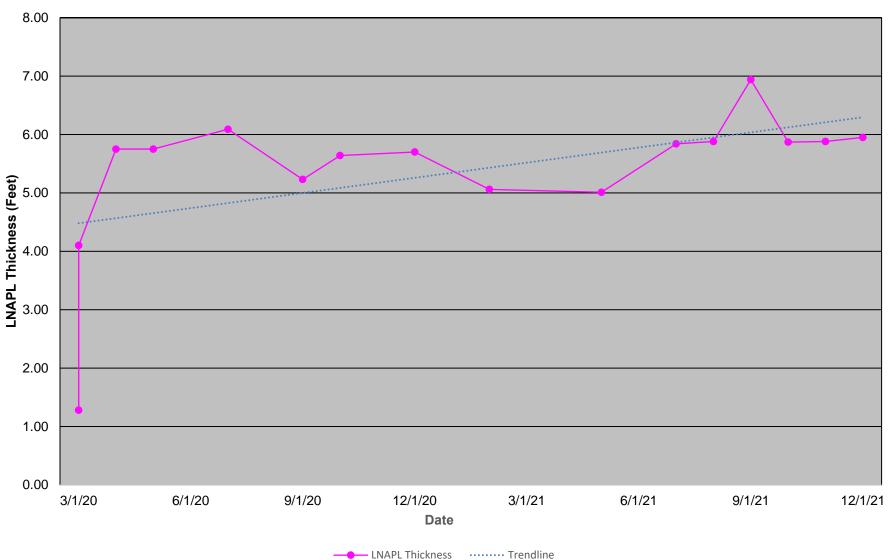
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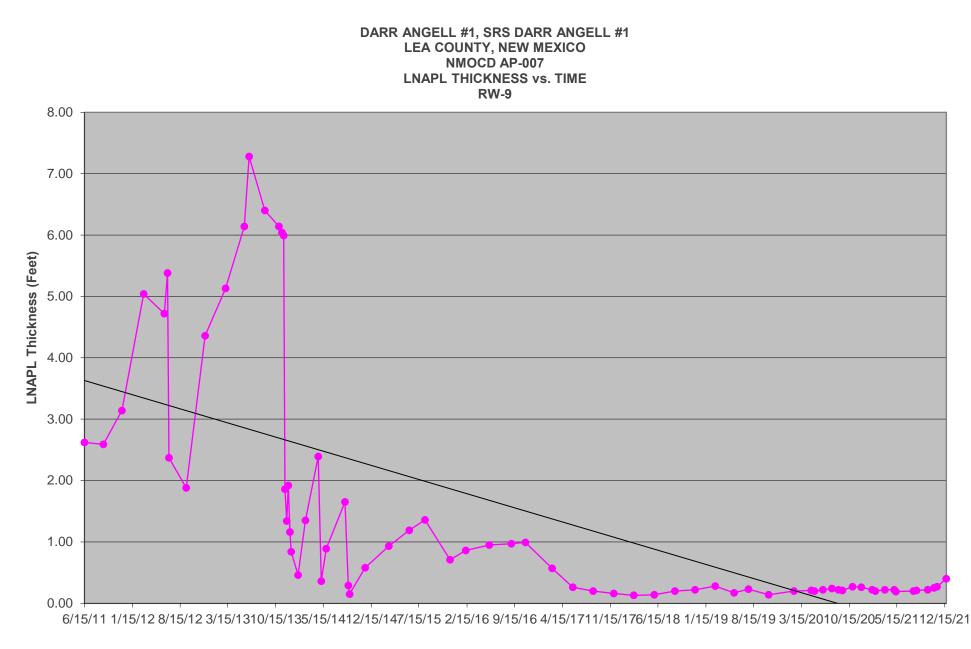


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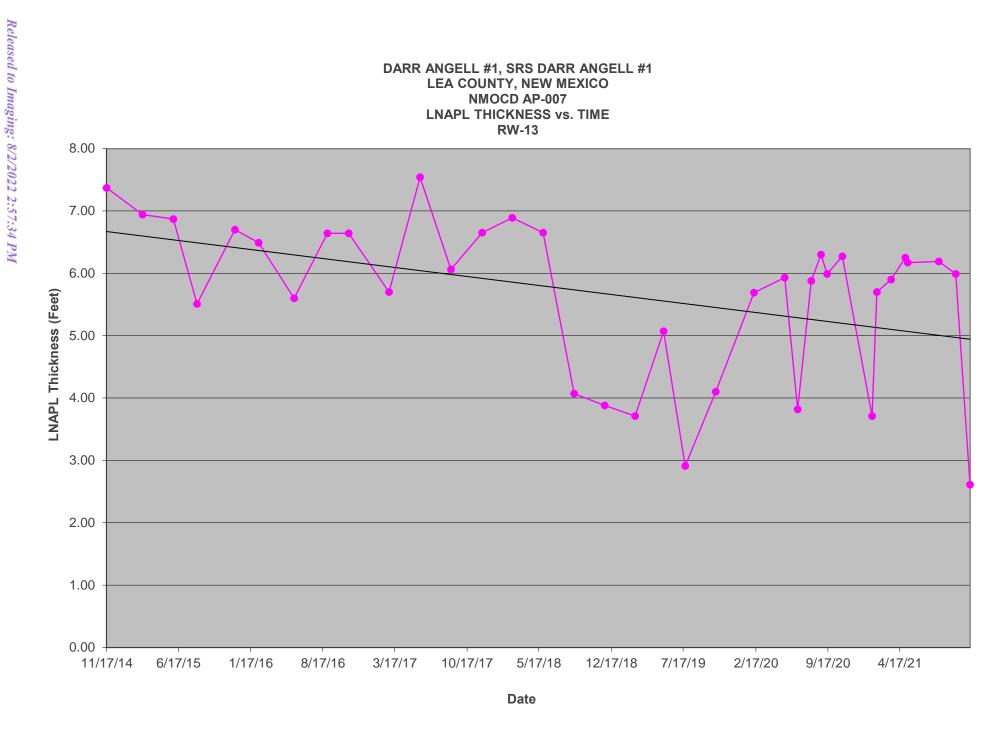
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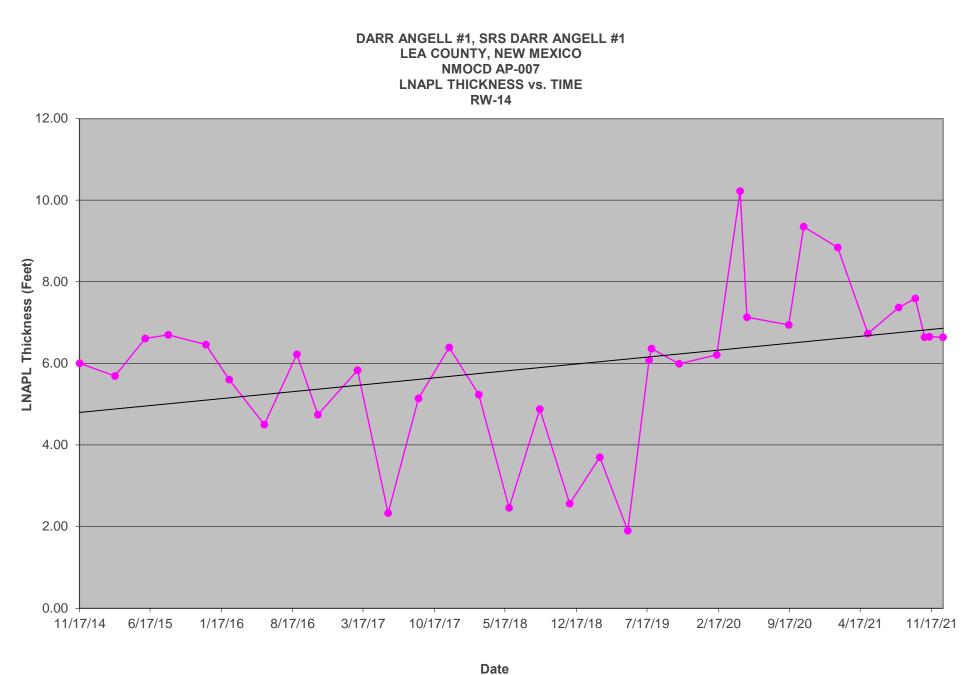
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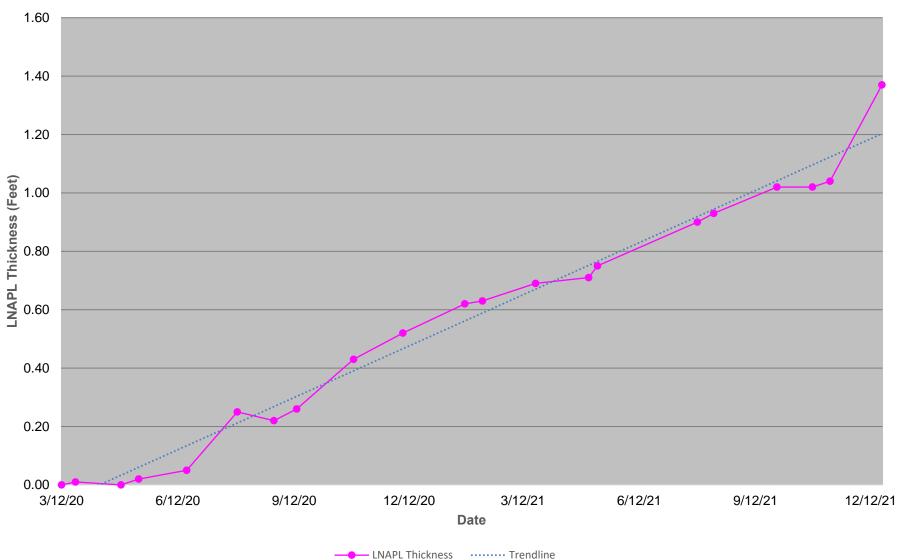


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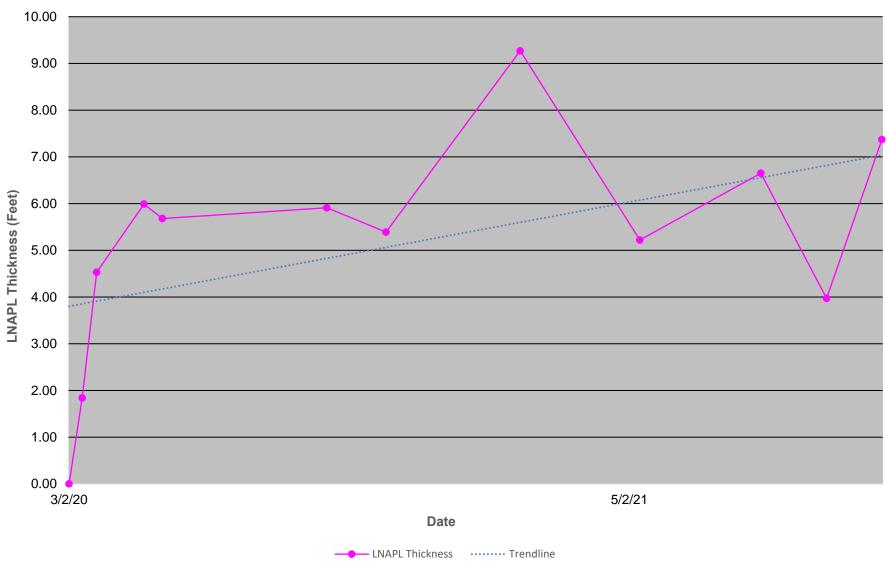


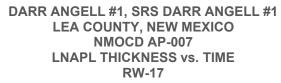


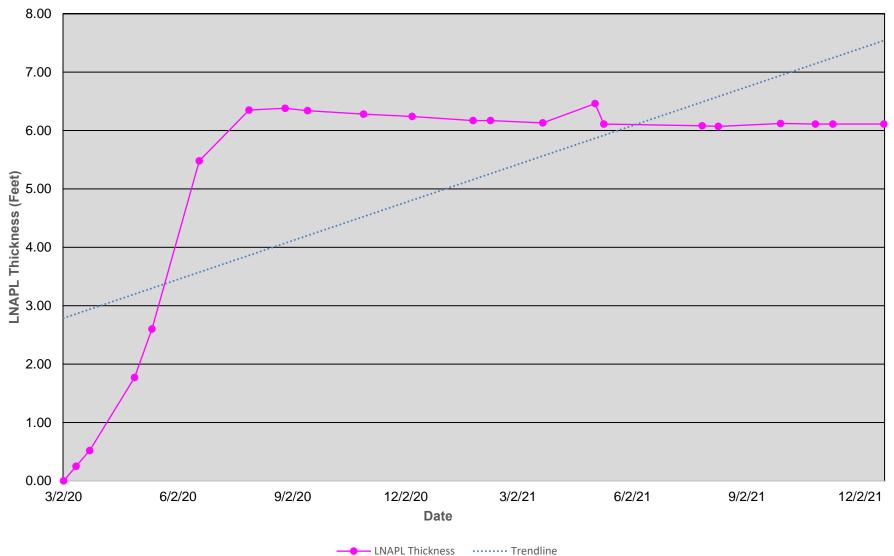
DARR ANGELL #1, SRS DARR ANGELL #1 LEA COUNTY, NEW MEXICO NMOCD AP-007 LNAPL THICKNESS vs. TIME RW-15



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

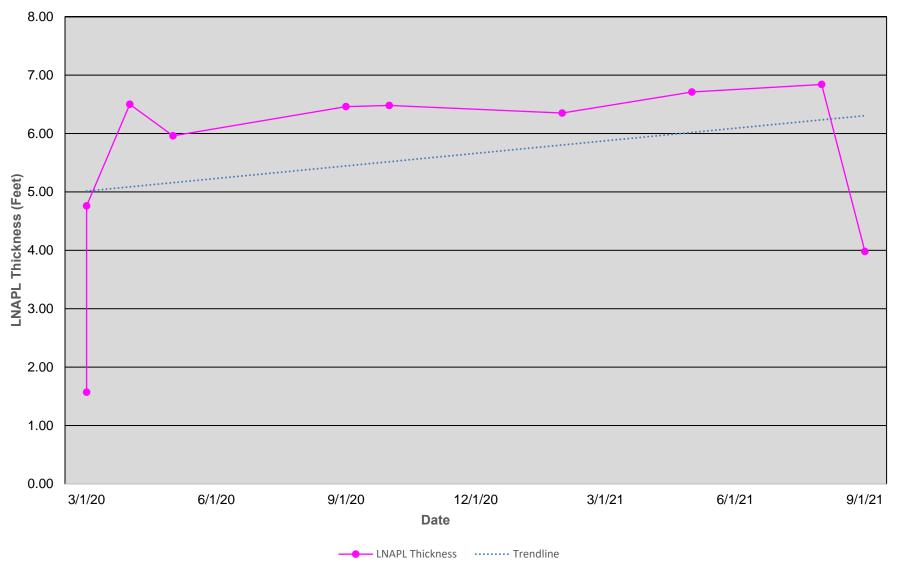




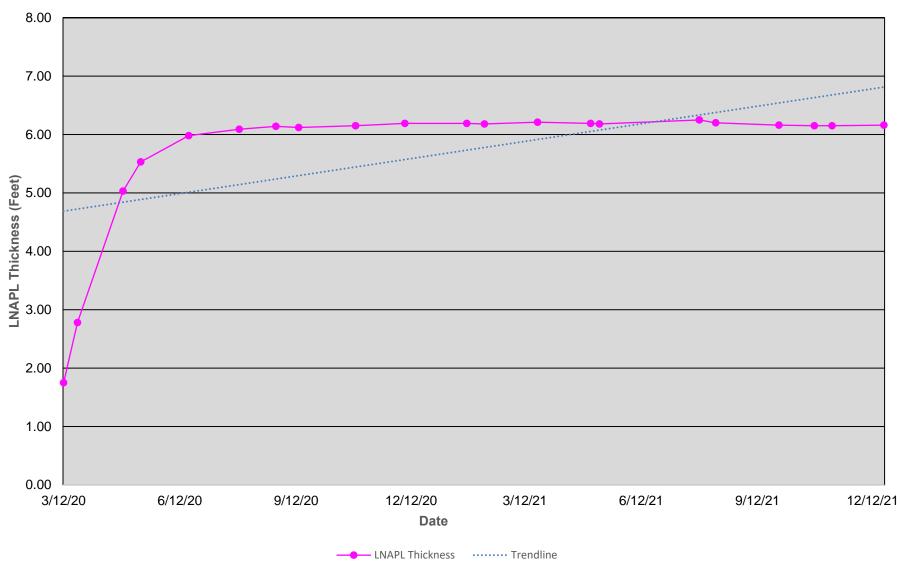


DARR ANGELL #1, SRS DARR ANGELL #1 LEA COUNTY, NEW MEXICO NMOCD AP-007 LNAPL THICKNESS vs. TIME RW-18

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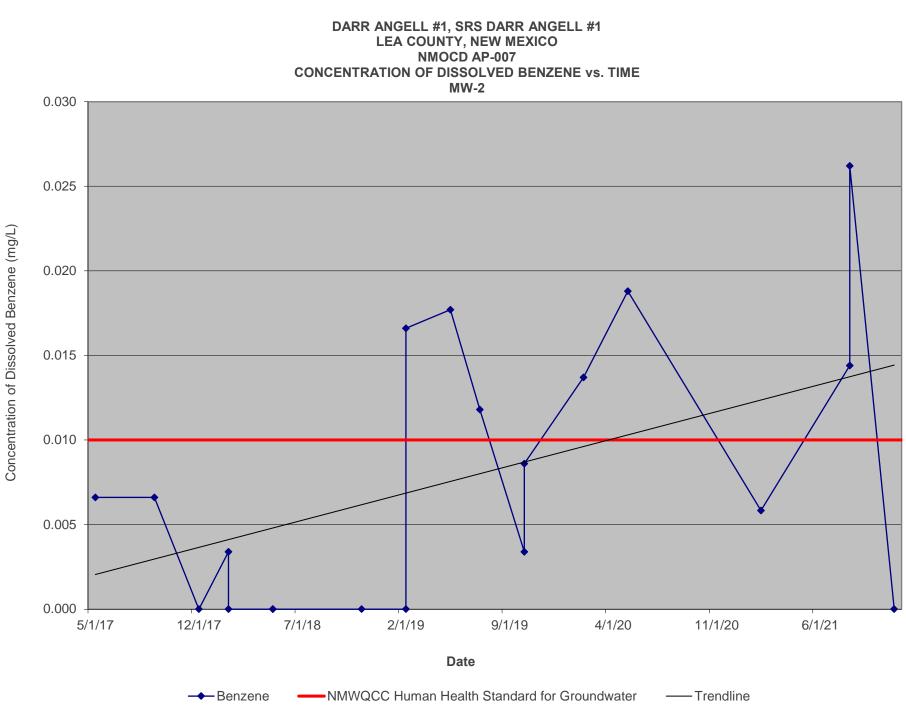


DARR ANGELL #1, SRS DARR ANGELL #1 LEA COUNTY, NEW MEXICO NMOCD AP-007 LNAPL THICKNESS vs. TIME RW-19

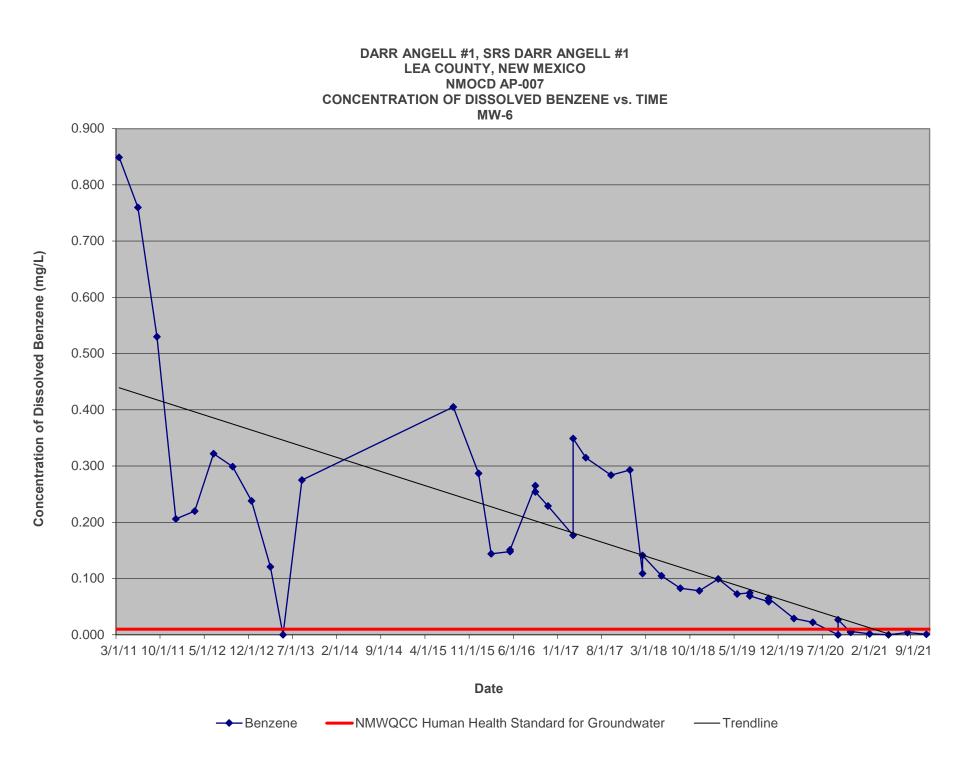


Appendix B Charts of Dissolved Benzene Concentrations Versus Time

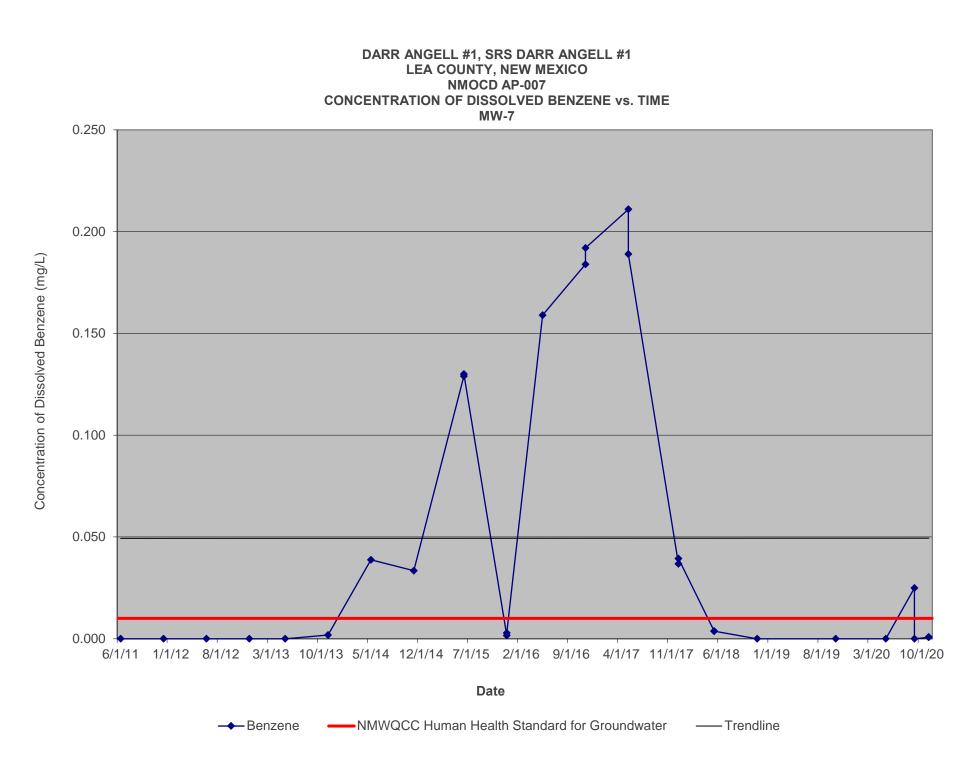
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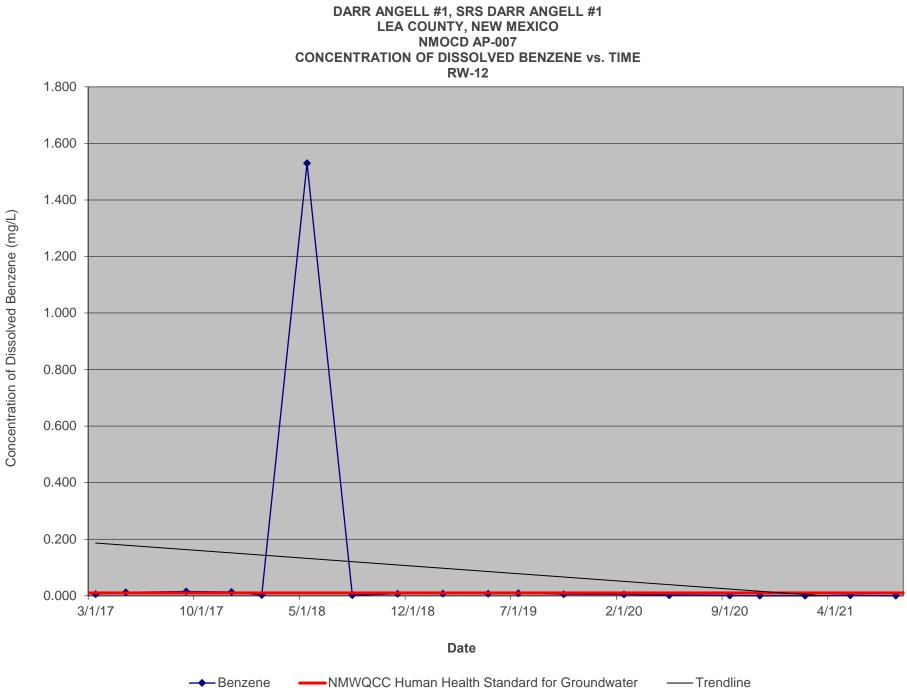
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Attachment C Certified Laboratory Analytical Reports and Chain-of-Custody Documentation

