2022 ANNUAL GROUNDWATER MONITORING REPORT

D S HUGH SITE
LEA COUNTY, NEW MEXICO
UL-K, SECTION 26, T21S, R37E
PLAINS SRS#: 2000-10807
NMOCD NO.: 1R-0463
INCIDENT ID: NAPP2108838834

Review of 2022 ANNUAL GROUNDWATER MONITORING REPORT:
Content satisfactory

1. Future PSH recovery may be conducted on a quarterly basis for MW-1, RW-1, RW-2
2. Groundwater monitoring should continue on a quarterly basis, with the exception of monitor wells MW-2, MW-3, MW-6, and MW-7, which will be on an annual basis
3.Submit summarized activities and their results in next annual report. Submittal to OCD expected no later than 03/31/2024

PREPARED FOR

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1.0 INTRODUCTION AND OBJECTIVES

1.1 Objectives and Site Background

On November 10, 2000, a 4-inch steel pipeline at the D S Hugh 4-inch gathering line site (Site) released approximately twenty (20) barrels (bbls) of crude oil into the subsurface. This pipeline was formerly owned by EOTT Energy, LLC (EOTT) and is currently owned by Plains Pipeline, L.P. (Plains). The Site is located in Unit Letter K, T21S, R37E, Section 26 of Lea County, New Mexico, approximately two (2) miles east of Eunice, New Mexico (**Figure 1**) or more specifically at latitude 32˚ 26' 48" N and longitude 103˚ 08' 07" W. The affected area was reported to be approximately 200-feet by 15-feet within the pipeline right-of-way (ROW). The release that occurred at the Site on November 10, 2000, was apparently caused by corrosion of a pipeline. The release was reported by EOTT to the New Mexico Oil Conservation Division (NMOCD) on November 10, 2000, at 2:25 P.M. Approximately five (5) bbls of product were reported as recovered out of the approximately 20-bbls reported released into the subsurface.

The pipeline was repaired, and the affected soil was excavated and temporarily placed on a plastic liner. The initial response notification form (Form No. C-141), prepared by Plains, provides documentation of reporting the release to the NMOCD. Initial soil remediation activities were completed by Environmental Plus Inc. In April 2005, EarthCon Consultants, Inc. (EarthCon; formerly Premier Environmental Services Inc.) personnel completed an initial Site investigation for Plains. Details regarding the investigation were reported in EarthCon's 2005 Annual Report and are summarized below in Section 1.2.

This report summarizes the groundwater gauging activities, quarterly groundwater monitoring activities, and phase-separated hydrocarbon (PSH) recovery efforts which were conducted during 2022.

1.2 Previous Remedial Responses and Environmental Investigations

The previous environmental consultants for the DS Hugh Site were Environmental Plus Inc. and EarthCon. As of July 1, 2012, EnTech Consulting Corporation (EnTech) was retained by Plains to provide consulting services for the Site. Even though the environmental consultant for the Site has changed, the same personnel were hired by EnTech for historical knowledge, consistency, and to continue working at the Site.

Site delineation activities in 2005 included the installation of five (5) soil borings and the collection of soil samples within and adjacent to the flow path of the Release. Based on the findings of the September 2005 investigation, and the surface expression of the Release, three (3) groundwater monitor wells (MW-1 through MW-3) were installed in December 2005. Total petroleum hydrocarbon (TPH) concentrations in soil from monitor well MW-1 were above 100 milligrams per kilogram (mg/kg) from the surface to the first water bearing zone at a depth of approximately 45-feet below ground surface (bgs). A PSH sheen was observed in groundwater samples collected from monitor well MW-1. In May 2006, further soil investigation was conducted by EarthCon to

delineate the extent of hydrocarbon contamination in soil. During this investigation, monitor wells MW-4 through MW-7 were installed (**Figure 2**).

A *Soil Remediation Plan* was submitted to and approved by the NMOCD in May 2006. The objective of the *Soil Remediation Plan* was to excavate the most contaminated soils, isolate and control residual chemicals of concern (COCs) in the soil and to prevent further impact to groundwater by the placement of an impermeable liner at the base of the excavation. The remediation plan was implemented in October 2006 and a *Soil Closure Report* was prepared by EarthCon and submitted in March 2007. Details of the activities can be found in the following reports submitted to the NMOCD:

- April 13, 2006, *Groundwater Delineation Investigation – March 2006* (letter report to Plains)
- May 2006 *Soil Remediation Plan*
- June 6, 2006, *Soil Investigation Results* (letter report to Plains)
- March 2007 *Soil Closure Report*

Quarterly groundwater monitoring was implemented for the Site in 2006 and continues to date. Groundwater PSH recovery was conducted on a weekly basis on monitor well MW-1. Monitor well MW-4 was initially gauged weekly in 2011 due to measurable amounts of PSH. Gauging of the well was reduced to a monthly basis when PSH was no longer observed. Approximately 1,335-gallons of water containing dissolved phase hydrocarbons and 70-gallons of entrained PSH were recovered from monitor well MW-1 in 2013. Approximately 70-gallons of PSH and 1,125-gallons total of affected groundwater were recovered from the wells containing PSH or sheen during 2014.

To increase the PSH recovery efforts at the Site, two (2) additional recovery wells were installed in August 2014 in the vicinity of monitor well MW-1 (RW-1 and RW-2).

Groundwater and PSH recovery for 2022 is presented below in Section 2. This report summarizes the activities conducted in 2022 for groundwater sampling and analysis and PSH recovery activities.

1.3 Regulatory Framework

Based on standards outlined in New Mexico Administrative Code (NMAC), Title 20, Chapter 6, Part 2, the remediation criteria for groundwater at the Site are as follows:

Chemical of Concern	Limit (mg/L)
Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylenes	0.62
Polynuclear Aromatic Hydrocarbons (PAH) (1,2)	0.03
Benzo-a-pyrene (2)	0.0007

1 – PAHs: Total naphthalenes plus monomethylnaphthalenes
2 – PAH remediation standards will be used as target concentrations only upon PSH removal.

In addition to using the above values as the target cleanup goals for COC concentrations in groundwater at the Site, PSH removal has been an integral part of ongoing remediation activities.

1.4 Limitations

EnTech has examined and relied upon the historical information provided by Plains and their contractors, and conversations with Plains personnel and their contractors familiar with the Site. EnTech has not conducted an independent examination of the information contained in external project files or that provided by Plains or their contract personnel. EnTech has prepared this report using the level of care and professionalism in the industry for similar projects under similar conditions. EnTech believes the conclusions stated herein are factual, but no guarantee is made or implied.

2. ASSESSMENT AND RESULTS

2.1 Groundwater Sampling Methodology

Activities conducted at the Site in 2022 primarily consisted of gauging wells for groundwater levels, determining the presence or absence of PSH, and recovery of product using absorbent socks, hand bailing, and submersible pumps. Groundwater sampling of PSH-free monitor and recovery wells was also completed on a quarterly basis in 2022 to evaluate the extent of the dissolved-phase hydrocarbon plume.

Measurements of the depth to groundwater and product thickness in wells with hydrocarbon sheen or PSH were completed during the PSH recovery events and quarterly groundwater sampling events. Seven (7) monitor wells (MW-1 through MW-7) and two (2) recovery wells (RW-1 and RW-2) were gauged using an electronic oil/water interface probe. The well locations are shown on **Figure 2**.

Groundwater level elevations and the presence of PSH, if any, were noted for each well. In cases where no measurable PSH was detected by the interface probe, the downhole sensor of the probe was examined for the presence of PSH upon removal from the well. One (1) recovery well (RW-2), contained a sheen of PSH during the 2nd quarterly gauging event in 2022, however not during the quarterly groundwater sampling events. While a sheen was observed in recovery well RW-2 during 2022, the recovery well was sampled in all four (4) quarters, as the sheen was not observed after groundwater purging (prior to sampling). Beginning in the 2nd quarter of 2008 all recovery and monitor wells with PSH or sheen were required to be sampled annually and analyzed for polycyclic aromatic hydrocarbons (PAH). Due to this requirement, groundwater samples were collected from monitor well MW-1 and recovery wells RW-1 and RW-2 during the 2nd quarter of 2021 and analyzed for PAHs. A PAH sample was collected from MW-4 during 2021 to complete the requirement to have two (2) consecutive samples collected below regulatory requirements. Per the approval of the NMOCD (January 12, 2022), PAH sampling will be discontinued in 2022 with the exception of MW-4, which will have a 2nd annual sample collected. Based on the PAH analytical results in 2022 further PAH analysis may not be required.

Except as noted above, groundwater monitor wells not exhibiting PSH, or a hydrocarbon sheen were gauged and sampled quarterly. After collecting and recording groundwater levels and PSH thicknesses, each well was purged with a clean electric submersible pump or hand bailed using a clean disposable bailer, and groundwater samples were collected using a new dedicated disposable bailer. Groundwater samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) with select wells being analyzed for PAHs.

Groundwater samples were transferred directly from the disposable bailers into the appropriate laboratory-supplied sample containers. The sample containers were then packaged to prevent breakage, placed on ice in a cooler, and shipped to Pace Analytical National (Pace) in Mount Juliet, Tennessee for analysis. The groundwater samples were analyzed for BTEX by

Environmental Protection Agency (EPA) Method SW 846-8260B and PAHs by EPA Method SW 8270C.

2.2 Groundwater Gauging

Table 1 summarizes groundwater gauging (elevation and PSH thickness) measurements recorded before each quarterly event in 2022. Groundwater elevations and PSH thickness measurements were recorded for monitor well MW-1 and recovery wells RW-1 and RW-2 monthly in 2022. Groundwater elevation measurements were recorded quarterly for all monitor and recovery wells (MW-1 through MW-7, RW-1, and RW-2) in 2022. Complete historical groundwater elevation and PSH thickness measurements since September 21, 2005, are presented in **Table 2**. The groundwater elevation calculations are based on the top of polyvinyl chloride (PVC) well casing elevations, which were last surveyed on March 15, 2005, by EarthCon, the previous consultant.

2.3 Groundwater Gradient and Flow Direction

Using the groundwater gauging data summarized in **Table 1**, groundwater gradient maps were prepared and are included as **Figures 3A** through **3D**. The calculated groundwater gradient and estimated groundwater flow direction are based on the gauging data obtained on March 16, June 1, August 31, and November 15, 2022. The hydraulic gradient in 2022 ranged from 0.0027 to 0.0032 feet/foot (ft/ft), based on groundwater elevations measured between monitor wells MW-2 and MW-6. The groundwater gradient and flow direction to the east-southeast across the Site during 2022 are similar to the gradient and direction observed during the previous five (5) years.

2.4 Groundwater Analytical Results

Groundwater samples were collected from all monitor and recovery wells during each of the first three (3) quarterly sampling events of 2022 (see **Table 3**). The NMOCD approved annual sampling only of monitor wells MW-2, MW-3, MW-6, and MW-7 in an August 2022 email to Plains and were not sampled during the 4th quarterly event. The monitor wells were purged by removing a minimum of three (3) to five (5) well volumes of groundwater, or depending on groundwater conditions, bailed dry three (3) times using a disposable bailer and allowed to recover to at least 80% of the initial volume before collecting samples.

First Quarter 2022

During the 1st quarterly 2022 sampling event, laboratory analysis of groundwater samples collected from all monitor and recovery wells indicated nondetectable benzene concentrations or levels below the MNOCD criteria of 0.01 milligrams per liter (mg/L) Concentrations of toluene, ethylbenzene, and total xylenes in groundwater samples collected from all monitor wells in the 1st quarterly sampling event were reported at non-detectable levels or levels below the NMOCD remediation criteria.

Second Quarter 2022

During the 2nd quarterly sampling event, laboratory analysis of groundwater samples collected from monitor well MW-1 indicated a benzene concentration of 0.0166 mg/L which exceeds the

NMOCD criteria of 0.01 mg/L. Benzene concentrations were analyzed at nondetectable levels or levels below the NMOCD criteria in all other monitor and recovery wells. Concentrations of toluene, ethylbenzene, and total xylenes in groundwater samples collected from all monitor wells in the 2nd quarterly sampling event occurred at non-detectable levels or levels below the NMOCD remediation criteria. Laboratory analysis of PAHs in groundwater samples collected from monitor well MW-4 indicated concentrations below the New Mexico Water Quality Standards.

Third Quarter 2022

During the 3rd quarterly sampling event, laboratory analysis of groundwater samples collected from monitor wells MW-1 through MW-7 and recovery wells RW-1 and RW-2 indicated BTEX concentrations were below the NMOCD remediation criteria.

Fourth Quarter 2022

During the 4th quarterly sampling event, laboratory analysis of the groundwater samples collected from monitor wells MW-1, MW-4, MW-5, and recovery wells RW-1 and RW-2 reported nondetectable BTEX levels below the NMOCD remediation criteria. In an August 2, 2022, NMOCD email, the NMOCD approved annual sampling for MW-2, MW-3, MW-6, and MW-7.

The 2022 analytical results are presented in **Table 3**, and historical analytical results are presented in **Table 4**. **Table 2.4.1** below summarizes the benzene concentrations reported in 2022. Benzene concentrations reported in exceedance of NMOCD standards are marked in **bold**.

Table 2.4.1
2022 COC Concentrations (mg/L)

2022	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
	Benzene	Benzene	Benzene	Benzene
NMOCD Remediation Criteria (mg/L)	**0.01**	**0.01**	**0.01**	**0.01**
MW-1	0.00966	**0.0166**	0.00808	0.00453
RW-1	<0.001	0.00474	0.00335	<0.001
RW-2	0.00145	<0.001	0.000598J	<0.001

Note: Concentrations in **bold** indicate exceedances of NMOCD Remediation criteria.

The 2022 laboratory analytical reports are provided in **Appendix A**. The groundwater analytical data and PSH thickness data for each quarterly sampling event for 2022 are illustrated on **Figures 4A** through **4D**.

From 2008 through 2021, NMOCD required Plains to analyze for BTEX and PAH constituents in the dissolved phase groundwater in wells with hydrocarbon sheen or wells which exceeded NMOCD remediation standards. To meet this requirement groundwater samples were collected from monitor wells MW-1 and recovery wells RW-1 and RW-2 during the second quarter and

analyzed for BTEX constituents (see **Tables 3 and 4** for analytical data) as well as PAHs (see **Table 5**).

The NMOCD requires annual PAH analysis be conducted on each monitor well until laboratory analysis indicates the PAH concentrations are below the NMOCD remediation criteria for the constituent sampled. PAH samples were collected from monitor well MW-4 during the second quarter 2022, completing two (2) consecutive events without exceedances. Groundwater sampling for PAH was discontinued on the remaining wells at the Site as PAH concentrations have remained below NMOCD remediation criteria for a minimum of two (2) consecutive years. Per the approval of the NMOD on January 12, 2022, PAH sampling was discontinued in 2022 with the exception of MW-4. Monitor well MW-4 was sampled for PAH in 2022, completing the NMOCD requirement. Based on the analytical results of the groundwater sample collected from monitor well MW-4 in 2022, additional PAH analysis will not be required on subsequent events.

Copies of the laboratory analytical data packages are included in **Appendix A**.

2.5 Groundwater Waste Disposal

Purge water from well sampling at wells MW-1 through MW-7 and RW-1 and RW-2 was placed in the 1,100-gallon above ground storage tank (AST). These liquids are vacuumed from the tank and transported off-Site for disposal by K&S of Eunice, New Mexico on an as needed basis. No fluids were removed from the Site in 2022.

3.0 PSH RECOVERY

3.1 PSH Recovery Methodology

In addition to collecting groundwater samples on a quarterly basis in 2022, EnTech performed monthly visits to the Site to gauge and recover PSH from three (3) wells previously exhibiting PSH/sheen (MW-1, RW-1, and RW-2). Measurements of PSH and water levels were recorded during each Site visit (see **Table 2**). PSH recovery activities were completed using submersible pumps, hand bailer and/or absorbent socks. Routine PSH recovery activities typically consisted of the removal of less than 1-gallon of PSH and 10- to 20-gallons of groundwater with possible dissolved-phase hydrocarbons from each well. A sheen of PSH was observed in monitor well MW-1 during 2022. A sheen to 0.01 foot of PSH was also observed in recovery well RW-2 during at least one (1) quarterly sampling event.

3.2 PSH Recovery via Pumping and Manual Bailing

During 2022, PSH was observed in monitor well MW-1 (sheen) and recovery well RW-2 (0.01-foot). In general, stable, or slightly fluctuating trends in the PSH thickness has been observed for these wells. Monthly recovery data for PSH and dissolved phase groundwater are presented in **Table 6**.

A stable trend in the PSH thickness in monitor well MW-1 was observed during 2022 with only a sheen being recorded in April 2022.

A stable trend in the PSH thickness in recovery well RW-2 was observed in 2022. The maximum PSH thicknesses in RW-2 was recorded at 0.01-foot.

3.3 PSH Waste Disposal

PSH was observed during recovery events in 2022 ranging from a sheen to 0.01-foot. As summarized in Table 6, approximately 460-gallons of affected groundwater was recovered from monitor well MW-1 and recovery wells RW-1 and RW-2. Recovered liquids are stored in an 1,100-gallon AST on-Site until collected and transported for off-Site disposal by K&S of Eunice, New Mexico, on an as needed basis. Fluids were not removed from the Site in 2022.

3.4 PSH Rebound after Recovery Efforts

During 2022, PSH recovery efforts did not exhibit significant PSH rebound. The PSH rebound analysis conducted in 2021 indicated exceptionally low rates of PSH moving from the formation into the wells, suggesting routine PSH recovery is not practicable.

In addition, the PSH plume is not expanding, and the dissolved phase plume is stable and decreasing as evidenced by laboratory results and Monitored Natural Attenuation (MNA) data which is discussed in the following section.

4.0 MONITORED NATURAL ATTENUATION

4.1 Regulatory Framework for Monitored Natural Attenuation

Monitored Natural Attenuation (MNA) is defined by the New Mexico Environmental Department (NMED) in 20.5.13 NMAC as "a methodology for remediation that relies upon a variety of naturally occurring chemical, physical and biological processes to achieve target concentrations in a manner that is equally as protective of public health, safety and welfare, and the environment as other methods and that is accompanied by a program of monitoring to document the process and results of the above mentioned processes."

As part of the MNA process, several lines of evidence need to be evaluated. The general lines of evidence are listed below:

- **Primary Lines of Evidence (PLOE).** Relies on use of historical groundwater data that demonstrates a clear trend of stable or decreasing chemical of concern (COC) concentrations over time and with distance away from the source at appropriate monitoring or sampling points.
- **Secondary Lines of Evidence (SLOE).** Uses geochemical indicators to document certain geochemical signatures or "footprints" in the groundwater that demonstrated (indirectly) the type of natural attenuation process(es) occurring at the affected property and the destruction of COCs; or uses distance-based/time-based/biodegradation rate calculations to demonstrate attenuation.
- **Other Lines of Evidence (OLOE**). Most often consists of predictive modeling studies and other lab/field studies that demonstrate an understanding of the natural attenuation process(es) occurring at the affected property and their effectiveness in controlling PCLE zone migration and decreasing COC concentrations.

4.2 Monitored Natural Attenuation Information

Analysis for geochemical parameters, such as dissolved oxygen (DO), nitrate (NO3), sulfate ($SO42^{-}$), and ferrous iron ($Fe2^{+}$), was not completed in 2022. A YSI Multimeter Sonde was used to measure DO, oxidation reduction potential (ORP), potential of hydrogen (pH), conductivity, and specific conductivity, to determine stabilization per the low flow sampling protocol. These measurements are summarized in Table 9, Appendix B.

The water quality parameters were analyzed to determine if the prevailing conditions in the subsurface environment are aerobic or anaerobic and whether sufficient nutrients are present for microbial growth. The following is a summary of key observations stemming from geochemical analyses.

- Field measurements indicate a negative ORP value and low DO occurs in groundwater collected from monitor well MW-1, suggesting anaerobic degradation may be occurring.
- The pH appears to be mostly neutral, ranging from 6.84 to 7.36.

MNA is defined as monitoring the reduction in mass or concentration of a COC over time or distance from the source of a COC due to naturally occurring physical, chemical, and biological processes, such as: biodegradation, dispersion, dilution, adsorption, and volatilization. These parameters help determine if prevailing conditions in the subsurface environment are aerobic or anaerobic and whether sufficient nutrients are present for microbial growth. Knowledge of existing subsurface conditions will help better evaluate the effects of microbial activity at the Site through time.

In addition to MNA evaluation for the site, other PLOEs exist, including:

- Benzene concentrations reported in the groundwater samples collected from the monitor wells down-gradient of the plume (MW-6 and MW-7) from 2007 through 2022 were reported at levels below the NMOCD Remediation Criteria; and,
- Benzene concentrations reported in the groundwater samples collected from cross-gradient monitor wells (MW-2 and MW-5) from 2010 through 2022, were below the NMOCD Remediation Criteria; and,

Understanding plume stability is an important step in the remedial planning process for a Site. For instance, an increasing plume could potentially migrate to human or environmental receptors, whereas a stable or decreasing plume may not pose an imminent threat to human health and the environment. An introduction to plume stability analysis and the basis for the plume evaluation at the Site was presented in the 2009 Annual report. This analysis is conducted periodically to understand the overall stability of the benzene plume during 2006 through 2022. This report includes the development of benzene concentration isopleths maps for each year and performance of Mann-Kendall Trend Test (MKTT).

The benzene concentrations utilized for the 2022 concentration isopleth map (**Figure 12**) were developed from the average of the benzene concentrations reported in the four (4) quarterly groundwater sampling events and was used for all the PSH-free monitor wells (monitor wells MW-1 through MW-7, and recovery wells RW-1 and RW-2).

The benzene isopleth maps for 2015 through 2022 are presented in **Figures 5 through 11,** respectively.

4.3 Mann-Kendall Analysis

The MKTT is a statistical method used to analyze data collected over time for consistently increasing or decreasing trends. It is a non-parametric test, which means it works for all distributions (i.e., the data does not have to meet the assumption of normality), but the data should have no serial correlation.

The test can be used to find trends for as few as four (4) samples. However, with only a few data points, the test has a high probability of not finding a trend when one would be present if more points were provided. The more data points available, the more likely the test is going to find a true trend. The minimum number of recommended measurements is therefore at least eight (8)

to ten (10) (Reference: Prashanth Khambhammettu: "Mann-Kendall Analysis for the Fort Ord Site", HydroGeoLogic, Inc.-OU-1 2004 Annual Groundwater Monitoring Report-Former Fort Ord, California, 2005).

Concentrations of benzene analyzed in groundwater samples collected from the Site between June 6, 2014, and November 15, 2022, were evaluated using the MKTT. Only monitor wells with detectable concentrations of benzene were evaluated.

Wells evaluated by MKTT for benzene included monitor well MW-1 and recovery wells RW-1 and RW-2. The confidence factor [CF] of each analyte and monitor/recovery well is listed in the table below.

Benzene Evaluation		
Well ID	Confidence Factor	Trend
MW-1	91.8%	Prob. Decreasing
RW-1	95.4%	Decreasing
RW-2	98.2%	Decreasing

A copy of the MKTT analysis is included in **Appendix B**.

As a final line of evidence, the dissolved phase plume was evaluated by analyzing groundwater samples collected quarterly from six (6) PSH-free monitor wells. A review of the data indicates:

- Nondetectable benzene concentrations or concentrations below the NMOCD criteria from March 1, 2007, through December 21, 2022, for monitor wells MW-2, MW-3, and MW-5 through MW-7; and,
- Nondetectable benzene concentrations or concentrations below the NMOCD criteria from September 11, 2012, through March 8, 2018, for monitor well MW-4. During the sampling events of November 30, 2018, and August 28, 2019, benzene concentrations above the NMOCD Remediation Criteria were reported. Benzene concentrations have been reported in MW-4 at nondetectable levels from November 20, 2019, through December 2, 2021.

5.0 FINDINGS

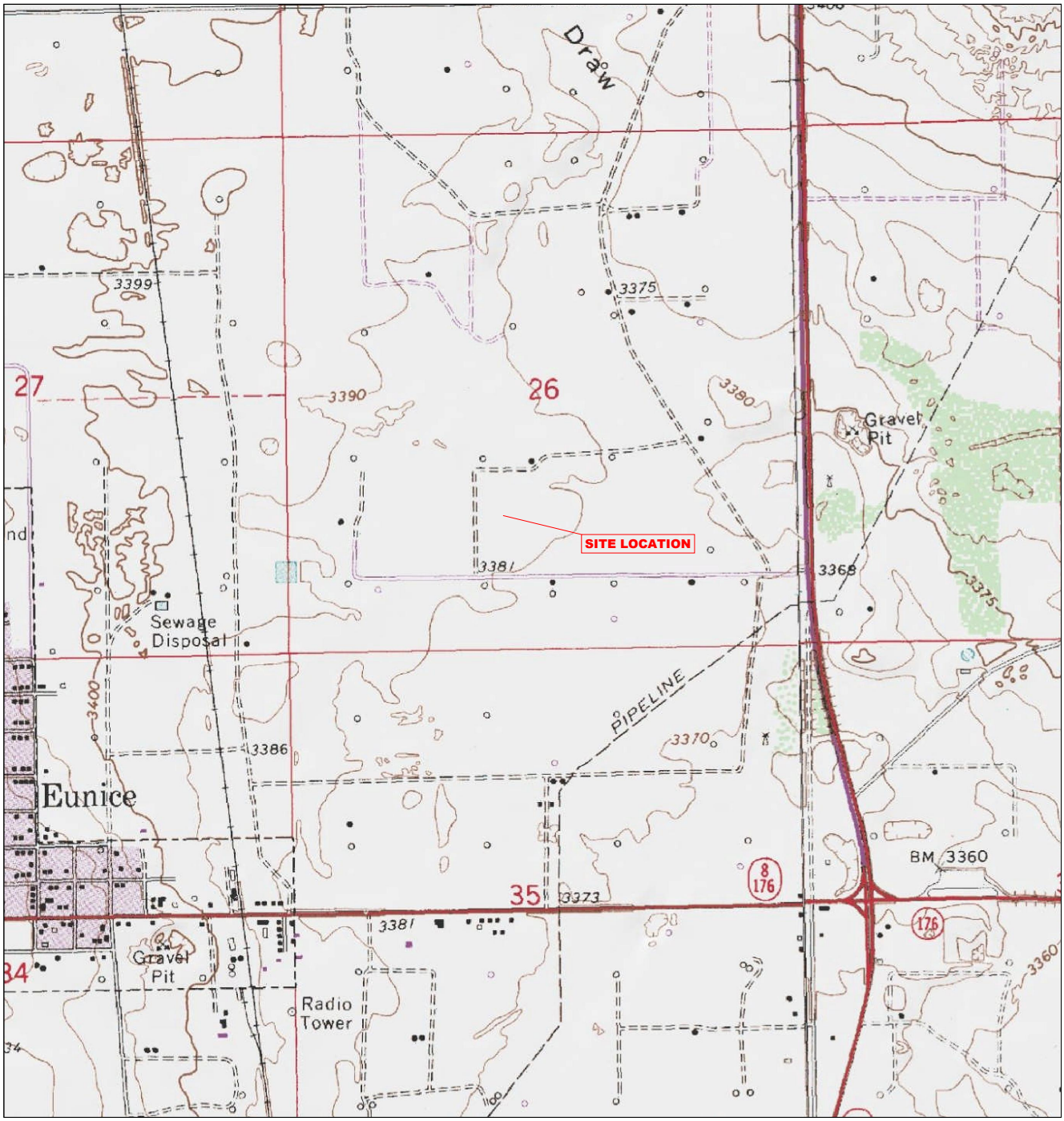
Findings and recommendations resulting from 2022 groundwater monitoring at the DS Hugh Site are summarized below.

- Groundwater flow in the uppermost groundwater-bearing unit is to the east-southeast ranging from 0.0027 to 0.0032 ft/ft as measured between wells MW-2 and MW-6.
- Analytical results for groundwater samples collected from six (6) monitor wells (MW-2 through MW-7) reported nondetectable benzene or concentrations below the NMOCD Remediation Criteria for all four (4) quarters of 2022. Laboratory analysis of the groundwater samples collected from recovery wells RW-1 and RW-2 reported benzene concentrations below the NMOCD Remediation Criteria for 2022. Monitor well MW-1 exhibited benzene concentrations above the NMOCD Remediation Criteria during the 2nd quarterly sampling event only.
- PSH recovery from monitor well MW-1 and recovery wells RW-1 and RW-2 continued during 2022, and the volume recovered is negligible. PSH recovery of visible sheens or measurable thicknesses was completed during 2022 and an immeasurable amount of PSH and 460-gallons of impacted groundwater was collected.
- The PSH plume has remained in the historical source area, located in the vicinity of well MW-1 and does not appear to be migrating downgradient.

Based on PSH recovery data and groundwater sampling completed during 2022 (and previously) at the Site, EnTech recommends the following:

- PSH recovery from monitor well MW-1 and recovery wells RW-1 and RW-2 should be discontinued as the levels of PSH have significantly diminished. Future PSH recovery should be conducted on a quarterly basis if present.
- Groundwater monitoring should continue on a quarterly basis, with the exception of monitor wells MW-2, MW-3, MW-6, and MW-7, which will be sampled on an annual basis as approved by the NMOCD.
- A PAH sample was collected from recovery well RW-4 in 2022. The only detected PAH constituent was dibenzofuran at 0.00021 mg/L. There is no regulatory limit (Tap Water) on dibenzofuran, therefore, PAH samples will no longer be collected in 2023.

FIGURES



Eunice Quadrangle
32°26'48"N Latitude & 103°08'07"W Longitude

1/2 1/4 0 1/4 1/2
Distance in Miles

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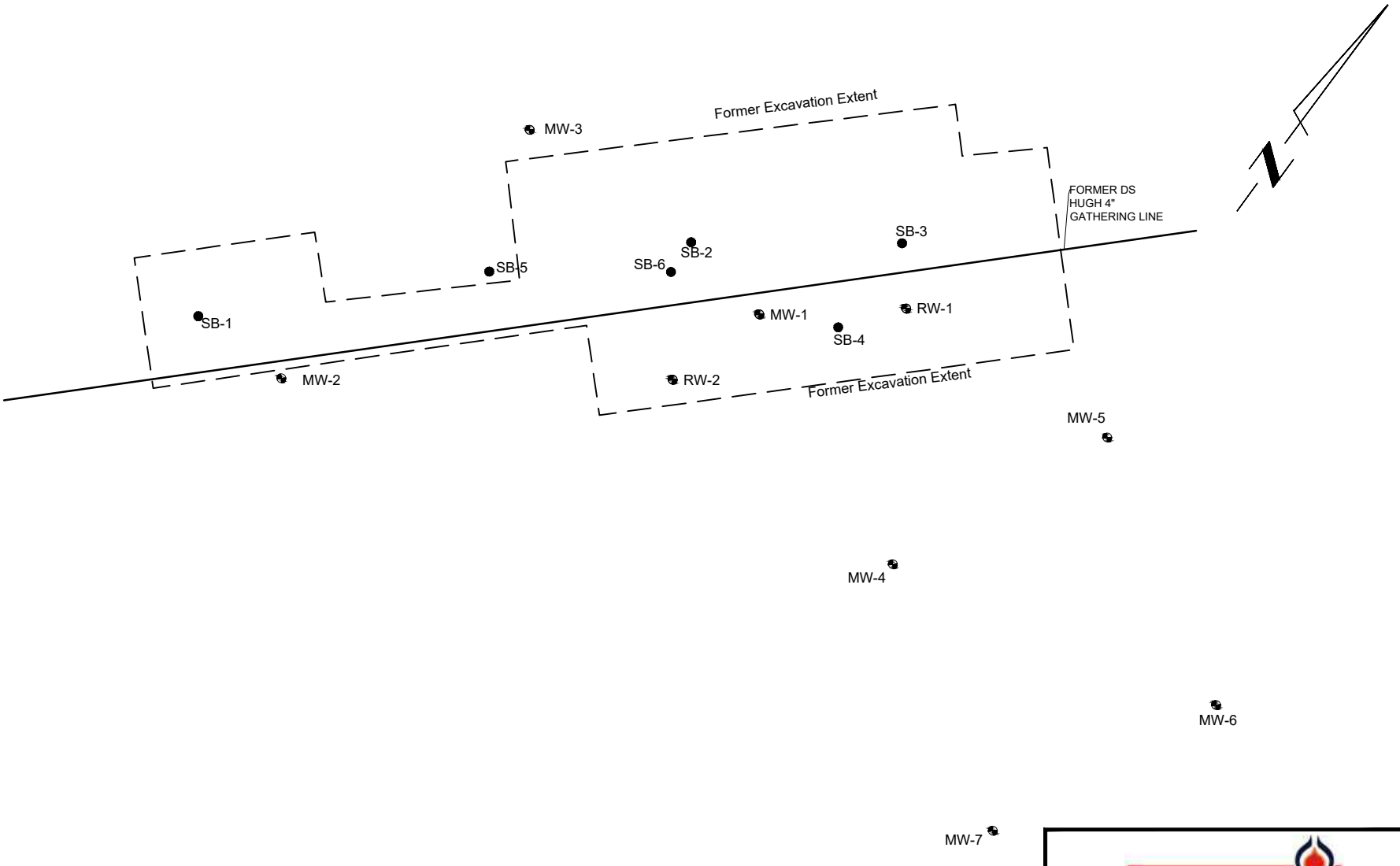
Figure 1
Site Location Map
D.S. Hugh Gathering 4" Line
SRS. No.: 2000-10807
Plains Pipeline, L.P.
Lea County, New Mexico

PROJ. NO: PAA12003	DATE: 12/22



LEGEND:

- MW- - MONITOR OR RECOVERY WELL LOCATIONS
- SB- - SOIL BORING LOCATIONS
- — — — - FORMER EXCAVATION EXTENT

0 40

FEET

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Figure 2
Site Layout and Soil Boring Location Map
D.S. Hugh Gathering 4" Line
SRS. No.: 2000-10807
Plains Pipeline, L.P.
Lea County, New Mexico

PROJ. NO: PAA12003	DATE: 12/22

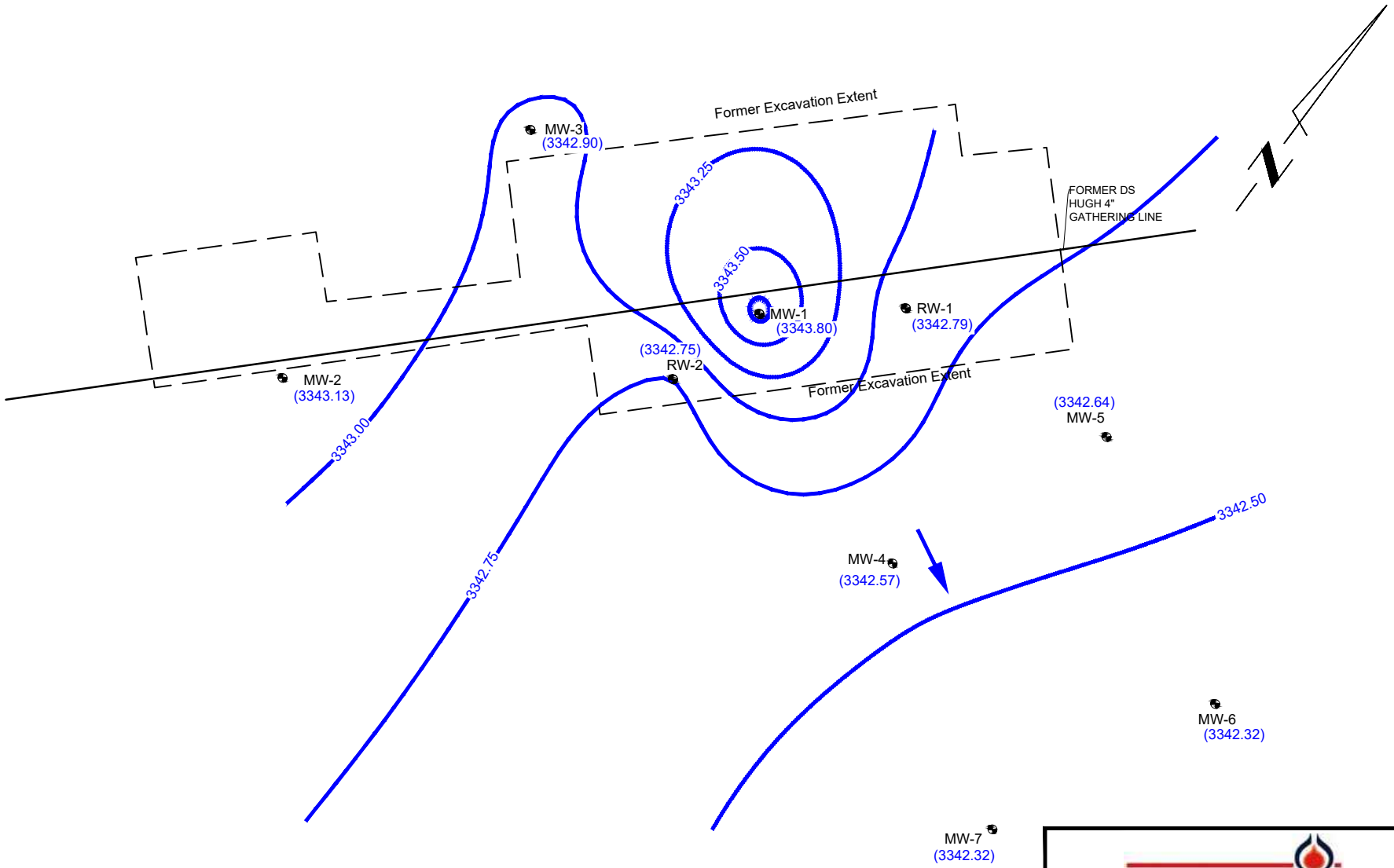

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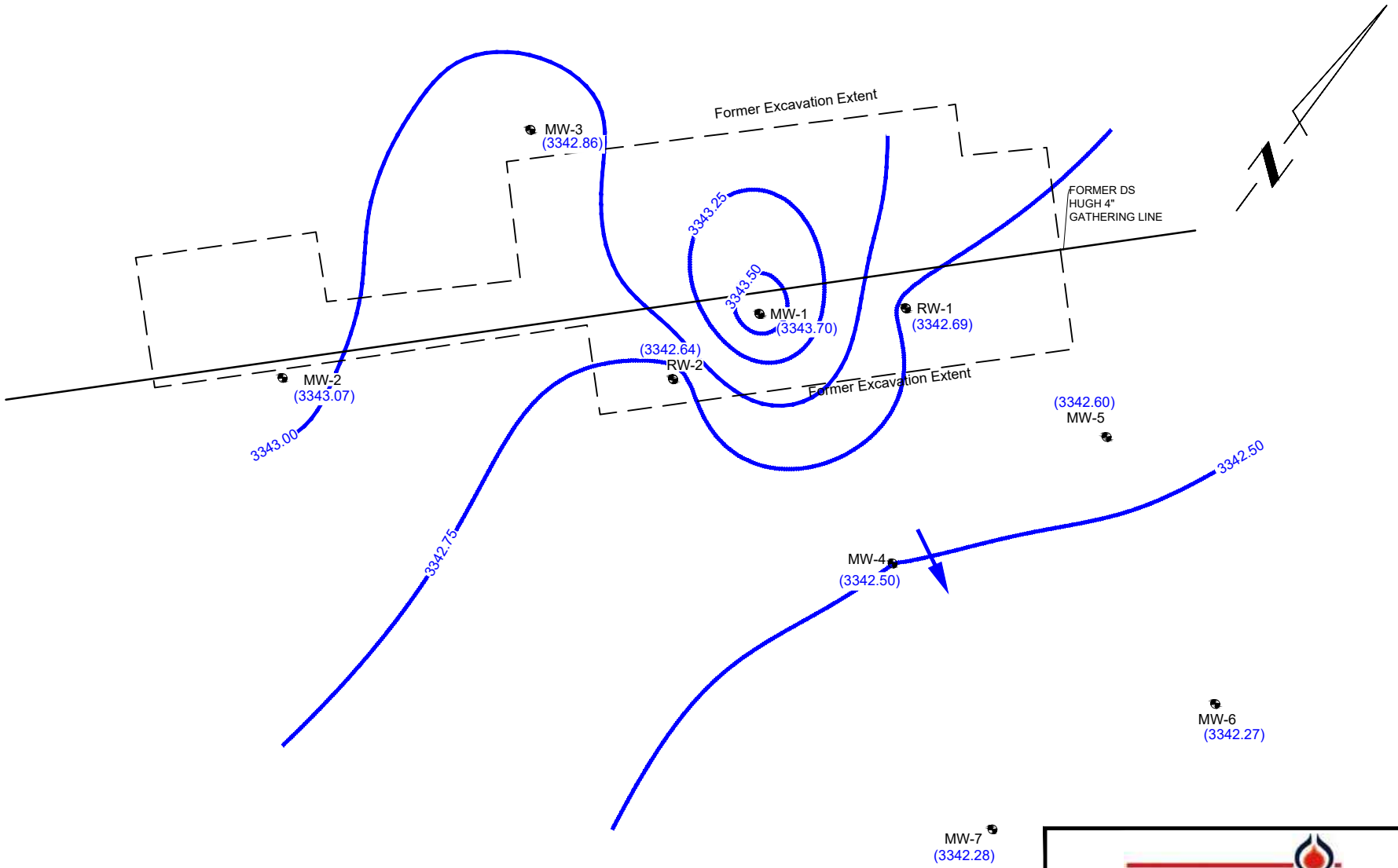
Figure 3A
1st Quarter 2022 - Groundwater Gradient Map
March 16, 2022
D.S. Hugh Gathering 4" Line
SRS. No.: 2000-10807
Plains Pipeline, L.P.
Lea County, New Mexico

PROJ. NO: PAA12003 | DATE: 4/22



LEGEND:

- MW- - Monitoring Well Location
- — — — - Former Excavation Extent
- 3341 - Groundwater Elevation Contour, ft. Contour Interval = 0.25 ft.
- (3341.10) - Corrected Groundwater Elevation, ft.
- ← - Groundwater Flow Direction

0 40
FEET

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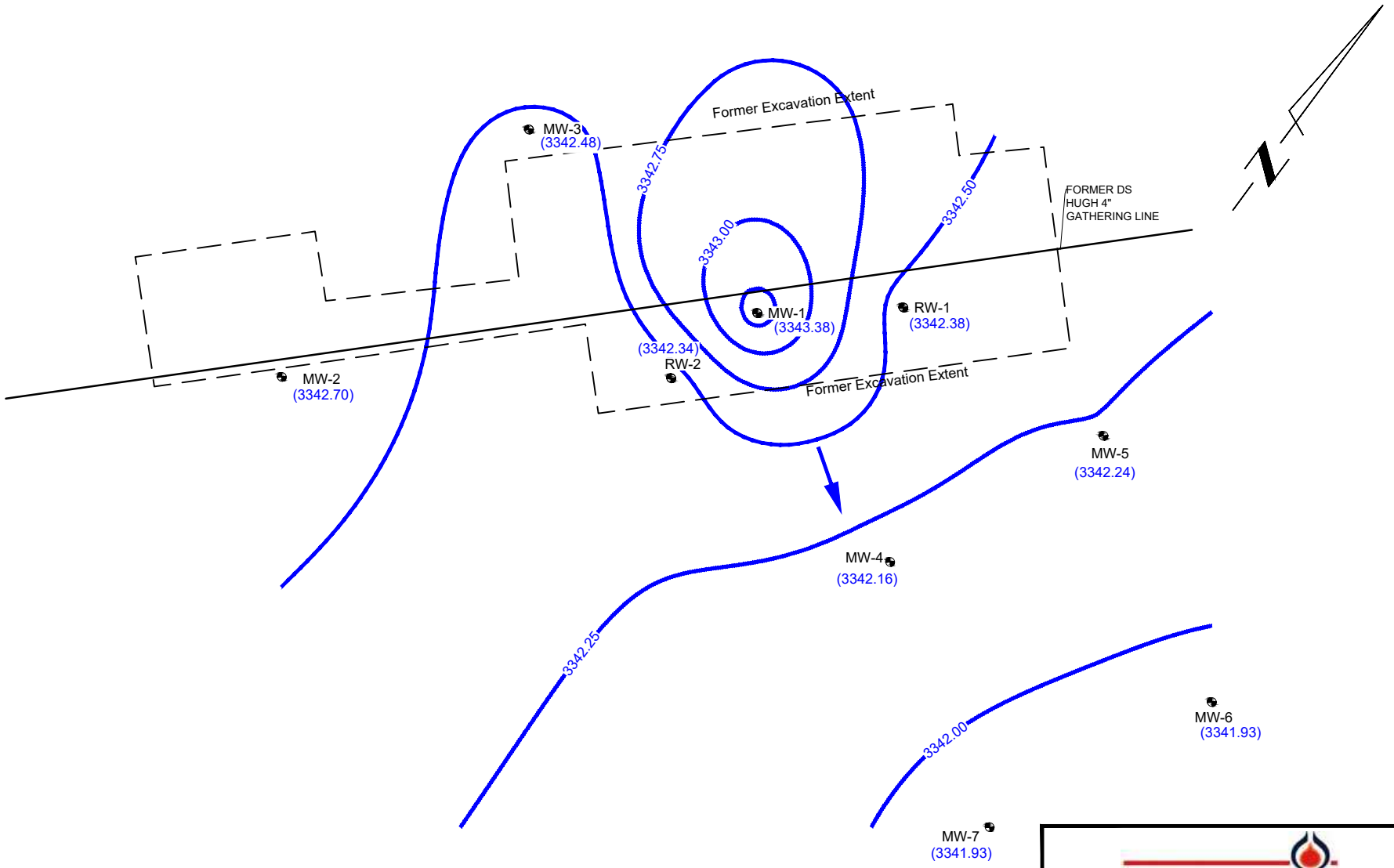
Figure 3B
2nd Quarter 2022 - Groundwater Gradient Map
June 1, 2022
D.S. Hugh Gathering 4" Line
SRS. No.: 2000-10807
Plains Pipeline, L.P.
Lea County, New Mexico

PROJ. NO: PAA12003 | DATE: 7/22



LEGEND:

- MW- - Monitoring Well Location
- — — — - Former Excavation Extent
- 3341 - Groundwater Elevation Contour, ft. Contour Interval = 0.25 ft.
- (3341.10) - Corrected Groundwater Elevation, ft.
- ← - Groundwater Flow Direction

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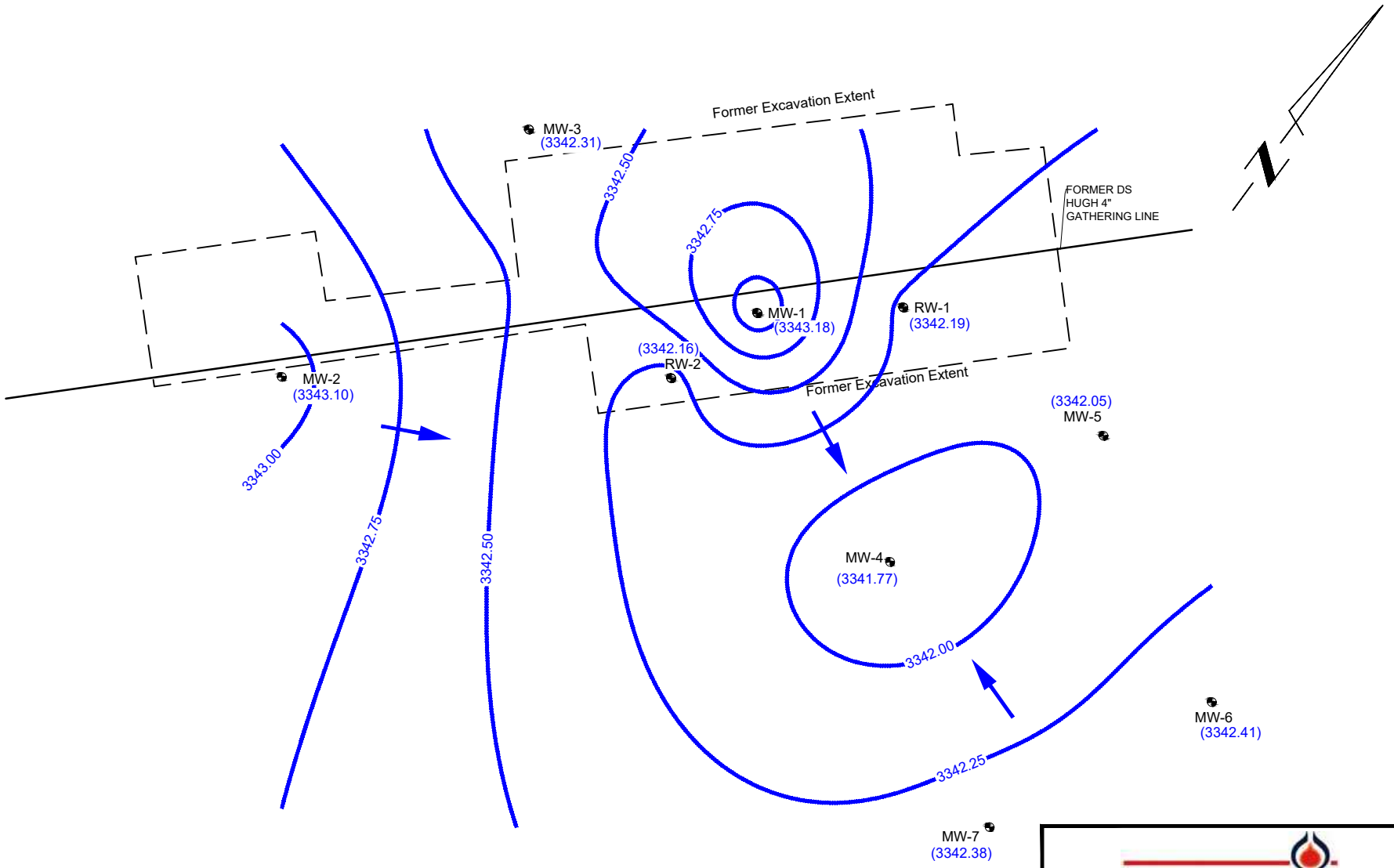
Figure 3C
3rd Quarter 2022 - Groundwater Gradient Map
August 31, 2022
D.S. Hugh Gathering 4" Line
SRS. No.: 2000-10807
Plains Pipeline, L.P.
Lea County, New Mexico

PROJ. NO: PAA12003 | DATE: 9/22



LEGEND:

- MW- - Monitoring Well Location
- Former Excavation Extent
- 3341 - Groundwater Elevation Contour, ft. Contour Interval = 0.25 ft.
- (3341.10) - Corrected Groundwater Elevation, ft.
- Groundwater Flow Direction

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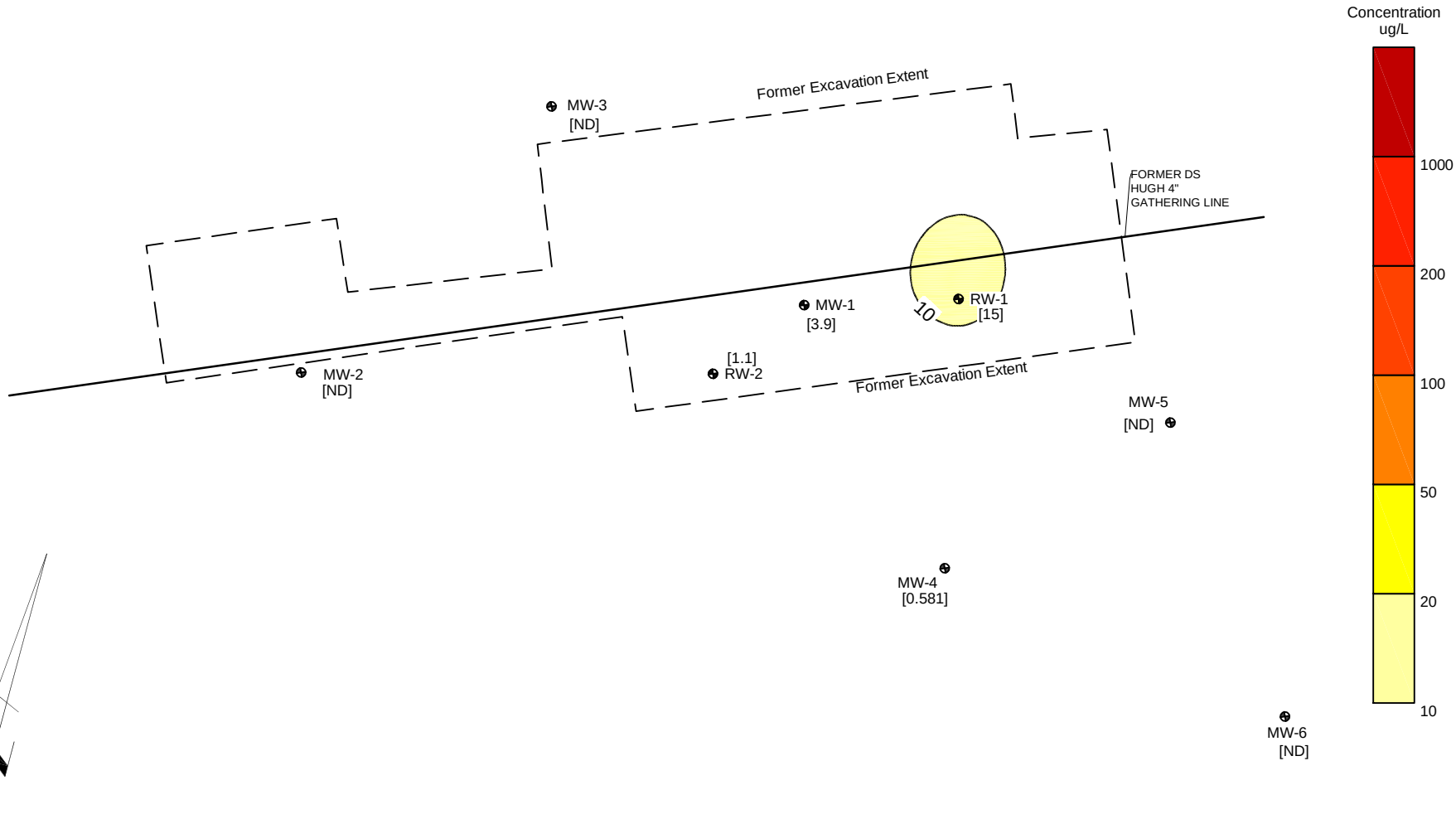
Figure 3D
4th Quarter 2022 - Groundwater Gradient Map
November 15, 2022
D.S. Hugh Gathering 4" Line
SRS. No.: 2000-10807
Plains Pipeline, L.P.
Lea County, New Mexico

PROJ. NO: PAA12003 | DATE: 12/22



LEGEND:

- MW- - MONITOR WELL LOCATIONS
- — — — - FORMER EXCAVATION EXTENT
- [28] - BENZENE CONCENTRATION IN ug/L
- ND - NOT DETECTED

NOTE:
The benzene concentrations presented on this map represent the highest of the concentrations reported in the groundwater samples collected during each quarterly sampling event during 2015.

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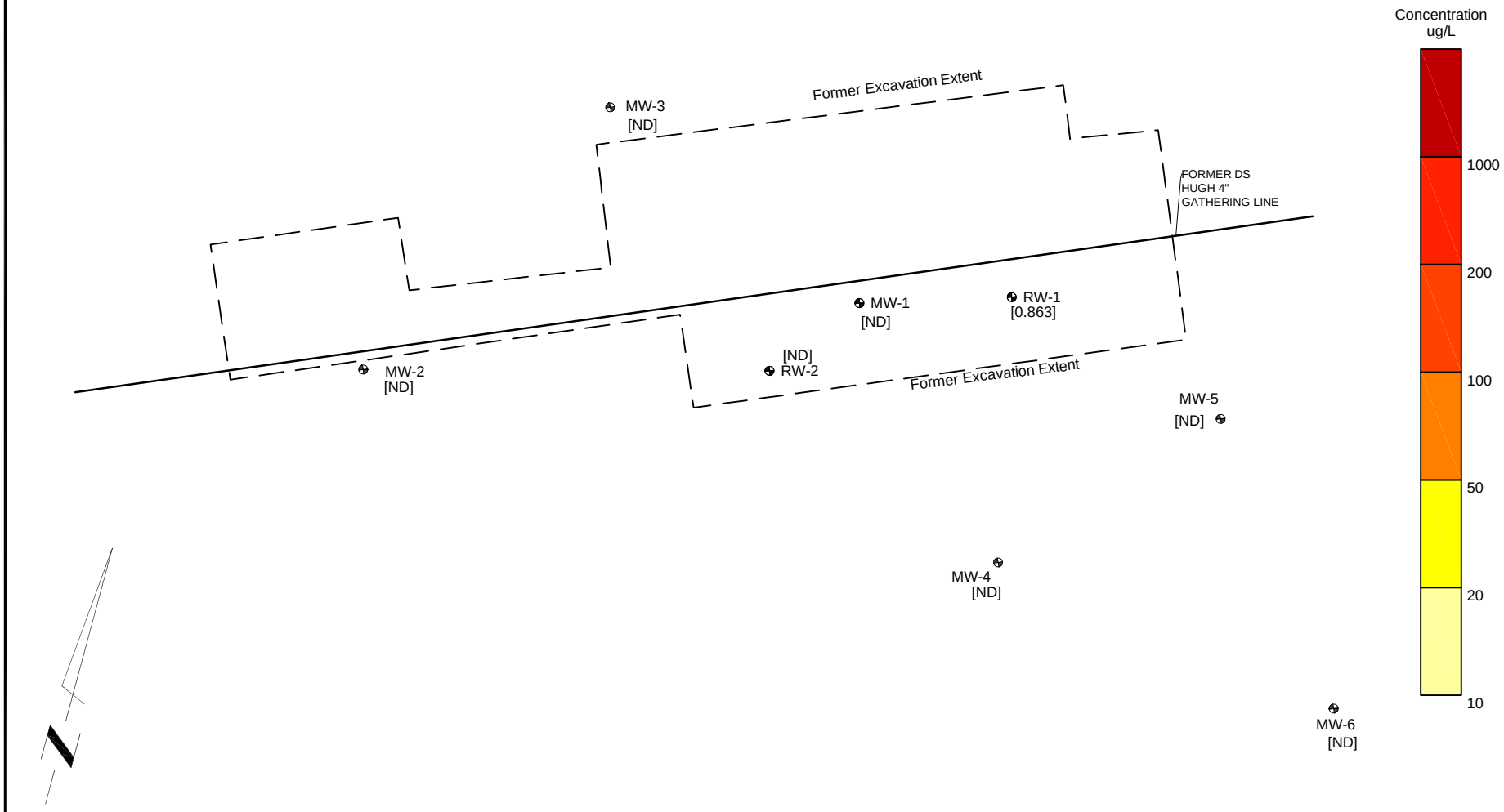
Figure 5
2015 - Benzene Isopleth Map
D.S. Hugh Gathering 4" Line
SRS. No.: 2000-10807
Plains Pipeline, L.P.
Lea County, New Mexico

PROJ. NO: PAA12003 | DATE: 1/21



LEGEND:

- MW- - MONITOR WELL LOCATIONS
- — — — - FORMER EXCAVATION EXTENT
- [28] - BENZENE CONCENTRATION IN ug/L
- ND - NOT DETECTED

NOTE:
The benzene concentrations presented on this map represent the highest of the concentrations reported in the groundwater samples collected during each quarterly sampling event during 2016.