Received by OCD: 3/22/2022 12:13:44 PM



ANALYTICAL REPORT March 08, 2021

L1320377

Plains All American, LP - GHD

Sample Delivery Group: Samples Received:

Entire Report Reviewed By:

02/26/2021

Description:

Project Number:

Site:

Report To:

Darr Angell #1 SRS Darr Angell #1
SRS DARR ANGELL #1
Becky Haskell
2135 S Loop 250 W
Midland, TX 79703

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

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

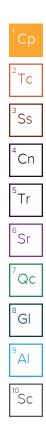
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PROJECT:

SDG: L1320377 DATE/TIME:

03/08/21 16:45

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SDG: L1320377 DATE/TIME: 03/08/21 16:45

1 IME: 1 16:45 PAGE: 2 of 32 Received by OCD: 3/22/2022 12:13:44 PM

SAMPLE SUMMARY

ONE LAB. NAT Rage 64 of 245

Ср

Тс

Ss

Cn

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	SAM EE	501011					
MW-11R L1320377-01 GW			Collected by Heath Boyd	Collected date/time 02/22/21 09:45	Received da 02/26/21 08		
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	
MW-16R L1320377-02 GW			Collected by Heath Boyd	Collected date/time 02/22/21 11:30	Received da 02/26/21 08		
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 byCollected date/timeHeath Boyd02/22/21 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	e 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 02/22/2112:30	Received da 02/26/21 08		
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 da 02/26/21 08		
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 da 02/26/21 08		
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	

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SDG: L1320377 DATE/TIME: 03/08/21 16:45

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SAMPLE SUMMARY

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MW-24 L1320377-09 GW			Collected by Heath Boyd	Collected date/time 02/22/21 10:20	Received da 02/26/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
/olatile Organic Compounds (GC) by Method 8021B	WG1626734	1	03/01/21 08:31	03/01/21 08:31	ACG	Mt. Juliet, TN	
MW-25 L1320377-10 GW			Collected by Heath Boyd	Collected date/time 02/22/21 12:10	Received da 02/26/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
/olatile 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 byCollected date/tilHeath Boyd02/22/2110:55		e Received date/time 02/26/21 08:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
/olatile 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	e Received date/time 02/26/21 08:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
/olatile 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 byCollected date/timHeath Boyd02/22/2114:30		e Received date/time 02/26/21 08:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
/olatile 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 02/22/2115:00	e Received date/time 02/26/21 08:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
/olatile Organic Compounds (GC) by Method 8021B	WG1630109	1	03/05/2122:40	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 da 02/26/2108		
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 da 02/26/2108		
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	

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SDG: L1320377 DATE/TIME: 03/08/21 16:45

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CASE NARRATIVE

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

h

Mark W. Beasley Project Manager



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:
 - 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:
 - 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

Lab	orato	ory Name: Pace Analytical National	LRC Date: 03/08/2021 16:45				
Pro	ject N	Name: Darr Angell #1 SRS Darr Angell #1	Laboratory Job Number: L1320377-01, 02, 03, 04, 05 15 and 16	, 06, 07,	08, 09, 10,	11, 12, <i>1</i>	13, 14,
Rev	viewe	r Name: Mark W. Beasley	Prep Batch Number(s): WG1626734, WG1630109 and	WG1630	718		
1	A ²	Description		Yes	No NA ³	NR⁴	ER#
1	OI	Chain-of-custody (C-O-C)			-		
		Did samples meet the laboratory's standard condition	ons of sample acceptability upon receipt?	X		Т	
		Were all departures from standard conditions descr			X		
2	OI	Sample and quality control (QC) identification					-
_	0	Are all field sample ID numbers cross-referenced to	the laboratory ID numbers?	X		T	1
		Are all laboratory ID numbers cross-referenced to the	· · · · · · · · · · · · · · · · · · ·	X		+	
3	OI	Test reports				1	-
5		Were all samples prepared and analyzed within hold	ding times?	X		1	1
		Other than those results < MQL, were all other raw v	X		-		
		Were calculations checked by a peer or supervisor?		X		+	
				X		+	-
		Were all analyte identifications checked by a peer o Were sample detection limits reported for all analyte	-	X		+	
				X		+	
		Were all results for soil and sediment samples report					
		Were % moisture (or solids) reported for all soil and			X		-
		Were bulk soils/solids samples for volatile analysis e	extracted with methanol per SW846 Method 5035?		X		
		If required for the project, are TICs reported?			X		
84	0	Surrogate recovery data				T	-
		Were surrogates added prior to extraction?		X			
_		Were surrogate percent recoveries in all samples w	ithin the laboratory QC limits?	X			
25	OI	Test reports/summary forms for blank samples		<u>г г</u>		.	1
		Were appropriate type(s) of blanks analyzed?		X			
		Were blanks analyzed at the appropriate frequency		X			
			tical process, including preparation and, if applicable,	X			
		cleanup procedures? Were blank concentrations < MQL?		x		+	-
76		Laboratory control samples (LCS):				I	I
10	_			X		T	1
		Were all COCs included in the LCS?	readure including prep and cleanup stops?	X		+	
		Was each LCS taken through the entire analytical pr	ocedure, including prep and cleanup steps:	X		+	
		Were LCSs analyzed at the required frequency?		X		+	-
		Were LCS (and LCSD, if applicable) %Rs within the la	•				
		used to calculate the SDLs?	t the laboratory's capability to detect the COCs at the MDL	X			
		Was the LCSD RPD within QC limits?		X			
87	OI	Matrix spike (MS) and matrix spike duplicate (MSD)	data			1	<u> </u>
.,		Were the project/method specified analytes include		X		1	1
		Were MS/MSD analyzed at the appropriate frequence		X			
		Were MS (and MSD, if applicable) %Rs within the lab	•	X		+	
		Were MS/MSD RPDs within laboratory QC limits?		X		+	
85	01	Analytical duplicate data				<u> </u>	I
10		Were appropriate analytical duplicates analyzed for	each matrix?	гт	X	T	1
		Were analytical duplicates analyzed to Were analytical duplicates analyzed to a			×		
		Were RPDs or relative standard deviations within the			X	-	
29	OI	Method quantitation limits (MQLs):			^	I	<u> </u>
19		Are the MQLs for each method analyte included in t	ha labaratary data packaga?	X		1	1
		Do the MQLs for each method analyte included in t		X		+	-
				X		+	-
10		Are unadjusted MQLs and DCSs included in the lab	Dialory data package:				<u> </u>
210	OI	Other problems/anomalies	as noted in this LDC and ED2			T	
		Are all known problems/anomalies/special condition		X		+	
		Was applicable and available technology used to lo the sample results?	wer the SDL to minimize the matrix interference effects on	X			1
		•	Laboratory Accreditation Program for the analytes, matrices			+	1
		and methods associated with this laboratory data pa		Х			
shou 2. O 3. N	ld be r = orga A = No	ntified by the letter "R" must be included in the laborater etained and made available upon request for the app anic analyses; I = inorganic analyses (and general che t applicable; t reviewed;		Items ide	entified by th	ne letter	"S"

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Labo	rato	ory Name: Pace Analytical National	LRC Date: 03/08/2021 16:45								
Proje	ect N	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								
Revie	ewe	r Name: Mark W. Beasley	Prep Batch Number(s): WG1626734, WG1630109 and WG1630718								
# ¹	A ²	Description	•	Yes	No	NA ³	NR ⁴	ER#			
51	OI	Initial calibration (ICAL)									
		Were response factors and/or relative response factor			Х						
		Were percent RSDs or correlation coefficient criteria	Х								
		Was the number of standards recommended in the m	ethod used for all analytes?	Х							
Were all points generated between the lowest and l			ghest standard used to calculate the curve?	Х							
		Are ICAL data available for all instruments used?	Х								
		Has the initial calibration curve been verified using an	Х								
2	OI	Initial and continuing calibration verification (ICCV and									
		Was the CCV analyzed at the method-required freque	ency?	Х							
		Were percent differences for each analyte within the	method-required QC limits?	Х			1	1			
		Was the ICAL curve verified for each analyte?	Х								
		Was the absolute value of the analyte concentration i			Х						
3	0	Mass spectral tuning					-				
		Was the appropriate compound for the method used	for tuning?			X		Т			
		Were ion abundance data within the method-required				Х					
4	0	Internal standards (IS)	-				-				
	-	Were IS area counts and retention times within the m	ethod-required QC limits?	X	1	1	1	Т			
5	OI	Raw data (NELAC Section 5.5.10)			1	1	·	-			
55	0.	Were the raw data (for example, chromatograms, spe	ctral data) reviewed by an analyst?	X	1	1	T	Т			
		Were data associated with manual integrations flagge		X				-			
6	0	Dual column confirmation				1					
•	0	Did dual column confirmation results meet the metho	d-required QC?		1	X	T	Т			
7	0	Tentatively identified compounds (TICs)			1						
	0	If TICs were requested, were the mass spectra and T		1	X	Т	Т				
8	1	Interference Check Sample (ICS) results		1		1					
•	•	Were percent recoveries within method QC limits?	- T	1	X	1	T				
9	1	Serial dilutions, post digestion spikes, and method of		1		1					
5	•	Were percent differences, recoveries, and the linearit		1	X	T	Т				
510 OI	OI	Method detection limit (MDL) studies		1		I					
	01	Was a MDL study performed for each reported analyt	~2	X	1	1	T	Т			
		Is the MDL either adjusted or supported by the analys		X				+			
11	OI						I				
11	0	Proficiency test reports	applicable proficiency tests or evaluation studies?	X	1	1	T	T			
12	OI	Was the laboratory's performance acceptable on the Standards documentation	applicable proficiency tests of evaluation studies?	^	1	1	1				
	0I	Are all standards used in the analyses NIST-traceable	ar obtained from other appropriate courses?	X	1	1	1	T			
10			or obtained from other appropriate sources:	^	1	I	1				
13	OI	Compound/analyte identification procedures	an da sum ante da		1	1	1	—			
		Are the procedures for compound/analyte identificati	X		I	I					
14	OI	Demonstration of analyst competency (DOC)	F2		1	1	T	T			
		Was DOC conducted consistent with NELAC Chapter		X				+			
S15 OI		Is documentation of the analyst's competency up-to-o		X							
		Verification/validation documentation for methods (N			1	T	T	1			
	<u></u>	Are all the methods used to generate the data docum	X								
	OI	Laboratory standard operating procedures (SOPs)		1	T	1					
516		Are laboratory SOPs current and on file for each meth									

NR = Not reviewed;
 RR# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Name: Pace Analytical National	RC 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" Netris identified by the letter is indicated in the abbrachy data package submits 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;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SAMPLE RESULTS - 01

Volatile Organic Compounds (GC) by Method 8021B

								Cn	
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	 Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	03/01/2021 05:35	WG1626734	Tc
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	³ Ss
Total Xylene	U		0.000510	0.00150	0.00150	1	03/01/2021 05:35	WG1626734	55
(S) a,a,a-Trifluorotoluene(PID)	104				79.0-125		03/01/2021 05:35	WG1626734	4



SAMPLE RESULTS - 02

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	03/01/2021 05:57	WG1626734	Tc
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	³ Ss
Total Xylene	U		0.000510	0.00150	0.00150	1	03/01/2021 05:57	WG1626734	00
(S) a,a,a-Trifluorotoluene(PID)	104				79.0-125		03/01/2021 05:57	WG1626734	4



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

SAMPLE RESULTS - 03

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— Ср		
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2		
Benzene	U		0.000190	0.000500	0.000500	1	03/01/2021 06:19	WG1626734	Tc		
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	³ Ss		
Total Xylene	U		0.000510	0.00150	0.00150	1	03/01/2021 06:19	WG1626734	55		
(S) a,a,a-Trifluorotoluene(PID)	105				79.0-125		03/01/2021 06:19	WG1626734	4		

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

									 I Cn
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	 Cp
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	03/01/2021 06:41	WG1626734	Tc
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	³ Sc
Total Xylene	U		0.000510	0.00150	0.00150	1	03/01/2021 06:41	WG1626734	35
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		03/01/2021 06:41	WG1626734	4

0.0
⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] Gl
⁹ Al
¹⁰ Sc

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	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

³ Ss
⁴ Cn
⁵ Tr
⁶ Sr
⁷ Qc
[°] GI
⁹ Al
¹⁰ Sc

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch		Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time			2
Benzene	U		0.000190	0.000500	0.000500	1	03/01/2021 07:25	WG1626734		Tc
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		³Ss
Total Xylene	U		0.000510	0.00150	0.00150	1	03/01/2021 07:25	WG1626734		55
(S) a,a,a-Trifluorotoluene(PID)	104				79.0-125		03/01/2021 07:25	WG1626734		4



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

SAMPLE RESULTS - 07

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch			
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		, r		
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	L		
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	-		



DATE/TIME: 03/08/21 16:45 Collected date/time: 02/22/21 14:00

SAMPLE RESULTS - 08

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	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



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

SAMPLE RESULTS - 09

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— Ср	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2	
Benzene	U		0.000190	0.000500	0.000500	1	03/01/2021 08:31	WG1626734	Tc	
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	³ Ss	
Total Xylene	U		0.000510	0.00150	0.00150	1	03/01/2021 08:31	WG1626734	55	
(S) a,a,a-Trifluorotoluene(PID)	104				79.0-125		03/01/2021 08:31	WG1626734	4	

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

SAMPLE RESULTS - 10

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch		Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2	
Benzene	U		0.000190	0.000500	0.000500	1	03/01/2021 09:07	WG1626734	2	Тс
Toluene	U		0.000412	0.00100	0.00100	1	03/01/2021 09:07	WG1626734	L	
Ethylbenzene	U		0.000160	0.000500	0.000500	1	03/01/2021 09:07	WG1626734	3	Ss
Total Xylene	U		0.000510	0.00150	0.00150	1	03/01/2021 09:07	WG1626734		03
(S) a,a,a-Trifluorotoluene(PID)	102				79.0-125		03/01/2021 09:07	WG1626734	4	C i



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

SAMPLE RESULTS - 11

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	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch		Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2	
Benzene	U		0.000190	0.000500	0.000500	1	03/05/2021 21:56	WG1630109		Гс
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	3	Ss
Total Xylene	0.00821		0.000510	0.00150	0.00150	1	03/05/2021 21:56	WG1630109	`	22
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		03/05/2021 21:56	WG1630109	4	

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SAMPLE RESULTS - 12

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	0.00583		0.000190	0.000500	0.000500	1	03/07/2021 18:38	WG1630718	Tc
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	³ S c
Total Xylene	0.0757		0.000510	0.00150	0.00150	1	03/07/2021 18:38	WG1630718	53
(S) a,a,a-Trifluorotoluene(PID)	97.6				79.0-125		03/07/2021 18:38	WG1630718	4

³ Ss
⁴ Cn
⁵Tr
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⁷ Qc
[°] GI
⁹ Al
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Released to Imaging: 3/2/2022 2:57:34 PM Plains All American, LP - GHD SDG: L1320377 DATE/TIME: 03/08/21 16:45

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SAMPLE RESULTS - 13

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	0.000626		0.000190	0.000500	0.000500	1	03/05/2021 22:18	WG1630109	Tc
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	³ S s
Total Xylene	U		0.000510	0.00150	0.00150	1	03/05/2021 22:18	WG1630109	- 55
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		03/05/2021 22:18	WG1630109	4

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

SAMPLE RESULTS - 14

Volatile Organic Compounds (GC) by Method 8021B

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	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch		Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		, i	2
Benzene	0.00170		0.000190	0.000500	0.000500	1	03/05/2021 22:40	WG1630109		Tc
Toluene	U		0.000412	0.00100	0.00100	1	03/05/2021 22:40	WG1630109	l	
Ethylbenzene	0.000836		0.000160	0.000500	0.000500	1	03/05/2021 22:40	WG1630109		³ C c
Total Xylene	0.00192		0.000510	0.00150	0.00150	1	03/05/2021 22:40	WG1630109		55
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		03/05/2021 22:40	WG1630109	[4

³ Ss
⁴Cn
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Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	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



DATE/TIME: 03/08/21 16:45

		-							
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	0.00166		0.000190	0.000500	0.000500	1	03/05/2021 23:23	WG1630109	Tc
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	³ S c
Total Xylene	0.00190		0.000510	0.00150	0.00150	1	03/05/2021 23:23	WG1630109	55
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		03/05/2021 23:23	WG1630109	4



Volatile Organic Compounds (GC) by Method 8021B

QUALITY CONTROL SUMMARY L1320377-01,02,03,04,05,06,07,08,09,10

Method Blank (MB)

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

(=)				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	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) R3626999-1 03/01/21 00:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
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	

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												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	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				

Volatile Organic Compounds (GC) by Method 8021B

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3628064-3 03/05/21 21:13								
	MB Result	MB Qualifier	MB MDL	MB RDL				
Analyte	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

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	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	

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Volatile Organic Compounds (GC) by Method 8021B

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3628378-3 03/07	/21 15:12			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	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

Laboratory Control Sample (LCS)

(LCS) R3628378-1 03/07/2114:06

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	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	

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SDG: L1320377 DATE/TIME: 03/08/21 16:45 PAGE: 28 of 32

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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

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

SDG: L1320377 DATE/TIME: 03/08/2116:45

Received by OCD: 3/22/2022 12:13:44 PACCREDITATIONS & LOCATIONS

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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	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

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SDG: L1320377

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PAGE: 30 of 32

Received by OCD: 3/22/202.	022 12:13:44 PM Billing Inf		ormation:				Analy	Analysis / Container / Preservative					Chain of Custody Page 92 of 24.		
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2135 S. Loop 250 W Midland, TX 79703				d, TX 79706		10							National C	Center for Testing & Innovation	
Midiand, 1X 79703														1	
Report to:														12065 Lebanon Rd	E 1852
Becky Haskell			becky.h	askell@ghd.com (see remarks)					1 state					Mount Juliet, TN 3 Phone: 615-758-58	
Project Description: Darr Angell #1				City/State (ou: nation,								Phone: 800-767-58 Fax: 615-758-5859		
	Client Droise		- and	conected: A	New Mexic	0	_							101	00010
Phone: 432-250-7917	Client Projec			Lab Project #			100							L# S	20377
Fax:	Plains SR	S #: Darr A	ngell #1	1120982	85		The second							12:	37
Collected by (print):	Site/Facility			P.O. #	1000	-								12	
Heath Boyd	Darr	Angell	#1				10m/Amb-H		1000	-103				Acctnum: Pla	ins GHD
Collected by (signature):		(Lab MUST Be		Quote #			E			11/212				Template:	
Ø		Day Five ay 5 Day		Data Da	ander Alexander d	-	A/A							Prelogin:	
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Sample ID	Comp/Grab	Matrix *	Depth	Date Time Cr			BTEX			1				Shipped Via: Remarks	Sample # (lab only)
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MW-16R	1	GW	-			t	1							-	-01
MW-17R		GW	-		1130	11	-								-02
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mw-18R		GW	-		900	11	x								-04
MW-19R		GW	-		1330		K	-							-05
MW-ZOR		GW	-		1230	1	K								-06
MW-ZIR		GW	-		1305	1	X								-07
MW-ZZ		GW	-		1400	11	X		200						-08
MW-24		GW			1020	+	K								-09
MW-25	V	GW			1210	k									-10
* Matrix:	Remarks:	1	1		11010	12	11							1	1-
SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay	Email fina	l report to	becky.ha	skell@ghd.	com, cjbryan@	paal	p.co	m,		рН	Temp		COC Seal	Ample Receipt C Present/Intact	t: NP Y N
GW - Groundwater B - Bioassay WW - WasteWater	algroves@	paalp.com	n and ma	ochoa@paal	lp.com									ed/Accurate: arrive intact:	
DW - Drinking Water	Samples retur			1			-		-	low	Other			bottles used: nt volume sent	· N N
OT - Other UPSFedExCourier			rier	l	Tracking #			\sim						If Applical Headspace:	
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Relinquisted by: (Signature)					Received by: (Signat	ure)		1	Tem	ACH		s Received:	If preservat	tion required by Lo	ogin: Date/Time
thous	/	dos-	21 1	6:00	FOX				2	5.1-2.4		44			
Relinquished by : (Signature)		Date:	Ti	ime: R	Received for lab by:	(Signat	ture)		Date		, Time:		Hold:		Condition:
Released to Imaging: 8/2/20	22 2:57:34	PM	1		Merlyl	hu	le	1	02	heli	21 (001400			NCF / OK

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2135 S. Loop 250 W			iffith Drive		Pres Chk	1					Pacer	Analytical*		
Midland, TX 79703 Mid			Midland	d, TX 79706								National Ce	nter for Testing & Innovation	
Report to: Becky Haskell	askell@ghd.com (see remarks)								12065 Lebanon Rd Mount Juliet, TN 371					
Project Description: Darr Angell #1				City/State Lovington, Collected: New Mexico				-				Phone: 615-758-585 Phone: 800-767-585 Fax: 615-758-5859		
Phone: 432-250-7917 Fax:	Client Project		ngell #1	Lab Project # 11209885								L# 132	0377	
Collected by (print): Healh Boyc Collected by (signature):	Site/Facility I	D# Angell 7	ŧ 1	P.O. #			HCL					Table # Acctnum: Plai	ns GHD	
Collected by (signature):	1	Rush? (Lab MUST Be Notified)			1		10m/Amb-HCL					Template: Prelogin:		
Immediately Packed on Ice N Y	Next Day 5 Day (Rad Only) Two Day 10 Day (Rad Only) Three Day 10 Day (Rad Only)			Date Results Needed								TSR: PB:		
Sample ID	Comp/Grab	Matrix *	Depth	Date Time			втех					Shipped Via: Remarks	Sample # (lab only)	
RW-12	Grad	GW	-	2/22/21	1055	3	x						_ [1]	
MW-Z	1	GW	-	1	1530	1	×						- 12	
MW-12		GW	-		1430	T	x						- 13	
mw-b	U.	GW	1	V	1500	1	x						-14	
Dup-1 Dup-2		GW	-	-	-	1	x						-15	
Dup-2	U	GW	-	-	-	V	×						10	
1		GW					-	1					-16	
		GW												
		GW				1								
		GW												
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks: Email final report to becky baskell@gbd.com_cibryan@r						o.com		рН	Temp	COC Seal P COC Signed	 <u> ple Receipt Ch</u> resent/Intact: /Accurate: rive intact:	ecklist NP'YN YN	
DW - Drinking Water OT - Other	Samples returned via: UPSFedExCourier				cking #				Flow	Other	Correct bo Sufficient	ttles used: volume sent: <u>If Applicabl</u>	e - N	
Relinquished by : (Signature)	the age at				eived by: (Signat	ture)	- (\bigcirc	Trip Blank Re	ceived: Yes/No HCL/MeoH		eadspace: on Correct/Che	cked: Y_N	
Relipquisted by (Signature))	Date: 2-25	21	Time: Received by: (Signatu					Matter ASE2	°C Bottles Received:	If preservatio	vation required by Login: Date/Time		
Relinquished by : (Signature) Released to Imagine: 8/2/2	022 2.57.34	Date:	Ti	me: Rec	eived for lab by:	1 1			Date: 02/26/	Time: 21 04:00	Hold:		Condition: NCF / OK	

Received by OCD: 3/22/2022 12:13:44 PM



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

March 18, 2021

² Tc
³ Ss
⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
°GI
۹A
¹⁰ Sc

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 Analytical National is performed per guidance provided in 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

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

Released to Imaging: 0/2/2022 2:57:34 PM Plains All American, LP - GHD

PROJECT: PLAINS SRS #: DARR A

SDG: L1327514

DATE/TIME: 03/18/21 15:34 PAGE: 1 of 14

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

Released to Imaging: 0/2/2022 2:57:34 PM Plains All American, LP - GHD

PROJECT: PLAINS SRS #: DARR A

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PAGE: 2 of 14 Received by OCD: 3/22/2022 12:13:44 PM

SAMPLE SUMMARY

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Ср

Tc

Ss

Cn

⁵Tr

Sr

Qc

GI

ΆI

¹⁰Sc

PUMP ON L1327514-01 Air			Collected by Matthew Laughlin	Collected date/time 03/15/21 12:00	Received da 03/17/21 09:0	
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
PUMP OFF L1327514-02 Air			Collected by Matthew Laughlin	Collected date/time 03/15/21 12:45	Received da 03/17/21 09:0	
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