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Figure 6
2016 - Benzene Isopleth Map
D.S. Hugh Gathering 4" Line
SRS. No.: 2000-10807
Plains Pipeline, L.P.
Lea County, New Mexico

PROJ. NO: PAA12003	DATE: 1/21

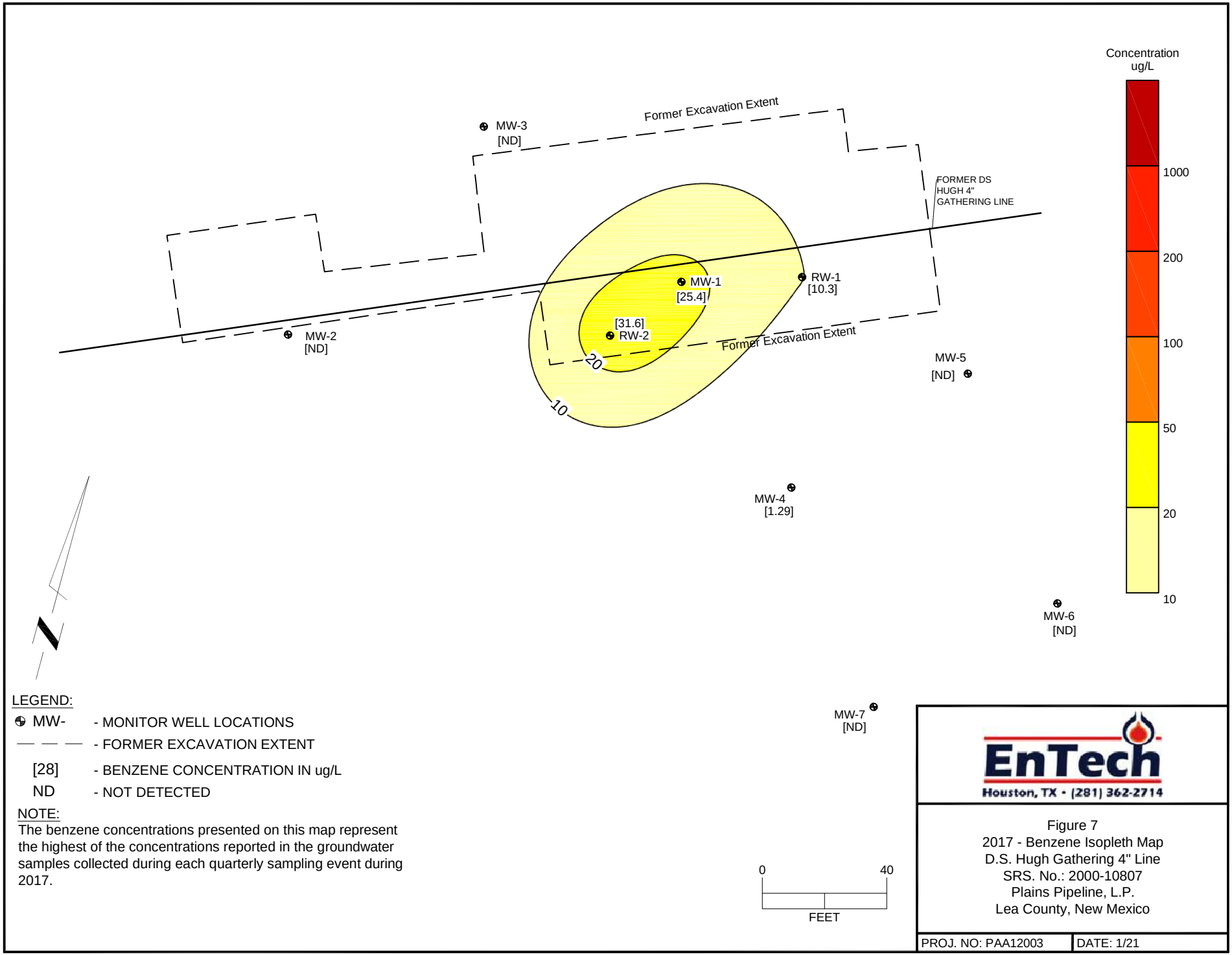
Concentration
ug/L
1000
200
100
50
20
10
Former Excavation Extent
MW-3
[ND]
FORMER DS
HUGH 4"
GATHERING LINE
MW-1
[25.4]
RW-1
[10.3]
[31.6]
RW-2
MW-2
[ND]
Former Excavation Extent
20
10
MW-5
[ND]
MW-4
[1.29]
MW-6
[ND]
MW-7
[ND]
N
LEGEND:
MW- - MONITOR WELL LOCATIONS
- FORMER EXCAVATION EXTENT
[28] - BENZENE CONCENTRATION IN ug/L
ND - NOT DETECTED
NOTE:
The benzene concentrations presented on this map represent the highest of the concentrations reported in the groundwater samples collected during each quarterly sampling event during 2017.
0
40
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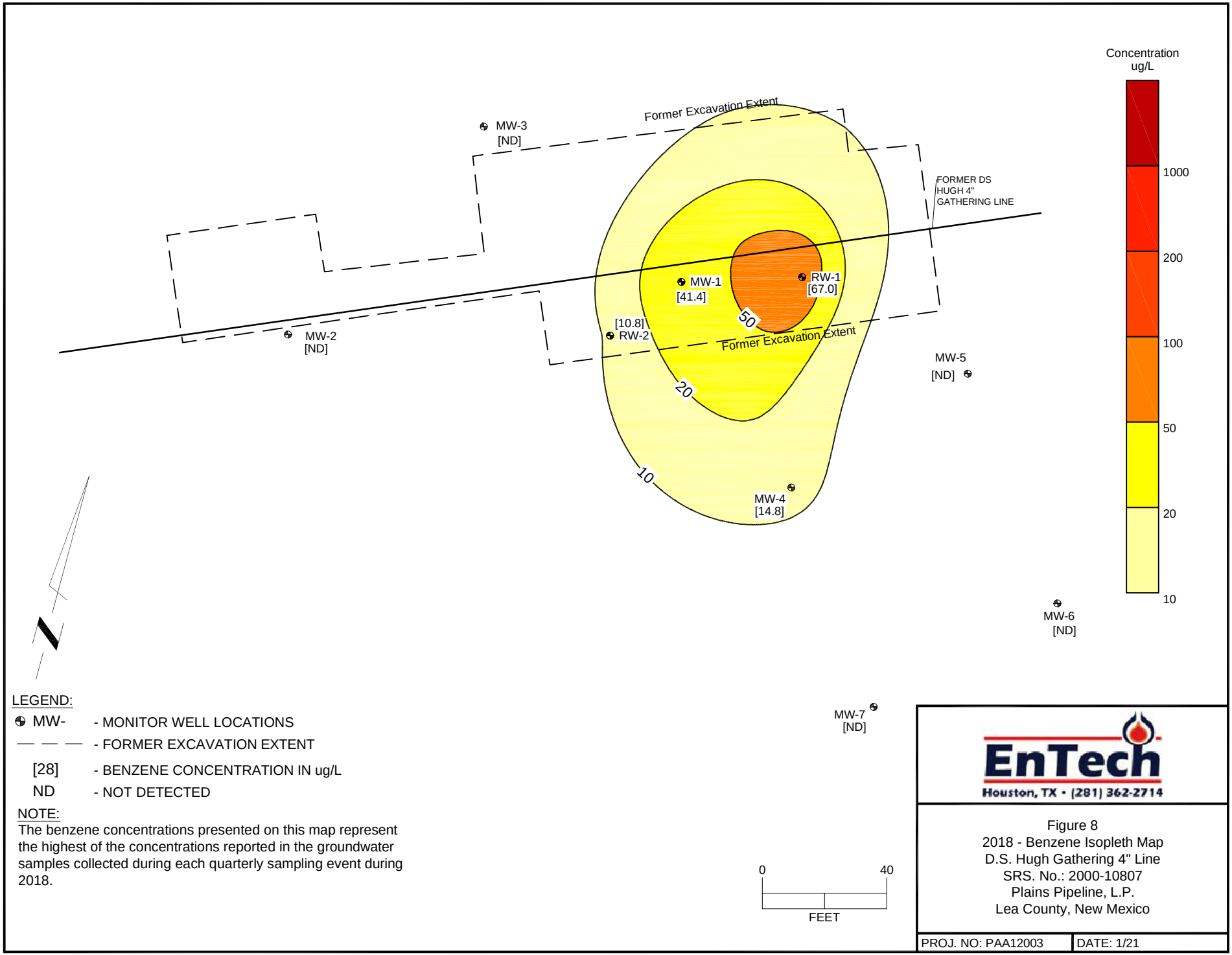
Figure 7
2017 - Benzene Isopleth Map
D.S. Hugh Gathering 4" Line
SRS. No.: 2000-10807
Plains Pipeline, L.P.
Lea County, New Mexico
PROJ. NO: PAA12003
DATE: 1/21



LEGEND:

- MW- - MONITOR WELL LOCATIONS
- — — — - FORMER EXCAVATION EXTENT
- [28] - BENZENE CONCENTRATION IN ug/L
- ND - NOT DETECTED

NOTE:
The benzene concentrations presented on this map represent the highest of the concentrations reported in the groundwater samples collected during each quarterly sampling event during 2018.

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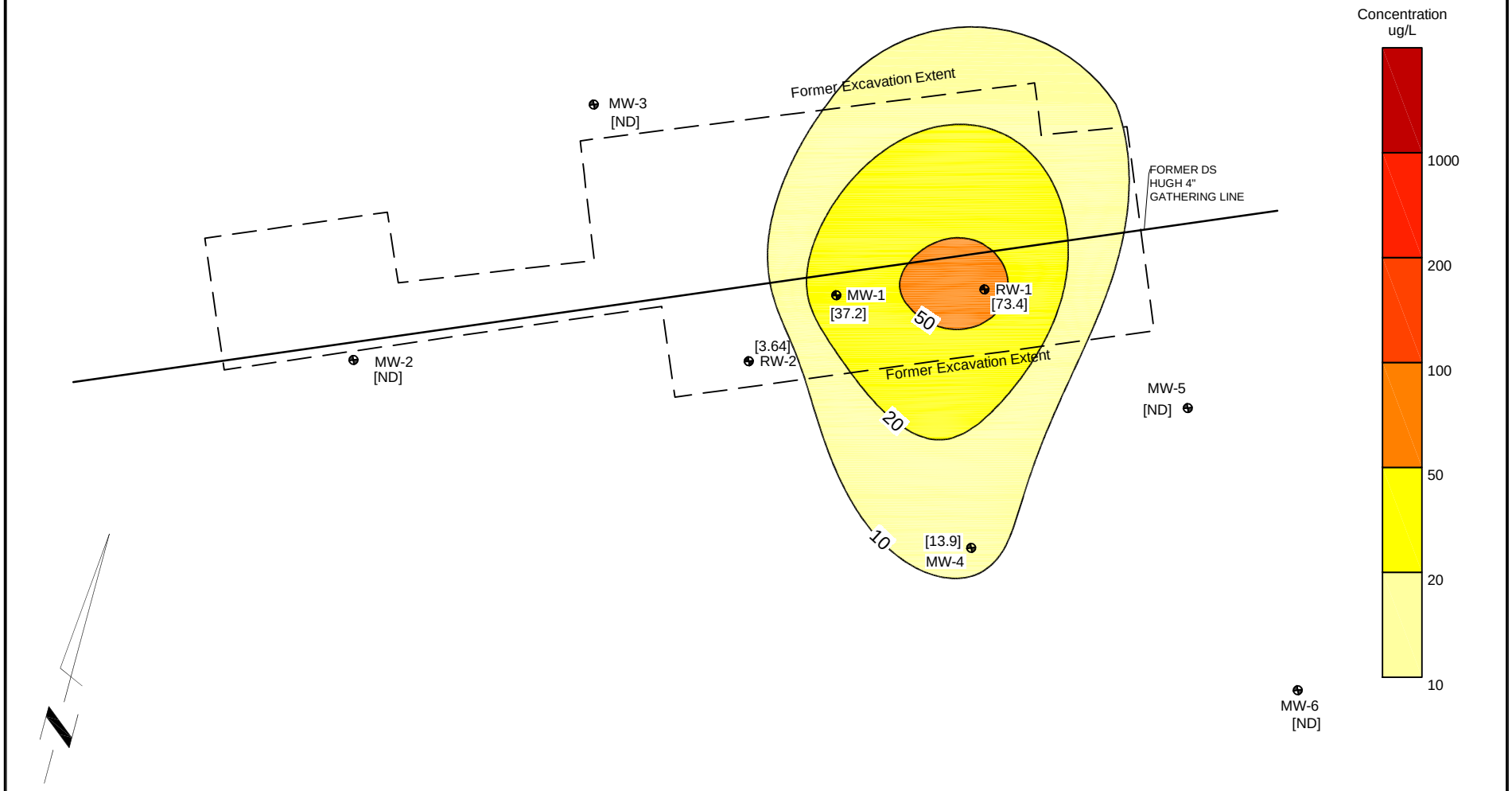
Figure 8
2018 - Benzene Isopleth Map
D.S. Hugh Gathering 4" Line
SRS. No.: 2000-10807
Plains Pipeline, L.P.
Lea County, New Mexico

PROJ. NO: PAA12003	DATE: 1/21



LEGEND:

- MW- - MONITOR WELL LOCATIONS
- — — — - FORMER EXCAVATION EXTENT
- [28] - BENZENE CONCENTRATION IN ug/L
- ND - NOT DETECTED

NOTE:
The benzene concentrations presented on this map represent the highest of the concentrations reported in the groundwater samples collected during each quarterly sampling event during 2019.

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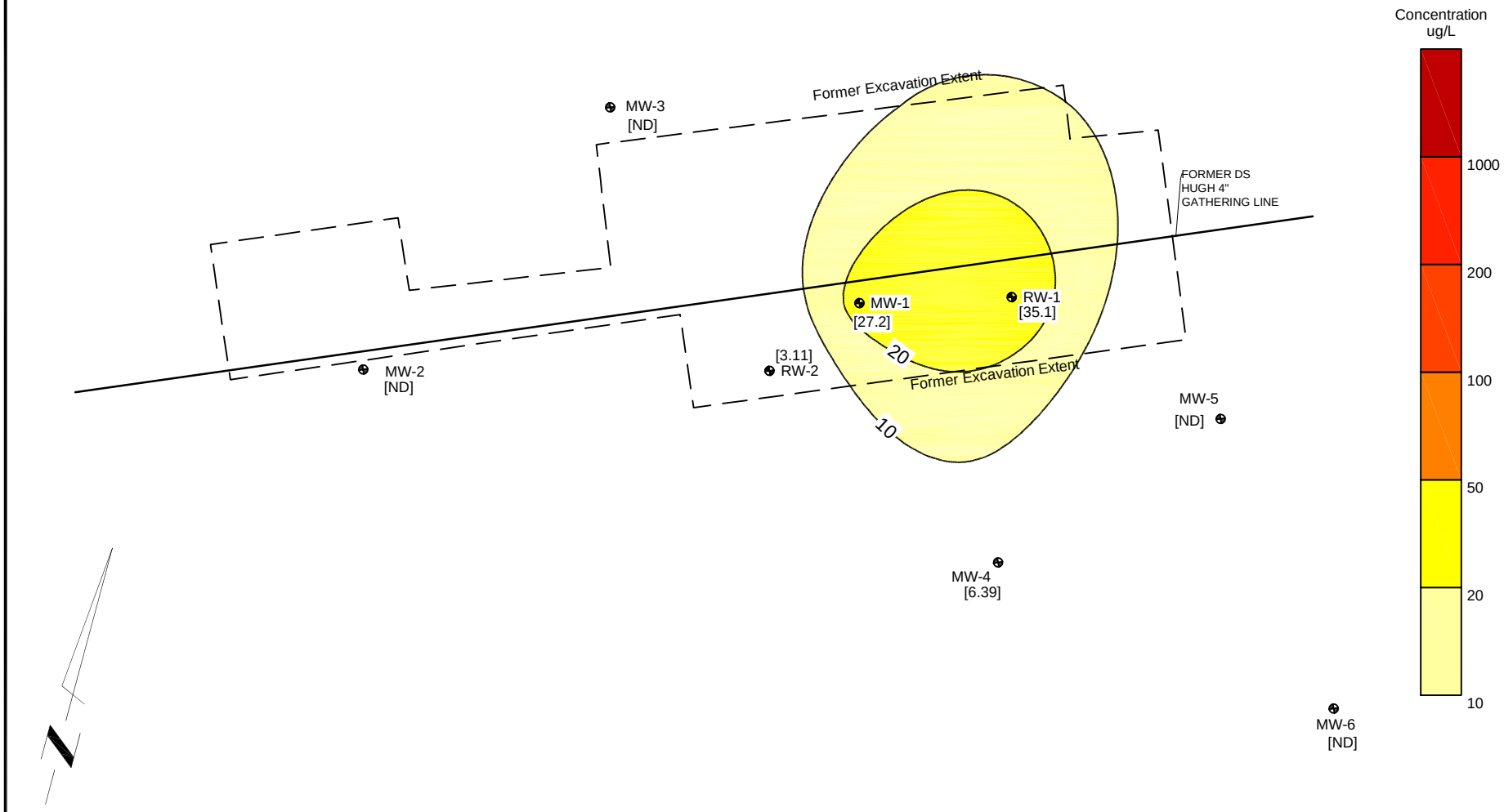
Figure 9
2019 - Benzene Isopleth Map
D.S. Hugh Gathering 4" Line
SRS. No.: 2000-10807
Plains Pipeline, L.P.
Lea County, New Mexico

PROJ. NO: PAA12003	DATE: 1/21



LEGEND:

- MW- - MONITOR WELL LOCATIONS
- — — — - FORMER EXCAVATION EXTENT
- [28] - BENZENE CONCENTRATION IN ug/L
- ND - NOT DETECTED

NOTE:
The benzene concentrations presented on this map represent the highest of the concentrations reported in the groundwater samples collected during each quarterly sampling event during 2020.

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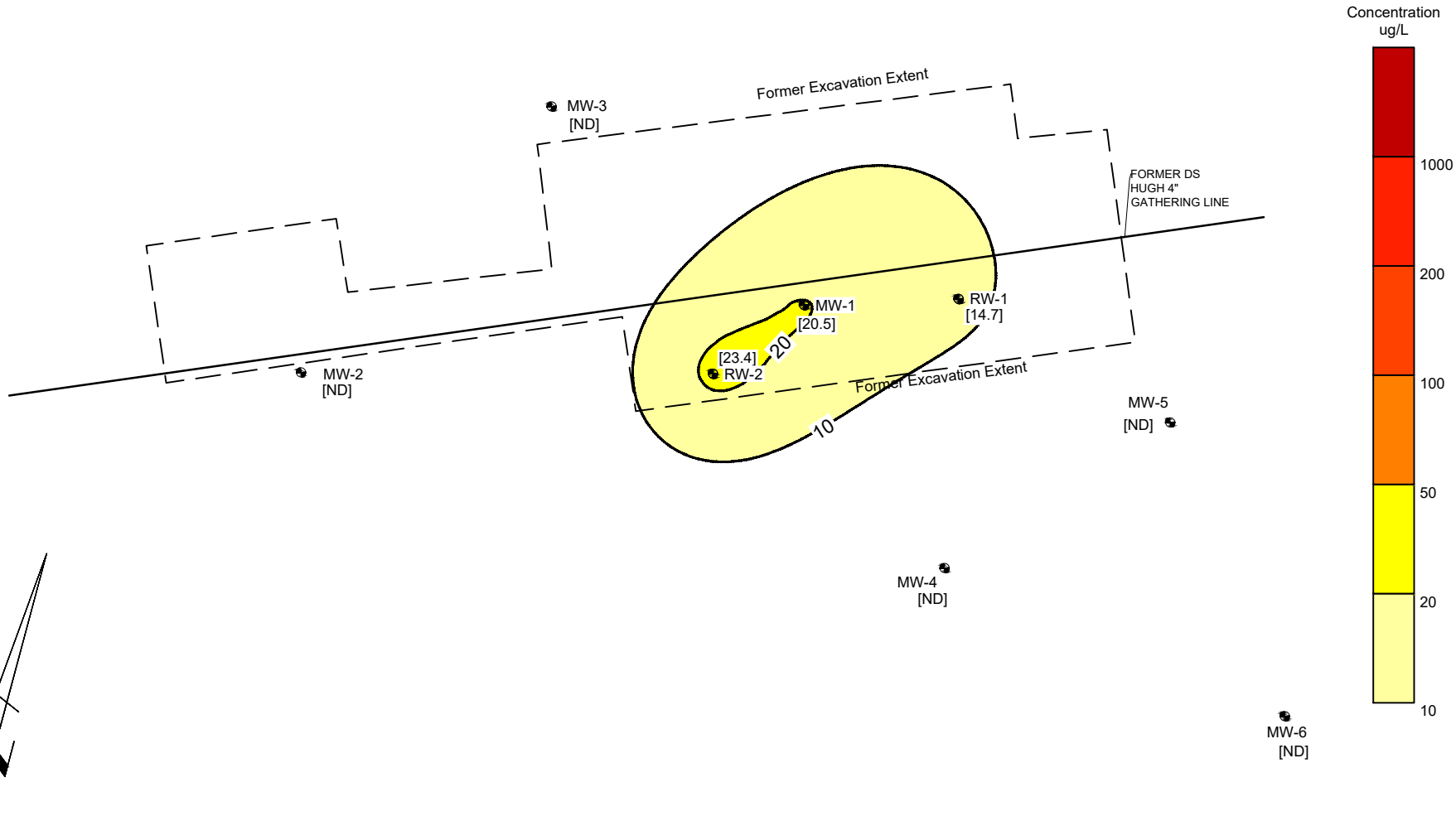
Figure 10
2020 - Benzene Isopleth Map
D.S. Hugh Gathering 4" Line
SRS. No.: 2000-10807
Plains Pipeline, L.P.
Lea County, New Mexico

PROJ. NO: PAA12003 | DATE: 1/21



LEGEND:

- MW- - MONITOR WELL LOCATIONS
- — — — - FORMER EXCAVATION EXTENT
- [28] - BENZENE CONCENTRATION IN ug/L
- ND - NOT DETECTED

NOTE:
The benzene concentrations presented on this map represent the highest of the concentrations reported in the groundwater samples collected during each quarterly sampling event during 2021.

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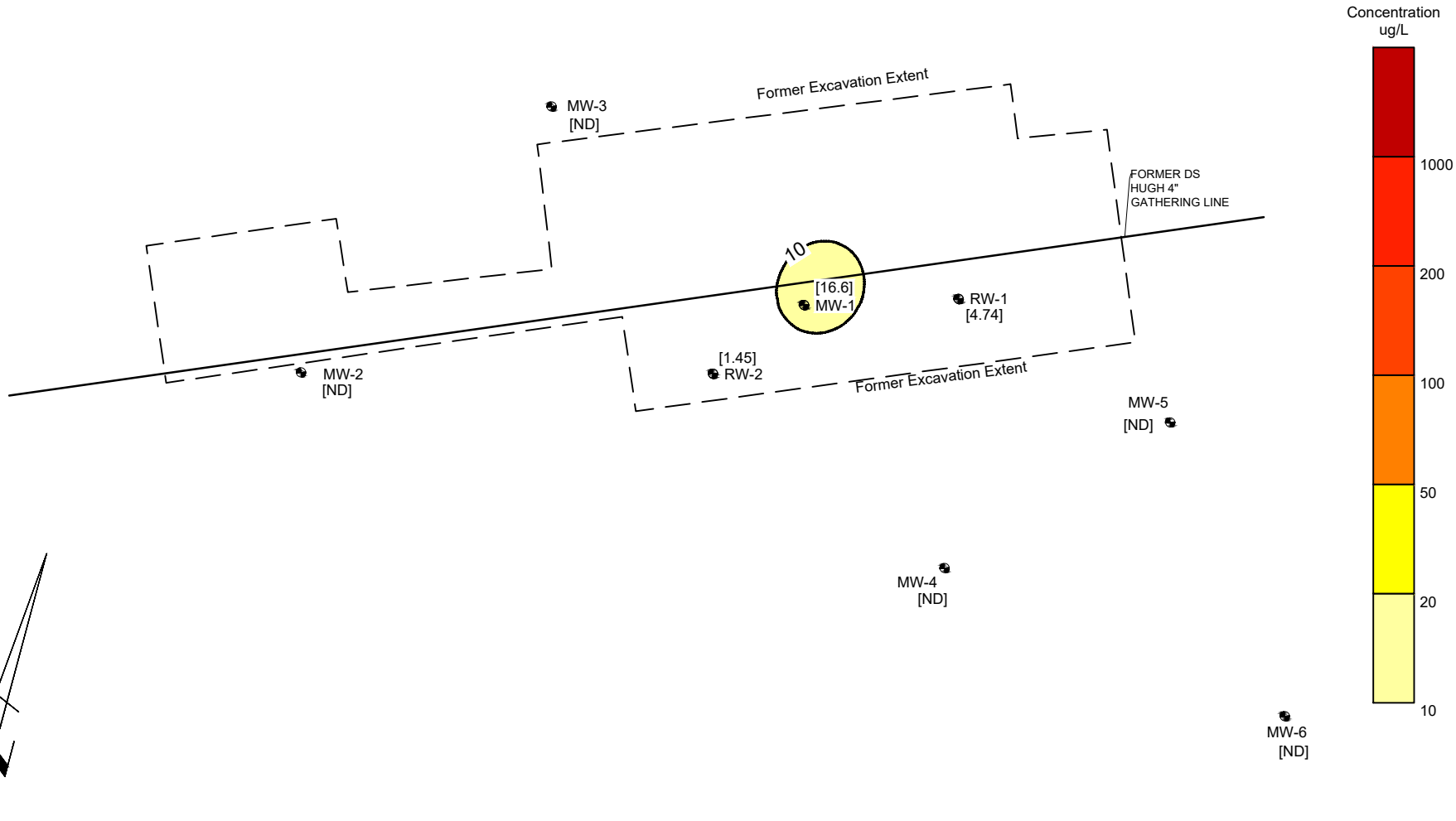
Figure 11
2021 - Benzene Isopleth Map
D.S. Hugh Gathering 4" Line
SRS. No.: 2000-10807
Plains Pipeline, L.P.
Lea County, New Mexico

PROJ. NO: PAA12003 | DATE: 12/21



LEGEND:

- MW- - MONITOR WELL LOCATIONS
- — — — - FORMER EXCAVATION EXTENT
- [28] - BENZENE CONCENTRATION IN ug/L
- ND - NOT DETECTED

NOTE:
The benzene concentrations presented on this map represent the highest of the concentrations reported in the groundwater samples collected during each quarterly sampling event during 2022.

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Figure 12
2022 - Benzene Isopleth Map
D.S. Hugh Gathering 4" Line
SRS. No.: 2000-10807
Plains Pipeline, L.P.
Lea County, New Mexico

PROJ. NO: PAA12003	DATE: 12/22

TABLES

TABLE 1
2020 -2022 Well Survey Data and Groundwater Elevations
Plains Marketing, L.P.
DS Hugh Site
SRS #2000-10807
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
						PSH	H_20		
MW-1	03/17/20	3389.00	sheen	44.99	sheen	sheen	10.00	3344.01	
MW-1	06/26/20	3389.00	sheen	44.89	sheen	sheen	10.00	3344.11	Sampled
MW-1	09/18/20	3389.00	45.02	45.22	0.20	sheen	10.00	3343.95	
MW-1	12/21/20	3389.00	44.89	44.91	0.02	sheen	10.00	3344.11	
MW-1	03/24/21	3389.00	sheen	44.98	sheen	sheen	10.00	3344.02	
MW-1	06/29/21	3389.00	44.90	44.92	0.02	sheen	10.00	3344.10	Sampled
MW-1	08/27/21	3389.00	sheen	45.08	sheen	sheen	10.00	3343.92	
MW-1	12/02/21	3389.00	46.18	46.22	0.04	sheen	10.00	3342.81	
MW-1	03/16/22	3389.00	ND	45.20	ND	ND	10.00	3343.80	Sampled
MW-1	06/01/22	3389.00	ND	45.30	ND	ND	10.00	3343.70	Sampled
MW-1	08/31/22	3389.00	ND	45.62	ND	ND	10.00	3343.38	Sampled
MW-1	11/15/22	3389.00	ND	45.82	ND	ND	10.00	3343.18	Sampled
MW-2	03/17/20	3388.38	ND	45.00	ND	NA	NA	3343.38	Sampled
MW-2	06/26/20	3388.38	ND	44.91	ND	NA	NA	3343.47	Sampled
MW-2	09/18/20	3388.38	ND	45.10	ND	NA	NA	3343.28	Sampled
MW-2	12/21/20	3388.38	ND	44.98	ND	NA	NA	3343.40	Sampled
MW-2	03/24/21	3388.38	ND	45.01	ND	NA	NA	3343.37	Sampled
MW-2	06/29/21	3388.38	ND	44.96	ND	NA	NA	3343.42	Sampled
MW-2	08/27/21	3388.38	ND	45.15	ND	NA	NA	3343.23	Sampled
MW-2	12/02/21	3388.38	ND	45.25	ND	NA	NA	3343.13	Sampled
MW-2	03/16/22	3388.38	ND	45.25	ND	NA	NA	3343.13	Sampled
MW-2	06/01/22	3388.38	ND	45.31	ND	NA	NA	3343.07	Sampled
MW-2	08/31/22	3388.38	ND	45.68	ND	NA	NA	3342.70	Sampled
MW-2	11/15/22	3388.38	ND	45.28	ND	NA	NA	3343.10	Sampled
MW-3	03/17/20	3388.52	ND	45.37	ND	NA	NA	3343.15	Sampled
MW-3	06/26/20	3388.52	ND	45.27	ND	NA	NA	3343.25	Sampled
MW-3	09/18/20	3388.52	ND	45.46	ND	NA	NA	3343.06	Sampled
MW-3	12/21/20	3388.52	ND	45.32	ND	NA	NA	3343.20	Sampled
MW-3	03/24/21	3388.52	ND	45.34	ND	NA	NA	3343.18	Sampled
MW-3	06/29/21	3388.52	ND	45.31	ND	NA	NA	3343.21	Sampled
MW-3	08/27/21	3388.52	ND	45.51	ND	NA	NA	3343.01	Sampled
MW-3	12/02/21	3388.52	ND	45.62	ND	NA	NA	3342.90	Sampled
MW-3	03/16/22	3388.52	ND	45.62	ND	NA	NA	3342.90	Sampled
MW-3	06/01/22	3388.52	ND	45.66	ND	NA	NA	3342.86	Sampled
MW-3	08/31/22	3388.52	ND	46.04	ND	NA	NA	3342.48	Sampled
MW-3	11/15/22	3388.52	ND	46.21	ND	NA	NA	3342.31	Sampled
MW-4	03/17/20	3388.92	ND	46.13	ND	NA	NA	3342.79	Sampled
MW-4	06/26/20	3388.92	ND	46.05	ND	NA	NA	3342.87	Sampled
MW-4	09/18/20	3388.92	ND	46.22	ND	NA	NA	3342.70	Sampled
MW-4	12/21/20	3388.92	ND	46.10	ND	NA	NA	3342.82	Sampled
MW-4	03/24/21	3388.92	ND	46.11	ND	NA	NA	3342.81	Sampled
MW-4	06/29/21	3388.92	ND	46.08	ND	NA	NA	3342.84	Sampled
MW-4	08/27/21	3388.92	ND	46.25	ND	NA	NA	3342.67	Sampled
MW-4	12/02/21	3388.92	ND	46.36	ND	NA	NA	3342.56	Sampled
MW-4	03/16/22	3388.92	ND	46.35	ND	NA	NA	3342.57	Sampled
MW-4	06/01/22	3388.92	ND	46.42	ND	NA	NA	3342.50	Sampled
MW-4	08/31/22	3388.92	ND	46.76	ND	NA	NA	3342.16	Sampled
MW-4	11/15/22	3388.92	ND	47.15	ND	NA	NA	3341.77	Sampled
MW-5	03/17/20	3389.40	ND	46.53	ND	NA	NA	3342.87	Sampled
MW-5	06/26/20	3389.40	ND	46.46	ND	NA	NA	3342.94	Sampled
MW-5	09/18/20	3389.40	ND	46.63	ND	NA	NA	3342.77	Sampled
MW-5	12/21/20	3389.40	ND	46.48	ND	NA	NA	3342.92	Sampled
MW-5	03/24/21	3389.40	ND	46.51	ND	NA	NA	3342.89	Sampled
MW-5	06/29/21	3389.40	ND	46.48	ND	NA	NA	3342.92	Sampled
MW-5	08/27/21	3389.40	ND	46.63	ND	NA	NA	3342.77	Sampled
MW-5	12/02/21	3389.40	ND	46.75	ND	NA	NA	3342.65	Sampled
MW-5	03/16/22	3389.40	ND	46.76	ND	NA	NA	3342.64	Sampled
MW-5	06/01/22	3389.40	ND	46.80	ND	NA	NA	3342.60	Sampled
MW-5	08/31/22	3389.40	ND	46.80	47.16	NA	NA	3342.60	Sampled
MW-5	11/15/22	3389.40	ND	47.35	47.16	NA	NA	3342.05	Sampled

TABLE 1
2020 -2022 Well Survey Data and Groundwater Elevations
Plains Marketing, L.P.
DS Hugh Site
SRS #2000-10807
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
						PSH	H_20		
MW-6	03/17/20	3389.72	ND	47.19	ND	NA	NA	3342.53	Sampled
MW-6	06/26/20	3389.72	ND	47.11	ND	NA	NA	3342.61	Sampled
MW-6	09/18/20	3389.72	ND	47.27	ND	NA	NA	3342.45	Sampled
MW-6	12/21/20	3389.72	ND	47.12	ND	NA	NA	3342.60	Sampled
MW-6	03/24/21	3389.72	ND	47.16	ND	NA	NA	3342.56	Sampled
MW-6	06/29/21	3389.72	ND	46.12	ND	NA	NA	3343.60	Sampled
MW-6	08/27/21	3389.72	ND	47.28	ND	NA	NA	3342.44	Sampled
MW-6	12/02/21	3389.72	ND	47.39	ND	NA	NA	3342.33	Sampled
MW-6	03/16/22	3389.72	ND	47.40	ND	NA	NA	3342.32	Sampled
MW-6	06/01/22	3389.72	ND	47.45	ND	NA	NA	3342.27	Sampled
MW-6	08/31/22	3389.72	ND	47.79	ND	NA	NA	3341.93	Sampled
MW-6	11/15/22	3389.72	ND	47.31	ND	NA	NA	3342.41	Sampled
MW-7	03/17/20	3389.28	ND	46.75	ND	NA	NA	3342.53	Sampled
MW-7	06/26/20	3389.28	ND	46.67	ND	NA	NA	3342.61	Sampled
MW-7	09/18/20	3389.28	ND	46.85	ND	NA	NA	3342.43	Sampled
MW-7	12/21/20	3389.28	ND	46.71	ND	NA	NA	3342.57	Sampled
MW-7	03/24/21	3389.28	ND	46.73	ND	NA	NA	3342.55	Sampled
MW-7	06/29/21	3389.28	ND	46.70	ND	NA	NA	3342.58	Sampled
MW-7	08/27/21	3389.28	ND	46.85	ND	NA	NA	3342.43	Sampled
MW-7	12/02/21	3389.28	ND	46.97	ND	NA	NA	3342.31	Sampled
MW-7	03/16/22	3389.28	ND	46.96	ND	NA	NA	3342.32	Sampled
MW-7	06/01/22	3389.28	ND	47.00	ND	NA	NA	3342.28	Sampled
MW-7	08/31/22	3389.28	ND	47.35	ND	NA	NA	3341.93	Sampled
MW-7	11/15/22	3389.28	ND	46.90	ND	NA	NA	3342.38	Sampled
RW-1	03/17/20	3389.34	sheen	46.34	sheen	NA	10.00	3343.00	Sampled
RW-1	06/26/20	3389.34	sheen	46.24	sheen	NA	10.00	3343.10	Sampled
RW-1	09/18/20	3389.34	ND	46.40	ND	NA	10.00	3342.94	Sampled
RW-1	12/21/20	3389.34	sheen	46.27	sheen	NA	NA	3343.07	
RW-1	03/24/21	3389.34	ND	46.32	ND	NA	10.00	3343.02	Sampled
RW-1	06/29/21	3389.34	ND	46.28	ND	NA	10.00	3343.06	Sampled
RW-1	08/27/21	3389.34	ND	46.44	ND	NA	10.00	3342.90	Sampled
RW-1	12/02/21	3389.34	ND	46.55	ND	NA	NA	3342.79	Sampled
RW-1	03/16/22	3389.34	ND	46.55	ND	NA	NA	3342.79	Sampled
RW-1	06/01/22	3389.34	ND	46.65	ND	NA	NA	3342.69	Sampled
RW-1	08/31/22	3389.34	ND	46.96	ND	NA	NA	3342.38	Sampled
RW-1	11/15/22	3389.34	ND	47.15	ND	NA	NA	3342.19	Sampled
RW-2	03/17/20	3389.06	ND	46.02	ND	NA	10.00	3343.04	Sampled
RW-2	06/26/20	3389.06	ND	46.00	ND	NA	10.00	3343.06	Sampled
RW-2	09/18/20	3389.06	ND	46.15	ND	NA	10.00	3342.91	Sampled
RW-2	12/21/20	3389.06	sheen	46.02	sheen	NA	NA	3343.04	
RW-2	03/24/21	3389.06	ND	46.08	ND	NA	10.00	3342.98	Sampled
RW-2	06/29/21	3389.06	ND	46.02	ND	NA	10.00	3343.04	Sampled
RW-2	08/27/21	3389.06	ND	46.20	ND	NA	10.00	3342.86	Sampled
RW-2	12/02/21	3389.06	ND	46.31	ND	NA	NA	3342.75	Sampled
RW-2	03/16/22	3389.06	ND	46.31	ND	NA	NA	3342.75	Sampled
RW-2	06/01/22	3389.06	sheen	46.42	sheen	NA	NA	3342.64	Sampled
RW-2	08/31/22	3389.06	ND	46.72	ND	NA	NA	3342.34	Sampled
RW-2	11/15/22	3389.06	ND	46.90	ND	NA	NA	3342.16	Sampled

NA: Not Applicable
ND: Not Detected
NG: Not Gauged
[a] Possible error in field data entry

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND PSH RECOVERY DATA
2018-2022
PLAINS MARKETING, L.P.
D.S. HUGH SITE
LEA COUNTY, NEW MEXICO

	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
MW-1	01/04/18	3389.00	58.23	sheen	45.68	sheen	NA	10.00	3343.32	
MW-1	01/04/18	3389.00	58.23	sheen	45.60	sheen	NA	NA	3343.40	
MW-1	01/17/18	3389.00	58.23	sheen	45.62	sheen	NA	NA	3343.38	
MW-1	01/26/18	3389.00	58.23	sheen	45.53	sheen	NA	NA	3343.47	
MW-1	02/01/18	3389.00	58.23	sheen	45.67	sheen	NA	NA	3343.33	
MW-1	02/08/18	3389.00	58.23	ND	45.51	ND	NA	NA	3343.49	
MW-1	02/14/18	3389.00	58.23	sheen	45.50	sheen	NA	NA	3343.50	
MW-1	02/21/18	3389.00	58.23	sheen	45.56	sheen	NA	NA	3343.44	
MW-1	02/28/18	3389.00	58.23	ND	45.47	ND	NA	NA	3343.53	
MW-1	03/08/18	3389.00	58.23	sheen	45.56	sheen	NA	NA	3343.44	Sampled
MW-1	03/15/18	3389.00	58.23	ND	45.54	ND	NA	10.00	3343.46	
MW-1	03/22/18	3389.00	58.23	sheen	45.58	sheen	sheen	10.00	3343.42	
MW-1	03/28/18	3389.00	58.23	ND	45.51	ND	NA	10.00	3343.49	
MW-1	04/03/18	3389.00	58.23	sheen	45.53	sheen	sheen	10.00	3343.47	
MW-1	04/10/18	3389.00	58.23	sheen	45.57	sheen	sheen	10.00	3343.43	
MW-1	04/19/18	3389.00	58.23	ND	45.60	ND	NA	10.00	3343.40	
MW-1	04/25/18	3389.00	58.23	ND	45.58	ND	NA	10.00	3343.42	
MW-1	05/02/18	3389.00	58.23	ND	45.45	ND	NA	10.00	3343.55	
MW-1	05/10/18	3389.00	58.23	ND	45.50	ND	NA	10.00	3343.50	
MW-1	05/15/18	3389.00	58.23	sheen	45.48	sheen	NA	NA	3343.52	
MW-1	05/23/18	3389.00	58.23	ND	45.50	ND	NA	10.00	3343.50	
MW-1	06/06/18	3389.00	50.32	ND	45.48	ND	NA	NA	3343.52	Sampled
MW-1	06/13/18	3389.00	50.32	sheen	45.51	sheen	NA	10.00	3343.49	
MW-1	06/20/18	3389.00	50.32	ND	46.66	ND	NA	10.00	3342.34	
MW-1	06/28/18	3389.00	50.32	ND	45.48	ND	NA	10.00	3343.52	
MW-1	07/05/18	3389.00	50.32	ND	45.54	ND	NA	10.00	3343.46	
MW-1	07/12/18	3389.00	50.32	ND	45.56	ND	NA	NA	3343.44	
MW-1	07/20/18	3389.00	50.32	sheen	45.55	sheen	sheen	10.00	3343.45	
MW-1	07/26/18	3389.00	50.32	sheen	45.60	sheen	sheen	10.00	3343.40	
MW-1	08/01/18	3389.00	50.32	ND	45.53	ND	NA	10.00	3343.47	

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND PSH RECOVERY DATA
2018-2022
PLAINS MARKETING, L.P.
D.S. HUGH SITE
LEA COUNTY, NEW MEXICO

	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
MW-1	08/08/18	3389.00	50.32	ND	45.47	ND	NA	10.00	3343.53	
MW-1	08/14/18	3389.00	50.32	ND	45.62	ND	NA	10.00	3343.38	
MW-1	08/21/18	3389.00	58.23	sheen	45.45	sheen	sheen	10.00	3343.55	
MW-1	08/30/18	3389.00	58.23	sheen	45.41	sheen	sheen	10.00	3343.59	
MW-1	09/12/18	3389.00	58.23	sheen	45.76	sheen	NA	10.00	3343.24	
MW-1	09/18/18	3389.00	58.23	ND	45.68	ND	NA	10.00	3343.32	
MW-1	09/26/18	3389.00	58.23	ND	45.70	ND	NA	10.00	3343.30	
MW-1	10/04/18	3389.00	58.23	sheen	45.75	sheen	NA	10.00	3343.25	
MW-1	10/11/18	3389.00	58.23	sheen	45.77	sheen	NA	10.00	3343.23	
MW-1	10/17/18	3389.00	58.23	sheen	45.55	sheen	NA	10.00	3343.45	
MW-1	10/24/18	3389.00	58.23	ND	45.66	ND	NA	10.00	3343.34	
MW-1	11/01/18	3389.00	58.23	ND	45.68	ND	NA	10.00	3343.32	
MW-1	11/07/18	3389.00	50.32	ND	45.72	ND	NA	10.00	3343.28	Sampled
MW-1	11/13/18	3389.00	50.32	sheen	45.76	sheen	NA	10.00	3343.24	
MW-1	11/21/18	3389.00	50.32	45.67	45.68	0.01	NA	10.00	3343.33	
MW-1	11/29/18	3389.00	50.32	45.59	45.60	0.01	sheen	10.00	3343.41	
MW-1	12/07/18	3389.00	50.32	45.61	45.62	0.01	NA	10.00	3343.39	
MW-1	12/13/18	3389.00	50.32	45.62	45.63	0.01	NA	10.00	3343.38	
MW-1	12/19/18	3389.00	50.32	sheen	45.65	sheen	sheen	10.00	3343.35	
MW-1	01/09/19	3389.00	50.32	45.70	45.72	0.02	sheen	10.00	3343.30	
MW-1	01/18/19	3389.00	50.32	45.45	45.46	0.01	sheen	10.00	3343.55	
MW-1	01/23/19	3389.00	50.32	ND	45.45	ND	sheen	10.00	3343.55	
MW-1	01/30/19	3389.00	50.32	sheen	45.63	sheen	sheen	10.00	3343.37	
MW-1	02/06/19	3389.00	50.32	sheen	45.68	sheen	sheen	10.00	3343.32	
MW-1	02/22/19	3389.00	50.32	ND	45.40	ND	NA	10.00	3343.60	
MW-1	02/14/19	3389.00	50.32	45.42	45.44	0.02	sheen	10.00	3343.58	
MW-1	02/28/19	3389.00	50.32	sheen	45.56	sheen	sheen	10.00	3343.44	
MW-1	03/06/19	3389.00	50.32	sheen	45.48	sheen	sheen	10.00	3343.52	
MW-1	03/12/19	3389.00	50.32	45.50	45.51	0.01	sheen	10.00	3343.50	
MW-1	03/22/19	3389.00	50.32	sheen	45.52	sheen	sheen	10.00	3343.48	

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND PSH RECOVERY DATA
2018-2022
PLAINS MARKETING, L.P.
D.S. HUGH SITE
LEA COUNTY, NEW MEXICO

	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
MW-1	03/28/19	3389.00	50.32	ND	45.44	ND	NA	10.00	3343.56	
MW-1	04/03/19	3389.00	50.32	ND	45.32	ND	NA	10.00	3343.68	
MW-1	04/11/19	3389.00	50.32	sheen	45.30	sheen	NA	10.00	3343.70	
MW-1	04/16/19	3389.00	50.32	sheen	45.32	sheen	NA	10.00	3343.68	
MW-1	04/25/19	3389.00	50.32	sheen	45.35	sheen	sheen	10.00	3343.65	
MW-1	05/01/19	3389.00	50.32	sheen	45.26	sheen	sheen	10.00	3343.74	
MW-1	05/10/19	3389.00	50.32	sheen	45.29	sheen	sheen	10.00	3343.71	
MW-1	05/17/19	3389.00	50.32	sheen	45.30	sheen	sheen	10.00	3343.70	
MW-1	05/24/19	3389.00	50.32	sheen	45.36	sheen	sheen	10.00	3343.64	
MW-1	06/05/19	3389.00	50.32	ND	45.38	ND	NA	10.00	3343.62	
MW-1	06/14/19	3389.00	50.32	sheen	45.20	sheen	sheen	10.00	3343.80	
MW-1	06/20/19	3389.00	50.32	sheen	45.40	sheen	sheen	10.00	3343.60	
MW-1	06/26/19	3389.00	50.32	ND	45.25	ND	NA	10.00	3343.75	
MW-1	07/03/19	3389.00	50.32	sheen	45.22	sheen	NA	10.00	3343.78	
MW-1	07/11/19	3389.00	50.32	sheen	45.26	sheen	sheen	10.00	3343.74	
MW-1	07/26/19	3389.00	50.32	sheen	46.30	sheen	NA	10.00	3342.70	
MW-1	08/10/19	3389.00	50.32	ND	45.17	ND	NA	10.00	3343.83	
MW-1	08/15/19	3389.00	50.32	ND	45.18	ND	NA	10.00	3343.82	
MW-1	08/27/19	3389.00	50.32	sheen	45.22	sheen	sheen	10.00	3343.78	
MW-1	09/13/19	3389.00	50.32	ND	45.25	ND	NA	10.00	3343.75	
MW-1	09/20/19	3389.00	50.32	ND	45.15	ND	NA	NA	3343.85	
MW-1	10/09/19	3389.00	50.32	sheen	45.12	sheen	NA	10.00	3343.88	
MW-1	10/17/19	3389.00	50.32	ND	45.08	sheen	NA	NA	3343.92	
MW-1	11/01/19	3389.00	50.32	ND	45.09	ND	NA	10.00	3343.91	
MW-1	11/08/19	3389.00	50.32	ND	45.09	sheen	NA	NA	3343.91	
MW-1	11/15/19	3389.00	50.32	45.07	45.10	0.03	sheen	10.00	3343.93	
MW-1	11/19/19	3389.00	50.32	sheen	45.09	sheen	NA	NA	3343.91	
MW-1	11/26/19	3389.00	50.32	45.01	45.04	0.03	sheen	10.00	3343.99	
MW-1	12/03/19	3389.00	50.32	45.05	45.07	0.02	sheen	10.00	3343.95	
MW-1	12/13/19	3389.00	50.32	45.00	45.04	0.04	sheen	10.00	3343.99	

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND PSH RECOVERY DATA
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PLAINS MARKETING, L.P.
D.S. HUGH SITE
LEA COUNTY, NEW MEXICO

	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
MW-1	12/20/19	3389.00	50.32	45.00	45.07	0.07	sheen	10.00	3343.99	
MW-1	12/27/19	3389.00	50.32	ND	45.02	ND	sheen	10.00	3343.98	
MW-1	01/03/20	3389.00	50.32	45.05	45.08	0.03	sheen	10.00	3343.95	
MW-1	01/09/20	3389.00	50.32	45.01	45.03	0.02	sheen	10.00	3343.99	
MW-1	01/15/20	3389.00	50.32	45.00	45.02	0.02	sheen	10.00	3344.00	
MW-1	01/30/20	3389.00	50.32	sheen	45.05	sheen	NA	NA	3343.95	
MW-1	02/12/20	3389.00	50.32	44.97	44.98	0.01	NA	10.00	3344.03	
MW-1	02/20/20	3389.00	50.32	45.04	45.06	0.02	sheen	10.00	3343.96	
MW-1	02/27/20	3389.00	50.32	45.00	45.03	0.03	sheen	10.00	3344.00	
MW-1	03/04/20	3389.00	50.32	45.02	45.04	0.02	sheen	10.00	3343.98	
MW-1	03/12/20	3389.00	50.32	44.95	44.97	0.02	sheen	10.00	3344.05	
MW-1	03/17/20	3389.00	50.32	sheen	44.99	sheen	NA	NA	3344.01	
MW-1	03/23/20	3389.00	50.32	sheen	44.97	sheen	NA	10.00	3344.03	
MW-1	05/07/20	3389.00	50.32	sheen	44.79	sheen	NA	NA	3344.21	
MW-1	05/29/20	3389.00	50.32	44.78	44.82	0.04	0.25	9.75	3344.21	
MW-1	06/12/20	3389.00	50.32	44.70	44.79	0.09	0.25	9.75	3344.29	
MW-1	06/26/20	3389.00	50.32	sheen	44.89	sheen	sheen	10.00	3344.11	
MW-1	07/21/20	3389.00	50.32	44.88	44.90	0.02	sheen	10.00	3344.12	
MW-1	08/06/20	3389.00	50.32	sheen	45.02	sheen	sheen	10.00	3343.98	
MW-1	09/18/20	3389.00	50.32	45.02	45.22	0.20	0.25	9.75	3343.95	
MW-1	09/30/20	3389.00	50.32	45.05	45.08	0.03	sheen	10.00	3343.95	
MW-1	10/09/20	3389.00	50.32	sheen	45.15	sheen	sheen	10.00	3343.85	
MW-1	11/13/20	3389.00	50.32	sheen	45.12	sheen	sheen	10.00	3343.88	
MW-1	12/21/20	3389.00	50.32	44.89	44.91	0.02	sheen	10.00	3344.11	
MW-1	01/08/21	3389.00	50.32	44.90	44.93	0.03	sheen	20.00	3344.10	
MW-1	02/04/21	3389.00	50.32	44.96	44.98	0.02	sheen	10.00	3344.04	
MW-1	03/22/21	3389.00	50.32	sheen	44.95	sheen	sheen	10.00	3344.05	
MW-1	03/24/21	3389.00	50.32	sheen	44.98	sheen	sheen	10.00	3344.02	Sampled
MW-1	04/08/21	3389.00	50.32	sheen	44.95	sheen	sheen	15.00	3344.05	
MW-1	05/28/21	3389.00	50.32	ND	45.15	ND	sheen	10.00	3343.85	

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND PSH RECOVERY DATA
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PLAINS MARKETING, L.P.
D.S. HUGH SITE
LEA COUNTY, NEW MEXICO

	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
MW-1	06/29/21	3389.00	50.32	44.90	44.92	0.02	sheen	10.00	3344.10	
MW-1	07/15/21	3389.00	50.32	sheen	44.91	sheen	0.25	9.75	3344.09	
MW-1	08/03/21	3389.00	50.32	44.93	45.00	0.07	0.25	9.75	3344.06	
MW-1	08/27/21	3389.00	50.32	sheen	45.08	sheen	sheen	10.00	3343.92	
MW-1	09/01/21	3389.00	50.32	ND	45.10	ND	sheen	10.00	3343.90	
MW-1	09/24/21	3389.00	50.32	sheen	45.24	sheen	sheen	10.00	3343.76	
MW-1	10/01/21	3389.00	50.32	sheen	45.18	sheen	sheen	10.00	3343.82	
MW-1	11/10/21	3389.00	50.32	sheen	45.28	sheen	sheen	10.00	3343.72	
MW-1	12/22/21	3389.00	50.32	sheen	45.29	sheen	sheen	10.00	3343.71	
MW-1	01/06/22	3389.00	50.32	ND	45.27	ND	sheen	10.00	3343.73	
MW-1	01/13/22	3389.00	50.32	ND	45.20	ND	sheen	10.00	3343.80	
MW-1	02/17/22	3389.00	50.32	ND	45.22	ND	sheen	10.00	3343.78	
MW-1	03/03/22	3389.00	50.32	ND	45.18	ND	sheen	10.00	3343.82	
MW-1	03/16/22	3389.00	50.32	ND	45.20	ND	sheen	10.00	3343.80	
MW-1	04/01/22	3389.00	50.32	ND	45.18	ND	sheen	10.00	3343.82	
MW-1	04/08/22	3389.00	50.32	ND	45.23	ND	sheen	10.00	3343.77	
MW-1	04/20/22	3389.00	50.32	sheen	45.29	sheen	sheen	10.00	3343.71	
MW-1	05/04/22	3389.00	50.32	ND	45.22	ND	sheen	10.00	3343.78	
MW-1	06/01/22	3389.00	50.32	ND	45.30	ND	sheen	10.00	3343.70	
MW-1	07/28/22	3389.00	50.32	ND	45.49	ND	sheen	10.00	3343.51	
MW-1	08/31/22	3389.00	50.32	ND	45.62	ND	sheen	10.00	3343.38	Sampled
MW-1	10/05/22	3389.00	50.32	ND	45.72	ND	sheen	10.00	3343.28	
MW-1	11/15/22	3389.00	50.32	ND	45.82	ND	sheen	10.00	3343.18	
MW-1	12/15/22	3389.00	50.32	ND	45.45	ND	sheen	10.00	3343.55	
MW-2	03/08/18	3388.38	59.31	ND	45.55	ND	NA	NA	3342.83	Sampled
MW-2	06/07/18	3388.38	59.31	ND	45.52	ND	NA	NA	3342.86	Sampled
MW-2	09/12/18	3388.38	59.31	ND	45.76	ND	NA	NA	3342.62	Sampled
MW-2	11/29/18	3388.38	59.31	ND	45.62	ND	NA	NA	3342.76	Sampled
MW-2	02/14/19	3388.38	59.31	ND	45.44	ND	NA	NA	3342.94	Sampled

TABLE 2
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	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
MW-2	05/10/19	3388.38	59.31	ND	45.32	ND	NA	NA	3343.06	Sampled
MW-2	08/27/19	3388.38	59.31	ND	45.24	ND	NA	NA	3343.14	Sampled
MW-2	11/19/19	3388.38	59.31	ND	45.08	ND	NA	NA	3343.30	Sampled
MW-2	03/17/20	3388.38	59.31	ND	45.00	ND	NA	NA	3343.38	Sampled
MW-2	06/26/20	3388.38	59.31	ND	44.91	ND	NA	NA	3343.47	Sampled
MW-2	09/18/20	3388.38	59.31	ND	45.10	ND	NA	NA	3343.28	Sampled
MW-2	12/21/20	3388.38	59.31	ND	44.98	ND	NA	NA	3343.40	Sampled
MW-2	03/24/21	3388.38	59.31	ND	45.01	ND	NA	NA	3343.37	Sampled
MW-2	06/29/21	3388.38	59.31	ND	44.96	ND	NA	NA	3343.42	Sampled
MW-2	08/27/21	3388.38	59.31	ND	45.15	ND	NA	NA	3343.23	Sampled
MW-2	12/02/21	3388.38	59.31	ND	45.25	ND	NA	NA	3343.13	Sampled
MW-2	03/16/22	3388.38	59.31	ND	45.25	ND	NA	NA	3343.13	Sampled
MW-2	06/01/22	3388.38	59.31	ND	45.31	ND	NA	NA	3343.07	Sampled
MW-2	08/31/22	3388.38	59.31	ND	45.68	ND	NA	NA	3342.70	Sampled
MW-2	11/15/22	3388.38	59.31	ND	45.28	ND	NA	NA	3343.10	Sampled
MW-3	03/08/18	3388.52	59.68	ND	45.93	ND	NA	NA	3342.59	Sampled
MW-3	06/06/18	3388.52	59.68	ND	45.87	ND	NA	NA	3342.65	Sampled
MW-3	09/12/18	3388.52	59.68	ND	46.11	ND	NA	NA	3342.41	Sampled
MW-3	06/06/18	3388.52	59.68	ND	45.96	ND	NA	NA	3342.56	Sampled
MW-3	02/14/19	3388.52	59.68	ND	45.79	ND	NA	NA	3342.73	Sampled
MW-3	05/10/19	3388.52	59.68	ND	45.67	ND	NA	NA	3342.85	Sampled
MW-3	08/27/19	3388.52	59.68	ND	45.58	ND	NA	NA	3342.94	Sampled
MW-3	11/19/19	3388.52	59.68	ND	45.44	ND	NA	NA	3343.08	Sampled
MW-3	03/17/20	3388.52	59.68	ND	45.37	ND	NA	NA	3343.15	Sampled
MW-3	06/26/20	3388.52	59.68	ND	45.27	ND	NA	NA	3343.25	Sampled
MW-3	09/18/20	3388.52	59.68	ND	45.46	ND	NA	NA	3343.06	Sampled
MW-3	12/21/20	3388.52	59.68	ND	45.32	ND	NA	NA	3343.20	Sampled
MW-3	03/24/21	3388.52	59.68	ND	45.34	ND	NA	NA	3343.18	Sampled
MW-3	06/29/21	3388.52	59.68	ND	45.31	ND	NA	NA	3343.21	Sampled

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	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
MW-3	08/27/21	3388.52	59.68	ND	45.51	ND	NA	NA	3343.01	Sampled
MW-3	12/02/21	3388.52	59.68	ND	45.62	ND	NA	NA	3342.90	Sampled
MW-3	03/16/22	3388.52	59.68	ND	45.62	ND	NA	NA	3342.90	Sampled
MW-3	06/01/22	3388.52	59.68	ND	45.66	ND	NA	NA	3342.86	Sampled
MW-3	08/31/22	3388.52	59.68	ND	46.04	ND	NA	NA	3342.48	Sampled
MW-3	11/15/22	3388.52	59.68	ND	46.21	ND	NA	NA	3342.31	Sampled
MW-4	03/08/18	3388.92	58.97	ND	46.39	ND	NA	NA	3342.53	Sampled
MW-4	06/07/18	3388.92	58.97	ND	46.65	ND	NA	NA	3342.27	Sampled
MW-4	09/12/18	3388.92	58.97	ND	46.85	ND	NA	NA	3342.07	Sampled
MW-4	11/29/18	3388.92	58.97	ND	46.72	ND	NA	NA	3342.20	Sampled
MW-4	02/14/19	3388.92	58.97	ND	46.58	ND	NA	NA	3342.34	Sampled
MW-4	05/10/19	3388.92	58.97	ND	46.44	ND	NA	NA	3342.48	Sampled
MW-4	08/27/19	3388.92	58.97	ND	46.36	ND	NA	NA	3342.56	Sampled
MW-4	11/19/19	3388.92	58.97	ND	46.23	ND	NA	NA	3342.69	Sampled
MW-4	03/17/20	3388.92	58.97	ND	46.13	ND	NA	NA	3342.79	Sampled
MW-4	06/26/20	3388.92	58.97	ND	46.05	ND	NA	NA	3342.87	Sampled
MW-4	09/18/20	3388.92	58.97	ND	46.22	ND	NA	NA	3342.70	Sampled
MW-4	12/21/20	3388.92	58.97	ND	46.10	ND	NA	NA	3342.82	Sampled
MW-4	03/24/21	3388.92	58.97	ND	46.11	ND	NA	NA	3342.81	Sampled
MW-4	06/29/21	3388.92	58.97	ND	46.08	ND	NA	NA	3342.84	Sampled
MW-4	08/27/21	3388.92	58.97	ND	46.25	ND	NA	NA	3342.67	Sampled
MW-4	12/02/21	3388.92	58.97	ND	46.36	ND	NA	NA	3342.56	Sampled
MW-4	03/16/22	3388.92	58.97	ND	46.35	ND	NA	NA	3342.57	Sampled
MW-4	06/01/22	3388.92	58.97	ND	46.42	ND	NA	NA	3342.50	Sampled
MW-4	08/31/22	3388.92	58.97	ND	46.76	ND	NA	NA	3342.16	Sampled
MW-4	11/15/22	3388.92	58.97	ND	47.15	ND	NA	NA	3341.77	Sampled
MW-5	03/08/18	3389.40	59.18	ND	47.11	ND	NA	NA	3342.29	Sampled
MW-5	06/07/18	3389.40	59.18	ND	47.06	ND	NA	NA	3342.34	Sampled
MW-5	09/12/18	3389.40	59.18	ND	47.27	ND	NA	NA	3342.13	Sampled

TABLE 2
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	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
MW-5	11/29/18	3389.40	59.18	ND	47.13	ND	NA	NA	3342.27	Sampled
MW-5	02/14/19	3389.40	59.18	ND	46.99	ND	NA	NA	3342.41	Sampled
MW-5	05/10/19	3389.40	59.18	ND	46.84	ND	NA	NA	3342.56	Sampled
MW-5	08/27/19	3389.40	59.18	ND	46.78	ND	NA	NA	3342.62	Sampled
MW-5	11/19/19	3389.40	59.18	ND	46.63	ND	NA	NA	3342.77	Sampled
MW-5	03/17/20	3389.40	59.18	ND	46.53	ND	NA	NA	3342.87	Sampled
MW-5	06/26/20	3389.40	59.18	ND	46.46	ND	NA	NA	3342.94	Sampled
MW-5	09/18/20	3389.40	59.18	ND	46.63	ND	NA	NA	3342.77	Sampled
MW-5	12/21/20	3389.40	59.18	ND	46.48	ND	NA	NA	3342.92	Sampled
MW-5	03/24/21	3389.40	59.18	ND	46.51	ND	NA	NA	3342.89	Sampled
MW-5	06/29/21	3389.40	59.18	ND	46.48	ND	NA	NA	3342.92	Sampled
MW-5	08/27/21	3389.40	59.18	ND	46.63	ND	NA	NA	3342.77	Sampled
MW-5	12/02/21	3389.40	59.18	ND	46.75	ND	NA	NA	3342.65	Sampled
MW-5	03/16/22	3389.40	59.18	ND	46.76	ND	NA	NA	3342.64	Sampled
MW-5	06/01/22	3389.40	59.18	ND	46.80	ND	NA	NA	3342.60	Sampled
MW-5	08/31/22	3389.40	59.18	ND	47.16	ND	NA	NA	3342.24	Sampled
MW-5	11/15/22	3389.40	59.18	ND	47.35	ND	NA	NA	3342.05	Sampled
MW-6	03/08/18	3389.72	57.76	ND	47.78	ND	NA	NA	3341.94	Sampled
MW-6	06/06/18	3389.72	57.76	ND	47.73	ND	NA	NA	3341.99	Sampled
MW-6	09/12/18	3389.72	57.76	ND	47.92	ND	NA	NA	3341.80	Sampled
MW-6	11/29/18	3389.72	57.76	ND	47.79	ND	NA	NA	3341.93	Sampled
MW-6	02/14/19	3389.72	57.76	ND	47.64	ND	NA	NA	3342.08	Sampled
MW-6	05/10/19	3389.72	57.76	ND	47.73	ND	NA	NA	3341.99	Sampled
MW-6	08/27/19	3389.72	57.76	ND	47.51	ND	NA	NA	3342.21	Sampled
MW-6	11/19/19	3389.72	57.76	ND	47.29	ND	NA	NA	3342.43	Sampled
MW-6	03/17/20	3389.72	57.76	ND	47.19	ND	NA	NA	3342.53	Sampled
MW-6	06/26/20	3389.72	57.76	ND	47.11	ND	NA	NA	3342.61	Sampled
MW-6	09/18/20	3389.72	57.76	ND	47.27	ND	NA	NA	3342.45	Sampled
MW-6	12/21/20	3389.72	57.76	ND	47.12	ND	NA	NA	3342.60	Sampled