PROJECT: PLAINS SRS #: DARR A SDG: L1327514

DA 03/1

DATE/TIME: 03/18/21 15:34

PAGE: 3 of 14

CASE NARRATIVE

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

h

Mark W. Beasley Project Manager

Τс Ss Cn Tr Sr Qc GI AI Śc

DATE/TIME: 03/18/21 15:34

PAGE: 4 of 14

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

DATE/TIME: 03/18/21 15:34

Lab	orato	ry Name: Pace Analytical National	LRC Date: 03/18/2021 15:34								
Proj	ject N	Jame: Darr Angell #1	Laboratory Job Number: L1327514-01 and 02								
Rev	iewe	r Name: Mark W. Beasley	Prep Batch Number(s): WG1636018								
¥1	A ²	Description	•	Yes	No	NA ³	NR⁴	ER#			
21	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 describe	d in an exception report?	1		Х					
2	OI	Sample and quality control (QC) identification			•	•	•				
		Are all field sample ID numbers cross-referenced to the	e laboratory ID numbers?	X	1		1				
		Are all laboratory ID numbers cross-referenced to the	•	X							
3	OI	Test reports		<u> </u>							
	÷.	Were all samples prepared and analyzed within holding	a times?	X	1	1	r	1			
		Other than those results < MQL, were all other raw values of the second statement of the second statem	-	X							
		Were calculations checked by a peer or supervisor?		X							
		· · · ·									
		Were all analyte identifications checked by a peer or su	•	X							
		Were sample detection limits reported for all analytes r		X							
		Were all results for soil and sediment samples reported	, ,	X							
		Were % moisture (or solids) reported for all soil and sec	•			X					
		Were bulk soils/solids samples for volatile analysis extr	racted with methanol per SW846 Method 5035?			X		<u> </u>			
		If required for the project, are TICs reported?				Х					
4	0	Surrogate recovery data			-	r	-	1			
		Were surrogates added prior to extraction?		X							
		Were surrogate percent recoveries in all samples withi	n the laboratory QC limits?	Х							
5	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 analytica cleanup procedures?	al process, including preparation and, if applicable,	x							
		Were blank concentrations < MQL?		Х							
6	OI	Laboratory control samples (LCS):									
		Were all COCs included in the LCS?		X							
		Was each LCS taken through the entire analytical proc	edure, including prep and cleanup steps?	Х							
		Were LCSs analyzed at the required frequency?		X							
		Were LCS (and LCSD, if applicable) %Rs within the labo	pratory QC limits?	X							
		Does the detectability check sample data document th used to calculate the SDLs?	e laboratory's capability to detect the COCs at the MDL	x							
		Was the LCSD RPD within QC limits?		Х							
27	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data		-			-				
		Were the project/method specified analytes included in	n the MS and MSD?			Х					
		Were MS/MSD analyzed at the appropriate frequency?				Х					
		Were MS (and MSD, if applicable) %Rs within the labora	atory QC limits?			Х					
		Were MS/MSD RPDs within laboratory QC limits?				Х					
8	OI	Analytical duplicate data									
		Were appropriate analytical duplicates analyzed for ea	ch matrix?			Х					
		Were analytical duplicates analyzed at the appropriate	frequency?			Х					
		Were RPDs or relative standard deviations within the la	aboratory QC limits?	1		Х					
9	OI	Method quantitation limits (MQLs):									
		Are the MQLs for each method analyte included in the	laboratory data package?	X			Ι				
		Do the MQLs correspond to the concentration of the lo	west non-zero calibration standard?	X							
		Are unadjusted MQLs and DCSs included in the labora	tory data package?	X	1			1			
10	OI	Other problems/anomalies		•				•			
		Are all known problems/anomalies/special conditions r	noted in this LRC and ER?	X							
		· · ·	r the SDL to minimize the matrix interference effects on	X							
		Is the laboratory NELAC-accredited under the Texas La	x								
houl 2. O 3. N/ 4. NF	ld be r = orga A = No R = Not	etained and made available upon request for the approp inic analyses; I = inorganic analyses (and general chemis t applicable; t reviewed;	ry data package submitted in the TRRP-required report(s). prior retention period.		l dentifie	l d by th	I e letter	"S"			

PROJECT: PLAINS SRS #: DARR A SDG: L1327514 DATE/TIME: 03/18/21 15:34

Revised May 2010 Laboratory Review Checklist: Supporting Data

Labo	rato	ry Name: Pace Analytical National	LRC Date: 03/18/2021 15:34								
Proje	ect N	lame: Darr Angell #1	Laboratory Job Number: L1327514-01 and 02								
Revie	ewei	r Name: Mark W. Beasley	Prep Batch Number(s): WG1636018	Prep Batch Number(s): WG1636018							
# ¹	A ²	Description		Yes	No	NA ³	NR⁴	ER# ⁵			
51	OI	Initial calibration (ICAL)					-	-			
		Were response factors and/or relative response fac	tors for each analyte within QC limits?	Х							
		Were percent RSDs or correlation coefficient criteria	a met?	Х							
		Was the number of standards recommended in the	method used for all analytes?	Х							
		Were all points generated between the lowest and	nighest standard used to calculate the curve?	Х							
		Are ICAL data available for all instruments used?		Х							
		Has the initial calibration curve been verified using a	an appropriate second source standard?	Х							
52	OI	Initial and continuing calibration verification (ICCV a	nd CCV) and continuing calibration blank (CCB):								
		Was the CCV analyzed at the method-required freq	uency?	Х							
		Were percent differences for each analyte within the	e method-required QC limits?	Х							
		Was the ICAL curve verified for each analyte?		X							
		Was the absolute value of the analyte concentration	in the inorganic CCB < MDL?			Х	1				
3	0	Mass spectral tuning			•						
		Was the appropriate compound for the method use	d for tuning?	Х			1				
		Were ion abundance data within the method-require		X							
34	0	Internal standards (IS)				•					
	-	Were IS area counts and retention times within the	nethod-required QC limits?	X	Г	Г	I				
5	OI	Raw data (NELAC Section 5.5.10)				1					
	0.	Were the raw data (for example, chromatograms, sp	ectral data) reviewed by an analyst?	X	1	1	1	1			
		Were data associated with manual integrations flag		X							
66	0	Dual column confirmation			1		1	1			
	•	Did dual column confirmation results meet the meth	od-required QC?		1	X	1	1			
57	0	Tentatively identified compounds (TICs)		I	1						
	•	If TICs were requested, were the mass spectra and	TIC data subject to appropriate checks?	1	T	X	1				
8	1	Interference Check Sample (ICS) results				~	1	I			
	•	Were percent recoveries within method QC limits?			Т	X	L				
59	1	Serial dilutions, post digestion spikes, and method of	of standard additions				I				
	1	Were percent differences, recoveries, and the linea			1	X	T	1			
510	OI	Method detection limit (MDL) studies	ity within the de limits speched in the method:		I		I				
	0	Was a MDL study performed for each reported anal	.to?	X	1	1	1	I			
		Is the MDL either adjusted or supported by the anal									
511	OI	Proficiency test reports	ysis 01 DC3s:	^			1	L			
	0	Was the laboratory's performance acceptable on the	applicable proficiency tests or evaluation studies?	X	1	1	1				
512	OI	Standards documentation	e applicable proficiency tests of evaluation studies:	^	I		I	I			
	0	Are all standards used in the analyses NIST-traceab	le ar obtained from other appropriate courses?	X	T	T	1	1			
513	OI	Compound/analyte identification procedures	le of obtained from other appropriate sources?	^			I				
	0i		tion documented?	X	1	<u>т</u>	1	1			
514	OI	Are the procedures for compound/analyte identification	tion documented:				I	I			
014	0i	Demonstration of analyst competency (DOC) Was DOC conducted consistent with NELAC Chapte			T	1	1	1			
		· · · · · · · · · · · · · · · · · · ·									
15			ation of the analyst's competency up-to-date and on file? validation documentation for methods (NELAC Chapter 5)								
515	OI			-	1	-	-				
10		Are all the methods used to generate the data docu	X			I	I				
516	OI	Laboratory standard operating procedures (SOPs)	the end of a set of a second		-	-	1				
		Are laboratory SOPs current and on file for each me		<u> </u>	<u> </u>	<u> </u>	<u> </u>				
should 2. O = 3. NA = 4. NR =	be re orga = Not = Not	etained and made available upon request for the app nic analyses; I = inorganic analyses (and general che t applicable; reviewed;			aentifie	ed by th	e letter	-5"			

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SDG: L1327514

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

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

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;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

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Qc

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Volatile Organic Compounds (MS) by Method M18-Mod

Benzene71-43-278.10800256024100770004000WG1636018Toluene108-88-392.1020007530508001910004000WG1636018Ethylbenzene100-41-4106800347012900559004000WG1636018m&p-Xylene1330-20-710616006940302001310004000WG1636018o-Xylene95-47-610680034701000434004000WG1636018	-									
Benzene71-43-278.10800256024100770004000WG1636018Toluene108-88-392.1020007530508001910004000WG1636018Ethylbenzene100-41-4106800347012900559004000WG1636018m&p-Xylene1330-20-710616006940302001310004000WG1636018o-Xylene95-47-6106800347010000434004000WG1636018Methyl tert-butyl ether1634-04-488.108002880NDND4000WG1636018		CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Toluene108-88-392.1020007530508001910004000WG1636018Ethylbenzene100-41-4106800347012900559004000WG1636018m&p-Xylene1330-20-710616006940302001310004000WG1636018o-Xylene95-47-6106800347010000434004000WG1636018Methyl tert-butyl ether1634-04-488.108002880NDND4000WG1636018	Analyte			ppbv	ug/m3	ppbv	ug/m3			
Ethylbenzene100-41-4106800347012900559004000WG1636018m&p-Xylene1330-20-710616006940302001310004000WG1636018o-Xylene95-47-6106800347010000434004000WG1636018Methyl tert-butyl ether1634-04-488.108002880NDND4000WG1636018	Benzene	71-43-2	78.10	800	2560	24100	77000		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	Toluene	108-88-3	92.10	2000	7530	50800	191000		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	Ethylbenzene	100-41-4	106	800	3470	12900	55900		4000	WG1636018
Methyl tert-butyl ether 1634-04-4 88.10 800 2880 ND ND 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
TPH (GC/MS) Low Fraction 8006-61-9 101 800000 3300000 13600000 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	(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG1636018

DATE/TIME: 03/18/21 15:34

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Volatile Organic Compounds (MS) by Method M18-Mod

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
alyte			ppbv	ug/m3	ppbv	ug/m3			
ne	71-43-2	78.10	800	2560	21900	70000		4000	WG1636018
<u>j</u>	108-88-3	92.10	2000	7530	43700	165000		4000	WG1636018
benzene	100-41-4	106	800	3470	11000	47700		4000	WG1636018
Kylene	1330-20-7	106	1600	6940	25700	111000		4000	WG1636018
ne	95-47-6	106	800	3470	8320	36100		4000	WG1636018
tert-butyl ether	1634-04-4	88.10	800	2880	ND	ND		4000	WG1636018
C/MS) Low Fraction	8006-61-9	101	800000	3300000	2720000	11200000		4000	WG1636018
4-Bromofluorobenzene	460-00-4	175	60.0-140		98.9				WG1636018

DATE/TIME: 03/18/21 15:34 Volatile Organic Compounds (MS) by Method M18-Mod

QUALITY CONTROL SUMMARY

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Sc

Method Blank (MB)

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

MB Result	MB Qualifier	MB MDL	MB RDL
ppbv		ppbv	ppbv
U		0.0715	0.200
U		0.0835	0.200
U		0.0647	0.200
U		0.0870	0.500
U		0.135	0.400
U		0.0828	0.200
U		39.7	200
91.1			60.0-140
	ppbv U U U U U U U U U U U	ppbv U U U U U U U U U U U U	ppbv ppbv U 0.0715 U 0.0835 U 0.0647 U 0.0870 U 0.135 U 0.0828 U 39.7

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

(LCS) R3632055-1 03/17/2	21 09:21 • (LCSE) R3632055-2	03/17/21 09:5	9						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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				

DATE/TIME: 03/18/21 15:34 PAGE: 11 of 14

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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.

PROJECT: PLAINS SRS #: DARR A SDG: L1327514 DATE/TIME: 03/18/21 15:34

F 1:

Received by OCD: 3/22/2022 12:13:44 PACCREDITATIONS & LOCATIONS

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Τс

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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
lorida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
daho	TN00003	Ohio-VAP	CL0069
llinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Centucky ¹⁶	KY90010	South Carolina	84004002
Centucky ²	16	South Dakota	n/a
ouisiana	Al30792	Tennessee ¹⁴	2006
ouisiana	LA018	Texas	T104704245-20-18
laine	TN00003	Texas ⁵	LAB0152
faryland	324	Utah	TN000032021-11
lassachusetts	M-TN003	Vermont	VT2006
lichigan	9958	Virginia	110033
linnesota	047-999-395	Washington	C847
lississippi	TN00003	West Virginia	233
lissouri	340	Wisconsin	998093910
lontana	CERT0086	Wyoming	A2LA
2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
PA–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.

SDG: L1327514

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DATE/TIME: 03/18/21 15:34

Received by OCD: 3/22/2022 12:13:44 PM Plains All American, LP - GHD 2135 S. Loop 250 W Midland, TX 79703		PM	Billing Information:				Analysis / Container / Preservative						Chain of Custody Page 107 of 24		
		Camille Bryant 1106 Griffith Drive Midland, TX 79706										0	í.		
											National C	Analytical [®] Center for Testing & Innovati			
Report to: Becky Haskell	Email To: becky.h	mail To: ecky.haskell@ghd.com (see remarks)									12065 Lebanon Rd Mount Juliet, TN 3 Phone: 615-758-56	7122			
Project Description: Darr Angell #1				City/State Collected: Lovington, NM									Phone: 800-767-58 Fax: 615-758-5859		
Phone: 432-250-7917	Client Project	Client Project #		Lab Project #				-					L# L130	61519	
Fax:	Plains SRS #: Darr Angell #		Angell #1					1					G05	6	
Collected by (print):				P.O. #			-						Acctnum: Pla	ins GHD	
Collected by (signature):			e Notified) Quote #				Tedlar						Template:		
1. 11	Same D	ay Five I	Day										Prelogin:		
Immediately		y 10 Da	(Rad Only) ay (Rad Only)	Date Re	Results Needed		MOD-						TSR: PB:		
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	M18-MO						Shipped Via: Remarks	Sample # (lab only)	
Pump On	6	Air	-	3/15/21	12:00	2	×							-01	
Pump Off	6	Air	-	3/15/21	12:45	2	X							-02/	
										-					
						-									
						+									
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay	algroves@paalp.com and maochoa@paalp.com									COC Sea COC Sig Bottles	Sample Receipt Checklist COC Seal Present/Intact: NP Y N COC Signed/Accurate: Bottles arrive intact: N				
WW - WasteWater DW - Drinking Water OT - Other	Samples retu UPSF	irned via: edExCo	urier	Tracking #			9050 0894 1035			Suffici	Correct bottles used: Sufficient volume sent: If Applicable VOA Zero Headspace: Y N				
Relinquished by : (Signature)		Date:	121	Time: 5'w	Received by: (Sign	ature	2	1	Trip Blank	Received:	Yes No HCL / MeoH TBR		vation Correct/C	hecked: Y	
Relinquished by (Signature)		Date:	.21	Time: 17:00	Received by: (Sign	ature)		(Temp: AMB	°C E	Sottles Received:	If preser	vation required by L	ogin: Date/Time	
Relinquished by : (Signature) Released to Imaging: 8/2/202	22 2.57.21	Date:	(Time:	Received for lab b	y: (Signa	ture)) O en	Date:	71	Time: 900	Hold:		Condition: NCF / OK	

Received by OCD: 3/22/2022 12:13:44 PM

Pace Analytical® ANALYTICAL REPORT

Plains All American, LP - GHD

May 29, 2021

Sample Delivery Group: Samples Received: Project Number: Description: Site: Report To:

L1354515 05/18/2021 11209885/02 Darr Angell #1 SRS Darr Angell #1 SRS DARR ANGELL #1 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

Released to Imaging: 0/2/2022 2:57:34 PM Plains All American, LP - GHD

PROJECT: 11209885/02

SDG: L1354515

DATE/TIME: 05/29/21 11:48

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SAMPLE SUMMARY

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SAMI LL C					
		Collected by Zach Comino	Collected date/time 05/14/21 08:00	Received da 05/18/21 09:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1673236	1	05/20/21 01:22	05/20/21 01:22	JAH	Mt. Juliet, TN
		Collected by Zach Comino	Collected date/time 05/14/21 08:30	Received da 05/18/21 09:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1673236	1	05/20/21 01:43	05/20/21 01:43	JAH	Mt. Juliet, TN
		Collected by Zach Comino	Collected date/time 05/14/21 09:00	Received da 05/18/21 09:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1673236	1	05/20/21 02:05	05/20/21 02:05	JAH	Mt. Juliet, TN
		Collected by Zach Comino	Collected date/time 05/14/21 09:30	Received da 05/18/21 09:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1673236	1	05/20/21 02:27	05/20/21 02:27	JAH	Mt. Juliet, TN
		Collected by Zach Comino	Collected date/time 05/14/21 10:00	Received da 05/18/21 09:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1673236	1	05/20/21 02:49	05/20/21 02:49	JAH	Mt. Juliet, TN
		Collected by Zach Comino	Collected date/time 05/14/21 10:20	Received da 05/18/21 09:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1673236	1	05/20/21 03:11	05/20/21 03:11	JAH	Mt. Juliet, TN
		Collected by Zach Comino	Collected date/time 05/14/21 11:00	Received da 05/18/21 09:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1673236	1	05/20/21 03:33	05/20/21 03:33	JAH	Mt. Juliet, TN
		Collected by Zach Comino	Collected date/time 05/14/21 11:30	Received da 05/18/21 09:	
Batch	Dilution	-			
	WG1673236 Batch Ba	WG16732361BatchDilutionWG16732361BatchDilutionWG16732361BatchDilutionWG16732361BatchDilutionWG16732361BatchDilutionBatchDilutionBatchDilutionBatchDilutionWG16732361WG16732361WG16732361WG16732361	Zach CominoBatchDilutionPreparation date/timeWG1673236105/20/21 01:22BatchDilutionPreparation date/timeWG1673236DilutionPreparation date/timeWG1673236105/20/21 01:43BatchDilutionPreparation date/timeWG1673236DilutionPreparation date/timeWG1673236105/20/21 02:05BatchDilutionPreparation date/timeWG1673236105/20/21 02:05BatchDilutionPreparation date/timeWG1673236105/20/21 02:27BatchDilutionPreparation date/timeWG1673236105/20/21 02:27BatchDilutionPreparation date/timeWG1673236105/20/21 02:27BatchDilutionPreparation date/timeWG1673236105/20/21 02:49BatchDilutionPreparation date/timeWG1673236105/20/21 02:49BatchDilutionPreparation date/timeWG1673236105/20/21 03:11BatchDilutionPreparation date/timeWG1673236105/20/21 03:11BatchDilutionPreparation date/timeWG1673236105/20/21 03:11WG1673236105/20/21 03:11BatchDilutionPreparation date/timeWG1673236105/20/21 03:11	Zach Comino05/14/21 08:00BatchDilutionPreparation date/timeAnalysis date/timeWG1673236105/20/21 01:2205/20/21 01:22BatchDilutionPreparation date/timeAnalysis date/timeBatchDilutionPreparation date/timeAnalysis date/timeWG1673236105/20/21 01:4305/20/21 01:43WG1673236105/20/21 01:4305/20/21 01:43BatchDilutionPreparation date/timeAnalysis date/timeBatchDilutionPreparation date/timeAnalysis date/timeWG1673236105/20/21 02:0505/20/21 02:05BatchDilutionPreparation date/timeAnalysis date/timeWG1673236105/20/21 02:2705/20/21 02:27WG1673236105/20/21 02:2705/20/21 02:27WG1673236105/20/21 02:4905/20/21 02:49WG1673236105/20/21 02:4905/20/21 02:49WG1673236105/20/21 02:4905/20/21 02:49WG1673236105/20/21 02:4905/20/21 02:49WG1673236105/20/21 02:4905/20/21 02:49BatchDilutionPreparation date/timeAnalysis date/timeWG1673236105/20/21 02:4905/20/21 02:49WG1673236105/20/21 02:4905/20/21 02:49WG1673236105/20/21 02:4905/20/21 02:49BatchDilutionPreparation date/timeAnalysis dat	Zach Comino05/14/21 08:0005/18/21 09: 04te/timeBatchDilutionPreparation date/timeAnalysis date/timeAnalysis date/timeWG1673236105/20/21 01:22JAHCollected by Zach CominoCollected date/timeReceived da 05/14/21 08:30BatchDilutionPreparation date/timeAnalysis date/timeWG1673236105/20/21 01:4305/20/21 01:43WG1673236105/20/21 01:4305/20/21 01:43BatchDilutionPreparation date/timeAnalysis date/timeWG1673236105/20/21 02:0505/20/21 02:05BatchDilutionPreparation date/timeAnalysis date/timeWG1673236105/20/21 02:0505/20/21 02:05BatchDilutionPreparation

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SAMPLE SUMMARY

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	JAIMITLE					0
MW-24 L1354515-09 GW			Collected by Zach Comino	Collected date/time 05/14/21 12:00	Received da 05/18/21 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
/olatile Organic Compounds (GC) by Method 8021B	WG1673236	1	05/20/21 04:17	05/20/21 04:17	JAH	Mt. Juliet, TN
MW-25 L1354515-10 GW			Collected by Zach Comino	Collected date/time 05/14/21 12:30	Received da 05/18/21 09:	
/ ethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
/olatile Organic Compounds (GC) by Method 8021B	WG1673236	1	05/20/21 04:39	05/20/21 04:39	JAH	Mt. Juliet, TN
RW-12 L1354515-11 GW			Collected by Zach Comino	Collected date/time 05/14/21 13:10	Received da 05/18/21 09:	
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
MW-7 L1354515-12 GW			Collected by Zach Comino	Collected date/time 05/14/21 14:00	Received da 05/18/21 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
/olatile Organic Compounds (GC) by Method 8021B	WG1673236	1	05/20/21 05:51	05/20/21 05:51	JAH	Mt. Juliet, TN
MW-12 L1354515-13 GW			Collected by Zach Comino	Collected date/time 05/14/21 14:20	Received da 05/18/21 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
/olatile 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 da 05/18/21 09:	
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 da 05/18/21 09:	
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 da 05/18/21 09:	
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

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CASE NARRATIVE

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

h

Mark W. Beasley Project Manager

SDG: L1354515

DATE/TIME: 05/29/21 11:48 PAGE: 5 of 30

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

Lab	orato	ory Name: Pace Analytical National	LRC Date: 05/29/2021 11:48 Laboratory Job Number: L1354515-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 and 16									
Pro	ject N	Name: Darr Angell #1 SRS Darr Angell #1										
Re١	/iewe	r Name: Mark W. Beasley										
¥1	A ²	escription Yes No NA ³ NR ⁴ ER [#]										
21	01	Chain-of-custody (C-O-C)										
		Did samples meet the laboratory's standard condition	ons of sample acceptability upon receipt?	X								
		Were all departures from standard conditions descri			Х							
2	01	Sample and quality control (QC) identification		<u> </u>		II						
-	101	Are all field sample ID numbers cross-referenced to	the laboratory ID numbers?	X								
		Are all laboratory ID numbers cross-referenced to the		X								
3	01	Test reports				II						
5		Were all samples prepared and analyzed within hold	ling times?	X								
		Other than those results < MQL, were all other raw v	-	X								
		Were calculations checked by a peer or supervisor?	· · · · · · · · · · · · · · · · · · ·	×								
				X								
		Were all analyte identifications checked by a peer o	•									
		Were sample detection limits reported for all analyte		X								
		Were all results for soil and sediment samples repor		X	X							
		Were % moisture (or solids) reported for all soil and s	· · · · ·		X							
		Were bulk soils/solids samples for volatile analysis e	extracted with methanol per SW846 Method 5035?		X							
		If required for the project, are TICs reported?			Х							
4	0	Surrogate recovery data				· · ·						
		Were surrogates added prior to extraction?		Х								
		Were surrogate percent recoveries in all samples wi	thin the laboratory QC limits?	Х								
5	OI	Test reports/summary forms for blank samples		· · · ·								
		Were appropriate type(s) of blanks analyzed?		Х								
		Were blanks analyzed at the appropriate frequency		Х								
		Were method blanks taken through the entire analytic cleanup procedures?	tical process, including preparation and, if applicable,	x								
		Were blank concentrations < MQL?		Х								
6	OI	Laboratory control samples (LCS):										
		Were all COCs included in the LCS?		X								
		Was each LCS taken through the entire analytical pr	ocedure, including prep and cleanup steps?	Х								
		Were LCSs analyzed at the required frequency?		X								
		Were LCS (and LCSD, if applicable) %Rs within the la	boratory QC limits?	х								
		· · · · · · · · · · · · · · · · · · ·	the laboratory's capability to detect the COCs at the MDL	X								
		Was the LCSD RPD within QC limits?		X								
7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) of	lata									
	101	Were the project/method specified analytes include		ГТ	X							
		Were MS/MSD analyzed at the appropriate frequence			X							
		Were MS (and MSD, if applicable) %Rs within the lab	•		X							
		Were MS/MSD RPDs within laboratory QC limits?			X							
8	0	Analytical duplicate data										
0		Were appropriate analytical duplicates analyzed for	oach matrix?	I I	X							
		Were analytical duplicates analyzed to Were analytical duplicates analyzed to a			×							
					×							
<u> </u>	OI	Were RPDs or relative standard deviations within the			^							
9	0	Method quantitation limits (MQLs):	na lahawatawi data wasilara?	X								
		Are the MQLs for each method analyte included in t	, , , , , , , , , , , , , , , , , , , ,									
		Do the MQLs correspond to the concentration of the		X								
0		Are unadjusted MQLs and DCSs included in the labo	bratory data package?	X								
0	OI	Other problems/anomalies				<u>г г</u>						
			is noted in this LRC and ER? wer the SDL to minimize the matrix interference effects on	X X								
			Laboratory Accreditation Program for the analytes, matrices	x								
		and methods associated with this laboratory data pa	<u> </u>			ĻĹ						
100 . 0 . N	ild be r = orga A = No	entified by the letter "R" must be included in the labora retained and made available upon request for the app anic analyses; I = inorganic analyses (and general che it applicable; t reviewed;		Items ide	entified by the	e letter "S"						

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SDG: L1354515

ory Job Number: L1354515-01, 02, 03, 04 ch Number(s): WG1673236 analyte within QC limits? for all analytes? ard used to calculate the curve? e second source standard? continuing calibration blank (CCB): uired QC limits? nic CCB < MDL?	I, 05, 06, 07		9, 10, 1 NA ³ X	1, 12, 13 NR⁴	3, 14, 1 ER# ⁵
for all analytes? for all analytes? ard used to calculate the curve? e second source standard? continuing calibration blank (CCB): uired QC limits?		No		NR ⁴	ER# ⁵
for all analytes? ard used to calculate the curve? e second source standard? continuing calibration blank (CCB): uired QC limits?		No		NR ⁴	ER# ^E
for all analytes? ard used to calculate the curve? e second source standard? continuing calibration blank (CCB): uired QC limits?	X X X X X X		X		
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ard used to calculate the curve? e second source standard? continuing calibration blank (CCB): uired QC limits?	X X X X				
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e second source standard? continuing calibration blank (CCB): uired QC limits?	X X X X				
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continuing calibration blank (CCB): uired QC limits?	X X				
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viewed by an analyst?	X				
v data?	X				
)C?			Х		
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QC limits specified in the method?		<u>г</u>	Х		
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	X	ГТ			
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	file? ter 5) fied, and validated, where applicable?	ter 5) fied, and validated, where applicable? X ned X ckage submitted in the TRRP-required report(s). Items in ntion period.	file? X ter 5) fied, and validated, where applicable? X ned X ckage submitted in the TRRP-required report(s). Items identified	file? X ter 5) fied, and validated, where applicable? X ter 5 ned X ter 5 ckage submitted in the TRRP-required report(s). Items identified by the net of the term of term	file? X I I I I I I I I I I I I I I I I I I

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).