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	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
MW-6	03/24/21	3389.72	57.76	ND	47.16	ND	NA	NA	3342.56	Sampled
MW-6	06/29/21	3389.72	57.76	ND	47.12	ND	NA	NA	3342.60	Sampled
MW-6	08/27/21	3389.72	57.76	ND	47.28	ND	NA	NA	3342.44	Sampled
MW-6	12/02/21	3389.72	57.76	ND	47.39	ND	NA	NA	3342.33	Sampled
MW-6	03/16/22	3389.72	57.76	ND	47.40	ND	NA	NA	3342.32	Sampled
MW-6	06/01/22	3389.72	57.76	ND	47.45	ND	NA	NA	3342.27	Sampled
MW-6	08/31/22	3389.72	57.76	ND	47.79	ND	NA	NA	3341.93	Sampled
MW-6	11/15/22	3389.72	57.76	ND	47.31	ND	NA	NA	3342.41	Sampled
MW-7	03/08/18	3389.28	55.34	ND	47.34	ND	NA	NA	3341.94	Sampled
MW-7	06/06/18	3389.28	55.34	ND	47.28	ND	NA	NA	3342.00	Sampled
MW-7	09/12/18	3389.28	55.34	ND	47.50	ND	NA	NA	3341.78	Sampled
MW-7	11/29/18	3389.28	55.34	ND	47.33	ND	NA	NA	3341.95	Sampled
MW-7	02/14/19	3389.28	55.34	ND	47.19	ND	NA	NA	3342.09	Sampled
MW-7	05/10/19	3389.28	55.34	ND	47.28	ND	NA	NA	3342.00	Sampled
MW-7	08/27/19	3389.28	55.34	ND	47.07	ND	NA	NA	3342.21	Sampled
MW-7	11/19/19	3389.28	55.34	ND	46.85	ND	NA	NA	3342.43	Sampled
MW-7	03/17/20	3389.28	55.34	ND	46.75	ND	NA	NA	3342.53	Sampled
MW-7	06/26/20	3389.28	55.34	ND	46.67	ND	NA	NA	3342.61	Sampled
MW-7	09/18/20	3389.28	55.34	ND	46.85	ND	NA	NA	3342.43	Sampled
MW-7	12/21/20	3389.28	55.34	ND	46.71	ND	NA	NA	3342.57	Sampled
MW-7	03/24/201	3389.28	55.34	ND	46.73	ND	NA	NA	3342.55	Sampled
MW-7	06/29/21	3389.28	55.34	ND	46.70	ND	NA	NA	3342.58	Sampled
MW-7	08/27/21	3389.28	55.34	ND	46.85	ND	NA	NA	3342.43	Sampled
MW-7	12/02/21	3389.28	55.34	ND	46.97	ND	NA	NA	3342.31	Sampled
MW-7	03/16/22	3389.28	55.34	ND	46.96	ND	NA	NA	3342.32	Sampled
MW-7	06/01/22	3389.28	55.34	ND	47.00	ND	NA	NA	3342.28	Sampled
MW-7	08/31/22	3389.28	55.34	ND	47.35	ND	NA	NA	3341.93	Sampled
MW-7	11/15/22	3389.28	55.34	ND	46.90	ND	NA	NA	3342.38	Sampled
RW-1	01/04/18	3389.34	64.60	ND	47.03	ND	NA	10.00	3342.31	
RW-1	01/10/18	3389.34	64.60	ND	46.95	ND	NA	NA	3342.39	

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HISTORICAL GROUNDWATER ELEVATION AND PSH RECOVERY DATA
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	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
RW-1	01/17/18	3389.34	64.60	ND	46.97	ND	NA	NA	3342.37	
RW-1	01/26/18	3389.34	64.60	ND	46.86	ND	NA	NA	3342.48	
RW-1	02/01/18	3389.34	64.60	ND	46.90	ND	NA	NA	3342.44	
RW-1	02/08/18	3389.34	64.60	ND	46.87	ND	NA	10.00	3342.47	
RW-1	02/14/18	3389.34	64.60	ND	46.83	ND	NA	NA	3342.51	
RW-1	02/21/18	3389.34	64.60	ND	46.82	ND	NA	10.00	3342.52	
RW-1	02/28/18	3389.34	64.60	ND	46.80	ND	NA	NA	3342.54	
RW-1	03/08/18	3389.34	64.60	sheen	46.90	sheen	NA	NA	3342.44	Sampled
RW-1	03/15/18	3389.34	64.60	ND	46.88	ND	NA	10.00	3342.46	
RW-1	03/22/18	3389.34	64.60	ND	46.82	ND	NA	10.00	3342.52	
RW-1	03/28/18	3389.34	64.60	ND	46.85	ND	NA	10.00	3342.49	
RW-1	04/03/18	3389.34	64.60	sheen	46.86	sheen	NA	10.00	3342.48	
RW-1	04/10/18	3389.34	64.60	ND	46.90	ND	NA	10.00	3342.44	
RW-1	04/19/18	3389.34	64.60	ND	46.92	ND	NA	10.00	3342.42	
RW-1	04/25/18	3389.34	64.60	ND	46.92	ND	NA	10.00	3342.42	
RW-1	05/02/18	3389.34	64.60	ND	46.80	ND	sheen	10.00	3342.54	
RW-1	05/10/18	3389.34	64.60	sheen	46.86	sheen	NA	10.00	3342.48	
RW-1	05/15/18	3389.34	64.60	sheen	46.82	sheen	NA	NA	3342.52	
RW-1	05/23/18	3389.34	64.60	sheen	46.80	sheen	NA	10.00	3342.54	
RW-1	06/07/18	3389.34	64.50	ND	46.81	ND	NA	NA	3342.53	Sampled
RW-1	06/13/18	3389.34	64.50	ND	46.88	ND	NA	10.00	3342.46	
RW-1	06/20/18	3389.34	64.50	ND	46.94	ND	NA	10.00	3342.40	
RW-1	06/28/18	3389.34	64.50	ND	46.84	ND	NA	10.00	3342.50	
RW-1	07/05/18	3389.34	64.50	ND	46.88	ND	NA	10.00	3342.46	
RW-1	07/12/18	3389.34	64.50	ND	46.88	ND	NA	NA	3342.46	
RW-1	07/20/18	3389.34	64.50	ND	46.70	ND	NA	10.00	3342.64	
RW-1	07/26/18	3389.34	64.50	ND	46.96	ND	NA	10.00	3342.38	
RW-1	08/01/18	3389.34	64.50	ND	46.88	ND	NA	10.00	3342.46	
RW-1	08/08/18	3389.34	64.50	ND	46.82	ND	NA	10.00	3342.52	
RW-1	08/14/18	3389.34	64.50	ND	46.97	ND	NA	10.00	3342.37	

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	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
RW-1	08/21/18	3389.34	64.60	ND	46.76	ND	NA	10.00	3342.58	
RW-1	08/30/18	3389.34	64.60	ND	46.79	ND	NA	10.00	3342.55	
RW-1	09/12/18	3389.34	64.60	ND	47.06	ND	NA	10.00	3342.28	
RW-1	09/18/18	3389.34	64.60	ND	47.03	ND	NA	10.00	3342.31	
RW-1	09/26/18	3389.34	64.60	ND	47.00	ND	NA	10.00	3342.34	
RW-1	10/04/18	3389.34	64.60	ND	47.06	ND	NA	10.00	3342.28	
RW-1	10/11/18	3389.34	64.60	ND	47.10	ND	NA	NA	3342.24	
RW-1	10/17/18	3389.34	64.60	ND	46.91	ND	NA	10.00	3342.43	
RW-1	10/24/18	3389.34	64.50	ND	47.01	ND	NA	NA	3342.33	Sampled
RW-1	11/01/18	3389.34	64.50	ND	46.50	ND	NA	10.00	3342.84	
RW-1	11/07/18	3389.34	64.50	ND	46.54	ND	NA	10.00	3342.80	
RW-1	11/13/18	3389.34	64.50	ND	46.58	ND	NA	10.00	3342.76	
RW-1	11/21/18	3389.34	64.50	ND	46.76	ND	NA	NA	3342.58	
RW-1	11/29/18	3389.34	64.50	sheen	46.92	sheen	NA	10.00	3342.42	
RW-1	12/07/18	3389.34	64.50	ND	46.95	ND	NA	10.00	3342.39	
RW-1	12/13/18	3389.34	64.50	ND	46.92	ND	NA	10.00	3342.42	
RW-1	12/19/18	3389.34	64.50	ND	46.90	ND	NA	10.00	3342.44	
RW-1	01/09/19	3389.34	64.50	ND	46.91	ND	NA	10.00	3342.43	
RW-1	01/18/19	3389.34	64.50	ND	46.80	ND	NA	10.00	3342.54	
RW-1	01/23/19	3389.34	64.50	ND	46.82	ND	NA	10.00	3342.52	
RW-1	01/30/19	3389.34	64.50	ND	46.84	ND	NA	10.00	3342.50	
RW-1	02/06/19	3389.34	64.50	ND	46.86	ND	NA	10.00	3342.48	
RW-1	02/14/19	3389.34	64.50	ND	46.74	ND	NA	10.00	3342.60	
RW-1	02/28/19	3389.34	64.50	46.80	46.81	0.01	NA	10.00	3342.54	
RW-1	03/06/19	3389.34	64.50	ND	46.71	ND	NA	10.00	3342.63	
RW-1	03/12/19	3389.34	64.50	sheen	46.71	sheen	NA	10.00	3342.63	
RW-1	03/22/19	3389.34	64.50	sheen	46.70	sheen	sheen	10.00	3342.64	
RW-1	03/28/19	3389.34	64.50	sheen	46.70	sheen	NA	10.00	3342.64	
RW-1	04/03/19	3389.34	64.50	ND	46.67	ND	NA	10.00	3342.67	
RW-1	04/11/19	3389.34	64.50	ND	46.65	ND	NA	10.00	3342.69	

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							PSH	H_20		
RW-1	04/16/19	3389.34	64.50	ND	46.69	ND	NA	10.00	3342.65	
RW-1	04/25/19	3389.34	64.50	ND	46.71	ND	NA	10.00	3342.63	
RW-1	05/01/19	3389.34	64.50	ND	46.59	ND	NA	10.00	3342.75	
RW-1	05/10/19	3389.34	64.50	ND	46.62	ND	NA	10.00	3342.72	
RW-1	05/17/19	3389.34	64.50	ND	46.62	ND	NA	10.00	3342.72	
RW-1	05/24/19	3389.34	64.50	ND	46.64	ND	NA	10.00	3342.70	
RW-1	06/05/19	3389.34	64.50	ND	46.65	ND	NA	10.00	3342.69	
RW-1	06/14/19	3389.34	64.50	ND	46.75	ND	NA	10.00	3342.59	
RW-1	06/20/19	3389.34	64.50	ND	46.65	ND	NA	10.00	3342.69	
RW-1	06/26/19	3389.34	64.50	ND	46.62	ND	NA	10.00	3342.72	
RW-1	07/03/19	3389.34	64.50	ND	46.54	ND	NA	10.00	3342.80	
RW-1	07/11/19	3389.34	64.50	ND	46.60	ND	NA	10.00	3342.74	
RW-1	07/26/19	3389.34	64.50	ND	46.53	ND	NA	10.00	3342.81	
RW-1	08/10/19	3389.34	64.50	sheen	46.55	sheen	sheen	10.00	3342.79	
RW-1	08/15/19	3389.34	64.50	sheen	46.56	sheen	sheen	10.00	3342.78	
RW-1	08/27/19	3389.34	64.50	sheen	46.56	sheen	NA	10.00	3342.78	
RW-1	09/13/19	3389.34	64.50	ND	46.24	ND	NA	10.00	3343.10	
RW-1	09/20/19	3389.34	64.50	ND	46.52	ND	NA	NA	3342.82	
RW-1	10/09/19	3389.34	64.50	ND	46.48	ND	NA	10.00	3342.86	
RW-1	10/17/19	3389.34	64.50	ND	46.46	ND	NA	NA	3342.88	
RW-1	11/01/19	3389.34	64.50	ND	46.46	ND	NA	NA	3342.88	
RW-1	11/08/19	3389.34	64.50	ND	46.46	ND	NA	NA	3342.88	
RW-1	11/15/19	3389.34	64.50	46.45	46.48	0.03	sheen	10.00	3342.89	
RW-1	11/19/19	3389.34	64.50	ND	46.44	ND	NA	NA	3342.90	
RW-1	11/26/19	3389.34	64.50	ND	46.29	ND	NA	NA	3343.05	
RW-1	12/03/19	3389.34	64.50	46.40	46.41	0.01	sheen	10.00	3342.94	
RW-1	12/13/19	3389.34	64.50	46.38	46.40	0.02	sheen	10.00	3342.96	
RW-1	12/20/19	3389.34	64.50	ND	46.42	ND	NA	NA	3342.92	
RW-1	12/27/19	3389.34	64.50	ND	46.40	ND	NA	NA	3342.94	
RW-1	01/03/20	3389.34	64.50	ND	46.40	ND	NA	NA	3342.94	

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							PSH	H_20		
RW-1	01/09/20	3389.34	64.50	ND	46.05	ND	NA	NA	3343.29	
RW-1	01/15/20	3389.34	64.50	ND	46.38	ND	NA	10.00	3342.96	
RW-1	01/30/20	3389.34	64.50	ND	46.39	ND	NA	NA	3342.95	
RW-1	02/12/20	3389.34	64.50	ND	46.34	ND	NA	10.00	3343.00	
RW-1	02/20/20	3389.34	64.50	ND	46.40	ND	NA	10.00	3342.94	
RW-1	02/27/20	3389.34	64.50	ND	46.39	ND	NA	10.00	3342.95	
RW-1	03/04/20	3389.34	64.50	sheen	46.36	sheen	NA	10.00	3342.98	
RW-1	03/12/20	3389.34	64.50	sheen	46.29	sheen	NA	10.00	3343.05	
RW-1	03/17/20	3389.34	64.50	sheen	46.34	sheen	NA	NA	3343.00	
RW-1	03/23/20	3389.34	64.50	sheen	46.35	sheen	NA	10.00	3342.99	
RW-1	05/07/20	3389.34	64.50	ND	46.16	ND	NA	NA	3343.18	
RW-1	05/29/20	3389.34	64.50	ND	46.20	ND	sheen	10.00	3343.14	
RW-1	06/12/20	3389.34	64.50	ND	46.28	ND	sheen	10.00	3343.06	
RW-1	06/26/20	3389.34	64.50	sheen	46.24	sheen	NA	NA	3343.10	
RW-1	07/21/20	3389.34	64.50	ND	46.25	ND	sheen	10.00	3343.09	
RW-1	08/06/20	3389.34	64.50	ND	46.38	ND	NA	NA	3342.96	
RW-1	09/18/20	3389.34	64.50	ND	46.40	ND	NA	NA	3342.94	
RW-1	09/30/20	3389.34	64.50	ND	46.31	ND	NA	10.00	3343.03	
RW-1	10/09/20	3389.34	64.50	ND	46.49	ND	NA	NA	3342.85	
RW-1	11/13/20	3389.34	64.50	sheen	46.46	sheen	NA	NA	3342.88	
RW-1	12/21/20	3389.34	64.50	sheen	46.27	sheen	NA	NA	3343.07	Sampled
RW-1	01/08/21	3389.34	64.50	ND	46.38	ND	NA	NA	3342.96	
RW-1	02/04/21	3389.34	64.50	ND	46.34	ND	NA	10.00	3343.00	
RW-1	03/22/21	3389.34	64.50	sheen	46.30	sheen	NA	NA	3343.04	
RW-1	03/24/21	3389.34	64.50	ND	46.32	ND	NA	NA	3343.02	Sampled
RW-1	04/08/21	3389.34	64.50	ND	46.29	ND	NA	NA	3343.05	
RW-1	05/28/21	3389.34	64.50	ND	46.24	ND	NA	10.00	3343.10	
RW-1	06/29/21	3389.34	64.50	ND	46.28	ND	NA	NA	3343.06	
RW-1	07/15/21	3389.34	64.50	sheen	46.28	sheen	NA	10.00	3343.06	
RW-1	08/03/21	3389.34	64.50	ND	46.35	ND	NA	10.00	3342.99	

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND PSH RECOVERY DATA
2018-2022
PLAINS MARKETING, L.P.
D.S. HUGH SITE
LEA COUNTY, NEW MEXICO

	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
RW-1	08/27/21	3389.34	64.50	ND	46.44	ND	NA	NA	3342.90	
RW-1	09/01/21	3389.34	64.50	ND	46.46	ND	NA	NA	3342.88	
RW-1	09/24/21	3389.34	64.50	ND	46.57	ND	NA	10.00	3342.77	
RW-1	10/01/21	3389.34	64.50	sheen	46.52	sheen	NA	10.00	3342.82	
RW-1	11/10/21	3389.34	64.50	ND	46.62	ND	NA	10.00	3342.72	
RW-1	12/22/21	3389.34	64.50	ND	46.60	ND	NA	10.00	3342.74	
RW-1	01/06/22	3389.34	64.50	ND	46.61	ND	NA	10.00	3342.73	
RW-1	01/13/22	3389.34	64.50	ND	46.55	ND	NA	NA	3342.79	
RW-1	02/17/22	3389.34	64.50	ND	46.57	ND	NA	NA	3342.77	
RW-1	03/03/22	3389.34	64.50	ND	46.54	ND	NA	10.00	3342.80	
RW-1	03/16/22	3389.34	64.50	ND	46.55	ND	NA	10.00	3342.79	
RW-1	04/01/22	3389.34	64.50	ND	46.53	ND	NA	10.00	3342.81	
RW-1	04/08/22	3389.34	64.50	ND	46.57	ND	NA	10.00	3342.77	
RW-1	04/20/22	3389.34	64.50	ND	46.70	ND	NA	10.00	3342.64	
RW-1	05/04/22	3389.34	64.50	ND	46.59	ND	NA	10.00	3342.75	
RW-1	06/01/22	3389.34	64.50	ND	46.65	ND	NA	10.00	3342.69	
RW-1	07/28/22	3389.34	64.50	ND	46.83	ND	NA	10.00	3342.51	
RW-1	08/26/22	3389.34	64.50	ND	46.70	ND	NA	10.00	3342.64	
RW-1	08/31/22	3389.34	64.50	ND	46.96	ND	NA	10.00	3342.38	Sampled
RW-1	10/05/22	3389.34	64.50	ND	47.05	ND	NA	10.00	3342.29	
RW-1	10/05/22	3389.34	64.50	ND	47.05	ND	NA	10.00	3342.29	
RW-1	11/15/22	3389.34	64.50	ND	47.15	ND	NA	10.00	3342.19	
RW-1	12/15/22	3389.34	64.50	ND	46.74	ND	NA	10.00	3342.60	
RW-2	01/04/18	3389.06	68.38	sheen	46.77	sheen	NA	10.00	3342.29	
RW-2	01/10/18	3389.06	68.38	sheen	46.69	sheen	NA	NA	3342.37	
RW-2	01/17/18	3389.06	68.38	sheen	46.67	sheen	NA	NA	3342.39	
RW-2	01/26/18	3389.06	68.38	sheen	46.64	sheen	NA	NA	3342.42	
RW-2	02/01/18	3389.06	68.38	ND	47.01	ND	NA	NA	3342.05	
RW-2	02/08/18	3389.06	68.38	ND	46.87	ND	NA	10.00	3342.19	

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND PSH RECOVERY DATA
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D.S. HUGH SITE
LEA COUNTY, NEW MEXICO

	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
RW-2	02/14/18	3389.06	68.38	ND	46.61	ND	NA	NA	3342.45	
RW-2	02/21/18	3389.06	68.38	ND	46.64	ND	NA	10.00	3342.42	
RW-2	02/28/18	3389.06	68.38	ND	46.55	ND	NA	NA	3342.51	
RW-2	03/08/18	3389.06	68.40	ND	46.65	ND	NA	NA	3342.41	Sampled
RW-2	03/15/18	3389.06	68.40	ND	46.63	ND	NA	10.00	3342.43	
RW-2	03/22/18	3389.06	68.40	ND	46.68	ND	NA	10.00	3342.38	
RW-2	03/28/18	3389.06	68.40	ND	46.61	ND	NA	10.00	3342.45	
RW-2	04/03/18	3389.06	68.40	ND	46.61	ND	NA	10.00	3342.45	
RW-2	04/10/18	3389.06	68.40	sheen	46.65	sheen	Sheen	10.00	3342.41	
RW-2	04/19/18	3389.06	68.40	sheen	46.70	sheen	Sheen	10.00	3342.36	
RW-2	04/25/18	3389.06	68.40	sheen	46.72	sheen	NA	10.00	3342.34	
RW-2	05/02/18	3389.06	68.40	sheen	46.55	sheen	NA	10.00	3342.51	
RW-2	05/10/18	3389.06	68.40	ND	46.55	ND	NA	10.00	3342.51	
RW-2	05/15/18	3389.06	68.40	ND	46.56	ND	NA	NA	3342.50	
RW-2	05/23/18	3389.06	68.40	ND	46.50	ND	NA	NA	3342.56	
RW-2	06/07/18	3389.06	68.40	sheen	46.58	sheen	NA	NA	3342.48	Sampled
RW-2	06/13/18	3389.06	68.40	sheen	46.61	sheen	NA	10.00	3342.45	
RW-2	06/20/18	3389.06	68.40	ND	46.66	ND	NA	10.00	3342.40	
RW-2	06/28/18	3389.06	68.40	ND	46.59	ND	NA	10.00	3342.47	
RW-2	07/05/18	3389.06	68.40	ND	46.65	ND	NA	10.00	3342.41	
RW-2	07/12/18	3389.06	68.40	ND	46.68	ND	NA	NA	3342.38	
RW-2	07/20/18	3389.06	68.40	ND	46.65	ND	NA	20.00	3342.41	
RW-2	07/26/18	3389.06	68.40	ND	46.70	ND	NA	20.00	3342.36	
RW-2	08/01/18	3389.06	68.40	ND	46.62	ND	NA	10.00	3342.44	
RW-2	08/08/18	3389.06	68.40	ND	46.60	ND	NA	10.00	3342.46	
RW-2	08/14/18	3389.06	68.40	ND	46.75	ND	NA	NA	3342.31	
RW-2	08/21/18	3389.06	68.40	ND	46.57	ND	NA	NA	3342.49	
RW-2	08/30/18	3389.06	68.40	ND	46.59	ND	NA	NA	3342.47	Sampled
RW-2	09/12/18	3389.06	68.40	sheen	46.86	sheen	NA	10.00	3342.20	
RW-2	09/18/18	3389.06	68.40	ND	46.81	ND	NA	10.00	3342.25	

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND PSH RECOVERY DATA
2018-2022
PLAINS MARKETING, L.P.
D.S. HUGH SITE
LEA COUNTY, NEW MEXICO

	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
RW-2	09/26/18	3389.06	68.40	ND	46.75	ND	NA	10.00	3342.31	
RW-2	10/04/18	3389.06	68.40	ND	46.81	ND	NA	10.00	3342.25	
RW-2	10/11/18	3389.06	68.40	ND	46.85	ND	NA	NA	3342.21	
RW-2	10/17/18	3389.06	68.40	sheen	46.59	sheen	NA	20.00	3342.47	
RW-2	10/24/18	3389.06	68.40	ND	46.78	ND	NA	20.00	3342.28	
RW-2	11/01/18	3389.06	68.40	ND	46.82	ND	NA	20.00	3342.24	
RW-2	11/07/18	3389.06	68.40	ND	46.85	ND	NA	20.00	3342.21	
RW-2	11/13/18	3389.06	68.40	sheen	46.89	sheen	NA	20.00	3342.17	
RW-2	11/21/18	3389.06	68.40	sheen	46.77	sheen	NA	20.00	3342.29	
RW-2	11/29/18	3389.06	68.40	sheen	46.68	sheen	NA	20.00	3342.38	
RW-2	12/07/18	3389.06	68.40	ND	46.72	ND	NA	20.00	3342.34	
RW-2	12/13/18	3389.06	68.40	ND	46.70	ND	NA	10.00	3342.36	
RW-2	12/19/18	3389.06	68.40	sheen	46.72	sheen	NA	10.00	3342.34	
RW-2	01/09/19	3389.06	68.40	sheen	46.77	sheen	NA	10.00	3342.29	
RW-2	01/18/19	3389.06	68.40	ND	46.54	ND	NA	10.00	3342.52	
RW-2	01/23/19	3389.06	68.40	ND	46.59	ND	NA	10.00	3342.47	
RW-2	01/30/19	3389.06	68.40	sheen	46.69	sheen	NA	10.00	3342.37	
RW-2	02/06/19	3389.06	68.40	sheen	46.70	sheen	NA	10.00	3342.36	
RW-2	02/14/19	3389.06	68.40	46.50	46.51	0.01	NA	10.00	3342.56	
RW-2	02/28/19	3389.06	68.40	sheen	46.60	sheen	NA	10.00	3342.46	
RW-2	03/06/19	3389.06	68.40	sheen	46.74	sheen	NA	10.00	3342.32	
RW-2	03/12/19	3389.06	68.40	sheen	46.72	sheen	NA	10.00	3342.34	
RW-2	03/22/19	3389.06	68.40	ND	46.74	ND	NA	10.00	3342.32	
RW-2	03/28/19	3389.06	68.40	ND	46.41	ND	NA	10.00	3342.65	
RW-2	04/03/19	3389.06	68.40	ND	46.43	ND	NA	10.00	3342.63	
RW-2	04/11/19	3389.06	68.40	ND	46.39	ND	NA	10.00	3342.67	
RW-2	04/16/19	3389.06	68.40	ND	46.40	ND	NA	10.00	3342.66	
RW-2	04/25/19	3389.06	68.40	sheen	46.41	sheen	NA	10.00	3342.65	
RW-2	05/01/19	3389.06	68.40	sheen	46.30	sheen	NA	10.00	3342.76	
RW-2	05/10/19	3389.06	68.40	sheen	46.38	sheen	NA	10.00	3342.68	

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND PSH RECOVERY DATA
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D.S. HUGH SITE
LEA COUNTY, NEW MEXICO

	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
RW-2	05/17/19	3389.06	68.40	sheen	46.33	sheen	NA	10.00	3342.73	
RW-2	05/24/19	3389.06	68.40	sheen	46.43	sheen	NA	10.00	3342.63	
RW-2	06/05/19	3389.06	68.40	ND	46.44	ND	NA	10.00	3342.62	
RW-2	06/14/19	3389.06	68.40	ND	46.30	ND	NA	10.00	3342.76	
RW-2	06/20/19	3389.06	68.40	sheen	46.48	sheen	NA	10.00	3342.58	
RW-2	06/26/19	3389.06	68.40	ND	46.35	ND	NA	10.00	3342.71	
RW-2	07/03/19	3389.06	68.40	ND	46.31	ND	NA	10.00	3342.75	
RW-2	07/11/19	3389.06	68.40	ND	46.34	ND	NA	10.00	3342.72	
RW-2	07/26/19	3389.06	68.40	sheen	46.30	sheen	NA	10.00	3342.76	
RW-2	08/10/19	3389.06	68.40	sheen	46.31	sheen	Sheen	10.00	3342.75	
RW-2	08/15/19	3389.06	68.40	ND	46.32	ND	NA	10.00	3342.74	
RW-2	08/27/19	3389.06	68.40	sheen	46.31	sheen	NA	10.00	3342.75	
RW-2	09/13/19	3389.06	68.40	ND	46.30	ND	NA	NA	3342.76	
RW-2	09/20/19	3389.06	68.40	ND	46.43	ND	NA	NA	3342.63	
RW-2	10/19/19	3389.06	68.40	ND	46.22	ND	NA	10.00	3342.84	
RW-2	10/17/19	3389.06	68.40	ND	46.21	ND	NA	NA	3342.85	
RW-2	11/01/19	3389.06	68.40	ND	46.21	ND	NA	NA	3342.85	
RW-2	11/08/19	3389.06	68.40	ND	46.20	ND	NA	NA	3342.86	
RW-2	11/15/19	3389.06	68.40	ND	46.20	ND	NA	NA	3342.86	
RW-2	11/19/19	3389.06	68.40	sheen	46.18	sheen	NA	NA	3342.88	
RW-2	11/26/19	3389.06	68.40	ND	46.13	ND	NA	NA	3342.93	
RW-2	12/03/19	3389.06	68.40	ND	46.15	ND	NA	NA	3342.91	
RW-2	12/13/19	3389.06	68.40	ND	46.13	ND	NA	NA	3342.93	
RW-2	12/20/19	3389.06	68.40	sheen	46.16	sheen	NA	NA	3342.90	
RW-2	12/27/19	3389.06	68.40	sheen	46.13	sheen	NA	NA	3342.93	
RW-2	01/03/20	3389.06	68.40	ND	46.08	ND	NA	10.00	3342.98	
RW-2	01/09/20	3389.06	68.40	ND	46.11	ND	NA	10.00	3342.95	
RW-2	01/15/20	3389.06	68.40	ND	46.13	ND	NA	NA	3342.93	
RW-2	01/30/20	3389.06	68.40	sheen	46.04	sheen	NA	NA	3343.02	
RW-2	02/12/20	3389.06	68.40	ND	46.10	ND	NA	10.00	3342.96	