SDG: L1354515

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" Netris identified by the letter is indicated in the abbrachy data package submits 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;

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

SAMPLE RESULTS - 01 L1354515

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 01:22	WG1673236	Tc
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	³ Ss
Total Xylene	U		0.000510	0.00150	0.00150	1	05/20/2021 01:22	WG1673236	55
(S) a,a,a-Trifluorotoluene(PID)	106				79.0-125		05/20/2021 01:22	WG1673236	4



SDG: L1354515 DATE/TIME:

05/29/21 11:48

PAGE: 10 of 30 Collected date/time: 05/14/21 08:30

SAMPLE RESULTS - 02

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 01:43	WG1673236	ŤC
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	³ C c
Total Xylene	U		0.000510	0.00150	0.00150	1	05/20/2021 01:43	WG1673236	55
(S) a,a,a-Trifluorotoluene(PID)	105				79.0-125		05/20/2021 01:43	WG1673236	4

³ Ss
⁴Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] Gl
_
⁹ Al
Sc

SDG: L1354515 DATE/TIME: 05/29/21 11:48

PAGE: 11 of 30 Collected date/time: 05/14/21 09:00

SAMPLE RESULTS - 03

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— Cţ
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 02:05	WG1673236	Ťτ
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	³ Ss
Total Xylene	U		0.000510	0.00150	0.00150	1	05/20/2021 02:05	WG1673236	53
(S) a,a,a-Trifluorotoluene(PID)	106				79.0-125		05/20/2021 02:05	WG1673236	4

Ss
⁴ Cn
5_
⁵Tr
⁶ Sr
21
7
[′] Qc
0
[°] Gl
PAI
10
¹⁰ Sc

DATE/TIME: 05/29/21 11:48

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

SAMPLE RESULTS - 04 L1354515

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	Cp
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 02:27	WG1673236	Tc
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	³ S c
Total Xylene	U		0.000510	0.00150	0.00150	1	05/20/2021 02:27	WG1673236	53
(S) a,a,a-Trifluorotoluene(PID)	105				79.0-125		05/20/2021 02:27	WG1673236	4



SDG: L1354515

DATE/TIME: 05/29/21 11:48

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

SAMPLE RESULTS - 05

Volatile Organic Compounds (GC) by Method 8021B

										22
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	[(Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2	
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 02:49	WG1673236	[² 1	Τс
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	³ c	20
Total Xylene	U		0.000510	0.00150	0.00150	1	05/20/2021 02:49	WG1673236	· · · ·	22
(S) a,a,a-Trifluorotoluene(PID)	106				79.0-125		05/20/2021 02:49	WG1673236	4	<u></u>

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

SDG: L1354515 DATE/TIME: 05/29/21 11:48

3

PAGE: 14 of 30 Collected date/time: 05/14/21 10:20

SAMPLE RESULTS - 06 L1354515

Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Compounds (GC) by Method 8021B									
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— Cp
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 03:11	WG1673236	Tc
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	³ S c
Total Xylene	U		0.000510	0.00150	0.00150	1	05/20/2021 03:11	WG1673236	53
(S) a,a,a-Trifluorotoluene(PID)	105				79.0-125		05/20/2021 03:11	WG1673236	4

⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] Gl
⁹ Al
¹⁰ Sc

Released to Imaging: 0/2/2022 2:57:34 PM Plains All American, LP - GHD

PROJECT: 11209885/02

L1354515

SDG:

DATE/TIME: 05/29/21 11:48

PAGE: 15 of 30 Collected date/time: 05/14/21 11:00

SAMPLE RESULTS - 07 L1354515

Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Comp	bounds (GC) by Meth	od 8021B						1
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— Cp
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 03:33	WG1673236	Tc
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	³ C c
Total Xylene	U		0.000510	0.00150	0.00150	1	05/20/2021 03:33	WG1673236	53
(S) a,a,a-Trifluorotoluene(PID)	105				79.0-125		05/20/2021 03:33	WG1673236	4

³ Ss
⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] GI
⁹ Al
¹⁰ Sc

SDG: L1354515

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SAMPLE RESULTS - 08

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 03:55	WG1673236	Tc
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	³ Ss
Total Xylene	U		0.000510	0.00150	0.00150	1	05/20/2021 03:55	WG1673236	55
(S) a,a,a-Trifluorotoluene(PID)	106				79.0-125		05/20/2021 03:55	WG1673236	4

Ss
⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] Gl
⁹ Al
¹⁰ Sc

SDG: L1354515

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SAMPLE RESULTS - 09

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Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 04:17	WG1673236	Tc
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	³ Ss
Total Xylene	U		0.000510	0.00150	0.00150	1	05/20/2021 04:17	WG1673236	53
(S) a,a,a-Trifluorotoluene(PID)	106				79.0-125		05/20/2021 04:17	WG1673236	4

³ Ss
⁴Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] GI
⁹ Al
¹⁰ Sc

SDG: L1354515

5: 515 DATE/TIME: 05/29/21 11:48 PAGE: 18 of 30 Collected date/time: 05/14/21 12:30

SAMPLE RESULTS - 10

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch		Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		r	2
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 04:39	WG1673236		Tc
Toluene	U		0.000412	0.00100	0.00100	1	05/20/2021 04:39	WG1673236	L	
Ethylbenzene	U		0.000160	0.000500	0.000500	1	05/20/2021 04:39	WG1673236		³ Ss
Total Xylene	U		0.000510	0.00150	0.00150	1	05/20/2021 04:39	WG1673236		35
(S) a,a,a-Trifluorotoluene(PID)	106				79.0-125		05/20/2021 04:39	WG1673236]	⁴ Cn



SDG: L1354515 DATE/TIME: 05/29/21 11:48

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

SAMPLE RESULTS - 11

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	0.00138		0.000190	0.000500	0.000500	1	05/20/2021 05:00	WG1673236	Tc
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	³ Ss
Total Xylene	0.104		0.000510	0.00150	0.00150	1	05/20/2021 05:00	WG1673236	55
(S) a,a,a-Trifluorotoluene(PID)	105				79.0-125		05/20/2021 05:00	WG1673236	4

- 55
⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] Gl
⁹ Al
¹⁰ Sc

SDG: L1354515 DATE/TIME: 05/29/21 11:48

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

SAMPLE RESULTS - 12

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1

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch		Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		i	2
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 05:51	WG1673236		Tc
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		³ Cc
Total Xylene	0.00192		0.000510	0.00150	0.00150	1	05/20/2021 05:51	WG1673236		03
(S) a,a,a-Trifluorotoluene(PID)	104				79.0-125		05/20/2021 05:51	WG1673236		4

⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] GI
⁹ Al
¹⁰ Sc

SDG: L1354515

DA 05/ PAGE: 21 of 30

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

SAMPLE RESULTS - 13

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1

Volatile Organic Compounds (GC) by Method 8021B

										\frown
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	(Ch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2	_
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 06:47	WG1673236		Тс
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	3,	 ۲۰
Total Xylene	0.000655	J	0.000510	0.00150	0.00150	1	05/20/2021 06:47	WG1673236		23
(S) a,a,a-Trifluorotoluene(PID)	105				79.0-125		05/20/2021 06:47	WG1673236	4	~

⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
°GI
⁹ Al
¹⁰ Sc

SDG: L1354515 DA 05/2 PAGE: 22 of 30 Collected date/time: 05/14/21 14:40

SAMPLE RESULTS - 14 L1354515

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Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Compounds (GC) by Method 8021B						1			
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 07:31	WG1673236	Tc
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	³ S c
Total Xylene	0.00201		0.000510	0.00150	0.00150	1	05/20/2021 07:31	WG1673236	03
(S) a,a,a-Trifluorotoluene(PID)	105				79.0-125		05/20/2021 07:31	WG1673236	4

00
⁴ Cn
⁵Tr
-
⁶ Sr
⁷ Qc
-
[°] Gl
-
⁹ Al
¹⁰ Sc

SDG: L1354515

DATE/TIME: 05/29/21 11:48

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SAMPLE RESULTS - 15 L1354515

Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Comp	oounds (GC) by Meth	od 8021B						1
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 08:32	WG1673236	Tc
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	³ S c
Total Xylene	U		0.000510	0.00150	0.00150	1	05/20/2021 08:32	WG1673236	53
(S) a,a,a-Trifluorotoluene(PID)	105				79.0-125		05/20/2021 08:32	WG1673236	4

³ Ss
⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] Gl
⁹ Al
¹⁰ Sc

SDG: L1354515

DATE/TIME: 05/29/21 11:48

PAGE: 24 of 30 Collected date/time: 05/14/21 00:00

SAMPLE RESULTS - 16

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	05/20/2021 08:54	WG1673236	Tc
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	³ Ss
Total Xylene	U		0.000510	0.00150	0.00150	1	05/20/2021 08:54	WG1673236	55
(S) a,a,a-Trifluorotoluene(PID)	105				79.0-125		05/20/2021 08:54	WG1673236	4

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

SDG: L1354515 C 0! PAGE: 25 of 30 Volatile Organic Compounds (GC) by Method 8021B

QUALITY CONTROL SUMMARY L1354515-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16

Τс

Ss

Cn

Τr

Sr

Qc

GI

ΆI

Sc

Method Blank (MB)

	(MB) R3660438-2	05/20/21 01:00
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()				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	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

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	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	

DATE/TIME: 05/29/21 11:48

PAGE: 26 of 30

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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.

SDG: L1354515

DATE/TIME: 05/29/21 11:48

Received by OCD: 3/22/2022 12:13:44 PACCREDITATIONS & LOCATIONS

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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
lorida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
daho	TN00003	Ohio-VAP	CL0069
llinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
entucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
ouisiana	Al30792	Tennessee ¹⁴	2006
ouisiana	LA018	Texas	T104704245-20-18
laine	TN00003	Texas ⁵	LAB0152
faryland	324	Utah	TN000032021-11
lassachusetts	M-TN003	Vermont	VT2006
lichigan	9958	Virginia	110033
linnesota	047-999-395	Washington	C847
lississippi	TN00003	West Virginia	233
lissouri	340	Wisconsin	998093910
lontana	CERT0086	Wyoming	A2LA
2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
PA–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.

SDG: L1354515 DATE/TIME: 05/29/21 11:48

Received l	by OCD: 3/	22/2022	12:13:44 PM
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Company Name/Address:			Billing Infor	rmation:				-	13	Analysi	s / Con	tainer / F	reservativ	le		Chain of Custo	dy Page of
Plains All American, L 2135 S Loop 250 W Midland, TX 79703	P - GHD		Attn: Car 10 Desta Midland	Dr., Ste	. 550E	المحر بر در	Pres Chk									- Pa) ce Analytica
Report to: Becky Haskell			Email To: becky.hask	ell@ghd.	com;glen	n.quinney@į	ghd.co			No.						Submitting a sample	Mount Juliet, TN 37122 via this chain of custody edgment and acceptance of ditions found at:
Project Description: Darr Angell #1 SRS Darr Angell #1		City/State Collected:	Lovin	1	in	Please Ci	rcle:		and the second se								s.com/hubfs/pas-standard-
Phone: 432-250-7917	Client Proje		Lovig	Lab Proj		1209885										SDG # L	1354515
Collected by (print): Zech Canino	Site/Facility SRS DAR	ID # R ANGELL #1	1	P.O. #				0								Table # 1 Acctnum: PL	
Collected by (signature):	Same	(Lab MUST Be Day Five I Day 5 Day Day 10 Da e Day	Day y (Rad Only)	Quote	# te Results	Needed	No. of	40mlAmb-HCl	in a						Inte	PB:	44025 Irk W. Beasley
Sample ID	Comp/Gra	b Matrix *	Depth	Di	ate	Time	Cntrs	BTEX			eq.					Shipped Via: Remarks	Sample # (lab o
MW-NR	Gras	GW		0514	2021	0800	3	2 2		r.W.M							- 9
MW-IGR	1	GW		-		0830	1	1		Lulle .	-			-			-07
M2D-MR		GW				0900			-	AN AL							< 0
MW-18R		GW				0930		E P	18	NOI -		and the second	all the				-0
MW-19R		GW				1000				dini.		-1-11					
MW-ZOR		GW				1020			12			114					-
MW-ZIR		GW				1100		1		AL AL	10	- And					
MW-22E		GW				1130		前屋	1		115	C.			A Section		
MW-24		GW			-	1200			1.1				同時間			-	
MW-25	V	GW	1.1.1		1	1230	+	+						-			
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:	, secondaria	u Rein							pH Flo		Ter	- Andrews		COC Seal COC Sign Bottles	<pre>ample Receipt (Present/Intac ed/Accurate: arrive intact: bottles used;</pre>	hecklist P
DW - Drinking Water OT - Other	Samples return UPSFed	ed via: ExCourier			Tracking	в# 78=	72(23	785	TQL	18		a		Sufficie VOA Zero	nt volume sent <u>If Applica</u> Headspace:	ole A
Relinquished by : (Signature)		Date: 05742.02	Time	30	Receive	ed by: (Signat	ure)			Trip Bl	ank Re	ceived:	Yes / No HCL / Me TBR	оН		tion Correct/C en <0.5 mR/hr:	necked:
Reinquished by : (Signature)		Date:	Time		Receive	ed by: (Signat	ure)			Ald Zi	4	°C BC	ottles Receiv	ð	If preserva	tion required by Lo	ogin: Date/Time
Relinquished by : (Signature)		Date:	Time	:	Receive	d for lab by:	(Signati	ure)	an	Date:	41	TI	me: 9:1	5	Hold:		Condition: NCF / DR

Company Name/Address:	A Contractor In		Billing Info	rmation:	4			-	An	alvsis /	Container	/ Preserva	tive		Chain of Custo	dy Page o
Plains All American, Ll 2135 S Loop 250 W Midland, TX 79703	P - GHD		10 Desta	mille Bryan a Dr., Ste. 55 , TX 79705		Pres Chk									- Pa	? ce Analytic
Report to: Becky Haskell			Email To:	kell@ghd.com	glenn.quinney@	and co										Mount Juliet, TN 37122 via this chain of custody
Project Description: Darr Angell #1 SRS Darr Angell #1		City/State Collected:	laris	10.11	A Please C	ircle:									constitutes acknow! Pace Terms and Con	edgment and acceptance
Phone: 432-250-7917	Client Project 11209885/		Cong	Lab Project #											SDG # L	354515
Collected by (print):	Site/Facility II			P.O. #	-				Think - Th						Table # J Acctnum: PL	MS
Collected by (signature):	Rush? (ab MUST Be	Notified)	Quote #	- 19 E 		ib-HCI	1.1							Template: T1	67385
Immediately Packed on Ice N Y 20				Date Re	sults Needed	No. of	40mlAmb-HCI	Car.	a'll,					-5.	Prelogin: P8 PM: 134 - Ma PB:	44025 Irk W. Beasley
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	BTEX 4		the state			C.S.S.			Shipped Via: Remarks	FedEX Groui Sample # (lab
RUD-12	Coval	GW		057420	1310	3	X									-11
MW-7	1	GW		1	1400						indiver-					-17
MW-12		GW			1420	A.M.		- 13 - 13								-1
MW-6		GW			1440				E						-	-1
Dup-1		GW			-											-1
Dup-2		GW			-	4	1									1
1	alter	GW		UNMA	the	1				-						
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		GW			N C		S. State				15-10-14					
		GW			1				「「「「」」							
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:							-1		pH		mp	-	COC Signe Bottles a	mple Receipt C Present/Intact d/Accurate: rrive intact:	C
DW - Drinking Water OT - Other	Samples returned UPS FedEx			Trac	king # 78	26	37	8-0	948	7				Sufficien	ottles used: t volume sent: <u>If Applicat</u> Headspace:	
Relinquished by (Signature)	Dar	1e: 251420	Time:	Rece	eived by: (Signati	ure)	1	3	Trip	o Blank	Received:	Yes No HCL/Me TBR		Preservat	neadspace: ion Correct/Ch n <0.5 mR/hr:	ecked: Y
Refinquished by : (Signature)	Dat		Time:		vived by: (Signati	ure)			TA	24	°C B		yed:	If preservati	on required by Lo	gin: Date/Time
Relinquished by : (Signature)	Dat	e:	Time:	Ren	ived for lab by: (Signatu	(2)		Dat	e:	TI	me:		Hold:		Condition: NCF / OK

Received by OCD: 3/22/2022 12:13:44 PM

Pace Analytical® ANALYTICAL REPORT

Plains All American, LP - GHD

June 24, 2021

Sample Delivery Group: Samples Received: Project Number: Description: Site: Report To:

L1368999 06/22/2021 11209885/02 Darr Angell #1 SRS Darr Angell #1 SRS DARR ANGELL #1 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

Released to Imaging: 0/2/2022 2:57:34 PM Plains All American, LP - GHD

PROJECT: 11209885/02

SDG: L1368999

DATE/TIME: 06/24/21 12:18 PAGE: 1 of 14

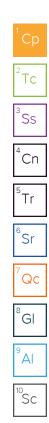


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Cn: Case Narrative	4
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TRRP form S	7
TRRP Exception Reports	8
Sr: Sample Results	9
PUMPS OFF DARR 1 L1368999-01	9
DARR 1 PUMPS ON L1368999-02	10
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SDG: L1368999

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SAMPLE SUMMARY

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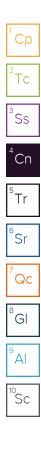
PUMPS OFF DARR 1 L1368999-01 Air			Collected by Ryan Livingston	Collected date/time 06/21/2112:30	Received da 06/22/2109:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method M18-Mod	WG1692980	400	06/22/21 17:19	06/22/21 17:19	DAH	Mt. Juliet, TN
			Collected by	Collected date/time	Received date/time	
DARR 1 PUMPS ON L1368999-02 Air	Ryan Livingston 06/21/21 12:45 06/22/2		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

DATE/TIME: 06/24/21 12:18 PAGE: 3 of 14

CASE NARRATIVE

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

Olivia Studebaker Project Manager



SDG: L1368999

DATE/TIME: 06/24/21 12:18

PAGE: 4 of 14

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.

1. .

Olivia Studebaker Project Manager

Labo	orato	ry Name: Pace Analytical National	LRC Date: 06/24/2021 12:18					
Proj	ect N	lame: Darr Angell #1 SRS Darr Angell #1	Laboratory Job Number: L1368999-01 and 02					
Revi	iewe	r Name: Olivia Studebaker	Prep Batch Number(s): WG1692980					
# 1	A ²	Description	•	Yes	No	NA ³	NR ⁴	ER#
21	OI	Chain-of-custody (C-O-C)						
		Did samples meet the laboratory's standard conditio	ns of sample acceptability upon receipt?	X				
		Were all departures from standard conditions descri	bed in an exception report?	1		Х	1	
2	OI	Sample and quality control (QC) identification				•		
		Are all field sample ID numbers cross-referenced to	the laboratory ID numbers?	X	1	T	Г	1
		Are all laboratory ID numbers cross-referenced to the		X				
3	0	Test reports			I		<u> </u>	<u> </u>
5			ing times?	X	1	1	T	1
		Were all samples prepared and analyzed within hold	•	-				
		Other than those results < MQL, were all other raw v	alues 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 analyte	s not detected?	Х				
		Were all results for soil and sediment samples report	ed on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and s	ediment samples?			Х		
		Were bulk soils/solids samples for volatile analysis e	xtracted with methanol per SW846 Method 5035?	Ī		Х	Ī	
		If required for the project, are TICs reported?				X		
24	0	Surrogate recovery data		I		<u> </u>		-
	l v	Were surrogates added prior to extraction?		X	1	1	1	1
		Were surrogate percent recoveries in all samples with	thin the laboratory OC limits?	X				
25	OI	Test reports/summary forms for blank samples				<u> </u>	1	1
		Were appropriate type(s) of blanks analyzed?		X			ļ	
		Were blanks analyzed at the appropriate frequency?		X			 	
		Were method blanks taken through the entire analyt	ical process, including preparation and, if applicable,	X				
	16 OI	cleanup procedures?						-
		Were blank concentrations < MQL?		Х		<u> </u>		
76	OI	Laboratory control samples (LCS):		1		. – –	1	-
		Were all COCs included in the LCS?		X				
		Was each LCS taken through the entire analytical pro	ocedure, including prep and cleanup steps?	Х				
		Were LCSs analyzed at the required frequency?		X				
		Were LCS (and LCSD, if applicable) %Rs within the la	boratory QC limits?	X				
		Does the detectability check sample data document	the laboratory's capability to detect the COCs at the MDL	X				
		used to calculate the SDLs?		^				
		Was the LCSD RPD within QC limits?		X				
87	OI	Matrix spike (MS) and matrix spike duplicate (MSD) d	ata					
		Were the project/method specified analytes included	d in the MS and MSD?			Х		
		Were MS/MSD analyzed at the appropriate frequenc	γ?	1		Х	1	
		Were MS (and MSD, if applicable) %Rs within the lab	oratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?	,			Х		
85	OI	Analytical duplicate data		1	1		1	
	0	Were appropriate analytical duplicates analyzed for	each matrix?	1	1	X	T	1
		Were analytical duplicates analyzed of the appropriate analytical duplicates analyzed at the appropriate analytical duplicates analytical duplicates analyzed at the appropriate analytical duplicates ana				X		
						X	<u> </u>	
20		Were RPDs or relative standard deviations within the	aboratory QC limits?	I	I	<u> </u>	I	
89	OI	Method quantitation limits (MQLs):		L		.	<u>т</u>	1
		Are the MQLs for each method analyte included in the		X			 	
		Do the MQLs correspond to the concentration of the	lowest non-zero calibration standard?	X				\vdash
		Are unadjusted MQLs and DCSs included in the labo	pratory data package?	X				
210	OI	Other problems/anomalies		-	-		_	
		Are all known problems/anomalies/special condition	s noted in this LRC and ER?	Х				
		Was applicable and available technology used to low the sample results?	ver the SDL to minimize the matrix interference effects on	x				
		Is the laboratory NELAC-accredited under the Texas and methods associated with this laboratory data pa	Laboratory Accreditation Program for the analytes, matrices ckage?	х				
should 2. O = 3. NA 4. NR	d be r = orga \ = No R = No	ntified by the letter "R" must be included in the labora etained and made available upon request for the appr nic analyses; I = inorganic analyses (and general cher t applicable; t reviewed;	tory data package submitted in the TRRP-required report(s). opriate retention period.		dentifie	d by th	e letter	"S"

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

PROJECT: 11209885/02

SDG: L1368999 PAGE: 6 of 14

Lab	orato	ry 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					
Rev	iewe	r Name: Olivia Studebaker	Prep Batch Number(s): WG1692980					
ŗ1	A ²	Description		Yes	No	NA ³	NR ⁴	ER#
S1	OI	Initial calibration (ICAL)						
		Were response factors and/or relative response facto	rs for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria	met?	X				
		Was the number of standards recommended in the m	ethod used for all analytes?	X				
		Were all points generated between the lowest and hi	ghest standard used to calculate the curve?	X	1			
		Are ICAL data available for all instruments used?	-	X	1			1
		Has the initial calibration curve been verified using ar	appropriate second source standard?	X				1
S2	OI	Initial and continuing calibration verification (ICCV and	d CCV) and continuing calibration blank (CCB):			•		
		Was the CCV analyzed at the method-required freque	· · · · · · · · · · · · · · · · · · ·	X				1
		Were percent differences for each analyte within the		X				
		Was the ICAL curve verified for each analyte?		X				
		Was the absolute value of the analyte concentration i	n the inorganic CCB < MDL?			X		1
S3 S4	0	Mass spectral tuning			1			
	-	Was the appropriate compound for the method used	for tuning?	X	1	1	T	Г
		Were ion abundance data within the method-required	•	X				
	0	Internal standards (IS)						<u> </u>
	Ĭ		ethod-required OC limits?	X	Т	Г	1	T
5	OI	Were IS area counts and retention times within the method-required QC limits? Raw data (NELAC Section 5.5.10)			I		I	<u> </u>
S5 S6 S7 S8 S9		Were the raw data (for example, chromatograms, spe	ctral data) roviowod by an analyst?	X	1	1	1	г
		Were data associated with manual integrations flagge	· · · · · · · · · · · · · · · · · · ·	X				
	0	Dual column confirmation					1	L
	10	Did dual column confirmation results meet the metho	d required QC2	1	T	X	1	
	0			1		^	I	L
	0	Tentatively identified compounds (TICs)	C data subject to appropriate checks?	1	1		1	T
	1	If TICs were requested, were the mass spectra and TI		1		Х		<u> </u>
		Interference Check Sample (ICS) results		1	1		r –	1
	1	Were percent recoveries within method QC limits?		<u> </u>	I	Х	I	
		Serial dilutions, post digestion spikes, and method of		1	1		1	1
640		Were percent differences, recoveries, and the linearit	y within the QC limits specified in the method?			Х	I	<u> </u>
S10	OI	Method detection limit (MDL) studies	2		T	T	1	1
		Was a MDL study performed for each reported analyt		X				—
		Is the MDL either adjusted or supported by the analys	sis of DCSs?	X				
S11	OI	Proficiency test reports		1	1	1	1	
		Was the laboratory's performance acceptable on the	applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation		1	-	1	-	
		Are all standards used in the analyses NIST-traceable	e or obtained from other appropriate sources?	Х				
13	OI	Compound/analyte identification procedures		1	1	r		
S14		Are the procedures for compound/analyte identificati	on documented?	X				
	OI	Demonstration of analyst competency (DOC)		-	-		-	
		Was DOC conducted consistent with NELAC Chapter	5?	X				
		Is documentation of the analyst's competency up-to-o		X				
S15	OI	Verification/validation documentation for methods (N		_	_		_	
		Are all the methods used to generate the data docum	nented, verified, and validated, where applicable?	Х				
S16	OI	Laboratory standard operating procedures (SOPs)						
		Are laboratory SOPs current and on file for each meth	nod performed	Х				
houl . O . NA	d be r = orga A = No R = No	etained and made available upon request for the appro inic analyses; I = inorganic analyses (and general cherr t applicable; t reviewed;		Items i	dentifie	ed by th	e letter	"S"

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

PROJECT: 11209885/02

SDG: L1368999 DATE/TIME: 06/24/21 12:18

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.

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;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SAMPLE RESULTS - 01

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Volatile Organic Compounds (MS) by Method M18-Mod

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch	
Analyte			ppbv	ug/m3	ppbv	ug/m3				
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	

SAMPLE RESULTS - 02

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Volatile Organic Compounds (MS) by Method M18-Mod

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
nalyte			ppbv	ug/m3	ppbv	ug/m3			
enzene	71-43-2	78.10	160	511	23000	73500		800	WG1692980
oluene	108-88-3	92.10	400	1510	27200	102000		800	WG1692980
thylbenzene	100-41-4	106	160	694	3800	16500		800	WG1692980
n&p-Xylene	1330-20-7	106	320	1390	15200	65900		800	WG1692980
-Xylene	95-47-6	106	160	694	4320	18700		800	WG1692980
lethyl tert-butyl ether	1634-04-4	88.10	160	577	ND	ND		800	WG1692980
PH (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

Volatile Organic Compounds (MS) by Method M18-Mod

QUALITY CONTROL SUMMARY

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Method Blank (MB)

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

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	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

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

(LCS) R3670687-1 06/22/	21 08:50 • (LCS	D) R3670687-	2 06/22/21 09	:34						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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				

DATE/TIME: 06/24/21 12:18 PAGE: 11 of 14

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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

MDI	Maked Data store Limit
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.

SDG: L1368999 DATE/TIME: 06/24/21 12:18

PAGE: 12 of 14

Received by OCD: 3/22/2022 12:13:44 PACCREDITATIONS & LOCATIONS

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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
alifornia	2932	New Mexico ¹	TN00003
colorado	TN00003	New York	11742
onnecticut	PH-0197	North Carolina	Env375
lorida	E87487	North Carolina ¹	DW21704
eorgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
daho	TN00003	Ohio-VAP	CL0069
linois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
lansas	E-10277	Rhode Island	LAO00356
entucky ¹⁶	KY90010	South Carolina	84004002
entucky ²	16	South Dakota	n/a
ouisiana	AI30792	Tennessee ¹⁴	2006
ouisiana	LA018	Texas	T104704245-20-18
laine	TN00003	Texas ⁵	LAB0152
laryland	324	Utah	TN000032021-11
lassachusetts	M-TN003	Vermont	VT2006
lichigan	9958	Virginia	110033
linnesota	047-999-395	Washington	C847
lississippi	TN00003	West Virginia	233
lissouri	340	Wisconsin	998093910
fontana	CERT0086	Wyoming	A2LA
2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
2LA – ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
PA–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.

SDG: L1368999

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eived by OCD; 3/22/2022 12:13			Billing Info	ormation:	2	1	T			Analysis	/ Contai	ner / Prese	rvative		-	Chain of Custody	Page 151 of																				
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Report to: Becky Haskell			Email To: becky.haskell@ghd.com;glenn.quinney@				and to the						-			12065 Lebanon Rd Mour																					
Project Description: Darr Angell #1 SRS Darr Angell #1		City/State Collected:	Decky.nas	Kell@ghd.com;	Please C	ircle:										Submitting a sample via t constitutes acknowledgn Pace Terms and Conditio https://info.pacelabs.con terms.pdf	ent and acceptance of this found at:																				
Phone: 432-250-7917	Client Projec 11209885	t#		Lab Project # PLAINSGH		Archine Termi				Arden Territo		MT CT ET										SDG # W	36899														
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Packed on Ice N Y Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	M18-MOD									PB: 76 4 Shipped Via: Fe Remarks	-27-21																				
Pumps of Darr 1	G	Air	21-1-21	21-10-2	1 1230	1	NO								4	nemarka	- Q1																				
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S - Soil AIR - Air F - Filter W - Groundwater B - Bioassay /W - WasteWater W - Drinking Water T - Other UPSFedExCourier										pH Flow		_ Temp _ _ Other _		COC S Bottl	Sample Receipt Checklist COC Seal Present/Intact:NP _Y! COC Signed/Accurate:Y! Bottles arrive intact:Y! Correct bottles used:!																						
				Track	ing #					1				Suffi	cient	volume sent: If Applicabl																					
Relinquished by : (Signature)	> Date 71-	e: Jun-Z	Time:		ved by: (Signatu	ire)			T	rip Blan	k Receiv		/MeoH	Prese	rvatio	adspace: on Correct/Chec <0.5 mR/hr:	$\overset{ked:}{\overset{Y}{\overset{Y}{\overset{Z}{\overset{Y}{\overset{Z}{\overset{Y}{\overset{Z}{\overset{Y}{\overset{Z}{\overset{Y}{\overset{Z}{\overset{Y}}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}}{\overset{Y}{\overset{Y}}{\overset{Y}{\overset{Y}}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}{\overset{Y}}{\overset{Y}{\overset{Y}}{\overset{Y}{\overset{Y}}{\overset{Y}{\overset{Y}}{\overset{Y}{\overset{Y}}{\overset{Y}{\overset{Y}}}}}}}}}$																				
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Relinquished by : (Signature)	Date	2:	Time:	Receiv	ved for lab by: (Signatu	re)		-	Date:		Time:	00	Hold:			Condition: NCF / OK																				

Received by OCD: 3/22/2022 12:13:44 PM

August 25, 2021

Plains All American, LP - GHD

Sample Delivery Group: Samples Received: Project Number: Description: Site: Report To:

L1390546 08/13/2021 11209885/02 Darr Angell #1 SRS Darr Angell #1 SRS DARR ANGELL #1 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

Released to Imaging: 0/2/2022 2:57:34 PM Plains All American, LP - GHD

PROJECT: 11209885/02

SDG: L1390546

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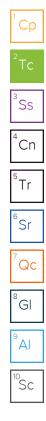
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MW-16R-081121 L1390546-02	11
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MW-18R-081121 L1390546-04	13
MW-19R-081121 L1390546-05	14
MW-20R-081121 L1390546-06	15
MW-21R-081121 L1390546-07	16
MW-22-081121 L1390546-08	17
MW-24-081121 L1390546-09	18
MW-25-081121 L1390546-10	19
MW-2-081121 L1390546-11	20
MW-12R-081121 L1390546-12	21
MW-6-081121 L1390546-13	22
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SAMPLE SUMMARY

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	SAMFLE					
MW-11R-081121 L1390546-01 GW			Collected by Ryan L.	Collected date/time 08/11/21 11:30	Received da 08/13/21 08:	
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
MW-16R-081121 L1390546-02 GW			Collected by Ryan L.	Collected date/time 08/11/21 11:40	Received da 08/13/21 08:	
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
MW-17R-081121 L1390546-03 GW			Collected by Ryan L.	Collected date/time 08/11/21 11:50	Received da 08/13/21 08:	
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
MW-18R-081121 L1390546-04 GW			Collected by Ryan L.	Collected date/time 08/11/21 12:00	Received da 08/13/21 08:	
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
MW-19R-081121 L1390546-05 GW			Collected by Ryan L.	Collected date/time 08/11/21 12:10	Received da 08/13/21 08:	
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 da 08/13/21 08:	
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 da 08/13/21 08:	
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 da 08/13/21 08:	
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

PROJECT: 11209885/02

SDG: L1390546

DAT 08/25

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SAMFLE		MANT			
		Collected by Ryan L.	Collected date/time 08/11/21 12:50	Received da 08/13/21 08:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1723167	1	08/15/21 04:33	08/15/21 04:33	BMB	Mt. Juliet, TN
		Collected by Ryan L.	Collected date/time 08/11/21 13:00	Received da 08/13/21 08:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1723167	1	08/15/21 04:56	08/15/21 04:56	BMB	Mt. Juliet, TN
		Collected by Ryan L.	Collected date/time 08/11/21 13:10	Received da 08/13/21 08:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1723167	1	08/15/21 05:20	08/15/21 05:20	BMB	Mt. Juliet, TN
		Collected by Ryan L.	Collected date/time 08/11/21 13:20	Received da 08/13/21 08:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1723167	1	08/15/21 05:44	08/15/21 05:44	BMB	Mt. Juliet, TN
		Collected by Ryan L.	Collected date/time 08/11/21 13:30	Received da 08/13/21 08:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1723167	1	08/15/21 06:07	08/15/21 06:07	BMB	Mt. Juliet, TN
		Collected by Ryan L.	Collected date/time 08/11/21 00:00	Received da 08/13/21 08:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1723167	1	08/15/21 06:31	08/15/21 06:31	BMB	Mt. Juliet, TN
		Collected by Ryan L.	Collected date/time 08/11/21 00:00	Received da 08/13/21 08:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1723167	1	08/15/21 06:55	08/15/21 06:55	BMB	Mt. Juliet, TN
		Collected by Ryan L.	Collected date/time 08/11/21 13:05	Received da 08/13/21 08:	
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1723167	1	08/15/21 07:18	08/15/21 07:18	BMB	Mt. Juliet, TN
	Batch Batch WG1723167 Batch WG1723167 Batch WG1723167 Batch Bat	Batch Dilution WG1723167 1 Batch Dilution Batch Dilution Batch Dilution	Collected by Ryan L.BatchDilutionPreparation date/timeWG1723167108/15/21 04:33BatchDilutionPreparation date/timeWG1723167108/15/21 04:56WG1723167108/15/21 04:56WG1723167108/15/21 04:50BatchDilutionPreparation date/timeWG1723167108/15/21 05:20BatchDilutionPreparation date/timeWG1723167108/15/21 05:20WG1723167108/15/21 05:40BatchDilutionPreparation date/timeWG1723167108/15/21 05:40WG1723167108/15/21 06:07BatchDilutionPreparation date/timeWG1723167108/15/21 06:07BatchDilutionPreparation date/timeWG1723167108/15/21 06:07BatchDilutionPreparation date/timeWG1723167108/15/21 06:31WG1723167108/15/21 06:31WG1723167108/15/21 06:31WG1723167108/15/21 06:31WG1723167108/15/21 06:35BatchDilutionPreparation date/timeWG1723167108/15/21 06:35BatchDilutionPreparation date/timeWG1723167108/15/21 06:35BatchDilutionPreparation date/timeBatchDilutionPreparation date/timeBatchDiluti	Ryan L.OB/11/21 12:50BatchDilutionPreparation date/timeAnalysis date/timeWG1723167108/15/21 04:3308/15/21 04:33BatchDilutionPreparation date/timeAnalysis date/timeBatchDilutionPreparation date/timeAnalysis date/timeWG1723167108/15/21 04:5608/15/21 04:56WG1723167108/15/21 04:5608/15/21 04:56BatchDilutionPreparation date/timeAnalysis date/timeWG1723167108/15/21 05:2008/15/21 05:20WG1723167108/15/21 05:20Collected date/time 08/11/21 13:20BatchDilutionPreparation date/timeAnalysis date/timeWG1723167108/15/21 05:4408/15/21 05:44WG1723167108/15/21 05:0708/15/21 05:07BatchDilutionPreparation date/timeAnalysis date/timeWG1723167108/15/21 05:0708/15/21 06:07WG1723167108/15/21 06:07Collected date/time 08/11/21 03:00WG1723167108/15/21 06:0708/15/21 06:07BatchDilutionPreparation date/timeAnalysis date/timeWG1723167108/15/21 06:0708/15/21 06:07BatchDilutionPreparation date/timeAnalysis date/timeWG1723167108/15/21 06:0708/15/21 06:31WG1723167108/15/21 06:3108/15/21 06:31WG1723167<	Batch Dilution Preparation date/time Collected date/time date/time Received date/time date/time WG1723167 1 08/15/21 04:33 08/15/21 04:33 BMB WG1723167 1 08/15/21 04:33 08/15/21 04:33 BMB Batch Dilution Preparation date/time Collected date/time date/time Received date/time 08/15/21 04:56 Dilution Preparation date/time Analysis date/time Analysis 08/15/21 04:56 BMB WG1723167 1 08/15/21 04:56 08/15/21 04:56 BMB Collected date/time Collected date/time date/time Received date/time Batch Dilution Preparation date/time Analysis date/time Analysis date/time WG1723167 1 08/15/21 05:20 08/15/21 05:20 BMB Collected by Ryan L Collected date/time date/time Analysis date/time Analysis date/time Analysis date/time WG1723167 1 08/15/21 05:40 08/15/21 05:40 BMB Collected by Ryan L Collected date/time date/time Analysis date/time Analysis date/time B

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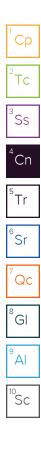
SDG: L1390546 DATE/TIME: 08/25/21 10:32

ME: 10:32 **PAGE:** 4 of 30

CASE NARRATIVE

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

Olivia Studebaker Project Manager



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/TIME: 21 10:32 PAGE: 5 of 30

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.

1. .

Olivia Studebaker Project Manager

Lab	orato	ory Name: Pace Analytical National	LRC Date: 08/25/2021 10:32 Laboratory Job Number: L1390546-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 and 16							
Pro	ject N	Name: Darr Angell #1 SRS Darr Angell #1								
Rev	viewe	r Name: Olivia Studebaker	Prep Batch Number(s): WG1723167							
ب 1	A ²	Description		Yes	No N/	A3 I	NR⁴	ER#		
1	OI	Chain-of-custody (C-O-C)				· .				
••	•	Did samples meet the laboratory's standard condition	ons of sample acceptability upon receipt?	Х				_		
		Were all departures from standard conditions descri		~		x				
22	OI	Sample and quality control (QC) identification			·	<u>^ </u>				
12		Are all field sample ID numbers cross-referenced to	the laboratory ID numbers?	Х			- T			
						-				
20		Are all laboratory ID numbers cross-referenced to th	e corresponding QC data?	Х						
23	OI	Test reports								
		Were all samples prepared and analyzed within hold		Х						
		Other than those results < MQL, were all other raw v	alues bracketed by calibration standards?	Х						
		Were calculations checked by a peer or supervisor?		Х						
		Were all analyte identifications checked by a peer o	r supervisor?	Х						
		Were sample detection limits reported for all analyte	es not detected?	Х						
		Were all results for soil and sediment samples repor	ted on a dry weight basis?	Х						
		Were % moisture (or solids) reported for all soil and s	sediment samples?			X				
		Were bulk soils/solids samples for volatile analysis e	extracted with methanol per SW846 Method 5035?			x				
		If required for the project, are TICs reported?	•			x				
۲4	0	Surrogate recovery data			I	I				
	-	Were surrogates added prior to extraction?		Х		Т		_		
		Were surrogate percent recoveries in all samples wi	thin the laboratory OC limits?	X						
25	OI	Test reports/summary forms for blank samples		^						
3	0						- r	_		
		Were appropriate type(s) of blanks analyzed?		X						
		Were blanks analyzed at the appropriate frequency		Х						
			tical process, including preparation and, if applicable,	х						
		cleanup procedures?		V						
20		Were blank concentrations < MQL?		Х						
R6	OI	Laboratory control samples (LCS):								
		Were all COCs included in the LCS?		Х						
		Was each LCS taken through the entire analytical pr	ocedure, including prep and cleanup steps?	Х						
		Were LCSs analyzed at the required frequency?		Х						
		Were LCS (and LCSD, if applicable) %Rs within the la	boratory QC limits?	Х						
			the laboratory's capability to detect the COCs at the MDL	х						
		used to calculate the SDLs?								
	_	Was the LCSD RPD within QC limits?		Х						
87	OI	Matrix spike (MS) and matrix spike duplicate (MSD) o								
		Were the project/method specified analytes include	d in the MS and MSD?			Х				
		Were MS/MSD analyzed at the appropriate frequence	sy?			X				
		Were MS (and MSD, if applicable) %Rs within the lab	oratory QC limits?			X				
		Were MS/MSD RPDs within laboratory QC limits?				X				
88	OI	Analytical duplicate data			•					
		Were appropriate analytical duplicates analyzed for	each matrix?			хT				
		Were analytical duplicates analyzed at the appropria				x				
		Were RPDs or relative standard deviations within the				x				
29	OI	Method quantitation limits (MQLs):				<u>~ _</u>				
()		Are the MQLs for each method analyte included in the	ha laboratory data packago?	Х				_		
			· · · ·	X						
		Do the MQLs correspond to the concentration of the								
40		Are unadjusted MQLs and DCSs included in the labo	bratory data package?	Х						
210	OI	Other problems/anomalies								
		Are all known problems/anomalies/special condition		Х						
		Was applicable and available technology used to low the sample results?	wer the SDL to minimize the matrix interference effects on	х						
		Is the laboratory NELAC-accredited under the Texas and methods associated with this laboratory data pa	Laboratory Accreditation Program for the analytes, matrices ckage?	х				_		
	ld be r		atory data package submitted in the TRRP-required report(s). ropriate retention period.	Items ic	lentified by	/ the l	etter "S	S"		

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

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Revie #1		lame: Darr Angell #1 SPS Darr Angell #1	LRC Date: 08/25/2021 10:32 Laboratory Job Number: L1390546-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14,								
t ¹		lame: Darr Angell #1 SRS Darr Angell #1	and 16								
	ewe	r Name: Olivia Studebaker									
1	A ²	Description	* 	Yes	No	NA ³	NR ⁴	ER#			
	OI	Initial calibration (ICAL)									
		Were response factors and/or relative response factor	ors for each analyte within QC limits?			Х					
		Were percent RSDs or correlation coefficient criteria	met?	Х							
		Was the number of standards recommended in the m	nethod used for all analytes?	Х							
		Were all points generated between the lowest and hi	ghest standard used to calculate the curve?	Х							
		Are ICAL data available for all instruments used?		Х							
		Has the initial calibration curve been verified using ar	n appropriate second source standard?	Х							
2	OI	Initial and continuing calibration verification (ICCV and	d CCV) and continuing calibration blank (CCB):	•							
		Was the CCV analyzed at the method-required freque	ency?	Х			Ι				
		Were percent differences for each analyte within the		X	1		1	1			
		Was the ICAL curve verified for each analyte?	·	X	1	İ	1	1			
		Was the absolute value of the analyte concentration i	in the inorganic CCB < MDL?			Х	1	<u> </u>			
3	0	Mass spectral tuning				- <u>· ·</u>	1	-			
-	•	Was the appropriate compound for the method used	for tuning?		1	X	1	Г			
		Were ion abundance data within the method-required				X	<u> </u>				
4	0	Internal standards (IS)			1		I				
-	0	Were IS area counts and retention times within the m	ethod-required OC limits?	X	1	1	T	1			
5	OI				1	1	1	L			
5	0I	Raw data (NELAC Section 5.5.10)	etral data) reviewed by an analyst?		1	1	<u>т</u>	T			
		Were the raw data (for example, chromatograms, spe									
	0	Were data associated with manual integrations flagge	ed on the raw data?					<u> </u>			
6	0	Dual column confirmation			1			T			
-	0	Did dual column confirmation results meet the metho	d-required QC?			Х		L			
57	0	Tentatively identified compounds (TICs)			1	1	т —	1			
		If TICs were requested, were the mass spectra and T	IC data subject to appropriate checks?		I	Х		<u> </u>			
8	1	Interference Check Sample (ICS) results			1	1	1				
<u> </u>		Were percent recoveries within method QC limits?				Х					
9		Serial dilutions, post digestion spikes, and method of			1	1	-	-			
		Were percent differences, recoveries, and the linearit	ty within the QC limits specified in the method?			Х					
10	OI	Method detection limit (MDL) studies			-	-		1			
		Was a MDL study performed for each reported analyt		X							
		Is the MDL either adjusted or supported by the analys	sis of DCSs?	X							
511	OI	Proficiency test reports				-	.	_			
		Was the laboratory's performance acceptable on the	applicable proficiency tests or evaluation studies?	Х							
512	OI	Standards documentation				-					
		Are all standards used in the analyses NIST-traceable	e or obtained from other appropriate sources?	Х							
513	OI	Compound/analyte identification procedures				_					
		Are the procedures for compound/analyte identificati	on documented?	Х							
14	OI	Demonstration of analyst competency (DOC)				_					
		Was DOC conducted consistent with NELAC Chapter	5?	Х							
		Is documentation of the analyst's competency up-to-o		Х							
15	OI	Verification/validation documentation for methods (N	ELAC Chapter 5)								
		Are all the methods used to generate the data docum	nented, verified, and validated, where applicable?	Х							
516	OI	Laboratory standard operating procedures (SOPs)									
		Are laboratory SOPs current and on file for each meth	nod performed	Х							

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).