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	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
RW-2	02/20/20	3389.06	68.40	sheen	46.13	sheen	Sheen	10.00	3342.93	
RW-2	02/27/20	3389.06	68.40	ND	46.13	ND	NA	NA	3342.93	
RW-2	03/04/20	3389.06	68.40	sheen	46.11	sheen	NA	NA	3342.95	
RW-2	03/12/20	3389.06	68.40	ND	46.07	ND	NA	NA	3342.99	
RW-2	03/17/20	3389.06	68.40	ND	46.02	ND	NA	NA	3343.04	
RW-2	03/23/20	3389.06	68.40	ND	46.00	ND	NA	10.00	3343.06	
RW-2	05/07/20	3389.06	68.40	ND	45.90	ND	NA	NA	3343.16	
RW-2	05/29/20	3389.06	68.40	ND	45.93	ND	NA	10.00	3343.13	
RW-2	06/12/20	3389.06	68.40	ND	45.99	ND	NA	NA	3343.07	
RW-2	06/26/20	3389.06	68.40	ND	46.00	ND	NA	NA	3343.06	
RW-2	07/21/20	3389.06	68.40	ND	46.00	ND	NA	NA	3343.06	
RW-2	08/06/20	3389.06	68.40	ND	46.12	ND	NA	NA	3342.94	
RW-2	09/18/20	3389.06	68.40	ND	46.15	ND	NA	NA	3342.91	
RW-2	09/30/20	3389.06	68.40	sheen	46.17	sheen	sheen	10.00	3342.89	
RW-2	10/09/20	3389.06	68.40	sheen	46.22	sheen	sheen	10.00	3342.84	
RW-2	11/13/20	3389.06	68.40	ND	46.46	ND	NA	10.00	3342.60	
RW-2	12/21/20	3389.06	68.40	sheen	46.02	sheen	sheen	10.00	3343.04	Sampled
RW-2	01/08/21	3389.06	68.40	ND	46.14	ND	NA	20.00	3342.92	
RW-2	02/04/21	3389.06	68.40	sheen	46.08	sheen	sheen	10.00	3342.98	
RW-2	03/22/21	3389.06	68.40	ND	46.06	ND	NA	10.00	3343.00	
RW-2	03/24/21	3389.06	68.40	ND	46.08	ND	NA	10.00	3342.98	Sampled
RW-2	04/08/21	3389.06	68.40	ND	46.04	ND	NA	10.00	3343.02	
RW-2	05/28/21	3389.06	68.40	ND	46.12	ND	NA	10.00	3342.94	
RW-2	06/29/21	3389.06	68.40	ND	46.02	ND	ND	10.00	3343.04	
RW-2	07/15/21	3389.06	68.40	ND	46.05	ND	ND	10.00	3343.01	
RW-2	08/03/21	3389.06	68.40	ND	46.11	ND	ND	10.00	3342.95	
RW-2	08/27/21	3389.06	68.40	sheen	46.20	sheen	sheen	10.00	3342.86	
RW-2	09/01/21	3389.06	68.40	ND	46.21	ND	ND	10.00	3342.85	
RW-2	09/24/21	3389.06	68.40	ND	46.32	ND	ND	10.00	3342.74	
RW-2	10/01/21	3389.06	68.40	ND	46.28	ND	ND	10.00	3342.78	

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	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery (gallons)		Corrected Groundwater Elevation (ft)	Comments
							PSH	H_20		
RW-2	11/10/21	3389.06	68.40	sheen	46.38	sheen	sheen	10.00	3342.68	
RW-2	12/22/21	3389.06	68.40	sheen	46.40	sheen	sheen	10.00	3342.66	
RW-2	01/06/22	3389.06	68.40	ND	46.35	ND	ND	10.00	3342.71	
RW-2	01/13/22	3389.06	68.40	sheen	46.30	sheen	sheen	10.00	3342.76	
RW-2	02/17/22	3389.06	68.40	ND	46.32	ND	ND	10.00	3342.74	
RW-2	03/03/22	3389.06	68.40	ND	46.30	ND	ND	10.00	3342.76	
RW-2	03/16/22	3389.06	68.40	ND	46.31	ND	ND	10.00	3342.75	
RW-2	04/01/22	3389.06	68.40	ND	46.30	ND	ND	10.00	3342.76	
RW-2	04/08/22	3389.06	68.40	ND	46.34	ND	ND	10.00	3342.72	
RW-2	04/20/22	3389.06	68.40	ND	46.44	ND	ND	10.00	3342.62	
RW-2	05/04/22	3389.06	68.40	ND	46.33	ND	ND	10.00	3342.73	
RW-2	06/01/22	3389.06	68.40	sheen	46.42	sheen	sheen	10.00	3342.64	Sampled
RW-2	07/28/22	3389.06	68.40	ND	46.58	ND	ND	10.00	3342.48	
RW-2	08/26/22	3389.06	68.40	46.46	46.47	0.01	ND	10.00	3342.60	
RW-2	08/31/22	3389.06	68.40	ND	46.72	ND	ND	10.00	3342.34	Sampled
RW-2	10/05/22	3389.06	68.40	ND	46.82	ND	ND	10.00	3342.24	
RW-2	11/15/22	3389.06	68.40	ND	46.90	ND	ND	10.00	3342.16	
RW-2	12/15/22	3389.06	68.40	ND	46.50	ND	ND	10.00	3342.56	

NA: Not Applicable
ND: Not Detected
NG: Not Gauged
[a] Possible error in field data entry

TABLE 3
2020 - 2022 GROUNDWATER ANALYTICAL RESULTS
Plains Marketing, L.P.
DS Hugh Site
SRS #2000-10807
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
MW-1	03/19/20	L1201827-01	**0.0178**	<0.001	0.0375	0.0730
MW-1	06/26/20	L1234397-01	**0.0272**	<0.001	0.0400	0.0777
MW-1	09/18/20	NS	NS	NS	NS	NS
MW-1	12/21/20	NS	NS	NS	NS	NS
MW-1	03/24/21	L1331413-01	0.00568	<0.001	0.0282	0.0389
MW-1	06/29/21	L1374009-01	**0.0205**	<0.001	0.0489	0.0332
MW-1	08/27/21	L1396395-01	0.00504	<0.001	0.0186	0.0163
MW-1	12/02/21	NS	NS	NS	NS	NS
MW-1	03/17/22	L1473402-01	0.00966	<0.001	0.0418	0.0366
MW-1	06/01/22	L1501274-01	**0.0166**	<0.000988	0.0489	0.0361
MW-1	09/01/22	L1532430-01	0.00808	<0.000278	0.0418	0.0336
MW-1	11/15/22	L1558959-01	0.00453	<0.000278	0.00832	0.00827
MW-2	03/19/20	L1201827-02	<0.001	<0.001	<0.001	<0.003
MW-2	06/26/20	L1234397-02	<0.001	<0.001	<0.001	<0.003
MW-2	09/18/20	L1264237-01	<0.001	<0.001	<0.001	<0.003
MW-2	12/21/20	L1300778-01	<0.001	<0.001	<0.001	<0.003
MW-2	03/24/21	L1331413-02	<0.001	<0.001	<0.001	<0.003
MW-2	06/30/21	L1374009-02	<0.001	<0.001	<0.001	<0.003
MW-2	08/27/21	L1396395-02	<0.001	<0.001	<0.001	<0.003
MW-2	12/02/21	L1438373-01	<0.001	<0.001	<0.001	<0.003
MW-2	03/17/22	L1473402-02	<0.0000941	<0.000278	<0.000137	<0.000174
MW-2	06/01/22	L1501274-02	<0.000493	<0.000988	<0.000462	<0.00132
MW-2	09/01/22	L1532430-02	<0.0000941	<0.000278	<0.000137	<0.000174
MW-2	11/15/22	NS	NS	NS	NS	NS
MW-3	03/19/20	L1201827-03	<0.001	<0.001	<0.001	<0.003
MW-3	06/26/20	L1234397-03	<0.001	<0.001	<0.001	<0.003
MW-3	09/18/20	L1264237-02	<0.001	<0.001	<0.001	<0.003
MW-3	12/21/20	L1300778-02	<0.001	<0.001	<0.001	<0.003
MW-3	03/24/21	L1331413-03	<0.001	<0.001	<0.001	<0.003
MW-3	06/29/21	L1374009-03	<0.001	<0.001	<0.001	<0.003
MW-3	08/27/21	L1396395-03	<0.001	<0.001	<0.001	<0.003
MW-3	12/02/21	L1438373-02	<0.001	<0.001	<0.001	<0.003
MW-3	03/17/22	L1473402-03	<0.0000941	<0.000278	<0.000137	<0.000174
MW-3	06/01/22	L1501274-03	<0.000493	<0.000988	<0.000462	<0.00132
MW-3	09/01/22	L1532430-03	<0.0000941	<0.000278	<0.000137	<0.000174
MW-3	11/15/22	NS	NS	NS	NS	NS
		.				
MW-4	03/19/20	L1201827-04	0.00639	<0.001	<0.001	<0.003
MW-4	06/26/20	L1234397-04	0.00231	0.00153	0.00501	0.00949
MW-4	09/18/20	L1264237-03	<0.001	<0.001	<0.001	<0.003
MW-4	12/21/20	L1300778-03	<0.001	<0.001	<0.001	<0.003
MW-4	03/24/21	L1331413-04	<0.001	<0.001	<0.001	<0.003
MW-4	06/30/21	L1374009-04	<0.001	<0.001	<0.001	<0.003
MW-4	08/27/21	L1396395-04	<0.001	<0.001	<0.001	<0.003
MW-4	12/02/21	L1438373-03	<0.001	<0.001	<0.001	<0.003
MW-4	03/17/22	L1473402-04	<0.0000941	<0.000278	<0.000137	<0.000174
MW-4	06/01/22	L1501274-04	<0.000493	<0.000988	<0.000462	<0.00132

TABLE 3
2020 - 2022 GROUNDWATER ANALYTICAL RESULTS
Plains Marketing, L.P.
DS Hugh Site
SRS #2000-10807
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
MW-4	09/01/22	L1532430-04	<0.0000941	<0.000278	0.000560 J	0.00227 J
MW-4	11/15/22	L1558959-02	<0.0000941	<0.000278	<0.000137	0.00184 J
MW-5	03/19/20	L1201827-05	<0.001	<0.001	<0.001	<0.003
MW-5	06/26/20	L1234397-05	<0.001	<0.001	<0.001	<0.003
MW-5	09/18/20	L1264237-04	<0.001	<0.001	<0.001	<0.003
MW-5	12/21/20	L1300778-04	<0.001	<0.001	<0.001	<0.003
MW-5	03/24/21	L1331413-05	<0.001	<0.001	<0.001	<0.003
MW-5	06/30/21	L1374009-05	<0.001	<0.001	<0.001	<0.003
MW-5	08/27/21	L1396395-05	<0.001	<0.001	<0.001	<0.003
MW-5	12/02/21	L1438373-04	<0.001	<0.001	<0.001	<0.003
MW-5	03/17/22	L1473402-05	<0.0000941	<0.000278	<0.000137	<0.000174
MW-5	06/01/22	L1501274-05	<0.000493	<0.000988	<0.000462	<0.00132
MW-5	09/01/22	L1532430-05	<0.0000941	<0.000278	<0.000137	<0.000174
MW-5	11/15/22	L1558959-03	<0.0000941	<0.000278	<0.000137	<0.000174
MW-6	03/19/20	L1201827-06	<0.001	<0.001	<0.001	<0.003
MW-6	06/26/20	L1234397-06	<0.001	<0.001	<0.001	<0.003
MW-6	09/18/20	L1264237-05	<0.001	<0.001	<0.001	<0.003
MW-6	12/21/20	L1300778-05	<0.001	<0.001	<0.001	<0.003
MW-6	03/24/21	L1331413-06	<0.001	<0.001	<0.001	<0.003
MW-6	06/29/21	L1374009-06	<0.001	<0.001	<0.001	<0.003
MW-6	08/27/21	L1396395-06	<0.001	<0.001	<0.001	<0.003
MW-6	12/02/21	L1438373-05	<0.001	<0.001	<0.001	<0.003
MW-6	03/17/22	L1473402-06	<0.0000941	<0.000278	<0.000137	<0.000174
MW-6	06/01/22	L1501274-06	<0.000493	<0.000988	<0.000462	<0.00132
MW-6	09/01/22	L1532430-06	<0.0000941	<0.000278	<0.000137	<0.000174
MW-6	11/15/22	NS	NS	NS	NS	NS
MW-7	03/19/20	L1201827-07	<0.001	<0.001	<0.001	<0.003
MW-7	06/26/20	L1234397-07	<0.001	<0.001	<0.001	<0.003
MW-7	09/18/20	L1264237-06	<0.001	<0.001	<0.001	<0.003
MW-7	12/21/20	L1300778-06	<0.001	<0.001	<0.001	<0.003
MW-7	03/24/21	L1331413-07	<0.001	<0.001	<0.001	<0.003
MW-7	06/29/21	L1374009-07	<0.001	<0.001	<0.001	<0.003
MW-7	08/27/21	L1396395-07	<0.001	<0.001	<0.001	<0.003
MW-7	12/02/21	L1438373-06	<0.001	<0.001	<0.001	<0.003
MW-7	03/17/22	L1473402-07	<0.0000941	<0.000278	<0.000137	<0.000174
MW-7	06/01/22	L1501274-07	<0.000493	<0.000988	<0.000462	<0.00132
MW-7	09/01/22	L1532430-07	<0.0000941	<0.000278	<0.000137	<0.000174
MW-7	11/15/22	NS	NS	NS	NS	NS
RW-1	03/19/20	L1201827-08	**0.0351**	<0.001	0.00728	0.0112
RW-1	06/26/20	L1234397-08	0.00120	<0.001	0.00191	0.00338
RW-1	09/18/20	L1264237-07	<0.001	<0.001	<0.001	<0.003
RW-1	12/21/20	L1300778-07	**0.0232**	<0.001	0.00146	0.00843
RW-1	03/24/21	L1331413-08	**0.0147**	0.00619	0.00152	0.018
RW-1	06/30/21	L1374009-08	0.00756	0.00483	0.00240	0.00921
RW-1	08/27/21	L1396395-08	<0.001	<0.001	<0.001	<0.003
RW-1	12/02/21	L1438373-07	0.00290	<0.001	<0.001	0.00561

TABLE 3
2020 - 2022 GROUNDWATER ANALYTICAL RESULTS
Plains Marketing, L.P.
DS Hugh Site
SRS #2000-10807
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
RW-1	03/17/22	L1473402-08	0.000125 J	<0.000278	<0.000137	0.000246 J
RW-1	06/01/22	L1501274-08	0.00474	0.00123 J	<0.000867 J	0.00682
RW-1	09/01/22	L1532430-08	0.00335	0.000943 J	0.00137	0.00978
RW-1	11/15/22	L1558959-04	<0.0000941	<0.000278	<0.000137	<0.000174
RW-2	03/19/20	L1201827-09	0.00311	<0.001	0.00374	0.0171
RW-2	06/26/20	L1234397-09	<0.001	<0.001	<0.001	<0.003
RW-2	09/18/20	L1264237-08	<0.001	<0.001	<0.001	<0.003
RW-2	12/21/20	L1300778-08	<0.001	<0.001	<0.001	0.00471
RW-2	03/24/21	L1331413-09	<0.001	<0.001	0.00117	0.0084
RW-2	06/30/21	L1374009-09	<0.001	<0.001	<0.001	<0.003
RW-2	08/27/21	L1396395-09	**0.0234**	0.00272	0.00171	0.0131
RW-2	12/02/21	L1438373-08	<0.001	<0.001	<0.001	<0.003
RW-2	03/17/22	L1473402-09	0.00145	0.000365 J	0.00133	0.00303
RW-2	06/01/22	L1501274-09	<0.000493	<0.000998	<0.000642	<0.00132
RW-2	09/01/22	L1532430-09	0.000598 J	<0.000278	0.000462 J	0.00103 J
RW-2	11/15/22	L1558959-05	<0.0000941	<0.000278	<0.000137	<0.000174

NMOCD: New Mexico Oil Conservation District
Exceedences of NMOCD Remediation Criteria are shown in **bold**

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PLAINS MARKETING, L.P.
D.S. HUGH SITES
RS #2000-108007
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
MW-1	05/22/08	T22302-1	**0.512**	0.439	0.141	0.323
MW-1	05/19/09	9052214	**0.0105**	0.0143	0.0061	0.0178
MW-1	05/12/10	1005476-01	**0.45**	0.68	0.30	**0.84**
MW-1	05/31/11	1106003-01	**0.40**	0.36	0.30	**0.74**
MW-1	05/22/12	12051129-01	**0.55**	**1.5**	0.6	**1.5**
MW-1	06/10/13	L641101-01	**0.028**	0.10	0.066	0.16
MW-1	06/06/14	L703440-01	0.036	0.19	0.15	0.36
MW-1	06/18/15	L772291-01	0.0039	0.0031 J	0.018	0.059
MW-1	05/20/16	L837134-01	<0.0001	<0.005	<0.001	<0.003
MW-1	05/16/17	L910269-01	0.0254	0.0111	0.0789	0.155
MW-1	03/08/18	L976570-01	**0.0115**	0.00443	0.027	0.0556
MW-1	06/06/18	L1000531-01	**0.0414**	0.0128	0.0861	0.177
MW-1	09/12/18	L1025965-01	**0.0288**	0.00444	0.0696	0.158
MW-1	05/10/19	L1098634-01	**0.0372**	0.00413	0.0597	0.107
MW-1	08/28/19	L1134078-01	**0.0106**	<0.001	0.0139	0.0706
MW-1	11/20/19	L1163668-01	**0.0171**	0.00104	0.0295	0.0898
MW-1	03/19/20	L1201827-01	**0.0178**	<0.001	0.0375	0.0730
MW-1	06/26/20	L1234397-01	**0.0272**	<0.001	0.0400	0.0777
MW-1	03/24/21	L1331413-01	0.00568	<0.001	0.0282	0.0389
MW-1	06/29/21	L1374009-01	**0.0205**	<0.001	0.0489	0.0332
MW-1	08/27/21	L1396395-01	0.00504	<0.001	0.0186	0.0163
MW-1	12/02/21	NS	NS	NS	NS	NS
MW-1	03/17/22	L1473402-01	0.00966	<0.001	0.0418	0.0366
MW-1	06/01/22	L1501274-01	**0.0166**	<0.0050	0.0489	0.0361
MW-1	09/01/22	L1532430-01	0.00808	<0.001	0.0418	0.0336
MW-1	11/15/22	L1558959-01	0.00453	<0.001	0.00832	0.00827
MW-2	12/21/05	T12186-1	<0.002	<0.002	<0.002	<0.006
MW-2	03/28/06	T13038-1	<0.00038	<0.00036	<0.00035	<0.00072
MW-2	06/15/06	T13864-1	<0.00038	<0.00036	<0.00035	<0.00072
MW-2	09/12/06	T14673-1	<0.00035	<0.00020	<0.00033	<0.00036
MW-2	12/06/06	T15625-1	<0.00035	<0.00020	<0.00033	<0.00036
MW-2	03/01/07	T16518-1	<0.00035	<0.00020	<0.00033	<0.00036
MW-2	06/01/07	T17666-1	<0.00021	<0.00023	<0.00035	<0.00055
MW-2	09/07/07	T18804-1	<0.00021	<0.00023	<0.00035	<0.00055
MW-2	11/13/07	T19746-1	<0.0005	<0.0005	<0.0005	<0.001
MW-2	02/27/08	T21042-1	0.00077 J	<0.00023	0.00085 J	0.00068 J
MW-2	05/22/08	T22302-2	0.00029 J	<0.00023	<0.00035	<0.0055
MW-2	08/20/08	T23537-1	<0.0005	<0.0005	<0.0005	<0.001
MW-2	11/19/08	180051	0.00230	<0.00100	0.00180	0.00130
MW-2	02/17/09	187738	<0.001	<0.001	<0.001	<0.001
MW-2	05/19/09	9052214	<0.000133	<0.000281	<0.000535	<0.000960
MW-2	08/26/09	208335	<0.000133	<0.000281	<0.000535	<0.000960
MW-2	11/17/09	215429	<0.000160	<0.000332	<0.000230	<0.000143

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PLAINS MARKETING, L.P.
D.S. HUGH SITES
RS #2000-108007
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
MW-2	02/09/10	222048	<0.000208	<0.000208	<0.000303	<0.000326
MW-2	05/12/10	1005476-02	0.00077 J	<0.00020	0.00039 J	<0.00070
MW-2	08/26/10	1008908-01	<0.00020	<0.00020	<0.00020	<0.00070
MW-2	11/18/10	1011751-01	<0.00020	<0.00020	<0.00020	<0.00070
MW-2	02/24/11	1102759-01	<0.0010	<0.0010	<0.0010	<0.0030
MW-2	05/31/11	1106003-02	<0.0010	<0.0010	<0.0010	<0.0030
MW-2	08/29/11	1108973-01	<0.0010	<0.0010	<0.0010	<0.0030
MW-2	11/28/11	1111900-01	<0.0010	<0.0010	<0.0010	<0.0030
MW-2	02/22/12	1202868-01	<0.0010	<0.0010	<0.0010	<0.0030
MW-2	05/22/12	12051129-02	<0.0010	<0.0010	<0.0010	<0.0030
MW-2	09/11/12	1209470-01	<0.0010	<0.0010	<0.0010	<0.0030
MW-2	11/26/12	1211905-01	<0.0010	<0.0010	<0.0010	<0.0030
MW-2	02/27/13	L622427-01	<0.001	<0.005	<0.001	<0.003
MW-2	06/10/13	L641101-02	<0.001	<0.005	<0.001	<0.003
MW-2	09/11/13	L657122-01	<0.001	<0.005	<0.001	<0.003
MW-2	12/11/13	L673997-01	<0.001	<0.005	<0.001	<0.003
MW-2	03/05/14	L686932-01	<0.001	<0.005	<0.001	<0.003
MW-2	06/06/14	L703440-02	<0.001	<0.005	<0.001	<0.003
MW-2	09/18/14	L722808-01	<0.001	<0.005	<0.001	<0.003
MW-2	11/12/14	L733859-01	<0.001	<0.005	<0.001	<0.003
MW-2	02/24/15	L750324-01	<0.001	<0.005	<0.001	<0.003
MW-2	06/18/15	L772291-02	<0.001	<0.005	<0.001	<0.003
MW-2	08/22/15	L785989-01	<0.001	<0.005	<0.001	<0.003
MW-2	11/19/15	L802533-01	<0.001	<0.005	<0.001	<0.003
MW-2	03/08/16	L822604-01	<0.001	<0.005	<0.001	<0.003
MW-2	05/20/16	L837134-02	<0.001	<0.005	<0.001	<0.003
MW-2	09/21/16	L861614-01	<0.001	<0.005	<0.001	<0.003
MW-2	12/16/16	L879658-01	<0.001	<0.005	<0.001	<0.003
MW-2	03/02/17	L893619-01	<0.001	<0.001	<0.001	<0.003
MW-2	05/16/17	L910269-02	<0.001	<0.001	<0.001	<0.003
MW-2	09/13/17	L936705-01	<0.001	<0.001	<0.001	<0.003
MW-2	11/29/17	L954388-01	<0.001	<0.001	<0.001	<0.003
MW-2	03/08/18	L976570-02	<0.001	<0.001	<0.001	<0.003
MW-2	06/07/18	L1000531-02	<0.001	<0.001	<0.001	<0.003
MW-2	09/12/18	L1025965-02	<0.001	<0.001	<0.001	<0.003
MW-2	11/30/18	L1050022-01	<0.001	<0.001	<0.001	<0.003
MW-2	02/14/19	L1071077-01	<0.001	<0.001	<0.001	<0.003
MW-2	05/10/19	L1098634-02	<0.001	<0.001	<0.001	<0.003
MW-2	08/28/19	L1134078-02	<0.001	<0.001	<0.001	<0.003
MW-2	11/20/19	L1163668-02	<0.001	<0.001	<0.001	<0.003
MW-2	03/19/20	L1201827-02	<0.001	<0.001	<0.001	<0.003
MW-2	06/26/20	L1234397-02	<0.001	<0.001	<0.001	<0.003
MW-2	09/18/20	L1264237-01	<0.001	<0.001	<0.001	<0.003
MW-2	12/21/20	L1300778-01	<0.001	<0.001	<0.001	<0.003

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PLAINS MARKETING, L.P.
D.S. HUGH SITES
RS #2000-108007
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
MW-2	03/24/21	L1331413-02	<0.001	<0.001	<0.001	<0.003
MW-2	06/30/21	L1374009-02	<0.001	<0.001	<0.001	<0.003
MW-2	08/27/21	L1396395-02	<0.001	<0.001	<0.001	<0.003
MW-2	12/02/21	L1438373-01	<0.001	<0.001	<0.001	<0.003
MW-2	03/17/22	L1473402-02	<0.001	<0.001	<0.001	<0.003
MW-2	06/01/22	L1501274-02	<0.002	<0.005	<0.002	<0.006
MW-2	09/01/22	L1532430-02	<0.001	<0.001	<0.001	<0.003
MW-2	11/15/22	NS	NS	NS	NS	NS
MW-3	12/21/05	T12186-2	<0.002	<0.002	<0.002	<0.006
MW-3	03/28/06	T13038-2	<0.00038	<0.00036	<0.00035	<0.00072
MW-3	06/15/06	T13864-2	<0.00038	<0.00036	<0.00035	<0.00072
MW-3	09/12/06	T14673-2	<0.00035	<0.00020	<0.00033	<0.00036
MW-3	12/06/06	T15625-2	<0.00035	<0.00020	<0.00033	<0.00036
MW-3	03/01/07	T16518-2	<0.00035	<0.00020	<0.00033	<0.00036
MW-3	06/01/07	T17666-2	<0.00021	<0.00023	<0.00035	<0.00055
MW-3	09/07/07	T18804-2	<0.00021	<0.00023	<0.00035	<0.00055
MW-3	11/13/07	T19746-2	<0.0005	<0.0005	<0.0005	<0.001
MW-3	02/27/08	T21042-2	0.00021 J	<0.00023	<0.00035	<0.00055
MW-3	05/22/08	T22302-3	<0.00021	<0.00023	<0.00035	<0.00055
MW-3	08/20/08	T23537-2	<0.0005	<0.0005	<0.0005	<0.001
MW-3	11/19/08	180052	<0.00100	<0.00100	<0.00100	<0.00100
MW-3	02/17/09	187739	<0.001	<0.001	<0.001	<0.001
MW-3	05/19/09	9052214	<0.000149	<0.000188	<0.000178	<0.000163
MW-3	08/26/09	208336	<0.000133	<0.000281	<0.000535	<0.000960
MW-3	11/17/09	215430	<0.000160	<0.000332	<0.000230	<0.000143
MW-3	02/09/10	222049	<0.000208	<0.000208	<0.000303	<0.000326
MW-3	05/12/10	1005476-03	0.0012	<0.00020	0.00049 J	0.00088 J
MW-3	08/26/10	1008908-02	<0.00020	<0.00020	<0.00020	<0.00070
MW-3	11/18/10	1011751-02	<0.00020	<0.00020	<0.00020	<0.00070
MW-3	02/24/11	1102759-02	<0.0010	<0.0010	<0.0010	<0.0030
MW-3	05/31/11	1106003-03	<0.0010	<0.0010	<0.0010	<0.0030
MW-3	08/29/11	1108973-02	<0.0010	<0.0010	<0.0010	<0.0030
MW-3	11/28/11	1111900-02	<0.0010	<0.0010	<0.0010	<0.0030
MW-3	02/22/12	1202868-02	<0.0010	<0.0010	<0.0010	<0.0030
MW-3	05/23/12	12051129-03	<0.0010	<0.0010	<0.0010	<0.0030
MW-3	09/11/12	1209470-02	<0.0010	<0.0010	<0.0010	<0.0030
MW-3	11/26/12	1211905-02	<0.0010	<0.0010	<0.0010	<0.0030
MW-3	02/27/13	L622427-02	<0.001	<0.005	<0.001	<0.003
MW-3	06/10/13	L641101-03	<0.001	<0.005	<0.001	<0.003
MW-3	09/11/13	L657122-02	<0.001	<0.005	<0.001	<0.003
MW-3	12/11/13	L673997-02	<0.001	<0.005	<0.001	<0.003
MW-3	03/05/14	L686932-02	<0.001	<0.005	<0.001	<0.003
MW-3	06/06/14	L703440-03	<0.001	<0.005	<0.001	<0.003

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PLAINS MARKETING, L.P.
D.S. HUGH SITES
RS #2000-108007
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
MW-3	09/18/14	L722808-02	<0.001	<0.005	<0.001	<0.003
MW-3	11/12/14	L733859-02	<0.001	<0.005	<0.001	<0.003
MW-3	02/24/15	L750324-02	<0.001	<0.005	<0.001	<0.003
MW-3	06/18/15	L772203-03	<0.001	<0.005	<0.001	<0.003
MW-3	08/22/15	L785989-02	<0.001	<0.005	<0.001	<0.003
MW-3	11/19/15	L802533-02	<0.001	<0.005	<0.001	<0.003
MW-3	03/08/16	L822604-02	<0.001	<0.005	<0.001	<0.003
MW-3	05/20/16	L837134-03	<0.001	<0.005	<0.001	<0.003
MW-3	09/21/16	L861614-02	<0.001	<0.005	<0.001	<0.003
MW-3	12/16/16	L879658-02	<0.001	<0.005	<0.001	<0.003
MW-3	03/02/17	L893619-02	<0.001	<0.001	<0.001	<0.003
MW-3	05/16/17	L910269-03	<0.001	<0.001	<0.001	<0.003
MW-3	09/13/17	L936705-02	<0.001	<0.001	<0.001	<0.003
MW-3	11/29/17	L954388-02	<0.001	<0.001	<0.001	<0.003
MW-3	03/08/18	L976570-03	<0.001	<0.001	<0.001	<0.003
MW-3	06/06/18	L1000531-03	<0.001	<0.001	<0.001	<0.003
MW-3	09/12/18	L1025965-03	<0.001	<0.001	<0.001	<0.003
MW-3	11/30/18	L1050022-02	<0.001	<0.001	<0.001	<0.003
MW-3	02/14/19	L1071077-02	<0.001	<0.001	<0.001	<0.003
MW-3	05/10/19	L1098634-03	<0.001	0.00303	<0.001	<0.003
MW-3	08/28/19	L1134078-03	<0.001	<0.001	<0.001	<0.003
MW-3	11/20/19	L1163668-03	<0.001	<0.001	<0.001	<0.003
MW-3	03/19/20	L1201827-03	<0.001	<0.001	<0.001	<0.003
MW-3	06/26/20	L1234397-03	<0.001	<0.001	<0.001	<0.003
MW-3	09/18/20	L1264237-02	<0.001	<0.001	<0.001	<0.003
MW-3	12/21/20	L1300778-02	<0.001	<0.001	<0.001	<0.003
MW-3	03/24/21	L1331413-03	<0.001	<0.001	<0.001	<0.003
MW-3	06/29/21	L1374009-03	<0.001	<0.001	<0.001	<0.003
MW-3	08/27/21	L1396395-03	<0.001	<0.001	<0.001	<0.003
MW-3	12/02/21	L1438373-02	<0.001	<0.001	<0.001	<0.003
MW-3	03/17/22	L1473402-03	<0.001	<0.001	<0.001	<0.003
MW-3	06/01/22	L1501274-03	<0.002	<0.005	<0.002	<0.006
MW-3	09/01/22	L1532430-03	<0.001	<0.001	<0.001	<0.003
MW-3	11/15/22	NS	NS	NS	NS	NS
MW-4	03/28/06	T13038-3	**0.2** [a]	0.0535	0.0384	0.115
MW-4	06/15/06	T13864-3	**0.41** [a]	0.0926	0.144 [a]	0.403 [a]
MW-4	09/12/06	T14673-3	**0.617** [a]	0.025	0.232 [a]	0.208
MW-4	12/06/06	T15625-3	**1.25** [a]	0.196	0.581 [a]	**0.818**
MW-4	03/01/07	T16518-3	**1.06**	0.186	0.294	0.195
MW-4	06/01/07	T17666-3	**1.25**	0.0195 J	0.349	0.192
MW-4	09/07/07	T18804-3	**1.51**	0.0554	0.317	0.295
MW-4	11/13/07	T19746-3	**1.38** [a]	0.0251	0.256	0.22
MW-4	02/27/08	T21042-3	**1.77**	0.0882	0.532	**0.792**
MW-4	05/22/08	T22302-4	**1.09**	0.0215	0.291	0.254

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PLAINS MARKETING, L.P.
D.S. HUGH SITES
RS #2000-108007
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
MW-4	08/20/08	T23537-3	**0.662** [a]	0.0161	0.207 [a]	0.249
MW-4	11/19/08	180053	**0.567**	0.0398	0.205	0.326
MW-4	02/17/09	187740	**0.654**	0.0451	0.196	0.507
MW-4	05/19/09	9052214	**0.338**	0.0259	0.174	0.319
MW-4	08/26/09	208337	**0.301**	0.0405	0.180	0.407
MW-4	11/17/09	215431	**0.112**	0.0350	0.115	0.246
MW-4	02/09/10	222050	**0.16**	0.0663	0.159	0.398
MW-4	05/12/10	1005476-04	**0.11**	0.0450	0.14	0.4
MW-4	08/26/10	1008908-03	**0.038**	0.0340	0.094	0.26
MW-4	11/18/10	1011751-03	**0.014**	0.0023	0.12	0.26
MW-4	02/24/11	1102759-03	**0.020**	0.030	0.096	0.26
MW-4	05/31/11	1106003-04	**0.024**	0.022	0.079	0.28
MW-4	08/29/11	1108973-03	**0.014**	0.0035 P	0.11	0.28
MW-4	11/28/11	1111900-03	0.0091	<0.0010	0.10	0.18
MW-4	02/12/12	1202868-03	**0.011**	<0.0010	0.11	0.21
MW-4	05/23/12	12051129-03	**0.011**	0.001	0.15	0.38
MW-4	09/11/12	1209470-03	0.0075	<0.0010	0.14	0.23
MW-4	11/26/12	1211905-03	0.004	<0.0010	0.11	0.15
MW-4	02/27/13	L622427-03	0.0012	<0.005	0.052	0.069
MW-4	06/10/13	L641101-04	0.00042 J	<0.005	0.0052	0.0064
MW-4	09/11/13	L657122-03	0.00075 J	<0.005	0.021	0.026
MW-4	12/11/13	L673997-03	<0.001	<0.005	0.0079	0.0052
MW-4	03/05/14	L686932-03	0.00051 J	<0.005	0.047	0.014
MW-4	06/06/14	L703440-04	<0.001	<0.005	<0.001	<0.003
MW-4	09/18/14	L722808-03	<0.001	<0.005	<0.001	<0.003
MW-4	11/12/14	L733859-03	<0.001	<0.005	<0.001	<0.003
MW-4	02/24/15	L750324-03	<0.001	<0.005	0.0026	0.0016 J
MW-4	06/18/15	L772291-04	<0.001	<0.005	0.0028	0.0019 J
MW-4	08/22/15	L785989-03	0.000581 J	<0.005	0.00459	0.00457
MW-4	11/19/15	L802533-03	<0.001	<0.005	0.000586 J	0.00116 J
MW-4	03/08/16	L822604-03	<0.001	<0.005	0.0054 J	0.00295 J
MW-4	05/20/16	L837134-04	<0.001	<0.005	0.00246	<0.003
MW-4	09/21/16	L861614-03	<0.001	<0.005	0.00391	0.00148 J
MW-4	12/16/16	L879658-03	<0.001	<0.005	0.000835 J	<0.003
MW-4	03/02/17	L893619-03	<0.001	<0.001	<0.001	<0.003
MW-4	05/16/17	L910269-04	<0.001	<0.001	0.00447	<0.003
MW-4	09/13/17	L936705-03	<0.001	<0.001	0.00113	<0.003
MW-4	11/29/17	L954388-03	0.00129	<0.001	<0.001	<0.003
MW-4	03/08/18	L976570-04	0.0015	<0.001	<0.001	<0.003
MW-4	06/07/18	L1000531-04	**0.0106**	<0.001	<0.001	<0.003
MW-4	09/12/18	L1025965-04	<0.001	<0.001	<0.001	<0.003
MW-4	11/30/18	L1050022-03	**0.0148**	<0.001	<0.001	<0.003
MW-4	02/14/19	L1071077-03	<0.001	<0.001	<0.001	<0.003
MW-4	05/10/19	L1098634-04	<0.001	<0.001	<0.001	<0.003

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PLAINS MARKETING, L.P.
D.S. HUGH SITES
RS #2000-108007
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
MW-4	08/28/19	L1134078-04	**0.0139**	<0.001	<0.001	<0.003
MW-4	11/20/19	L1163668-04	0.00958	<0.001	<0.001	<0.003
MW-4	03/19/20	L1201827-04	0.00639	<0.001	<0.001	<0.003
MW-4	06/26/20	L1234397-04	0.00231	0.00153	0.00501	0.00949
MW-4	09/18/20	L1264237-03	<0.001	<0.001	<0.001	<0.003
MW-4	12/21/20	L1300778-03	<0.001	<0.001	<0.001	<0.003
MW-4	03/24/21	L1331413-04	<0.001	<0.001	<0.001	<0.003
MW-4	06/30/21	L1374009-04	<0.001	<0.001	<0.001	<0.003
MW-4	08/27/21	L1396395-04	<0.001	<0.001	<0.001	<0.003
MW-4	12/02/21	L1438373-03	<0.001	<0.001	<0.001	<0.003
MW-4	03/17/22	L1473402-04	<0.001	<0.001	<0.001	<0.003
MW-4	06/01/22	L1501274-04	<0.002	<0.005	<0.002	<0.006
MW-4	09/01/22	L1532430-04	<0.001	<0.001	0.00056 J	0.00227 J
MW-4	11/15/22	L1558959-02	<0.001	<0.001	<0.001	0.00184 J
MW-5	03/28/06	T13038-4	<0.00038	<0.00036	<0.00035	<0.00072
MW-5	06/15/06	T13864-4	<0.00038	<0.00036	<0.00035	<0.00072
MW-5	09/12/06	T14673-4	<0.00035	<0.00020	<0.00033	<0.00036
MW-5	12/06/06	T15625-4	<0.00035	<0.00020	<0.00033	<0.00036
MW-5	03/01/07	T16518-4	<0.00035	<0.00020	<0.00033	<0.00036
MW-5	06/01/07	T17666-4	<0.00021	<0.00023	<0.00035	<0.00055
MW-5	09/07/07	T18804-4	<0.00021	<0.00023	<0.00035	<0.00055
MW-5	11/13/07	T19746-4	<0.0005	<0.0005	<0.0005	<0.001
MW-5	02/27/08	T21042-4	<0.00021	<0.00023	<0.00035	<0.00055
MW-5	05/22/08	T22302-5	<0.00021	<0.00023	<0.00035	<0.00055
MW-5	08/20/08	T23537-4	<0.0005	<0.0005	<0.0005	<0.001
MW-5	11/19/08	180054	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	02/17/09	187741	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	05/19/09	9052214	<0.000149	<0.000188	<0.000178	<0.000163
MW-5	08/26/09	208338	<0.000133	<0.000281	<0.000535	<0.000960
MW-5	11/17/09	215432	<0.000133	<0.000281	<0.000535	<0.000960
MW-5	02/09/10	222051	<0.000208	<0.000208	<0.000303	<0.000326
MW-5	05/12/10	1005476-05	0.00058 J	<0.00020	0.00042 J	0.001 J
MW-5	08/26/10	1008908-04	<0.00020	<0.00020	<0.00020	<0.00070
MW-5	11/18/10	1011751-04	<0.00020	<0.00020	<0.00020	<0.00070
MW-5	02/24/11	1102759-04	<0.0010	<0.0010	<0.0010	<0.0030
MW-5	05/31/11	1106003-05	<0.0010	<0.0010	<0.0010	<0.0030
MW-5	08/29/11	1108973-04	<0.0010	<0.0010	<0.0010	<0.0030 P
MW-5	11/28/11	1111900-04	<0.0010	<0.0010	<0.0010	<0.0030
MW-5	02/22/12	1202868-04	<0.0010	<0.0010	<0.0010	<0.0030
MW-5	05/23/12	12051129-05	<0.0010	<0.0010	<0.0010	<0.0030
MW-5	09/11/12	1209470-04	<0.0010	<0.0010	<0.0010	<0.0030
MW-5	11/26/12	1211905-04	<0.0010	<0.0010	<0.0010	<0.0030
MW-5	02/27/13	L622427-04	<0.001	<0.005	0.0006	<0.003
MW-5	06/10/13	L641101-05	<0.001	<0.005	<0.001	<0.003

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PLAINS MARKETING, L.P.
D.S. HUGH SITES
RS #2000-108007
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
MW-5	09/11/13	L657122-04	<0.001	<0.005	<0.001	<0.003
MW-5	12/11/13	L673997-04	<0.001	<0.005	<0.001	<0.003
MW-5	03/05/14	L686932-04	<0.001	<0.005	<0.001	<0.003
MW-5	06/06/14	L703440-05	<0.001	<0.005	<0.001	<0.003
MW-5	09/18/14	L722808-04	<0.001	<0.005	<0.001	<0.003
MW-5	11/12/14	L733859-04	<0.001	<0.005	<0.001	<0.003
MW-5	02/24/15	L750324-04	<0.001	<0.005	<0.001	<0.003
MW-5	06/18/15	L772291-05	<0.001	<0.005	<0.001	<0.003
MW-5	08/22/15	L785989-04	<0.001	<0.005	<0.001	<0.003
MW-5	11/19/15	L802533-04	<0.001	<0.005	<0.001	<0.003
MW-5	03/08/16	L822604-04	<0.001	<0.005	<0.001	<0.003
MW-5	05/20/16	L837134-05	<0.001	<0.005	<0.001	<0.003
MW-5	09/21/16	L861614-04	<0.001	<0.005	<0.001	<0.003
MW-5	12/16/16	L879658-04	<0.001	<0.005	<0.001	<0.003
MW-5	03/02/17	L893619-04	<0.001	<0.001	<0.001	<0.003
MW-5	05/16/17	L910269-06	<0.001	<0.001	<0.001	<0.003
MW-5	09/13/17	L936705-05	<0.001	<0.001	<0.001	<0.003
MW-5	11/29/17	L954388-04	<0.001	<0.001	<0.001	<0.003
MW-5	03/08/18	L976570-05	<0.001	0.001	<0.001	<0.003
MW-5	06/07/18	L1000531-05	<0.001	<0.001	<0.001	<0.003
MW-5	09/12/18	L1025965-05	<0.001	<0.001	<0.001	<0.003
MW-5	11/30/18	L1050022-04	<0.001	<0.001	0.00349	<0.003
MW-5	02/14/19	L1071077-04	<0.001	<0.001	<0.001	<0.003
MW-5	05/10/19	L1098634-05	<0.001	<0.001	<0.001	<0.003
MW-5	08/28/19	L1134078-05	<0.001	<0.001	<0.001	<0.003
MW-5	11/20/19	L1163668-05	<0.001	<0.001	<0.001	<0.003
MW-5	03/19/20	L1201827-05	<0.001	<0.001	<0.001	<0.003
MW-5	06/26/20	L1234397-05	<0.001	<0.001	<0.001	<0.003
MW-5	09/18/20	L1264237-04	<0.001	<0.001	<0.001	<0.003
MW-5	12/21/20	L1300778-04	<0.001	<0.001	<0.001	<0.003
MW-5	03/24/21	L1331413-05	<0.001	<0.001	<0.001	<0.003
MW-5	06/30/21	L1374009-05	<0.001	<0.001	<0.001	<0.003
MW-5	08/27/21	L1396395-05	<0.001	<0.001	<0.001	<0.003
MW-5	12/02/21	L1438373-04	<0.001	<0.001	<0.001	<0.003
MW-5	03/17/22	L1473402-05	<0.001	<0.001	<0.001	<0.003
MW-5	06/01/22	L1501274-05	<0.002	<0.005	<0.002	<0.006
MW-5	09/01/22	L1532430-05	<0.001	<0.001	<0.001	<0.003
MW-5	11/15/22	L1558959-03	<0.001	<0.001	<0.001	<0.003
MW-6	06/15/06	T13864-5	<0.00038	<0.00036	<0.00035	<0.00072
MW-6	09/12/06	T14673-5	<0.00035	<0.00020	<0.00033	<0.00036
MW-6	12/06/06	T15625-5	<0.00035	<0.00020	<0.00033	<0.00036
MW-6	03/01/07	T16518-5	<0.00035	<0.00020	<0.00033	<0.00036
MW-6	06/01/07	T17666-5	<0.00021	<0.00023	<0.00035	0.0014 J

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PLAINS MARKETING, L.P.
D.S. HUGH SITES
RS #2000-108007
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
MW-6	09/07/07	T18804-5	<0.00021	<0.00023	<0.00035	<0.00055
MW-6	11/13/07	T19746-5	<0.0005	<0.0005	<0.0005	<0.001
MW-6	02/27/08	T21042-5	<0.00021	<0.00023	<0.00035	<0.00055
MW-6	05/22/08	T22302-6	<0.00021	<0.00023	<0.00035	<0.00055
MW-6	08/20/08	T23537-5	0.0065	<0.0005	0.0037	<0.001
MW-6	11/19/08	180055	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	02/17/09	187742	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	05/19/09	9052214	<0.000149	<0.000188	<0.000178	<0.000163
MW-6	08/26/09	208339	<0.000133	<0.000281	<0.000535	<0.000960
MW-6	11/17/09	215433	<0.000133	<0.000281	<0.000535	<0.000960
MW-6	02/09/10	222052	<0.000208	<0.000208	0.0006 J	0.0007 J
MW-6	05/12/10	1005476-06	<0.00020	<0.00020	<0.00020	<0.00070
MW-6	08/26/10	1008908-05	<0.00020	<0.00020	<0.00020	<0.00070
MW-6	11/18/10	1011751-05	<0.00020	<0.00020	<0.00020	<0.00070
MW-6	02/24/11	1102759-05	<0.0010	<0.0010	<0.0010	<0.0030
MW-6	05/31/11	1106003-06	<0.0010	<0.0010	<0.0010	<0.0030
MW-6	08/29/11	1108973-05	<0.0010	<0.0010	<0.0010	<0.0030
MW-6	11/28/11	1111900-05	<0.0010	<0.0010	<0.0010	<0.0030
MW-6	02/22/12	1202868-05	<0.0010	<0.0010	<0.0010	<0.0030
MW-6	05/22/12	12051129-06	<0.0010	<0.0010	<0.0010	<0.0030
MW-6	09/11/12	1209470-05	<0.0010	<0.0010	<0.0010	<0.0030
MW-6	11/26/12	1211905-05	<0.0010	<0.0010	<0.0010	<0.0030
MW-6	02/27/13	L622427-05	<0.001	<0.005	<0.001	<0.003
MW-6	06/10/13	L641101-06	<0.001	<0.005	<0.001	<0.003
MW-6	09/11/13	L657122-05	<0.001	<0.005	<0.001	<0.003
MW-6	12/11/13	L673997-05	<0.001	<0.005	<0.001	<0.003
MW-6	03/05/14	L686932-05	<0.001	<0.005	<0.001	<0.003
MW-6	06/06/14	L703440-06	<0.001	<0.005	<0.001	<0.003
MW-6	09/18/14	L722808-05	<0.001	<0.005	<0.001	<0.003
MW-6	11/12/14	L733859-05	<0.001	<0.005	<0.001	<0.003
MW-6	02/24/15	L750324-05	<0.001	<0.005	<0.001	<0.003
MW-6	06/18/15	L772291-06	<0.001	<0.005	<0.001	<0.003
MW-6	08/22/15	L785989-05	<0.001	<0.005	<0.001	<0.003
MW-6	11/19/15	L802533-05	<0.001	<0.005	<0.001	<0.003
MW-6	03/08/16	L822604-05	<0.001	<0.005	<0.001	<0.003
MW-6	05/20/16	L837134-06	<0.001	<0.005	<0.001	<0.003
MW-6	09/21/16	L861614-05	<0.001	<0.005	<0.001	<0.003
MW-6	12/16/16	L879658-05	<0.001	<0.005	<0.001	<0.003
MW-6	03/02/17	L893619-05	<0.001	<0.001	<0.001	<0.003
MW-6	05/16/17	L910269-06	<0.001	<0.001	<0.001	<0.003
MW-6	09/13/17	L936705-05	<0.001	<0.001	<0.001	<0.003
MW-6	11/29/17	L954388-05	<0.001	<0.001	<0.001	<0.003
MW-6	03/08/18	L976570-06	<0.001	<0.001	<0.001	<0.003
MW-6	06/06/18	L1000531-06	<0.001	<0.001	<0.001	<0.003

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PLAINS MARKETING, L.P.
D.S. HUGH SITES
RS #2000-108007
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
MW-6	09/12/18	L1025965-06	<0.001	<0.001	<0.001	<0.003
MW-6	11/30/18	L1050022-05	<0.001	<0.001	<0.001	<0.003
MW-6	02/14/19	L1071077-05	<0.001	<0.001	<0.001	<0.003
MW-6	05/10/19	L1098634-06	<0.001	0.00425	<0.001	<0.003
MW-6	08/28/19	L1134078-06	<0.001	<0.001	<0.001	<0.003
MW-6	11/20/19	L1163668-06	<0.001	<0.001	<0.001	<0.003
MW-6	03/19/20	L1201827-06	<0.001	<0.001	<0.001	<0.003
MW-6	06/26/20	L1234397-06	<0.001	<0.001	<0.001	<0.003
MW-6	09/18/20	L1264237-05	<0.001	<0.001	<0.001	<0.003
MW-6	12/21/20	L1300778-05	<0.001	<0.001	<0.001	<0.003
MW-6	03/24/21	L1331413-06	<0.001	<0.001	<0.001	<0.003
MW-6	06/29/21	L1374009-06	<0.001	<0.001	<0.001	<0.003
MW-6	08/27/21	L1396395-06	<0.001	<0.001	<0.001	<0.003
MW-6	12/02/21	L1438373-05	<0.001	<0.001	<0.001	<0.003
MW-6	03/17/22	L1473402-06	<0.001	<0.001	<0.001	<0.003
MW-6	06/01/22	L1501274-06	<0.002	<0.005	<0.002	<0.006
MW-6	09/01/22	L1532430-06	<0.001	<0.001	<0.001	<0.003
MW-6	11/15/22	NS	NS	NS	NS	NS
MW-7	06/15/06	T13864-6	<0.00038	<0.00036	<0.00035	<0.00072
MW-7	09/12/06	T14673-6	**0.0163**	<0.00020	<0.00033	0.0036
MW-7	12/06/06	T15625-6	**0.011**	<0.00020	<0.00033	0.004
MW-7	03/01/07	T16518-6	<0.00035	<0.00020	<0.00033	0.0053
MW-7	06/01/07	T17666-6	<0.00021	<0.00023	<0.00035	<0.00055
MW-7	09/07/07	T18804-6	<0.00021	<0.00023	<0.00035	<0.00055
MW-7	11/13/07	T19746-6	<0.0005	<0.0005	<0.0005	<0.001
MW-7	02/27/08	T21042-6	<0.00021	<0.00023	<0.00035	<0.00055
MW-7	05/22/08	T22302-7	<0.00021	<0.00023	<0.00035	<0.00055
MW-7	08/20/08	T23537-6	0.00086 J	<0.0005	0.00054 J	<0.001
MW-7*	11/19/08	180056	NS	NS	NS	NS
MW-7	02/17/09	187743	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	05/19/09	9052214	<0.000149	<0.000188	<0.000178	<0.000163
MW-7	08/26/09	208340	<0.000133	<0.000281	<0.000535	<0.000960
MW-7	11/17/09	215434	<0.000133	<0.000281	<0.000535	<0.000960
MW-7	02/09/10	222053	<0.000208	<0.000208	0.0012	0.0014
MW-7	05/12/10	1005476-07	0.0017	<0.00020	0.00079 J	0.0019 J
MW-7	08/26/10	1008908-06	<0.00020	<0.00020	<0.00020	<0.00070
MW-7	11/18/10	1011751-06	<0.00020	<0.00020	<0.00020	<0.00070
MW-7	02/24/11	1102759-06	<0.0010	<0.0010	<0.0010	<0.0030
MW-7	05/31/11	1106003-07	<0.0010	<0.0010	<0.0010	<0.0030
MW-7	08/29/11	1108973-06	<0.0010	<0.0010	<0.0010	<0.0030
MW-7	11/28/11	1111900-06	<0.0010	<0.0010	<0.0010	<0.0030
MW-7	02/22/12	1202868-06	<0.0010	<0.0010	<0.0010	<0.0030
MW-7	05/23/12	12051129-07	<0.0010	<0.0010	<0.0010	<0.0030

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PLAINS MARKETING, L.P.
D.S. HUGH SITES
RS #2000-108007
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
MW-7	09/11/12	1209470-06	<0.0010	<0.0010	<0.0010	<0.0030
MW-7	11/26/12	1211905-06	<0.0010	<0.0010	<0.0010	<0.0030
MW-7	02/27/13	L622427-06	<0.001	<0.005	<0.001	<0.003
MW-7	06/10/13	L641101-07	<0.001	<0.005	<0.001	<0.003
MW-7	09/11/13	L657122-06	<0.001	<0.005	<0.001	<0.003
MW-7	12/11/13	L673997-06	<0.001	<0.005	<0.001	<0.003
MW-7	03/05/14	L686932-06	<0.001	<0.005	<0.001	<0.003
MW-7	06/06/14	L703440-07	<0.001	<0.005	<0.001	<0.003
MW-7	09/18/14	L722808-06	<0.001	<0.005	<0.001	<0.003
MW-7	11/12/14	L733859-06	<0.001	<0.005	<0.001	<0.003
MW-7	02/24/15	L750324-06	<0.001	<0.005	<0.001	<0.003
MW-7	06/18/15	L772291-07	<0.001	<0.005	<0.001	<0.003
MW-7	08/22/15	L785989-06	<0.001	<0.005	<0.001	<0.003
MW-7	11/19/15	L802533-06	<0.001	<0.005	<0.001	<0.003
MW-7	03/08/16	L822604-06	<0.001	<0.005	<0.001	<0.003
MW-7	05/20/16	L837134-07	<0.001	<0.005	<0.001	<0.003
MW-7	09/21/16	L861614-06	<0.001	<0.005	<0.001	<0.003
MW-7	12/16/16	L879658-06	<0.001	<0.005	<0.001	<0.003
MW-7	03/02/17	L893619-06	<0.001	<0.001	<0.001	<0.003
MW-7	05/16/17	L910269-07	<0.001	<0.001	<0.001	<0.003
MW-7	09/13/17	L936705-06	<0.001	<0.001	<0.001	<0.003
MW-7	11/29/17	L954388-06	<0.001	<0.001	<0.001	<0.003
MW-7	03/08/18	L976570-07	<0.001	<0.001	<0.001	<0.003
MW-7	06/06/18	L1000531-07	<0.001	<0.001	<0.001	<0.003
MW-7	09/12/18	L1025965-07	<0.001	<0.001	<0.001	<0.003
MW-7	11/30/18	L1050022-06	<0.001	<0.001	<0.001	<0.003
MW-7	02/14/19	L1071077-06	<0.001	<0.001	<0.001	<0.003
MW-7	05/10/19	L1098634-07	<0.001	0.00389	<0.001	<0.003
MW-7	08/28/19	L1134078-07	<0.001	<0.001	<0.001	<0.003
MW-7	11/20/19	L1163668-07	<0.001	<0.001	<0.001	<0.003
MW-7	03/19/20	L1201827-07	<0.001	<0.001	<0.001	<0.003
MW-7	06/26/20	L1234397-07	<0.001	<0.001	<0.001	<0.003
MW-7	09/18/20	L1264237-06	<0.001	<0.001	<0.001	<0.003
MW-7	12/21/20	L1300778-06	<0.001	<0.001	<0.001	<0.003
MW-7	03/24/21	L1331413-07	<0.001	<0.001	<0.001	<0.003
MW-7	06/29/21	L1374009-07	<0.001	<0.001	<0.001	<0.003
MW-7	08/27/21	L1396395-07	<0.001	<0.001	<0.001	<0.003
MW-7	12/02/21	L1438373-06	<0.001	<0.001	<0.001	<0.003
MW-7	03/17/22	L1473402-07	<0.001	<0.001	<0.001	<0.003
MW-7	06/01/22	L1501274-07	<0.002	<0.005	<0.002	<0.006
MW-7	09/01/22	L1532430-07	<0.001	<0.001	<0.001	<0.003
MW-7	11/15/22	NS	NS	NS	NS	NS
RW-1	09/18/14	L722808-07	0.0042	0.034	0.016	0.056

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PLAINS MARKETING, L.P.
D.S. HUGH SITES
RS #2000-108007
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
RW-1	06/18/15	L772291-08	0.015	0.0069	0.02	0.041
RW-1	05/20/16	L837134-08	0.000863 J	<0.005	0.000837 J	<0.003
RW-1	05/16/17	L910269-08	0.0103	0.00285	0.00954	0.0107
RW-1	03/08/18	L976570-08	0.00696	0.00152	0.0133	0.0165
RW-1	06/07/18	L1000531-08	**0.0435**	0.00587	0.0721	0.117
RW-1	09/12/18	L1025965-08	<0.001	<0.001	<0.001	<0.003
RW-1	11/30/18	L1050022-07	**0.067**	<0.001	0.0396	0.0691
RW-1	02/14/19	L1071077-07	**0.0728**	0.00138	0.0287	0.0317
RW-1	05/10/19	L1098634-08	**0.0354**	0.00172	0.0200	0.0259
RW-1	08/28/19	L1134078-08	**0.0734**	<0.001	0.0249	0.0451
RW-1	11/20/19	L1163668-08	0.00465	<0.001	0.00205	<0.003
RW-1	03/19/20	L1201827-08	**0.0351**	<0.001	0.00728	0.0112
RW-1	06/26/20	L1234397-08	**0.00120**	<0.001	0.00191	0.00338
RW-1	09/18/20	L1264237-07	<0.001	<0.001	<0.001	<0.003
RW-1	12/21/20	L1300778-07	**0.0232**	<0.001	0.00146	0.00843
RW-1	03/24/21	L1331413-08	**0.0147**	0.00619	0.00152	0.018
RW-1	06/30/21	L1374009-08	0.00756	0.00483	0.00240	0.00921
RW-1	08/27/21	L1396395-08	<0.001	<0.001	<0.001	<0.003
RW-1	12/02/21	L1438373-07	0.00290	<0.001	<0.001	0.00561
RW-1	03/17/22	L1473402-08	<0.001	<0.001	<0.001	<0.003
RW-1	06/01/22	L1501274-08	0.00474	<0.005	<0.002	0.00682
RW-1	09/01/22	L1532430-08	0.00335	0.000943 J	0.00137	0.00978
RW-1	11/15/22	L1558959-04	<0.001	<0.001	<0.001	<0.003
RW-2	09/18/14	L722808-08	0.01	0.14	0.13	0.41
RW-2	06/18/15	L772291-09	0.0011 J4	0.0015 J	0.0054	0.021
RW-2	05/20/16	L837134-09	<0.001	<0.005	<0.001	<0.003
RW-2	05/16/17	L910269-09	**0.0316**	0.00128	0.0357	0.0776
RW-2	03/08/18	L976570-09	<0.001	<0.001	0.00391	0.00577
RW-2	06/07/18	L1000531-07	0.00213	<0.001	0.0296	0.0459
RW-2	09/12/18	L1025965-09	<0.001	<0.001	<0.001	<0.003
RW-2	11/30/18	L1050022-08	**0.0108**	<0.001	0.0145	0.136
RW-2	02/14/19	NS	NS	NS	NS	NS
RW-2	05/10/19	L1098634-09	0.00364	0.00165	0.00444	0.00942
RW-2	08/28/19	L1134078-09	0.00316	<0.001	<0.001	0.0666
RW-2	11/20/19	L1163668-09	0.00205	<0.001	<0.001	0.00602
RW-2	03/19/20	L1201827-09	0.00311	<0.001	0.00374	0.0171
RW-2	06/26/20	L1234397-09	<0.001	<0.001	<0.001	<0.003
RW-2	09/18/20	L1264237-08	<0.001	<0.001	<0.001	<0.003
RW-2	12/21/20	L1300778-08	<0.001	<0.001	<0.001	0.00471
RW-2	03/24/21	L1331413-09	<0.001	<0.001	0.00117	0.0084
RW-2	06/30/21	L1374009-09	<0.001	<0.001	<0.001	<0.003
RW-2	08/27/21	L1396395-09	**0.0234**	0.00272	0.00171	0.0131
RW-2	12/02/21	L1438373-08	<0.001	<0.001	<0.001	<0.003

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PLAINS MARKETING, L.P.
D.S. HUGH SITES
RS #2000-108007
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Sample ID	SW 846-8260B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
RW-2	03/17/22	L1473402-09	0.00145	<0.001	0.00133	0.00303
RW-2	06/01/22	L1501274-09	<0.002	<0.005	<0.002	<0.006
RW-2	09/01/22	L1532430-09	0.000598 J	<0.001	0.000462 J	0.00103 J
RW-2	11/15/22	L1558959-05	<0.001	<0.001	<0.001	<0.003

NMOCD: New Mexico Oil Conservation District
Exceedences of NMOCD Remediation Criteria are shown in **bold**
NA: Not analyzed
J: Analyte detected below method detection limit (MDL) but above sample detection limit (SDL)
[a] Result is from Run #2
P: Dual Column results percent difference > 40%
* MW-7 was not sampled in 4th Quarter 2008, due to root growth in the well

TABLE 5
Groundwater Analytical Results for Detected
Polynuclear Aromatic Hydrocarbons (PAHs) From Wells with Concentrations Exceeding NMOCD Standards
Plains Marketing, L.P.
D.S. Hugh Site
Lea County, New Mexico