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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" Netris identified by the letter is indicated in the abbrachy data package submits 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;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SAMPLE RESULTS - 01 L1390546

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	08/15/2021 01:23	WG1723167	Tc
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	³ S c
Total Xylene	U		0.000510	0.00150	0.00150	1	08/15/2021 01:23	WG1723167	55
(S) a,a,a-Trifluorotoluene(PID)	105				79.0-125		08/15/2021 01:23	WG1723167	4

⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] GI
PAI
¹⁰ Sc

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SAMPLE RESULTS - 02 L1390546

Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Comp	ounds (GC	C) by Meth	od 8021B						1
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	08/15/2021 01:47	WG1723167	Ťτ
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	³ C c
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	4

³ Ss
⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] GI
PAI
¹⁰ Sc

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SAMPLE RESULTS - 03 L1390546

Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Compounds (GC) by Method 8021B									1
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	08/15/2021 02:10	WG1723167	Tc
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	³ S c
Total Xylene	U		0.000510	0.00150	0.00150	1	08/15/2021 02:10	WG1723167	53
(S) a,a,a-Trifluorotoluene(PID)	104				79.0-125		08/15/2021 02:10	WG1723167	4



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SAMPLE RESULTS - 04 L1390546

Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Compounds (GC) by Method 8021B									1
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	[C
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	08/15/2021 02:34	WG1723167	Ťτ
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	³ C (
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	4

³ Ss
4
^⁴ Cn
-
⁵Tr
⁶ Sr
⁷ Qc
[°] Gl
P
¹⁰ Sc

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SAMPLE RESULTS - 05 L1390546

Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Comp	bounds (GC) by Meth	od 8071B						
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	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	



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SAMPLE RESULTS - 06 L1390546

Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Comp	bounds (GC	C) by Meth	od 8021B						1
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	08/15/2021 03:21	WG1723167	[² T
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	³ c
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	4

^³ Ss
⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] Gl
⁹ Al
¹⁰ Sc

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SAMPLE RESULTS - 07 L1390546

Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Com	oounds (GC)) by Meth	od 8021B						1
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	0.000195	J	0.000190	0.000500	0.000500	1	08/15/2021 03:45	WG1723167	Tc
Toluene	U		0.000412	0.00100	0.00100	1	08/15/2021 03:45	WG1723167	
Ethylbenzene	0.000228	ВJ	0.000160	0.000500	0.000500	1	08/15/2021 03:45	WG1723167	³ Sc
Total Xylene	U		0.000510	0.00150	0.00150	1	08/15/2021 03:45	WG1723167	55
(S) a,a,a-Trifluorotoluene(PID)	104				79.0-125		08/15/2021 03:45	WG1723167	4

Ss
⁴ Cn
5
⁵Tr
6
⁶ Sr
7
(Qc
0
[°] Gl
[°] Al
10
Sc

SDG: L1390546

PAGE: 16 of 30

SAMPLE RESULTS - 08 L1390546

Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Comp	bounds (GC)	by Meth	od 8021B						1
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		
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	L
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

³ Ss
⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] Gl
Pela
¹⁰ Sc

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SAMPLE RESULTS - 09 L1390546

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Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Comp	bounds (GC	C) by Meth	od 8021B						1
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	08/15/2021 04:33	WG1723167	ŤC
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	³ S c
Total Xylene	U		0.000510	0.00150	0.00150	1	08/15/2021 04:33	WG1723167	53
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		08/15/2021 04:33	WG1723167	4

⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] Gl
⁹ Al
¹⁰ Sc

Released to Imaging: 0/2/2022 2:57:34 PM Plains All American, LP - GHD

PROJECT: 11209885/02

SDG: L1390546

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SAMPLE RESULTS - 10

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	08/15/2021 04:56	WG1723167	Tc
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	³ Ss
Total Xylene	U		0.000510	0.00150	0.00150	1	08/15/2021 04:56	WG1723167	55
(S) a,a,a-Trifluorotoluene(PID)	104				79.0-125		08/15/2021 04:56	WG1723167	4

³ Ss
⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] GI
⁹ AI
¹⁰ Sc

SDG: L1390546

SAMPLE RESULTS - 11

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	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

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: 46 DATE/TIME: 08/25/21 10:32

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SAMPLE RESULTS - 12 L1390546

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Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Compounds (GC) by Method 8021B								1	
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	0.000811		0.000190	0.000500	0.000500	1	08/15/2021 05:44	WG1723167	Tc
Toluene	U		0.000412	0.00100	0.00100	1	08/15/2021 05:44	WG1723167	
Ethylbenzene	0.000211	ВJ	0.000160	0.000500	0.000500	1	08/15/2021 05:44	WG1723167	³ S c
Total Xylene	U		0.000510	0.00150	0.00150	1	08/15/2021 05:44	WG1723167	55
(S) a,a,a-Trifluorotoluene(PID)	105				79.0-125		08/15/2021 05:44	WG1723167	4

55
⁴Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] Gl
⁹ Al
¹⁰ Sc

SDG: L1390546

SAMPLE RESULTS - 13 L1390546

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Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Compounds (GC) by Method 8021B								1	
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	0.00405		0.000190	0.000500	0.000500	1	08/15/2021 06:07	WG1723167	Ťτ
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	³ C c
Total Xylene	0.0280		0.000510	0.00150	0.00150	1	08/15/2021 06:07	WG1723167	55
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		08/15/2021 06:07	WG1723167	4

- 25
⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] Gl
⁹ Al
¹⁰ Sc

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SAMPLE RESULTS - 14 L1390546

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Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Compounds (GC) by Method 8021B								1	
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	0.000672		0.000190	0.000500	0.000500	1	08/15/2021 06:31	WG1723167	Tc
Toluene	U		0.000412	0.00100	0.00100	1	08/15/2021 06:31	WG1723167	
Ethylbenzene	0.000197	ВJ	0.000160	0.000500	0.000500	1	08/15/2021 06:31	WG1723167	³ S c
Total Xylene	0.00765		0.000510	0.00150	0.00150	1	08/15/2021 06:31	WG1723167	35
(S) a,a,a-Trifluorotoluene(PID)	106				79.0-125		08/15/2021 06:31	WG1723167	4

Ss
⁴ Cn
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¹⁰ Sc

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SAMPLE RESULTS - 15 L1390546

Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Compounds (GC) by Method 8021B								1	
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	0.0262		0.000190	0.000500	0.000500	1	08/15/2021 06:55	WG1723167	Ťc
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	³ S c
Total Xylene	0.145		0.000510	0.00150	0.00150	1	08/15/2021 06:55	WG1723167	53
(S) a,a,a-Trifluorotoluene(PID)	102				79.0-125		08/15/2021 06:55	WG1723167	4



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SAMPLE RESULTS - 16 L1390546

Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Compounds (GC) by Method 8021B									
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	0.000489	J	0.000190	0.000500	0.000500	1	08/15/2021 07:18	WG1723167	Tc
Toluene	U		0.000412	0.00100	0.00100	1	08/15/2021 07:18	WG1723167	
Ethylbenzene	0.000212	<u>B J</u>	0.000160	0.000500	0.000500	1	08/15/2021 07:18	WG1723167	³ S c
Total Xylene	0.00545		0.000510	0.00150	0.00150	1	08/15/2021 07:18	WG1723167	53
(S) a,a,a-Trifluorotoluene(PID)	105				79.0-125		08/15/2021 07:18	WG1723167	4

ິSs
⁴ Cn
⁵Tr
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⁷ Qc
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SDG: L1390546

DATE/TIME: 08/25/21 10:32

PAGE: 25 of 30 Volatile Organic Compounds (GC) by Method 8021B

QUALITY CONTROL SUMMARY L1390546-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16

Method Blank (MB)

(MB) R3695910-2 08/15/2	1 00:12	
-------------------------	---------	--

(110) 1(3033310-2 00/13/	21 00.12			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	0.000177	<u>J</u>	0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	106			79.0-125

Laboratory Control Sample (LCS)

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

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	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	

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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

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

SDG: L1390546

Received by OCD: 3/22/2022 12:13:44 PACCREDITATIONS & LOCATIONS

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Τс

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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
lorida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
daho	TN00003	Ohio-VAP	CL0069
linois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Cansas	E-10277	Rhode Island	LAO00356
Centucky ¹⁶	KY90010	South Carolina	84004002
Centucky ²	16	South Dakota	n/a
ouisiana	AI30792	Tennessee ¹⁴	2006
ouisiana	LA018	Texas	T104704245-20-18
laine	TN00003	Texas ⁵	LAB0152
laryland	324	Utah	TN000032021-11
lassachusetts	M-TN003	Vermont	VT2006
lichigan	9958	Virginia	110033
linnesota	047-999-395	Washington	C847
lississippi	TN00003	West Virginia	233
lissouri	340	Wisconsin	998093910
lontana	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
PA–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.

SDG: L1390546

DATE/TIME: 08/25/21 10:32

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Company Name/Address: Plains All American, LP - GHD 2135 S Loop 250 W Midland, TX 79703		10 Desta Dr., Ste. 550E			Pres Chk		Analvsis / Container / Preservative								Chain of Cust	ody Page of 7 ace Analytica															
		Midland, TX 79705												A COLORADO																	
Report to: Becky Haskell			Email To: becky.haskell@ghd.com;glenn.quinney@ghd.co													Submitting a same	Mount Juliet, TN 37122 ble via this chain of custody														
Project Description:		City/State	Please Ci				rcle:										constitutes acknowledgment and acceptanc Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standa terms.pdf														
Darr Angell #1 SRS Darr Angell #1	Client Project	Collected:	-69	Lab Proje	ect #	PT MT C	TET				17 -						SDG #	39054													
Phone: 432-250-7917	Site/Facility ID # SRS DARR ANGELL #1				PLAINSGHD-11209885												H147														
offected by (print):			P.O. #				C									Acctnum: PLAINSGHD															
collected by (signature):		ab MUST Be		d Only) Date Results Needed			H-dn									Template: T167385 Prelogin: P863981															
mmediately Packed on Ice N_Y	Next Day Two Day Three Day	5 Day 10 Da						Date Results N						sults Needed		lesults Needed		ults Needed		s Needed	No. of	40mlAmb-HC									
Sample ID	Comp/Grab	Matrix *	Depth	Dat	te	Time	Cntrs	втех.		-							Shipped Via Remarks	Sample # (lab o													
mw-11R-0811021	626	GW		8-11-	21	1130	3	X						REAM		1	4.5	-01													
mw-16R-081121		GW				1140	1						-					- 02													
mw-17R-081121		GW				1150												-03													
mw-18R-081121		GW				1200												-04													
mw -19R-081121		GW				1210												-05													
mw-20R-081121		GW				1220								Colores -				-6													
mw-21 R-081121		GW				1230												-07													
mw-22-081121		GW				1240		12										-0.8													
nw-24-081121		GW				1250			1									-09													
mw-25-0/1121	0	GW		0		1300	0	P					-					-(1)													
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VW - WasteWater W - Drinking Water VT - Other	Samples returned UPS FedEx				Tracking	ş #									Suf. VOA	ficient Zero H	ttles used: volume sen <u>If Applic</u> eadspace:	able													
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Company Name/Address:	-		Billing Info	ormation:		-	1		Ar	nalvsis /	Container	r / Pres	servativ	e			Chain of Custor	y Page_of_
Plains All American, LP	- GHD		10 Desta	mille Bryant a Dr., Ste. 55 J, TX 79705		Pres Chk											Fai) ce Analytical
Midland, TX 79703 Report to: Report to:			Email To:															lount Juliet, TN 37122 via this chain of custody
Becky Haskell Project Description: Darr Angell #1 SRS Darr Angell #1		City/State Collected:	реску.пазі	Kell@gnd.com;	Please Ci PT MT C	rcle:									and the second		constitutes acknowle Pace Terms and Conc	dgment and acceptance of the
Phone: 432-250-7917	Client Project 11209885/			Lab Project # PLAINSGH	D-11209885									-			SDG #	390546
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Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	of Cntrs	BTEX 4						- Billion		The second		Shipped Via: I Remarks	Sample # (lab only)
mw-2-081121	6,26	GW		8-11-21	1300	3	X											-11
mW-12R-081121		GW	-	1	1320	1			「「「」」									-12
mw-6-081121		GW			1330								一個					-13
Dop-1-08/121		GW			-							-						-19
Dup-2-081121 RW-12-081121	P	GW		5	-	0	0		開催され									-12
RW-12-081121	6r25	GW		8-11-21	1305	3	¥			100								-16
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SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	marks:									pH _		Temp Other			COC Sea COC Sig Bottles	1 Pres ned/Ad	Receipt C sent/Intact curate: ve intact: es used:	hecklist : YP Y N N N N
OT - Other	mples returned v UPS FedEx			Trac	king #										Suffici VOA Zer	ent vo	olume sent: If Applicat ispace:	le A N
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Relinquished by : (Signature)	Dat	e:	Time:	1	eived for lab by:		The lot	que	an date ta	ate: 3 13	121	Time:	300		Hold:			NCF / OK

Received by OCD: 3/22/2022 12:13:44 PM

Pace Analytical® ANALYTICAL REPORT September 07, 2021

Plains All American, LP - GHD

Sample Delivery Group: Samples Received: Project Number: Description: Site: Report To:

L1397138 08/31/2021 11209885/02 Darr Angell #1 SRS Darr Angell #1 SRS DARR ANGELL #1 Becky Haskell 2135 S Loop 250 W Midland, TX 79703

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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

Released to Imaging: 0/2/2022 2:57:34 PM Plains All American, LP - GHD

PROJECT: 11209885/02

SDG: L1397138

DATE/TIME: 09/07/2112:45

PAGE: 1 of 16

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SDG: L1397138

DATE/TIME: 09/07/2112:45 PAGE: 2 of 16

SAMPLE SUMMARY

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Ср

Тс

Ss

			Collected by	Collected date/time	Received dat	e/time
DARR 1: SYSTEM OFF L1397138-01 Air				08/30/21 11:25	08/31/21 13:30)
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
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
			Collected by	Collected date/time	Received dat	e/time
DARR 1: SYSTEM ON L1397138-03 Air				08/30/21 11:30	08/31/21 13:30)
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
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

CASE NARRATIVE

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

Olivia Studebaker Project Manager



SDG: L1397138 DATE/TIME: 09/07/2112:45

Г**IME:** I 12:45 PAGE: 4 of 16

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:
 - 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:
 - 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.

1. .

Olivia Studebaker Project Manager

Lab	orato	ry Name: Pace Analytical National	LRC Date: 09/07/2021 12:45					
Pro	ject N	lame: Darr Angell #1 SRS Darr Angell #1	Laboratory Job Number: L1397138-01 and 03					
Rev	viewe	r Name: Olivia Studebaker	Prep Batch Number(s): WG1733073 and WG1733817					
ب 1	A ²	Description		Yes	No	NA ³	NR ⁴	ER#
1	OI	Chain-of-custody (C-O-C)						
		Did samples meet the laboratory's standard condition	is of sample acceptability upon receipt?	Х				
		Were all departures from standard conditions describ				Х		
2	0	Sample and quality control (QC) identification					•	
		Are all field sample ID numbers cross-referenced to the	ne laboratory ID numbers?	X		1	T	T
		Are all laboratory ID numbers cross-referenced to the		X				
3	OI	Test reports	corresponding de data:		1	I	I	
5	0		n n time o 2		1	T	T	1
		Were all samples prepared and analyzed within holdin		X				
		Other than those results < MQL, were all other raw va	lues bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?		X			 	
		Were all analyte identifications checked by a peer or	•	Х				
		Were sample detection limits reported for all analytes	not detected?	Х				
		Were all results for soil and sediment samples reported	ed on a dry weight basis?	Х				
		Were % moisture (or solids) reported for all soil and se	ediment samples?			Х		
		Were bulk soils/solids samples for volatile analysis ex	tracted with methanol per SW846 Method 5035?			Х		
		If required for the project, are TICs reported?				Х		
4	0	Surrogate recovery data					•	
		Were surrogates added prior to extraction?		X		1	1	1
		Were surrogate percent recoveries in all samples with	ain the laboratory OC limits?	X			<u> </u>	
5	0				I		I	
5	0	Test reports/summary forms for blank samples		V	1	1	1	<u> </u>
		Were appropriate type(s) of blanks analyzed?		X			<u> </u>	
		Were blanks analyzed at the appropriate frequency?		X				
		Were method blanks taken through the entire analytic cleanup procedures?	cal process, including preparation and, if applicable,	X				
		· · ·		- V				
		Were blank concentrations < MQL?		X	I	I	I	
8	OI	Laboratory control samples (LCS):			1	1	1	-
		Were all COCs included in the LCS?		X			 	
		Was each LCS taken through the entire analytical pro	cedure, including prep and cleanup steps?	Х				
		Were LCSs analyzed at the required frequency?		X				
		Were LCS (and LCSD, if applicable) %Rs within the lab	poratory QC limits?	Х				
			he laboratory's capability to detect the COCs at the MDL	x				
		used to calculate the SDLs?						
		Was the LCSD RPD within QC limits?		Х				
7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) da	ita	_				
		Were the project/method specified analytes included	in the MS and MSD?			Х		
		Were MS/MSD analyzed at the appropriate frequency	i,			Х		
		Were MS (and MSD, if applicable) %Rs within the labo	ratory QC limits?			Х		
		Were MS/MSD RPDs within laboratory QC limits?				Х		
8	OI	Analytical duplicate data			•	•		
		Were appropriate analytical duplicates analyzed for e	ach matrix?			Х	1	T
		Were analytical duplicates analyzed at the appropriat				X		
		Were RPDs or relative standard deviations within the				X		
9	OI	Method quantitation limits (MQLs):		I	1		I	
9	0			V	1	T	T T	T
		Are the MQLs for each method analyte included in the		X				
		Do the MQLs correspond to the concentration of the		X			 	
	-	Are unadjusted MQLs and DCSs included in the labor	atory data package?	Х				
10	OI	Other problems/anomalies						
		Are all known problems/anomalies/special conditions		Х				
		Was applicable and available technology used to low the sample results?	er the SDL to minimize the matrix interference effects on	х				
		Is the laboratory NELAC-accredited under the Texas I and methods associated with this laboratory data pac	aboratory Accreditation Program for the analytes, matrices kage?	х				
hou . O . N	ld be re = orga A = Not R = Not	etained and made available upon request for the appro nic analyses; I = inorganic analyses (and general chem t applicable; reviewed;			identifie	d by th	e letter	"S"

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

PROJECT: 11209885/02

SDG: L1397138 DATE/TIME: 09/07/2112:45

Labo	orato	ory Name: Pace Analytical National	LRC Date: 09/07/2021 12:45					
Proje	ect N	Jame: Darr Angell #1 SRS Darr Angell #1	Laboratory Job Number: L1397138-01 and 03					
Revi	ewe	r Name: Olivia Studebaker	Prep Batch Number(s): WG1733073 and WG1733817					
¥ ¹	A ²	Description		Yes	No	NA ³	NR ⁴	ER# ⁵
51	OI	Initial calibration (ICAL)						
		Were response factors and/or relative response fact	ors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria	met?	Х				
		Was the number of standards recommended in the	method used for all analytes?	Х				
		Were all points generated between the lowest and h	ighest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?		X				
		Has the initial calibration curve been verified using a	n appropriate second source standard?	X				
2	OI	Initial and continuing calibration verification (ICCV ar	nd CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequ	iency?	X				
		Were percent differences for each analyte within the		X				
		Was the ICAL curve verified for each analyte?		X				
		Was the absolute value of the analyte concentration	in the inorganic CCB < MDL?	1		Х		
3	0	Mass spectral tuning	5			•	•	
	-	Was the appropriate compound for the method used	1 for tunina?	X	Г	Г	Γ	
		Were ion abundance data within the method-require	~	X				
4	0	Internal standards (IS)				•	1	
	•	Were IS area counts and retention times within the r	nethod-required QC limits?	X	T T	Т	T	1
5	OI	Raw data (NELAC Section 5.5.10)					1	-
5	01	Were the raw data (for example, chromatograms, sp	ectral data) reviewed by an analyst?	X	1	1	1	1
		Were data associated with manual integrations flage	· · · · · ·	X				
6	0	Dual column confirmation					1	I
0	0	Did dual column confirmation results meet the method	ad required QC2	T	<u>1 </u>	X	1	1
7	\circ			I		^	I	I
/	0	Tentatively identified compounds (TICs)		1	1		1	1
<u> </u>	1	If TICs were requested, were the mass spectra and				Х	I	I
8	I	Interference Check Sample (ICS) results		<u> </u>	<u> </u>		<u> </u>	1
~ 1		Were percent recoveries within method QC limits?	for the section of th	<u> </u>	I	Х	<u> </u>	I
9	I	Serial dilutions, post digestion spikes, and method o		1	<u> </u>		1	1
10	~	Were percent differences, recoveries, and the linear	ity within the QC limits specified in the method?		I	Х	I	
10	OI	Method detection limit (MDL) studies		1	.	1	-	
		Was a MDL study performed for each reported analy		X	ļ			
		Is the MDL either adjusted or supported by the analy	vsis of DCSs?	X				
11	OI	Proficiency test reports			1	1	-	
		Was the laboratory's performance acceptable on the	e applicable proficiency tests or evaluation studies?	X				
12	OI	Standards documentation			r	-	-	
		Are all standards used in the analyses NIST-traceable	e or obtained from other appropriate sources?	X				
13	OI	Compound/analyte identification procedures						
		Are the procedures for compound/analyte identification	tion documented?	Х				
14	OI	Demonstration of analyst competency (DOC)		<u> </u>		•	-	
		Was DOC conducted consistent with NELAC Chapte	r 5?	X				
		Is documentation of the analyst's competency up-to	date and on file?	Х				
15	OI	Verification/validation documentation for methods (N	IELAC Chapter 5)					
		Are all the methods used to generate the data docu	mented, verified, and validated, where applicable?	X				
16	OI	Laboratory standard operating procedures (SOPs)						
		Are laboratory SOPs current and on file for each me	thod performed	X				
hould 2. O = 3. NA 4. NR	d be re = orga = Not = Not	ntified by the letter "R" must be included in the labora etained and made available upon request for the appr nic analyses; I = inorganic analyses (and general che t applicable; t reviewed;	tory data package submitted in the TRRP-required report(s). ropriate retention period.		dentifie	ed by th	e letter	"S"

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

PROJECT: 11209885/02

SDG: L1397138 DATE/TIME: 09/07/2112:45

ER # ¹		
Poviowor	^r Name: Olivia Studebaker	Prep Batch Number(s): WG1733073 and WG1733817
Project N	lame: Darr Angell #1 SRS Darr Angell #1	Laboratory Job Number: L1397138-01 and 03
Laborato	ry Name: Pace Analytical National	LRC Date: 09/07/2021 12:45

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

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;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SAMPLE RESULTS - 01 L1397138

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Volatile Organic Compounds (MS) by Method M18-Mod

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
enzene	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
PH (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

SDG: L1397138

PAGE:

SAMPLE RESULTS - 03

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Volatile Organic Compounds (MS) by Method M18-Mod

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
enzene	71-43-2	78.10	160	511	40400	129000		800	WG1733073
oluene	108-88-3	92.10	2500	9420	84000	316000		5000	WG1733817
Ethylbenzene	100-41-4	106	160	694	16400	71100		800	WG1733073
n&p-Xylene	1330-20-7	106	320	1390	67400	292000		800	WG1733073
-Xylene	95-47-6	106	160	694	21300	92300		800	WG1733073
lethyl tert-butyl ether	1634-04-4	88.10	160	577	ND	ND		800	WG1733073
PH (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

Volatile Organic Compounds (MS) by Method M18-Mod

QUALITY CONTROL SUMMARY L1397138-01,03

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Method Blank (MB)

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

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	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				60.0-140

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

(LCS) R3699103-1 09/01/2	1 08:55 • (LCSI	D) R3699103-2	09/01/21 09:3	6						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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				

DATE/TIME: 09/07/2112:45

PAGE: 11 of 16 Volatile Organic Compounds (MS) by Method M18-Mod

QUALITY CONTROL SUMMARY

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Method Blank (MB)

(MB) R3699995-3 09/02/2	21 10:17			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	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 • (LCS	D) R3699995	-2 09/02/21 09	9:35						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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				

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DATE/TIME: 09/07/2112:45

PAGE: 12 of 16

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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.

SDG: L1397138 DATE/TIME: 09/07/2112:45

Received by OCD: 3/22/2022 12:13:44 PACCREDITATIONS & LOCATIONS

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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
alifornia	2932	New Mexico ¹	TN00003
olorado	TN00003	New York	11742
onnecticut	PH-0197	North Carolina	Env375
lorida	E87487	North Carolina ¹	DW21704
eorgia	NELAP	North Carolina ³	41
ieorgia ¹	923	North Dakota	R-140
daho	TN00003	Ohio-VAP	CL0069
linois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
lansas	E-10277	Rhode Island	LAO00356
entucky ¹⁶	KY90010	South Carolina	84004002
entucky ²	16	South Dakota	n/a
ouisiana	AI30792	Tennessee ¹⁴	2006
ouisiana	LA018	Texas	T104704245-20-18
laine	TN00003	Texas ⁵	LAB0152
laryland	324	Utah	TN000032021-11
lassachusetts	M-TN003	Vermont	VT2006
lichigan	9958	Virginia	110033
linnesota	047-999-395	Washington	C847
lississippi	TN00003	West Virginia	233
lissouri	340	Wisconsin	998093910
lontana	CERT0086	Wyoming	A2LA
2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
PA–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.

SDG: L1397138

DATE/TIME: 09/07/2112:45

etved by OCD: 3/22/2022 12:1.	2.44 PM		Billing Infor	rmation:					Analysis	/ Contai	iner / Pres	ervative		Chain of Cust	ody Page 196 of		
Plains All American, LP -	GHD		Attn: Ca	mille Bryant		Pres				1			-	-	1 uge 170 of 2		
2135 S Loop 250 W Midland, TX 79703			10 Desta	a Dr., Ste. 550E , TX 79705		Chk								Pa	Ce Analytical * nal Center for Testing & Innovation		
Report to: Becky Haskell				kell@ghd.com;glei	nn.quinney@	ghd.co	and the second s							Phone: 615-758-5 Submitting a sam	ad Mt Juliet, TN 37122 858 Alt: 800-767-5859 ple via this chain of custody wledgment and acceptance of the		
Project Description: Darr Angell #1 SRS Darr Angell #1	arr Z	City/State Collected:	Lowingto		Please Ci PT MT C							51		Pace Terms and C	onditions found at: abs.com/hubfs/pas-standard-		
Phone: 432-250-7917	1120988	5/02021.	nt Project # 209885/02021. (Darr 1) PLAINSGH 209891/2021.1 (Darr 2)		11209885	1						であり		SDC "	2225		
Collected by (print): Health Boyd, Byan Livingston	Site/Facility ID #				# P.O.												
Collected by (signature)!	Rush? (Lab MUST Be Notified)			Quote #			edlar		1	and the second				Template: T Prelogin: P	A CONTRACTOR OF A CONTRACTOR O		
Immediately Packed on Ice N Y	Next	Day 5 Da Day 10 D	y (Rad Only)	Date Result	s Needed	No. of	TOOM					-		PB: Cf	Mark W. Beasley		
Sample ID	Comp/Gra	b Matrix *	Depth	Date	Time	Cntrs	M18-P							Shipped Via Remarks	Sample # (lab only)		
Darr 1: System off	Grab	Air	-	8/30/21	1125	1	×								-01		
Darr 1: 3ystem off	1	Air	-		1127	1	X			1		1		100 H 4 4	- 02		
Darr 1: System on		Air	-		1130	11-	x			100					- 63		
Darr 1: System on		Air	-		1132	1	+	1		33		See.			-04		
Darr Z: System off			-		1250	11	×					1			-05		
Darr 2: System off			-		1252	11	K		1	11					-06		
Darrzi System on			-		1255	11	K			13.1			100		- 07		
Dur- 2: System on	X		-	×	1257	1	X								-08		
									1								
Matrix: Re SS - Soil AIR - Air F - Filter SW - Groundwater B - Bioassay NW - WasteWater	Remarks:								pH Temp Flow Other		COC Sea COC Sid Bottles	Sample Receipt Checklist					
OT Othor	mples returne UPS Fed	ed via: Ex Courier		Tracki	ng # 0	151	73	inss	769	1		6	Suffic	ient volume sen <u>If Applic</u> ro Headspace:	t: ZY_N		
Relinquished by : (Signature)		Date:	Time	Receiv	ed by: (Signat	ture)	and designed on		Trip Bla	nk Recei	ived: Yes HC TB	MeoH	Preserv	vation Correct/ reen <0.5 mR/hr			
Relinquished by : (Signature)		Date:	Time	Receiv	ed by: (Signat	ture)			Temp:	E	C Bottle		~	vation required by	Login: Date/Time		
Relinquished by : (Signature)		Date:	Time	Receiv	ed for ab by:	Signat	ure)	~	Date!	121	Time:	3:30	Hold:		Condition: NCF OK		

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R3/R4/RX/EX

L1397138 *PLAINSGHD* Change Order

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

Time estimate: oh Time spent: oh

Members

os Olivia Studebaker

Received by OCD: 3/22/2022 12:13:44 PM

Pace Analytical[®] ANALYTICAL REPORT

Plains All American, LP - GHD

Sample Delivery Group: Samples Received: Project Number: Description: Site: Report To: L1431282 11/13/2021 11209885/02 Darr Angell #1 SRS Darr Angell #1 SRS DARR ANGELL #1 Becky Haskell 2135 S Loop 250 W Midland, TX 79703 Cp ²Tc ³Ss ⁴Cn ⁵Tr ⁶Sr ⁷Qc ⁸Gl ⁹Al ¹⁰Sc

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

Released to Imaging: 0/2/2022 2:57:34 PM Plains All American, LP - GHD PROJECT: 11209885/02

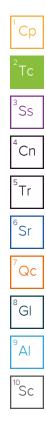
SDG: L1431282 DATE/TIME: 11/26/21 15:44

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SAMPLE SUMMARY

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MW11R L1431282-01 GW			David Fletcher	11/11/21 10:00	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
			Collected by David Fletcher	Collected date/time 11/11/21 10:15	Received dat 11/13/21 17:15	te/time
MW16R L1431282-02 GW			Daviu Fletchei	11/11/21 10.15	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
			Collected by	Collected date/time	Received dat	te/time
MW17R L1431282-03 GW			David Fletcher	11/11/21 10:30	11/13/21 17:15	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
Valatila Arganic Compounds (CC) by Mathad 2021D	WG1777055	1	date/time 11/19/21 10:19	date/time	IVU	Mt Juliat TN
Volatile Organic Compounds (GC) by Method 8021B	WG1///U55	1	11/19/21 10:19	11/19/21 10:19	JAH	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
MW18R L1431282-04 GW			David Fletcher	11/11/21 10:45	11/13/21 17:15	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (GC) by Method 8021B	WG1777055	1	11/19/21 10:41	11/19/21 10:41	JAH	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
MW19R L1431282-05 GW			David Fletcher	11/11/21 11:00	11/13/21 17:15	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (GC) by Method 8021B	WG1777055	1	11/19/21 11:03	11/19/21 11:03	JAH	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
MW20R L1431282-06 GW			David Fletcher	11/11/21 11:15	11/13/21 17:15	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
Valatila Orazaic Compounds (CC) by Mathad 2024D	WG1777055	1	date/time	date/time	1411	Mt Iuliat Th
Volatile Organic Compounds (GC) by Method 8021B	WG1///U55	1	11/19/21 11:25	11/19/21 11:25	JAH	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
MW24 L1431282-07 GW			David Fletcher	11/11/21 11:30	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
			Collected by	Collected date/time		te/time
MW25 L1431282-08 GW			David Fletcher	11/11/21 11:45	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

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SAMPLE SUMMARY

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MW7 L1431282-09 GW			Collected by David Fletcher	Collected date/time 11/11/21 12:00	Received dat 11/13/21 17:15	te/time
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
MW21R L1431282-10 GW			Collected by David Fletcher	Collected date/time 11/11/21 12:15	Received dat 11/13/21 17:15	te/time
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
			Collected by	Collected date/time		te/time
MW22 L1431282-11 GW			David Fletcher	11/11/21 12:30	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
RW12 L1431282-12 GW			Collected by David Fletcher	Collected date/time 11/11/21 12:45	Received dat 11/13/21 17:15	te/time
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
MW12R L1431282-13 GW			Collected by David Fletcher	Collected date/time 11/11/21 13:15	Received dat 11/13/21 17:15	te/time
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 dat 11/13/21 17:15	te/time
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
WW2 L1431282-15 GW			Collected by David Fletcher	Collected date/time 11/11/21 15:00	Received dat 11/13/21 17:15	te/time
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 dat 11/13/21 17:15	te/time
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

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CASE NARRATIVE

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

Jason Romer Project Manager

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID

Project Sample ID MW6 Method 8021B

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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

Lab	orato	ry Name: Pace Analytical National	LRC Date: 11/26/2021 15:44					
Proj	ject N	lame: Darr Angell #1 SRS Darr Angell #1	Laboratory Job Number: L1431282-01, 02, 03, 04, 05 and 16	, 06, 0	7, 08, 0)9, 10,	11, 12, 1	13, 14, 1
Rev	viewe	r Name: Jason Romer	Prep Batch Number(s): WG1775175 and WG1777055					
¥1	A ²	Description		Yes	No	NA ³	NR ⁴	ER# ⁵
21	OI	Chain-of-custody (C-O-C)						
		Did samples meet the laboratory's standard condition	ons of sample acceptability upon receipt?	X				
		Were all departures from standard conditions descri	ibed in an exception report?			Х		
2	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 th		X				
3	0	Test reports						
-		Were all samples prepared and analyzed within hole	ding times?	X	1	1	1	1
		Other than those results < MQL, were all other raw	-	X				
		Were calculations checked by a peer or supervisor?		X			1	
		Were all analyte identifications checked by a peer of supervisor		X				
		Were sample detection limits reported for all analyte	-	X				
		Were all results for soil and sediment samples report		X				
		· · ·	, ,	^		V		
		Were % moisture (or solids) reported for all soil and	-			X		
		Were bulk soils/solids samples for volatile analysis e	extracted with methanol per SW846 Method 5035?			X		
	-	If required for the project, are TICs reported?				Х		
4	0	Surrogate recovery data				-	-	-
		Were surrogates added prior to extraction?		X				
	-	Were surrogate percent recoveries in all samples w	ithin the laboratory QC limits?		Х			1
5	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 analy cleanup procedures?	tical process, including preparation and, if applicable,	x				
		Were blank concentrations < MQL?			Х			2
6	OI	Laboratory control samples (LCS):						
		Were all COCs included in the LCS?		X				
		Was each LCS taken through the entire analytical pr	rocedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?		X	1		1	
		Were LCS (and LCSD, if applicable) %Rs within the la	aboratory QC limits?	Х				
		Does the detectability check sample data document used to calculate the SDLs?	t the laboratory's capability to detect the COCs at the MDL	х				
		Was the LCSD RPD within QC limits?			Х			3
27	OI	Matrix spike (MS) and matrix spike duplicate (MSD) of	data					-
	÷.	Were the project/method specified analytes include		I	1	X	1	1
		Were MS/MSD analyzed at the appropriate frequence				X		
		Were MS (and MSD, if applicable) %Rs within the lab				X		
		Were MS/MSD RPDs within laboratory QC limits?				X		
8	OI	Analytical duplicate data		I	1			-
.0		Were appropriate analytical duplicates analyzed for	each matrix?	1	1	X	T	1
		Were analytical duplicates analyzed to Were analytical duplicates analyzed at the appropria				X		
		Were RPDs or relative standard deviations within the				X		
9	0			1			1	
.9	0	Method quantitation limits (MQLs):	ha labavatawi data nagliana?		1	1	1	1
		Are the MQLs for each method analyte included in t		X				
		Do the MQLs correspond to the concentration of the		X		-		
10		Are unadjusted MQLs and DCSs included in the laboration		X			L	
10	OI	Other problems/anomalies		1		1	T	1 -
			is noted in this LRC and ER? wer the SDL to minimize the matrix interference effects on	x	X			4
			b Laboratory Accreditation Program for the analytes, matrices	x				┼──
		and methods associated with this laboratory data pa	ackage?					
houl 2. O	ld be re = orga	entified by the letter "R" must be included in the laborate tained and made available upon request for the appunic analyses; I = inorganic analyses (and general che t applicable; t reviewed;		ltems i	dentifie	ed by th	e letter	"S"

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

PROJECT: 11209885/02

L1431282

SDG:

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Lab	orato	ory Name: Pace Analytical National	LRC Date: 11/26/2021 15:44								
Pro <u></u>	ject N	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, 1 and 16								
Rev	viewe	er Name: Jason Romer	Prep Batch Number(s): WG1775175 and WG1777055								
# ¹	A ²	Description		Yes	No	NA ³	NR ⁴	ER#			
51	OI	Initial calibration (ICAL)									
		Were response factors and/or relative response factor	ors for each analyte within QC limits?	Х							
		Were percent RSDs or correlation coefficient criteria	met?	X							
		Was the number of standards recommended in the n	nethod used for all analytes?	X			1				
		Were all points generated between the lowest and h	ighest standard used to calculate the curve?	X							
		Are ICAL data available for all instruments used?	-	Х							
		Has the initial calibration curve been verified using a	n appropriate second source standard?	Х			1				
2	OI	Initial and continuing calibration verification (ICCV an			•						
		Was the CCV analyzed at the method-required frequ	ency?	Х			Γ	1			
		Were percent differences for each analyte within the	•	Х			1				
		Was the ICAL curve verified for each analyte?		X							
		Was the absolute value of the analyte concentration	in the inorganic CCB < MDL?			Х					
3	0	Mass spectral tuning		I	1	<u> </u>	1				
-	-	Was the appropriate compound for the method used	for tunina?	X	1	1	Г	T			
		Were ion abundance data within the method-require		X							
4	0	Internal standards (IS)		<u> </u>	1	1	1				
	Ŭ	Were IS area counts and retention times within the m	ethod-required QC limits?	X	1	T	T	1			
5	OI	Raw data (NELAC Section 5.5.10)		1	1	1	<u> </u>				
<u> </u>		Were the raw data (for example, chromatograms, spe	octral data) reviewed by an analyst?	X	1	Т	г	T			
		Were data associated with manual integrations flagg					<u> </u>				
6	0	Dual column confirmation			1	1	1	<u> </u>			
0	U U	Did dual column confirmation results meet the metho	pd-required QC?		1	X	г	1			
7	0	Tentatively identified compounds (TICs)			1			<u> </u>			
	Ŭ	If TICs were requested, were the mass spectra and T	IC data subject to appropriate checks?	- T	1	X	T	T			
8	1	Interference Check Sample (ICS) results		I	1		I				
0	1	Were percent recoveries within method QC limits?			1	X	T	T			
9	1	Serial dilutions, post digestion spikes, and method of	standard additions				<u> </u>				
9	1	Were percent differences, recoveries, and the lineari			1	X	1	T			
10	01	Method detection limit (MDL) studies	ty within the GC limits specified in the method:			<u> </u>	I				
10		Was a MDL study performed for each reported analy	+^2		1	T	T T	<u> </u>			
							<u> </u>				
11		Is the MDL either adjusted or supported by the analy		^	<u> </u>		I				
11	OI	Proficiency test reports	annicable profisioner tests or evaluation studies?	X		1	r –	1			
10		Was the laboratory's performance acceptable on the	applicable proficiency tests or evaluation studies?	X	<u> </u>		<u> </u>				
12	OI	Standards documentation	a su altain ad fuana ath an annuantiata agusaga?		1	1	1	1			
10		Are all standards used in the analyses NIST-traceable	e or obtained from other appropriate sources?	X							
13	OI	Compound/analyte identification procedures	i a constanta do		1	1	1	T			
1.4		Are the procedures for compound/analyte identificat	ion documented?	X	I		I				
14	OI	Demonstration of analyst competency (DOC)	50		1	T	r –	T			
		Was DOC conducted consistent with NELAC Chapter		<u> </u>							
1		Is documentation of the analyst's competency up-to-		X				1			
15	OI	Verification/validation documentation for methods (N			1	-	r	-			
		Are all the methods used to generate the data docur	nented, verified, and validated, where applicable?	X	I		I				
16	OI	Laboratory standard operating procedures (SOPs)			1	r					
		Are laboratory SOPs current and on file for each met	hod performed		1	1	1	1			

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).

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Laborato	ory Name: Pace Analytical National	LRC Date: 11/26/2021 15:44					
Project N	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					
Reviewe	er 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.						
	 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. 						

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).

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Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	11/19/2021 09:35	WG1777055	Tc
Toluene	U		0.000412	0.00100	0.00100	1	11/19/2021 09:35	WG1777055	
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/19/2021 09:35	WG1777055	³ Ss
Total Xylene	U		0.000510	0.00150	0.00150	1	11/19/2021 09:35	WG1777055	5
(S) a,a,a-Trifluorotoluene(PID)	99.1				79.0-125		11/19/2021 09:35	WG1777055	⁴ C

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

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
Acenaphthene	U		0.0000190	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
Acenaphthylene	U		0.0000171	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
Benzo(a)anthracene	U		0.0000203	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
Benzo(a)pyrene	U	<u>J3</u>	0.0000184	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
Benzo(b)fluoranthene	U		0.0000168	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
Benzo(g,h,i)perylene	U	<u>J3</u>	0.0000184	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
Benzo(k)fluoranthene	U	<u>J3</u>	0.0000202	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
Chrysene	U		0.0000179	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
Dibenz(a,h)anthracene	U	<u>J3</u>	0.0000160	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
Dibenzofuran	U		0.0000191	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
Fluoranthene	U		0.0000270	0.000100	0.000100	1	11/19/2021 02:01	WG1775175
Fluorene	U		0.0000169	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
ndeno(1,2,3-cd)pyrene	U	<u>J3</u>	0.0000158	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
Naphthalene	U		0.0000917	0.000250	0.000250	1	11/19/2021 02:01	WG1775175
Phenanthrene	U		0.0000180	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
Pyrene	U		0.0000169	0.0000500	0.0000500	1	11/19/2021 02:01	WG1775175
I-Methylnaphthalene	U		0.0000687	0.000250	0.000250	1	11/19/2021 02:01	WG1775175
2-Methylnaphthalene	U		0.0000674	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

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Volatile Organic Compounds (GC) by Method 8021B

	(-	-,,							1 C
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— Cp
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	11/19/2021 09:57	WG1777055	ŤC
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	³ Ss
Total Xylene	U		0.000510	0.00150	0.00150	1	11/19/2021 09:57	WG1777055	55
(S) a,a,a-Trifluorotoluene(PID)	99.6				79.0-125		11/19/2021 09:57	WG1777055	⁴ Cr

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

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
Acenaphthene	U		0.0000190	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
Acenaphthylene	U		0.0000171	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
Benzo(a)anthracene	U		0.0000203	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
Benzo(a)pyrene	U	<u>J3</u>	0.0000184	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
Benzo(b)fluoranthene	U		0.0000168	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
Benzo(g,h,i)perylene	U	<u>J3</u>	0.0000184	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
Benzo(k)fluoranthene	U	<u>J3</u>	0.0000202	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
Chrysene	U		0.0000179	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
Dibenz(a,h)anthracene	U	<u>J3</u>	0.0000160	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
Dibenzofuran	U		0.0000191	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
Fluoranthene	U		0.0000270	0.000100	0.000100	1	11/19/2021 02:21	WG1775175
Fluorene	U		0.0000169	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
ndeno(1,2,3-cd)pyrene	U	<u>J3</u>	0.0000158	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
Naphthalene	U		0.0000917	0.000250	0.000250	1	11/19/2021 02:21	WG1775175
Phenanthrene	U		0.0000180	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
Pyrene	U		0.0000169	0.0000500	0.0000500	1	11/19/2021 02:21	WG1775175
-Methylnaphthalene	U		0.0000687	0.000250	0.000250	1	11/19/2021 02:21	WG1775175
2-Methylnaphthalene	U		0.0000674	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

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Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Comp	pounds (G	C) by Meth	od 8021B						1
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	11/19/2021 10:19	WG1777055	Tc
Toluene	U		0.000412	0.00100	0.00100	1	11/19/2021 10:19	WG1777055	
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/19/2021 10:19	WG1777055	³ Sc
Total Xylene	U		0.000510	0.00150	0.00150	1	11/19/2021 10:19	WG1777055	55
(S) a,a,a-Trifluorotoluene(PID)	99.3				79.0-125		11/19/2021 10:19	WG1777055	4



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Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Comp	bounds (GC	2) by Meth	od 8021B						1
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— Cp
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	11/19/2021 10:41	WG1777055	Tc
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	³ C c
Total Xylene	U		0.000510	0.00150	0.00150	1	11/19/2021 10:41	WG1777055	35
(S) a,a,a-Trifluorotoluene(PID)	100				79.0-125		11/19/2021 10:41	WG1777055	4

³ Ss
⁴Cn
⁵ Tr
⁶ Sr
⁷ Qc
[°] Gl
⁹ Al
¹⁰ Sc

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Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Comp	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	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

⁴ Cn
⁵ Tr
⁶ Sr
⁷ Qc
QC
-
°GI
⁹ Al
Sc

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Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	11/19/2021 11:25	WG1777055	Tc
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	³ Ss
Total Xylene	U		0.000510	0.00150	0.00150	1	11/19/2021 11:25	WG1777055	55
(S) a,a,a-Trifluorotoluene(PID)	99.6				79.0-125		11/19/2021 11:25	WG1777055	4

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Volatile Organic Compounds (GC) by Method 8021B

5 1	X.	/ /						
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	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

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	- [
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		L
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	Ì
Benzo(a)anthracene	U		0.0000203	0.0000500	0.0000500	1	11/19/2021 02:41	WG1775175	
Benzo(a)pyrene	U	<u>J3</u>	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	<u>J3</u>	0.0000184	0.0000500	0.0000500	1	11/19/2021 02:41	WG1775175	
Benzo(k)fluoranthene	U	<u>J3</u>	0.0000202	0.0000500	0.0000500	1	11/19/2021 02:41	WG1775175	Li
Chrysene	U		0.0000179	0.0000500	0.0000500	1	11/19/2021 02:41	WG1775175	
Dibenz(a,h)anthracene	U	<u>J3</u>	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	
ndeno(1,2,3-cd)pyrene	U	<u>J3</u>	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	

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Volatile Organic Compounds (GC) by Method 8021B

		o, o,							
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	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	²
Toluene	U		0.000412	0.00100	0.00100	1	11/19/2021 12:09	WG1777055	L
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	4

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

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		L
Anthracene	U		0.0000190	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	e
Acenaphthene	U		0.0000190	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	
Acenaphthylene	U		0.0000171	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	6
Benzo(a)anthracene	U		0.0000203	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	
Benzo(a)pyrene	U	<u>J3</u>	0.0000184	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	L
Benzo(b)fluoranthene	U		0.0000168	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	٤
Benzo(g,h,i)perylene	U	<u>J3</u>	0.0000184	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	
Benzo(k)fluoranthene	U	<u>J3</u>	0.0000202	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	9
Chrysene	U		0.0000179	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	Ň
Dibenz(a,h)anthracene	U	<u>J3</u>	0.0000160	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	L
Dibenzofuran	U		0.0000191	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	1
Fluoranthene	U		0.0000270	0.000100	0.000100	1	11/19/2021 03:01	WG1775175	
Fluorene	U		0.0000169	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	_
Indeno(1,2,3-cd)pyrene	U	<u>J3</u>	0.0000158	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	
Naphthalene	U		0.0000917	0.000250	0.000250	1	11/19/2021 03:01	WG1775175	
Phenanthrene	U		0.0000180	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	
Pyrene	U		0.0000169	0.0000500	0.0000500	1	11/19/2021 03:01	WG1775175	
1-Methylnaphthalene	U		0.0000687	0.000250	0.000250	1	11/19/2021 03:01	WG1775175	
2-Methylnaphthalene	U		0.0000674	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	

SDG: L1431282 DATE/TIME: 11/26/21 15:44

SAMPLE RESULTS - 09 L1431282

Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Comp	oounds (GC)	by Meth	od 8021B						
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	0.000667		0.000190	0.000500	0.000500	1	11/19/2021 12:31	WG1777055	Tc
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	³ C c
Total Xylene	U		0.000510	0.00150	0.00150	1	11/19/2021 12:31	WG1777055	03
(S) a,a,a-Trifluorotoluene(PID)	98.2				79.0-125		11/19/2021 12:31	WG1777055	4

SS
⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] GI
⁹ Al
¹⁰ Sc

PROJECT: 11209885/02

SDG: L1431282

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Volatile Organic Compounds (GC) by Method 8021B

		-,,							1' 6
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		 2
Benzene	U		0.000190	0.000500	0.000500	1	11/19/2021 12:53	WG1777055	 ľΤ
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	3
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	4

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

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	- 5
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		
Anthracene	U		0.0000190	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	6
Acenaphthene	U		0.0000190	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	
Acenaphthylene	U		0.0000171	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	7
Benzo(a)anthracene	U		0.0000203	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	Í
Benzo(a)pyrene	U	<u>J3</u>	0.0000184	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	
Benzo(b)fluoranthene	U		0.0000168	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	8
Benzo(g,h,i)perylene	U	<u>J3</u>	0.0000184	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	
Benzo(k)fluoranthene	U	J3	0.0000202	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	9
Chrysene	U		0.0000179	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	Ĵ
Dibenz(a,h)anthracene	U	<u>J3</u>	0.0000160	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	
Dibenzofuran	U		0.0000191	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	10
Fluoranthene	U		0.0000270	0.000100	0.000100	1	11/19/2021 03:21	WG1775175	
Fluorene	U		0.0000169	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	_
Indeno(1,2,3-cd)pyrene	U	<u>J3</u>	0.0000158	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	
Naphthalene	U		0.0000917	0.000250	0.000250	1	11/19/2021 03:21	WG1775175	
Phenanthrene	U		0.0000180	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	
Pyrene	U		0.0000169	0.0000500	0.0000500	1	11/19/2021 03:21	WG1775175	
1-Methylnaphthalene	U		0.0000687	0.000250	0.000250	1	11/19/2021 03:21	WG1775175	
2-Methylnaphthalene	U		0.0000674	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	

SDG: L1431282 DATE/TIME: 11/26/21 15:44 Collected date/time: 11/11/21 12:30

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Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	(`
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
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	3
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	4

⁵Tr
⁶ Sr
⁷ Qc
[°] Gl
⁹ Al
¹⁰ Sc

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Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Comp	bounds (GC) by Meth	od 8021B						1
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	U		0.000190	0.000500	0.000500	1	11/19/2021 13:37	WG1777055	Tc
Toluene	U		0.000412	0.00100	0.00100	1	11/19/2021 13:37	WG1777055	
Ethylbenzene	0.000219	ВJ	0.000160	0.000500	0.000500	1	11/19/2021 13:37	WG1777055	³ Ss
Total Xylene	0.0129		0.000510	0.00150	0.00150	1	11/19/2021 13:37	WG1777055	55
(S) a,a,a-Trifluorotoluene(PID)	100				79.0-125		11/19/2021 13:37	WG1777055	4

⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[®] Gl
⁹ Al
Sc

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Volatile Organic Compounds (GC) by Method 8021B

Volatile Organic Comp	bounds (GC)	by Meth	od 8021B						1
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	0.00135		0.000190	0.000500	0.000500	1	11/19/2021 13:59	WG1777055	Tc
Toluene	U		0.000412	0.00100	0.00100	1	11/19/2021 13:59	WG1777055	
Ethylbenzene	0.000300	<u>B J</u>	0.000160	0.000500	0.000500	1	11/19/2021 13:59	WG1777055	³ S c
Total Xylene	U		0.000510	0.00150	0.00150	1	11/19/2021 13:59	WG1777055	55
(S) a,a,a-Trifluorotoluene(PID)	99.1				79.0-125		11/19/2021 13:59	WG1777055	4

Ss
⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
⁸ Gl
⁹ Al
¹⁰ Sc

SDG: L1431282

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⁵Tr

Qc

GI

ΆI

Sc

Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	0.000858		0.000190	0.000500	0.000500	1	11/19/2021 14:21	WG1777055	Tc Tc
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	3
Total Xylene	0.000559	<u>B J</u>	0.000510	0.00150	0.00150	1	11/19/2021 14:21	WG1777055	Ss
(S) a,a,a-Trifluorotoluene(PID)	100				79.0-125		11/19/2021 14:21	WG1777055	⁴ Cr

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Volatile Organic Compounds (GC) by Method 8021B

		,	00.002.2							0-
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch		Ср
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2	
Benzene	U		0.000190	0.000500	0.000500	1	11/19/2021 14:43	WG1777055	² .	Тс
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	3	Ss
Total Xylene	0.00180	B	0.000510	0.00150	0.00150	1	11/19/2021 14:43	WG1777055		5
(S) a,a,a-Trifluorotoluene(PID)	104				79.0-125		11/19/2021 14:43	<u>WG1777055</u>	4	Cn

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

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	—
Analyte	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	l l
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	
luoranthene	0.00142		0.0000270	0.000100	0.000100	1	11/19/2021 06:21	WG1775175	
luorene	0.0128		0.0000169	0.0000500	0.0000500	1	11/19/2021 06:21	WG1775175	
ndeno(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	
-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	

Sample Narrative:

L1431282-15 WG1775175: Surrogate failure due to matrix interference

SDG: L1431282 DATE/TIME: 11/26/21 15:44 PAGE: 24 of 32 Collected date/time: 11/11/21 00:00

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Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		2
Benzene	0.190		0.000190	0.000500	0.000500	1	11/19/2021 15:05	WG1777055	Tc
Toluene	0.000646	<u>B 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	³ C c
Total Xylene	0.00673	B	0.000510	0.00150	0.00150	1	11/19/2021 15:05	WG1777055	35
(S) a,a,a-Trifluorotoluene(PID)	104				79.0-125		11/19/2021 15:05	WG1777055	4

⁴ Cn
⁵Tr
⁶ Sr
⁷ Qc
[°] Gl
⁹ Al
¹⁰ Sc

SDG: L1431282 DATE/TIME: 11/26/21 15:44 PAGE: 25 of 32 Volatile Organic Compounds (GC) by Method 8021B

QUALITY CONTROL SUMMARY L1431282-01.02.03.04.05.06.07.08.09.10.11.12.13.14.15.16

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

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

Laboratory Control Sample (LCS)

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

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	mg/l	mg/l	%	%		
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		

SDG: L1431282 DATE/TIME: 11/26/21 15:44 PAGE: 26 of 32

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

QUALITY CONTROL SUMMARY

L1431282-01,02,07,08,10,15

(MB) R3731776-3 11/18/2	21 23:41				CP
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	² Tc
Anthracene	U		0.0000190	0.0000500	
Acenaphthene	U		0.0000190	0.0000500	³ Ss
Acenaphthylene	U		0.0000171	0.0000500	00
Benzo(a)anthracene	U		0.0000203	0.0000500	4
Benzo(a)pyrene	U		0.0000184	0.0000500	[≁] Cn
Benzo(b)fluoranthene	U		0.0000168	0.0000500	
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	⁵Tr
Benzo(k)fluoranthene	U		0.0000202	0.0000500	
Chrysene	U		0.0000179	0.0000500	6
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	⁶ Sr
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	8
Phenanthrene	U		0.0000180	0.0000500	Ğ
Pyrene	U		0.0000169	0.0000500	
1-Methylnaphthalene	U		0.0000687	0.000250	⁹ Al
2-Methylnaphthalene	U		0.0000674	0.000250	/ U
Dibenzofuran	U		0.0000191	0.0000500	10
(S) Nitrobenzene-d5	112			31.0-160	¹⁰ Sc
(S) 2-Fluorobiphenyl	124			48.0-148	
(S) p-Terphenyl-d14	152	<u>J1</u>		37.0-146	

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

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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

Released to Imaging. 8/2/2022 2:57:34 PM Plains All American, LP - GHD

SDG: L1431282

DATE/TIME: 11/26/21 15:44 Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

QUALITY CONTROL SUMMARY

L1431282-01,02,07,08,10,15

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

(LCS) R3731776-1 11/18/2	21 23:01 • (LCSD) I	R3731776-2 1	1/18/21 23:21							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
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		<u>J3</u>	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				

SDG: L1431282

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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
В	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.

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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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	2006
ouisiana	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.

SDG: L1431282

Received by OCD: 3/22/2022 12:13:44 PM

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 Custod	y _{Page} ⊥∘) ce Analytica
Report to: Becky Haskell						nn.quinney@	@ghd.co	5						12065 Lebanon Rd. Mi Submitting a sample v	ia this chain of custody
Project Description: Darr Angell #1 SRS Darr Angell #1		City/State Collected:		Please Cir PT MT C					E					Pace Terms and Condi	dgment and acceptance o tions found at: com/hubfs/pas-standard-
Phone: 432-250-7917		Client Project #			oject # NSGHD-	11209885		+ +0	40mlAmb-NoPres-WT					SDG # KOS	13/28
Collected by (print):		Site/Facility ID # SRS DARR ANGELL #1			P.O. #			I EY	oN-dm					Acctnum: PLA	
Collected by (signature):		Lab MUST Be Day Five		tified) Quote #				0H-du	OmlA					Template: T19 Prelogin: P88	
Immediately Packed on Ice N Y	Next Da	ay5 Day	(Rad Only)			te Results Needed		40mlAmb-HCI	PAHSIMLVI 4					PM: 823 - Olivi PB:	
Sample ID	Comp/Grab	Matrix *	Depth	Depth Date		Time	Cntrs	BTEX	AHSI					Shipped Via: Remarks	Sample # (lab c
MWIIZ	GRAB	GW	MA	11-	11-21	1000	12	X	X				12.42		-0
MWIGR		GW	1		1	1015	6	X	X						-00
MWITR		GW				1030	3	X							-03
mw ISR		GW				1045	1	×							-04
MW 19R		GW				1100		×							-05
mw 2012		GW				1115	V	+				1 20.20			-06
prw 24		GW				1130	b	4	X						-01
mw25		GW				1145	6	×	×						508
mw7		GW			40	1200	2	X							09
mw21R		GW			1	1215	1	X	X				State		-10
S - Soil AIR - Air F - Filter W - Groundwater B - Bioassay /W - WasteWater W - Drinking Water	emarks:									pH _ Flow _	Ter Oti	np	COC Sig Bottles	Sample Receipt Che al Present/Intact: gned/Accurate: s arrive intact: bottles used:	ecklist
T - OtherS	amples returned v UPS FedEx				Tracking	ş #							A State Barrie	ent volume sent: If Applicabl	e
elinquished by : (Signature)	Date: Time:			0700 10000					/	Trip Blank	Received:	Yes / No HCL / MeoH TBR ttles Received:	Preserv RAD Scr	ro Headspace: vation Correct/Cheo een <0.5 mR/hr: vation required by Logio	<u></u>
elinquished by : (Signature)	//~ Dat	<u>-(2-2(</u> e:	Time:	600	Received) for lab by: ((Signatui	je)	1000	Date:	R	660 me: 1710	Hold:		Condition: NCF / OK

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Company Name/Address:		Billing Information:							Chain of Custody Page 2						
Plains All American, LP 2135 S Loop 250 W Midland, TX 79703	- GHD		Attn: Ca 10 Desta	mille Bryant a Dr., Ste. 5501 I, TX 79705	Pres Chk					/ Preservative	and the second		10	e Analytica	
Report to: Becky Haskell			Email To: becky.has	oghd.co	d.co 10								ia this chain of custody		
Project Description: Darr Angell #1 SRS Darr Angell #1		City/State			Please C	ircle:	C	-						Pace Terms and Cond	igment and acceptance o tions found at: com/hubfs/pas-standard-
Phone: 432-250-7917	Collected: Client Project # 11209885/02			Lab Project # PLAINSGHD	PT MT	e .	+ 70	40mlAmb-NoPres-WT						SDG # 10	13128
Collected by (print):	Site/Facility ID # SRS DARR ANGELL #1			P.O. #			I EK	mb-No					Table # Acctnum: PLAINSGI		
Collected by (signature):	Same	(Lab MUST Be Day Five	Day	ified) Quote #			40mlAmb-HCI							Template: T198204 Prelogin: P883771	
Immediately Packed on Ice N Y		Day 5 Da Jay 10 D Day		Date Resul	e Results Needed			PAHSIMLVI						PM: 823 - Oliv PB: Shipped Via:	ia Studebaker
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	BTEX	PAH				115		Remarks	Sample # (lab or
mw22	GRAB	GW	NB	11-11-21	1230	B.	35					- Decision			-11
RUJIZ		GW		1	1245	3	34								-12
MWIZR		GW			1315	事	34				1212-				-13
mwb		GW			1430	6	34								-iY
mw2	J	GW	.1	J	1500	B	of	X				- Andrew			-15
JUG		GW				3	X					20			-16
		GW										a a f			
		GW									State of				
		GW													
		GW	1												
Matrix: S - Soil AIR - Air F - Filter SW - Groundwater B - Bioassay NW - WasteWater	marks:								pH		emp	COC S Bottl	Seal Pre Signed/H es arri	<u>e Receipt Ch</u> esent/Intact: Accurate: ive intact: tles used:	LNP Y
II - Other	mples returned UPS FedEx			Trackir	1							Suffi VOA Z	cient v ero Hea	volume sent: <u>If Applicabl</u> adspace:	Vr_
Relinquished by: (Signature)			Time:	1/2	ed by: (Signat	ure)	C	/	Prip Blank F	teceived:	Yes / No HCL / MeoH TBR	RAD S		n Correct/Che <0.5 mR/hr:	cked: _Y
Relinquished by : (Signature)	1	ate: 1-12-2		iw St	ed by: (pignat				Temp: VIC	1.9	ottles Received:		ervation	required by Log	n: Date/Time
Relinquished by : (Signature)	Date:		Time:	Time: Received for lab by: (Signa					Date:	Т	ime: 7:15	Hold:			Condition: NCF / OK

Received by OCD: 3/22/2022 12:13:44 PM

December 13, 2021

Plains All American, LP - GHD

Sample Delivery Group: Samples Received: Project Number: Description: Site: Report To:

L1439403 12/08/2021 11209885/02 Darr Angell #1 SRS Darr Angell #1 SRS DARR ANGELL #1 Becky Haskell 2135 S Loop 250 W Midland, TX 79703

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Тс Ss Cn Ϋ́r Śr Qc GI AI Sc

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

Released to Imaging: 0/2/2022 2:57:34 PM Plains All American, LP - GHD

PROJECT: 11209885/02

SDG: L1439403

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² Tc	
³ Ss	
⁴ Cn	
⁵Tr	
⁶ Sr	
⁷ Qc	
[°] Gl	
⁹ Al	
¹⁰ Sc	

Released to Imaging: 0/2/2022 2:57:34 PM Plains All American, LP - GHD

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12/13/21 11:57

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SAMPLE SUMMARY

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Ср

Tc

Ss

Cn

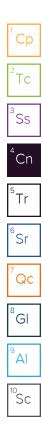
			Collected by	Collected date/time	Received da	te/time
PUMPS ON L1439403-01 Air			David Fletcher	12/06/21 12:45	12/08/21 10:00	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (MS) by Method M18-Mod	WG1786013	800	12/08/21 21:25	12/08/21 21:25	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
			Collected by	Collected date/time	Received da	te/time
PUMPS OFF L1439403-02 Air			David Fletcher	12/06/21 13:00	12/08/21 10:0	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
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

SDG: L1439403 DATE/TIME: 12/13/21 11:57 PAGE: 3 of 15

CASE NARRATIVE

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

Olivia Studebaker Project Manager



SDG: L1439403

PAGE: 4 of 15

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.

1. .

Olivia Studebaker Project Manager

Labor	rato	ry Name: Pace Analytical National	LRC Date: 12/13/2021 11:57					
Proje	ct N	lame: Darr Angell #1 SRS Darr Angell #1	Laboratory Job Number: L1439403-01 and 02					
Revie	ewei	r Name: Olivia Studebaker	Prep Batch Number(s): WG1786013 and WG1786714					
# ¹	A ²	Description		Yes	No	NA ³	NR ⁴	ER#
21	OI	Chain-of-custody (C-O-C)						
		Did samples meet the laboratory's standard conditio	ns of sample acceptability upon receipt?	X				
		Were all departures from standard conditions descril	bed in an exception report?			Х		
2	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 th	e corresponding QC data?	X				
23	OI	Test reports					•	
		Were all samples prepared and analyzed within hold	ling times?	X	1		T	1
		Other than those results < MQL, were all other raw v		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 analyte	•	X			+	
		Were all results for soil and sediment samples report		X		+	+	+
		Were % moisture (or solids) reported for all soil and s	, , ,			X	+	
		Were bulk soils/solids samples for volatile analysis e				X	+	
		· · · · · · · · · · · · · · · · · · ·	xuacted with methanol per Sw646 Method 5055?			X		
	~	If required for the project, are TICs reported?				^	1	
84	0	Surrogate recovery data			1	1	1	1
		Were surrogates added prior to extraction?		X	V			
	~	Were surrogate percent recoveries in all samples wit	thin the laboratory QC limits?	I	Х	I	I	
85	OI	Test reports/summary forms for blank samples		1 1	-	-	-	1
		Were appropriate type(s) of blanks analyzed?		X				
		Were blanks analyzed at the appropriate frequency?		X				
		Were method blanks taken through the entire analyt cleanup procedures?	ical process, including preparation and, if applicable,	X				
		Were blank concentrations < MQL?		X				
76	OI	Laboratory control samples (LCS):					1	
		Were all COCs included in the LCS?		X	1		T	T
		Was each LCS taken through the entire analytical pro-	ocedure including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?		X				
		Were LCS (and LCSD, if applicable) %Rs within the la	boratory QC limits?	X			1	
			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				
87	OI	Matrix spike (MS) and matrix spike duplicate (MSD) d	ata					
		Were the project/method specified analytes included	d in the MS and MSD?			Х		
		Were MS/MSD analyzed at the appropriate frequenc	y?			Х		
		Were MS (and MSD, if applicable) %Rs within the lab	oratory QC limits?			Х		1
		Were MS/MSD RPDs within laboratory QC limits?				Х	1	
88	OI	Analytical duplicate data						
		Were appropriate analytical duplicates analyzed for	each matrix?	Ι		Х		
		Were analytical duplicates analyzed at the appropria	te frequency?			Х	1	
		Were RPDs or relative standard deviations within the	a laboratory QC limits?	1		Х		
89	OI	Method quantitation limits (MQLs):					•	
		Are the MQLs for each method analyte included in th	ne laboratory data package?	X			T	T
		Do the MQLs correspond to the concentration of the		X				
		Are unadjusted MQLs and DCSs included in the labo		X				
10	OI	Other problems/anomalies	, , ,	•				
		Are all known problems/anomalies/special condition	s noted in this LRC and ER?	X				
		Was applicable and available technology used to low the sample results?	X					
		Is the laboratory NELAC-accredited under the Texas and methods associated with this laboratory data pa	x					
should 2. O = 0 3. NA = 4. NR =	be re orga = Not = Not	etained and made available upon request for the appr nic analyses; I = inorganic analyses (and general cher t applicable; r reviewed;			dentifie	ed by th	ne lette	"S"

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

PROJECT: 11209885/02

SDG: L1439403 PAGE: 6 of 15

Lab	orato	ory Name: Pace Analytical National	LRC Date: 12/13/2021 11:57					
Proj	ject N	Name: Darr Angell #1 SRS Darr Angell #1	Laboratory Job Number: L1439403-01 and 02					
Rev	viewe	r Name: Olivia Studebaker	Prep Batch Number(s): WG1786013 and WG1786714					
ť1	A ²	Description		Yes	No	NA ³	NR ⁴	ER#
51	OI	Initial calibration (ICAL)						
		Were response factors and/or relative response fact	ors 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 h	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 a	an appropriate second source standard?	X				
2	OI	Initial and continuing calibration verification (ICCV a	nd CCV) and continuing calibration blank (CCB):	•	•	•		-
		Was the CCV analyzed at the method-required frequ		X				Т
		Were percent differences for each analyte within the		X				
		Was the ICAL curve verified for each analyte?	1	X				
		Was the absolute value of the analyte concentration	in the inorganic CCB < MDL?	1		Х		
3	0	Mass spectral tuning		1		<u> </u>		-
-		Was the appropriate compound for the method used	d for tuning?	X	1		1	Т
		Were ion abundance data within the method-require		X				
4	0	Internal standards (IS)			1	1	1	
		Were IS area counts and retention times within the r	nethod-required OC limits?	Тх	1	1	T	T
5	OI	Raw data (NELAC Section 5.5.10)			1	1	1	
5		Were the raw data (for example, chromatograms, sp	actral data) reviewed by an analyst?	X	1	1	1	T
			· · · ·	$\frac{\hat{x}}{x}$				
6	0	Were data associated with manual integrations flage		<u> </u>	1	1	1	<u> </u>
0	10	Dual column confirmation	ad required OC2	T	1	X	1	T
7	0	Did dual column confirmation results meet the meth		<u> </u>	I	^	I	
7	10	Tentatively identified compounds (TICs)	TIC data subject to exprensiote checks?	T	1		1	T
0	1.	If TICs were requested, were the mass spectra and	ne data subject to appropriate checks?			X	I	
8		Interference Check Sample (ICS) results		T	1		1	T
~	T	Were percent recoveries within method QC limits?	for the section of a little section.		<u> </u>	Х		
9		Serial dilutions, post digestion spikes, and method o		1	1		1	1
		Were percent differences, recoveries, and the linear	ity within the QC limits specified in the method?		I	Х		
10	OI	Method detection limit (MDL) studies			1	1	1	1
		Was a MDL study performed for each reported analy		X				<u> </u>
		Is the MDL either adjusted or supported by the analy	ysis of DCSs?	X				
11	OI	Proficiency test reports			1	-	-	-
		Was the laboratory's performance acceptable on the	e applicable proficiency tests or evaluation studies?	X				
12	OI	Standards documentation		.	-	-	1	-
		Are all standards used in the analyses NIST-traceable	e or obtained from other appropriate sources?	X				
13	OI	Compound/analyte identification procedures			-		1	
		Are the procedures for compound/analyte identifica	tion documented?	X				
14	OI	Demonstration of analyst competency (DOC)				-		
		Was DOC conducted consistent with NELAC Chapter		X				
	_	Is documentation of the analyst's competency up-to	-date and on file?	Х				
15	OI	Verification/validation documentation for methods (N	NELAC Chapter 5)					
		Are all the methods used to generate the data docu	mented, verified, and validated, where applicable?	Х				
16	OI	Laboratory standard operating procedures (SOPs)						
		Are laboratory SOPs current and on file for each me	thod performed	Х				
hou . O . N/	ld be r = orga A = No	entified by the letter "R" must be included in the labora retained and made available upon request for the app anic analyses; 1 = inorganic analyses (and general che ot applicable; t reviewed;		ltems i	identifie	ed by th	e letter	"S"

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SDG: L1439403

Laborat	tory 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						
Review	ver 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.							
	dentified by the letter "R" must be included in the laborato e retained and made available upon request for the appro	ry data package submitted in the TRRP-required report(s). Items identified by the letter "S" oriate retention period.						

O = organic analyses; 1 = 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).

SDG: L1439403

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SAMPLE RESULTS - 01

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Volatile Organic Compounds (MS) by Method M18-Mod

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
nalyte			ppbv	ug/m3	ppbv	ug/m3			
enzene	71-43-2	78.10	2000	6390	37600	120000		10000	WG1786714
uene	108-88-3	92.10	5000	18800	57700	217000		10000	WG1786714
hylbenzene	100-41-4	106	2000	8670	12300	53300		10000	WG1786714
&p-Xylene	1330-20-7	106	4000	17300	48700	211000		10000	WG1786714
Kylene	95-47-6	106	2000	8670	16000	69400		10000	WG1786714
ethyl tert-butyl ether	1634-04-4	88.10	160	577	ND	ND		800	WG1786013
PH (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		<u>J1</u>		WG1786013
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG1786714

Sample Narrative:

L1439403-01 WG1786013: Surrogate failure due to matrix interference

SAMPLE RESULTS - 02

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Volatile Organic Compounds (MS) by Method M18-Mod

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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
n&p-Xylene	1330-20-7	106	4000	17300	52000	225000		10000	WG1786714
Xylene	95-47-6	106	2000	8670	17300	75000		10000	WG1786714
ethyl tert-butyl ether	1634-04-4	88.10	160	577	ND	ND		800	WG1786013
H (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		<u>J1</u>		WG1786013
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG1786714

Sample Narrative:

L1439403-02 WG1786013: Surrogate failure due to matrix interference

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Volatile Organic Compounds (MS) by Method M18-Mod

QUALITY CONTROL SUMMARY

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Method Blank (MB)

(MB) R3738493-3 12/08/	21 10:11				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	ppbv		ppbv	ppbv	
MTBE	U		0.0647	0.200	
(S) 1,4-Bromofluorobenzene	97.8			60.0-140	3

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										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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				

DATE/TIME: 12/13/21 11:57

PAGE: 11 of 15 Volatile Organic Compounds (MS) by Method M18-Mod

QUALITY CONTROL SUMMARY L1439403-01,02

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Method Blank (MB)

(MB) R3739068-3 12/09/2	110:42			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	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

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

(LCS) R3739068-1 12/09/	'21 09:18 • (LCSE	D) R3739068-2	2 12/09/21 10:0	1						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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	2			100	98.1	60.0-140				

DATE/TIME: 12/13/21 11:57

PAGE: 12 of 15

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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

J1

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

SDG: L1439403 DATE/TIME: 12/13/21 11:57

Received by OCD: 3/22/2022 12:13:44 PACCREDITATIONS & LOCATIONS

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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
lorida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
daho	TN00003	Ohio-VAP	CL0069
llinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Centucky ¹⁶	KY90010	South Carolina	84004002
Centucky ²	16	South Dakota	n/a
ouisiana	Al30792	Tennessee ¹⁴	2006
ouisiana	LA018	Texas	T104704245-20-18
laine	TN00003	Texas ⁵	LAB0152
faryland	324	Utah	TN000032021-11
lassachusetts	M-TN003	Vermont	VT2006
lichigan	9958	Virginia	110033
linnesota	047-999-395	Washington	C847
lississippi	TN00003	West Virginia	233
lissouri	340	Wisconsin	998093910
lontana	CERT0086	Wyoming	A2LA
2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
PA–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.

SDG: L1439403

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PAGE: 14 of 15

eived by OCD: 3/22/2022 12:			Billing Info	rmation:		12	-	1 1	Alle	alvsis / Cont	aller / FI	Servau	Ve I		Citati	TOT CUSTORY	Page 244 of
Plains All American, LP - GHD 2135 S Loop 250 W Midland, TX 79703		Attn: Camille Bryant 10 Desta Dr., Ste. 550E Midland, TX 79705										Carlo Carlo	-/-	Pace A National Can	nalytical *		
Report to: Becky Haskell			Email To: becky.haskell@ghd.com;glenn.quinney@ghd.co										Car B		12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858		
Project Description: Darr Angell #1 SRS Darr Angell #1		City/State Collected:	1000		Please C PT MT (ircle:			1					- Aller	Phone	e: 615-758-5859 e: 800-767-5859 515-758-5859	
Phone: 432-250-7917	Client Project #		Lab Project # PLAINSGHD-1120		11209885	1209885									sDG # C128		
Collected by (print): Site/Facility ID # SRS DARR ANGEL SRS DARR ANGEL				P.O. #	0.#										Ta	Ta U439403 Acctnum: PLAINSGHD	
Collected by (signature):	Rush? (Lab MUST Be Notifi Same DayFive Day Next DayS Day (Rad C Two Day10 Day (Bad		Notified) Quote #				Tedlar								Template: T163766 Prelogin: P805972		
Immediately Packed on Ice N Y			(Rad Only)	ad Only) Date Results		No.	MOD Te							1		PM: 134 - Mark W. Beasley	
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	M18-N						See.		Ship	ped Via: Fe Remarks	dEX Ground Sample # (lab or
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PUMPS OFF		Air Air	J.	V	1300	2	X				1.57						-02
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SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:	narks:						pH Temp Sample Receipt Checkli pH Temp COC Seal Present/Intact: COC Signed/Accurate: COC Signed/Accurate: Flow Other Bottles arrive intact: Correct bottles used: Correct bottles						ecklist MP Y			
DW - Drinking Water OT - Other	Samples returned UPSFedEx			Trackin	ng# 57	13	38	37	89	881			2	Sufficie	ent volu	me sent: Applicabl	e y
Relinquished by : (Signature)		27.21	Time:	100 1	éd by: (Signat	ure)	2	/	Trip	Blank Rec	H	S No	он	Preserva	ation Co een <0.5	rrect/Che	cked: Y
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States a set

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Action 92044

CONDITIONS								
Operator:	OGRID:							
PLAINS MARKETING L.P.	34053							
333 Clay Street Suite 1900	Action Number:							
Houston, TX 77002	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