Well	Date	Acenaphthene	Acenaphthylene	Anthracene	Chrysene	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Total Methylnapthalene
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Other Regulatory Limits (Tap Water)*		0.365	NA	1.83	0.0291		1.46	1.46	***	1.1	0.183			0.03
MW-1	5/22/2008	<0.0015	<0.0016	<0.0018	<0.0014	NA	<0.0016	<0.0016	0.0107	<0.0016	<0.0011	NA	NA	NA
MW-1	5/19/2009	<0.0013	<0.070	<0.0808	<0.0.02	NA	<0.0880	<0.0880	0.00667	0.00153	<0.0458	NA	NA	NA
MW-1	5/12/2010	0.0037	<0.070	<0.070	<0.070	NA	<0.070	<0.070	0.047	0.0067	<0.070	NA	NA	NA
MW-1	12/7/2011	0.0051	0.0007	0.00035	0.0012	NA	<0.002	<0.002	0.028	0.01	<0.002	NA	NA	NA
MW-1	5/22/2012	0.0063	0.00995	0.0062	0.0101	NA	0.00254	0.0309	**0.468**	0.144	0.00198	NA	NA	NA
MW-1	6/10/2013	0.00068	0.00026	0.00035	0.00011	0.0016	0.00014	0.0011	0.018	0.0022	0.00028	0.021	0.022	**0.043**
MW-1	6/6/2014	0.00057	0.00024	0.00027	0.00012	0.0014	<0.00005	0.0011	0.021	0.0022	0.00022	0.021	0.024	**0.045**
MW-1	6/18/2015	0.00026	0.000098	0.00015	0.000055	0.00049	0.000034	0.00043	0.0018	0.001	0.00011	0.0044	0.0042	0.0086
MW-1	5/20/2016	0.0000140 J	<0.00005	0.0000163 J	<0.00005	0.0000228 J	<0.00005	0.0000288 J	0.0000938 BJ	0.0000234 J	0.0000145	0.0000333 J	0.00000944 J	0.00004274
MW-1	5/16/2017	0.0002	0.0000798	0.0000418 J	<0.00005	0.000841	<0.00005	0.000578	0.0132	0.000619	<0.00005	0.0113	0.00892	0.02022
MW-1	6/6/2018	0.00012	<0.0001	<0.0001	<0.0001	0.00046	<0.0001	0.000279	0.0145	0.000292	<0.0001	0.00975	0.00771	0.01746
MW-1	5/10/2019	0.0000894	<0.00005	<0.00005	<0.00005	0.00341	<0.00005	0.000186	0.0069	0.000197	<0.00005	0.00481	0.00308	0.00789
MW-1	6/26/2020	0.000130	<0.00005	<0.00005	<0.00005	0.000503	<0.000100	0.000298	0.00931	0.000303	<0.0000500	0.00750	0.00516	0.01266
MW-1	6/29/2021	0.000170	<0.0001	<0.0001	<0.0001	0.000529	<0.0002	0.000373	0.00895	0.000450	<0.0001	0.00714	0.00404	0.01118
MW-2	5/20/2016	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.0000689 BJ	<0.00005	<0.00005	<0.000250	<0.000250	<0.000250
MW-2	5/16/2017	<0.00005	<0.00005	<0.00005	<0.00005	0.00000375 BJ	<0.00005	<0.00005	0.0000436 BJ	<0.00005	<0.00005	<0.000250	<0.000250	<0.000250
MW-2	8/17/2022	0.000298	<0.0000171	<0.0000190	0.00000347 J	0.00155	0.0000336 J	0.000802	0.0123	0.000845	0.0000555	0.00924	0.00781	0.01705
MW-3	5/20/2016	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.0000865 BJ	0.00000908 J	<0.00005	<0.000250	0.00000979 J	0.00000979 J
MW-3	5/16/2017	<0.00005	<0.00005	<0.00005	<0.00005	0.00000485 BJ	<0.00005	<0.00005	0.0000508 BJ	<0.00005	<0.00005	<0.000250	<0.000250	<0.000250
MW-4	12/7/2011	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002	0.0036	0.00022	<0.002	NA	NA	NA
MW-4	5/23/2012	0.000169	<0.00009	<0.00009	<0.00009	NA	<0.00009	0.00058	**0.0458**	0.000716	<0.00009	NA	NA	NA
MW-4	6/10/2013	0.000035	<0.0000068	<0.0000076	<0.000011	0.00018	<0.000016	0.00077	0.0011	0.000076	0.000028 J	0.0005	0.00053	0.00103
MW-4	6/6/2014	0.000032	0.000013	<0.00005	<0.00005	0.00018	<0.00005	0.000084	0.00021	0.000038	<0.000050	0.00011 J	0.000054 J	0.000164
MW-4	6/18/2015	0.000019 J	<0.00005	<0.00005	<0.00005	0.00025	<0.00005	0.0000087	0.0006	0.000032 J	<0.00005	0.00053	0.00028	0.00081
MW-4	5/20/2016	0.0000145 J	<0.00005	<0.00005	<0.00005	0.000449	<0.00005	0.000128	0.000404 B	0.0000465 J	<0.00005	0.000398	0.000148 J	0.000398
MW-4	5/16/2017	<0.00005	<0.00005	<0.00005	<0.00005	0.000456	<0.00005	0.000124	0.000160 BJ	0.0000664	<0.00005	0.000442	0.0000180 J	0.000442
MW-4	5/10/2019	<0.00005	<0.00005	<0.00005	<0.00005	0.000285	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
MW-4	8/27/2021	<0.00005	<0.00005	<0.00005	<0.00005	0.000334	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
MW-4	6/2/2022	<0.0000190	<0.0000171	<0.0000190	<0.0000179	0.00021	<0.0000270	<0.0000169	<0.0000917	<0.0000180	<0.0000169	<0.0000687	<0.0000674	<0.0000687
MW-5	5/20/2016	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.0000825 BJ	<0.00005	<0.00005	<0.000250	<0.000250	<0.000250
MW-5	5/16/2017	<0.00005	<0.00005	<0.00005	<0.00005	0.00000416 BJ	<0.00005	<0.00005	0.0000558 BJ	<0.00005	<0.00005	<0.000250	<0.000250	<0.000250

TABLE 5
Groundwater Analytical Results for Detected
Polynuclear Aromatic Hydrocarbons (PAHs) From Wells with Concentrations Exceeding NMOCD Standards
Plains Marketing, L.P.
D.S. Hugh Site
Lea County, New Mexico

Well	Date	Acenaphthene	Acenaphthylene	Anthracene	Chrysene	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Total Methylnapthalene
Units		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Other Regulatory Limits (Tap Water)*		0.365	NA	1.83	0.0291		1.46	1.46	***	1.1	0.183			0.03
MW-6	5/20/2016	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000011 BJ	<0.00005	<0.00005	<0.000250	<0.000250	<0.000250
MW-6	5/16/2017	<0.00005	<0.00005	<0.00005	<0.00005	0.00000326 BJ	<0.00005	<0.00005	0.0000604 BJ	<0.00005	<0.00005	<0.000250	0.0000100 J	0.0000100 J
MW-6	8/17/2022	<0.0000190	<0.0000171	<0000190	<0.0000179	<0.0000191	<0.0000270	<0.0000169	<0.0000917	<0.0000180	<0.0000169	<0.0000687	<0.0000674	<0.0000687
MW-7	5/20/2016	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.0000126 BJ	<0.00005	<0.00005	0.0000156 J	0.0000195 J	0.0000351
MW-7	5/16/2017	<0.00005	<0.00005	<0.00005	<0.00005	0.00000614 BJ	<0.00005	<0.00005	0.0000516 BJ	<0.00005	<0.00005	<0.000250	<0.000250	<0.000250
MW-7	8/17/2022	<0.0000190	<0.0000171	<0.0000190	<0.0000179	<0.0000191	<0.0000270	<0.0000169	<0.0000917	<0.0000180	<0.0000169	<0.0000687	<0.0000674	<0.0000687
MW-11	8/17/2022	<0.0000190	<0.0000171	<0.0000190	<0.0000179	<0.0000191	<0.0000270	<0.0000169	<0.0000917	<0.0000180	<0.0000169	<0.0000687	<0.0000674	<0.0000687
MW-12	8/17/2022	<0.0000380	<0.0000342	<0.0000380	<0.0000358	0.000139	<0.0000540	<0.0000338	<0.000183	<0.0000360	<0.0000338	<0.000137	<0.000135	<0.000137
											<0.0000169	<0.0000687	<0.0000674	<0.0000687
MW-13	8/17/2022	<0.0000190	<0.0000171	<0.0000190	<0.0000179	0.0000528	<0.0000270	<0.0000169	<0.0000917	<0.0000180				
RW-1	9/18/2014	0.000062	<0.00005	0.000034	<0.00005	0.00027	<0.00005	0.0002	0.0038	0.00034	<0.000050	0.0049	0.0041	0.00900
RW-1	6/18/2015	0.000049	<0.00005	0.000016	<0.00005	0.00024	<0.00005	0.00013	0.0014	0.000097	<0.000050	0.0019	0.00047	0.00237
RW-1	5/20/2016	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	**0.0698 BJ**	<0.00005	<0.000050	<0.000250	<0.000250	<0.000250
RW-1	5/16/2017	0.0000308 J	<0.00005	<0.00005	<0.00005	0.000163	<0.00005	0.0000690	0.000686	0.0000728	<0.000050	0.000808	0.000361	0.00117
RW-1	6/7/2018	0.000291	<0.00005	<0.00005	<0.00005	0.00113	<0.00005	0.0006420	0.00121	0.000727	<0.00005	0.00377	0.00169	0.00546
RW-1	5/10/2019	0.00022	<0.00005	<0.00005	<0.00005	0.00089	<0.00005	0.0004380	0.00614	0.000551	<0.00005	0.00562	0.00291	0.00853
RW-1	6/26/2020	0.0000882	<0.0000500	<0.0000500	<0.0000500	0.000411	<0.000100	0.000201	0.00106	0.000205	<0.0000500	0.00110	0.000547	0.00165
RW-1	6/30/2021	0.000133	<0.0000500	<0.0000500	<0.0000500	0.000581	<0.000100	0.000290	0.00104	0.000396	<0.0000500	0.00095	0.000375	0.00132
RW-2	9/18/2014	0.00069	0.00026	<0.00005	<0.00005	0.0024	<0.000050	0.0016	0.026	0.0026	<0.000050	0.028	0.033	**0.06100**
RW-2	6/18/2015	0.000034	<0.00005	<0.00005	<0.00005	0.00007	<0.000050	0.000039 J	0.00009 J	0.00005	0.000022 J	0.00010 J	0.000010 J	0.00011
RW-2	5/20/2016	<0.00005	<0.00005	<0.00005	<0.00005	0.0000130 J	<0.000050	.00000954 J	0.000209 BJ	0.0000120 J	<0.00005	0.000189 J	0.000114 J	0.000303
RW-2	5/16/2017	0.000146	0.0000510	<0.00005	<0.00005	0.000496	<0.000050	0.000386	0.00688	0.000317	<0.00005	0.00597	0.00166	0.00763
RW-2	6/7/2018	0.0001900	<0.00005	<0.00005	<0.00005	0.0007080	<0.00005	0.000477	0.00396	0.000395	<0.00005	0.0067400	0.0042600	0.01100
RW-2	5/10/2019	0.0000684	<0.00005	<0.00005	<0.00005	0.0002250	<0.00005	0.000151	0.00153	0.000187	<0.00005	0.00192	0.0010300	0.00295
RW-2	6/26/2020	0.000167	<0.0000500	<0.0000500	<0.0000500	0.000410	<0.000100	0.000332	<0.000250	0.000206	<0.0000500	0.000373	<0.000250	0.000373
RW-2	6/30/2021	0.000161	<0.0000500	<0.0000500	<0.0000500	<0.0000500	<0.000100	0.000189	<0.000250	0.000235	<0.0000500	<0.000250	<0.000250	<0.000250

< = Not Detected
Tap Water* = NMED Tap Water Soil screening levels for residential scenarios
*** = NM Water Quality Standard for PAHs is 0.030 mg/L for total naphthalenes plus monomethylnaphthalenes (total Methylnaphthalens)
** = NM Water Standard

Table 6
2022
2022 PSH and Dissolved Phase Groundwater Recovery
Plains Marketing, L.P.
DS Hugh Site
Lea County, New Mexico

Month	PSH Recovered (gallons)	Total Fluids Recovered (gallons)
MW-1	0.00	150.00
RW-1	0.00	150.00
RW-2	0.00	160.00
Total Fluids Recovered in 2022	0	**460**

Note: The above estimated gallons of total fluids (PSH and groundwater) include those pumped and manually bailed; these are estimates only.

Table 7
MNA Parameters
DS Hugh Site
SRS No. 2000-108007
Plains Marketing, L.P.
Lea County, New Mexico

Sample Point	Date	HACH Field Measurements			YSI Multimeter Sonde Field Measurments						Comments
		Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	ORP (mV)	pH	DO %	DO (mg/L)	Conductivity (ms/cm)	Specific Conductivity (ms/cm_c)	
MW-1	6/6/2018	0.21	8.80	>80	159.50	6.79	NA	0.51	2.660	2.530	
MW-1	5/10/2019	0.08	13.80	>80	-204.80	6.62	NA	0.37	2.010	2.380	
MW-1	6/26/2020	0.18	3.90	>80	-74.70	6.45	1.20	0.10	2.183	2.282	
MW-1	6/29/2021	0.45	8.70	>80	34.50	6.58	3.40	0.28	2.370	2.470	
MW-1	6/1/2022	NA	NA	NA	-134.80	6.84	--	0.24	2.320	--	
MW-3	6/6/2014	0.01	NA	>80	73.80	6.76	NA	6.11	0.983	1.120	
MW-3	6/18/2015	0.04	4.10	>80	194.20	6.71	NA	6.71	2.273	2.432	
MW-3	5/20/2016	0.00	8.60	>80	3.30	7.13	NA	5.15	2.332	2.573	
MW-3	5/16/2017	0.00	1.90	>80	189.50	7.32	NA	1.41	2.738	2.797	
MW-3	6/6/2018	0.01	2.10	>80	233.50	7.17	NA	3.13	2.790	2.710	
MW-3	5/10/2019	0.00	0.00	>80	105.30	6.95	NA	5.70	2.030	2.540	
MW-3	6/26/2020	0.10	4.20	>80	134.30	6.84	13.60	1.19	2.314	2.458	
MW-3	6/29/2021	0.00	5.20	>80	359.30	6.95	51.80	4.62	2.520	2.740	
MW-3	6/1/2022	NA	NA	NA	70.80	7.35	--	4.05	2.680	--	
MW-6	6/5/2014	0.00	0.00	>80	82.50	6.99	NA	6.76	1.165	1.326	
MW-6	5/16/2017	0.00	1.10	>80	236.10	6.25	NA	1.03	2.502	2.571	
MW-6	6/6/2018	0.02	2.90	>80	259.90	6.53	NA	3.61	2.580	2.500	
MW-6	5/10/2019	0.00	9.80	>80	106.50	6.99	NA	6.10	1.900	2.280	
MW-6	6/26/2020	0.06	2.90	>80	132.50	6.91	14.10	1.23	1.937	2.076	
MW-6	6/29/2021	0.10	2.70	>80	366.00	6.99	55.20	4.92	2.130	2.310	
MW-6	6/1/2022	NA	NA	NA	84.30	7.36	--	4.30	2.220	--	
MW-7	6/6/2014	0.00	49.80	>80	82.20	6.69	NA	3.10	1.187	1.318	
MW-7	6/18/2015	0.02	2.40	>80	20.40	4.80	NA	5.19	2.275	2.326	
MW-7	5/20/2016	0.02	18.30	>80	1.70	7.31	NA	2.95	2.175	2.416	
MW-7	5/16/2017	0.00	2.30	>80	234.40	6.28	NA	0.61	2.644	2.629	
MW-7	6/6/2018	0.02	1.50	>80	236.20	6.90	NA	0.91	2.620	2.560	
MW-7	5/10/2019	0.00	4.00	>80	101.60	6.89	NA	2.60	2.000	2.390	
MW-7	6/29/2021	0.17	5.80	>80	358.60	6.89	38.40	3..8	2.310	2.470	
MW-7	6/1/2022	NA	NA	NA	71.4	7.33	--	4.25	0.00	--	

NA - not analyzed

Appendix A

2022 Laboratory Analytical Data and Chain of Custody Documentation

ANALYTICAL REPORT

March 03, 2023

Revised Report

Plains All American Pipeline

Sample Delivery Group:	L1473402
Samples Received:	03/19/2022
Project Number:	PAA12003
Description:	DS Hugh
Site:	SRS - 2000-10807
Report To:	Bill Goldsby 21 Waterway Ave., Suite 300 The Woodlands, TX 77380

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

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

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

TABLE OF CONTENTS

MW-1 L1473402-01 GW

Collected by: Chris Sanchez | Collected date/time: 03/17/22 11:50 | Received date/time: 03/19/22 13:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1836624	1	03/23/22 07:25	03/23/22 07:25	JCP	Mt. Juliet, TN

MW-2 L1473402-02 GW

Collected by: Chris Sanchez | Collected date/time: 03/17/22 10:30 | Received date/time: 03/19/22 13:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1836624	1	03/23/22 07:45	03/23/22 07:45	JCP	Mt. Juliet, TN

MW-3 L1473402-03 GW

Collected by: Chris Sanchez | Collected date/time: 03/17/22 10:40 | Received date/time: 03/19/22 13:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1836624	1	03/23/22 08:06	03/23/22 08:06	JCP	Mt. Juliet, TN

MW-4 L1473402-04 GW

Collected by: Chris Sanchez | Collected date/time: 03/17/22 11:20 | Received date/time: 03/19/22 13:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1836624	1	03/23/22 08:26	03/23/22 08:26	JCP	Mt. Juliet, TN

MW-5 L1473402-05 GW

Collected by: Chris Sanchez | Collected date/time: 03/17/22 10:50 | Received date/time: 03/19/22 13:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1836624	1	03/23/22 08:46	03/23/22 08:46	JCP	Mt. Juliet, TN

MW-6 L1473402-06 GW

Collected by: Chris Sanchez | Collected date/time: 03/17/22 11:00 | Received date/time: 03/19/22 13:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1836624	1	03/23/22 09:06	03/23/22 09:06	JCP	Mt. Juliet, TN

MW-7 L1473402-07 GW

Collected by: Chris Sanchez | Collected date/time: 03/17/22 11:10 | Received date/time: 03/19/22 13:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1836624	1	03/23/22 09:27	03/23/22 09:27	JCP	Mt. Juliet, TN

RW-1 L1473402-08 GW

Collected by: Chris Sanchez | Collected date/time: 03/17/22 11:40 | Received date/time: 03/19/22 13:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1836624	1	03/23/22 09:47	03/23/22 09:47	JCP	Mt. Juliet, TN

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

RW-2 L1473402-09 GW

Collected by: Chris Sanchez
Collected date/time: 03/17/22 11:30
Received date/time: 03/19/22 13:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1836624	1	03/23/22 10:07	03/23/22 10:07	JCP	Mt. Juliet, TN

DUP-01 L1473402-10 GW

Collected by: Chris Sanchez
Collected date/time: 03/17/22 00:00
Received date/time: 03/19/22 13:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1836624	1	03/23/22 10:28	03/23/22 10:28	JCP	Mt. Juliet, TN

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

Chad A Upchurch
Project Manager

Report Revision History

Level II Report - Version 1: 03/24/22 16:29

Project Narrative

Revised Report: Updated to report to RDL/MDL, per client request - 03/03/23.

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00966		0.0000941	0.00100	1	03/23/2022 07:25	WG1836624
Toluene	0.000577	J	0.000278	0.00100	1	03/23/2022 07:25	WG1836624
Ethylbenzene	0.0418		0.000137	0.00100	1	03/23/2022 07:25	WG1836624
Total Xylenes	0.0366		0.000174	0.00300	1	03/23/2022 07:25	WG1836624
(S) Toluene-d8	*104*			*80.0-120*		*03/23/2022 07:25*	WG1836624
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*03/23/2022 07:25*	WG1836624
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*		*03/23/2022 07:25*	WG1836624

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	03/23/2022 07:45	WG1836624
Toluene	<0.000278		0.000278	0.00100	1	03/23/2022 07:45	WG1836624
Ethylbenzene	<0.000137		0.000137	0.00100	1	03/23/2022 07:45	WG1836624
Total Xylenes	<0.000174		0.000174	0.00300	1	03/23/2022 07:45	WG1836624
(S) Toluene-d8	*104*			*80.0-120*		*03/23/2022 07:45*	WG1836624
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/23/2022 07:45*	WG1836624
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*03/23/2022 07:45*	WG1836624

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	03/23/2022 08:06	WG1836624
Toluene	<0.000278		0.000278	0.00100	1	03/23/2022 08:06	WG1836624
Ethylbenzene	<0.000137		0.000137	0.00100	1	03/23/2022 08:06	WG1836624
Total Xylenes	<0.000174		0.000174	0.00300	1	03/23/2022 08:06	WG1836624
(S) Toluene-d8	*105*			*80.0-120*		*03/23/2022 08:06*	WG1836624
(S) 4-Bromofluorobenzene	*99.6*			*77.0-126*		*03/23/2022 08:06*	WG1836624
(S) 1,2-Dichloroethane-d4	*97.3*			*70.0-130*		*03/23/2022 08:06*	WG1836624

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	03/23/2022 08:26	WG1836624
Toluene	<0.000278		0.000278	0.00100	1	03/23/2022 08:26	WG1836624
Ethylbenzene	<0.000137		0.000137	0.00100	1	03/23/2022 08:26	WG1836624
Total Xylenes	<0.000174		0.000174	0.00300	1	03/23/2022 08:26	WG1836624
(S) Toluene-d8	*106*			*80.0-120*		*03/23/2022 08:26*	WG1836624
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/23/2022 08:26*	WG1836624
(S) 1,2-Dichloroethane-d4	*97.9*			*70.0-130*		*03/23/2022 08:26*	WG1836624

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	03/23/2022 08:46	WG1836624
Toluene	<0.000278		0.000278	0.00100	1	03/23/2022 08:46	WG1836624
Ethylbenzene	<0.000137		0.000137	0.00100	1	03/23/2022 08:46	WG1836624
Total Xylenes	<0.000174		0.000174	0.00300	1	03/23/2022 08:46	WG1836624
(S) Toluene-d8	*104*			*80.0-120*		*03/23/2022 08:46*	WG1836624
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*03/23/2022 08:46*	WG1836624
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*03/23/2022 08:46*	WG1836624

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	03/23/2022 09:06	WG1836624
Toluene	<0.000278		0.000278	0.00100	1	03/23/2022 09:06	WG1836624
Ethylbenzene	<0.000137		0.000137	0.00100	1	03/23/2022 09:06	WG1836624
Total Xylenes	<0.000174		0.000174	0.00300	1	03/23/2022 09:06	WG1836624
(S) Toluene-d8	*104*			*80.0-120*		*03/23/2022 09:06*	WG1836624
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/23/2022 09:06*	WG1836624
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*		*03/23/2022 09:06*	WG1836624

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	03/23/2022 09:27	WG1836624
Toluene	<0.000278		0.000278	0.00100	1	03/23/2022 09:27	WG1836624
Ethylbenzene	<0.000137		0.000137	0.00100	1	03/23/2022 09:27	WG1836624
Total Xylenes	<0.000174		0.000174	0.00300	1	03/23/2022 09:27	WG1836624
(S) Toluene-d8	*106*			*80.0-120*		*03/23/2022 09:27*	WG1836624
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*03/23/2022 09:27*	WG1836624
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*03/23/2022 09:27*	WG1836624

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000125	J	0.0000941	0.00100	1	03/23/2022 09:47	WG1836624
Toluene	<0.000278		0.000278	0.00100	1	03/23/2022 09:47	WG1836624
Ethylbenzene	<0.000137		0.000137	0.00100	1	03/23/2022 09:47	WG1836624
Total Xylenes	0.000246	J	0.000174	0.00300	1	03/23/2022 09:47	WG1836624
(S) Toluene-d8	*104*			*80.0-120*		*03/23/2022 09:47*	WG1836624
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/23/2022 09:47*	WG1836624
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*03/23/2022 09:47*	WG1836624

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.00145		0.0000941	0.00100	1	03/23/2022 10:07	WG1836624
Toluene	0.000365	J	0.000278	0.00100	1	03/23/2022 10:07	WG1836624
Ethylbenzene	0.00133		0.000137	0.00100	1	03/23/2022 10:07	WG1836624
Total Xylenes	0.00303		0.000174	0.00300	1	03/23/2022 10:07	WG1836624
(S) Toluene-d8	*104*			*80.0-120*		*03/23/2022 10:07*	WG1836624
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/23/2022 10:07*	WG1836624
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*03/23/2022 10:07*	WG1836624

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000897	J	0.0000941	0.00100	1	03/23/2022 10:28	WG1836624
Toluene	<0.000278		0.000278	0.00100	1	03/23/2022 10:28	WG1836624
Ethylbenzene	0.000844	J	0.000137	0.00100	1	03/23/2022 10:28	WG1836624
Total Xylenes	0.00188	J	0.000174	0.00300	1	03/23/2022 10:28	WG1836624
(S) Toluene-d8	*106*			*80.0-120*		*03/23/2022 10:28*	WG1836624
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*03/23/2022 10:28*	WG1836624
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*03/23/2022 10:28*	WG1836624

Method Blank (MB)

(MB) R3773536-2 03/23/22 06:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	<0.0000941		0.0000941	0.00100
Toluene	<0.000278		0.000278	0.00100
Ethylbenzene	<0.000137		0.000137	0.00100
Xylenes, Total	<0.000174		0.000174	0.00300
(S) Toluene-d8	*104*			*80.0-120*
(S) 4-Bromofluorobenzene	*103*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*97.9*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3773536-1 03/23/22 06:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00436	87.2	70.0-123	
Toluene	0.00500	0.00427	85.4	79.0-120	
Ethylbenzene	0.00500	0.00457	91.4	79.0-123	
Xylenes, Total	0.0150	0.0135	90.0	79.0-123	
(S) Toluene-d8			*103*	*80.0-120*	
(S) 4-Bromofluorobenzene			*104*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*99.2*	*70.0-130*	

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

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Plains All American Pipeline - Entech

21 Waterway Ave., Suite 300
The Woodlands, TX 77380

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

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation

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

Report to: Kathleen Buxton

Email To: kathleen.buxton@entechservice.com, cjbryant@paalp.com

Project Description: DS Hugh

City/State Collected: EUNICE NM

Phone: 979-997-2338
Fax:

Client Project # PAA12003

Lab Project # PLAINSENT-DSHUGH

L# 147340

G152

Collected by (print): C. SANCHEZ

Site/Facility ID # SRS - 2000-10807

P.O. #

Acctnum: PLAINSENT
Template: T94127
Prelogin: P707774
TSR: 134 - Mark W. Beasley
PB:

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PAHSIMLVI 40mlAmb-NoPres-WT	V8260BTEX 40mlAmb-HCl	Remarks	Sample # (lab only)
MW1		GW		3-17-22	1150	2		X		-01
MW2		GW			1030					-02
MW3		GW			1040					-03
MW4		GW			1120					-04
MW5		GW			1050					-05
MW6		GW			1100					-06
MW7		GW			1110					-07
RW1		GW			1140					-08
RW2		GW			1130					-09
DUP-01		GW		3-17-22	—	2		X		-10

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR	
	3/18	4:50		0	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: DRA3C 2.3+0=2.3	Bottles Received: 20
					If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/19/22	Time: 1330
				Hold:	Condition: NCF / OK

ANALYTICAL REPORT

February 22, 2023

Revised Report

Plains All American Pipeline

Sample Delivery Group:	L1501274
Samples Received:	06/04/2022
Project Number:	
Description:	DS Hugh
Site:	SRS - 2000-10807
Report To:	Bill Goldsby 21 Waterway Ave., Suite 300 The Woodlands, TX 77380

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

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Pace Analytical National
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MW 1 L1501274-01 GW

Collected by: Greg Flores | Collected date/time: 06/01/22 13:45 | Received date/time: 06/04/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1876264	1	06/08/22 16:49	06/08/22 16:49	ZST	Allen, TX

MW 2 L1501274-02 GW

Collected by: Greg Flores | Collected date/time: 06/02/22 12:25 | Received date/time: 06/04/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1876264	1	06/08/22 17:08	06/08/22 17:08	ZST	Allen, TX

MW 3 L1501274-03 GW

Collected by: Greg Flores | Collected date/time: 06/01/22 12:55 | Received date/time: 06/04/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1876264	1	06/08/22 17:26	06/08/22 17:26	ZST	Allen, TX

MW 4 L1501274-04 GW

Collected by: Greg Flores | Collected date/time: 06/02/22 12:10 | Received date/time: 06/04/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1876264	1	06/08/22 17:44	06/08/22 17:44	ZST	Allen, TX
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1875661	1	06/08/22 15:33	06/09/22 01:18	AMM	Mt. Juliet, TN

MW 5 L1501274-05 GW

Collected by: Greg Flores | Collected date/time: 06/02/22 12:00 | Received date/time: 06/04/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1876264	1	06/08/22 18:02	06/08/22 18:02	ZST	Allen, TX

MW 6 L1501274-06 GW

Collected by: Greg Flores | Collected date/time: 06/01/22 11:15 | Received date/time: 06/04/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1876264	1	06/08/22 18:20	06/08/22 18:20	ZST	Allen, TX

MW 7 L1501274-07 GW

Collected by: Greg Flores | Collected date/time: 06/01/22 12:05 | Received date/time: 06/04/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1876264	1	06/08/22 18:38	06/08/22 18:38	ZST	Allen, TX

RW 1 L1501274-08 GW

Collected by: Greg Flores | Collected date/time: 06/02/22 11:50 | Received date/time: 06/04/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1876264	1	06/08/22 18:56	06/08/22 18:56	ZST	Allen, TX

SAMPLE SUMMARY

RW 2 L1501274-09 GW

Collected by: Greg Flores
Collected date/time: 06/02/22 11:40
Received date/time: 06/04/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1876264	1	06/08/22 19:15	06/08/22 19:15	ZST	Allen, TX

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.

Chad A Upchurch
Project Manager

Report Revision History

Level II Report - Version 1: 06/10/22 14:35

Project Narrative

Revised Report: Updated to report to RDL/MDL, per client request - 02/21/23.

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0166		0.000493	0.00200	1	06/08/2022 16:49	WG1876264
Ethylbenzene	0.0489		0.000462	0.00200	1	06/08/2022 16:49	WG1876264
Toluene	<0.000998		0.000998	0.00500	1	06/08/2022 16:49	WG1876264
Xylenes, Total	0.0361		0.00132	0.00600	1	06/08/2022 16:49	WG1876264
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*06/08/2022 16:49*	WG1876264
(S) 4-Bromofluorobenzene	*101*			*70.0-130*		*06/08/2022 16:49*	WG1876264
(S) Toluene-d8	*98.5*			*70.0-130*		*06/08/2022 16:49*	WG1876264

MW-2
Collected date/time: 06/02/22 12:25
L1501274

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.000493		0.000493	0.00200	1	06/08/2022 17:08	WG1876264
Ethylbenzene	<0.000462		0.000462	0.00200	1	06/08/2022 17:08	WG1876264
Toluene	<0.000998		0.000998	0.00500	1	06/08/2022 17:08	WG1876264
Xylenes, Total	<0.00132		0.00132	0.00600	1	06/08/2022 17:08	WG1876264
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*06/08/2022 17:08*	WG1876264
(S) 4-Bromofluorobenzene	*104*			*70.0-130*		*06/08/2022 17:08*	WG1876264
(S) Toluene-d8	*97.1*			*70.0-130*		*06/08/2022 17:08*	WG1876264

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.000493		0.000493	0.00200	1	06/08/2022 17:26	WG1876264
Ethylbenzene	<0.000462		0.000462	0.00200	1	06/08/2022 17:26	WG1876264
Toluene	<0.000998		0.000998	0.00500	1	06/08/2022 17:26	WG1876264
Xylenes, Total	<0.00132		0.00132	0.00600	1	06/08/2022 17:26	WG1876264
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*06/08/2022 17:26*	WG1876264
(S) 4-Bromofluorobenzene	*103*			*70.0-130*		*06/08/2022 17:26*	WG1876264
(S) Toluene-d8	*98.4*			*70.0-130*		*06/08/2022 17:26*	WG1876264

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.000493		0.000493	0.00200	1	06/08/2022 17:44	WG1876264
Ethylbenzene	<0.000462		0.000462	0.00200	1	06/08/2022 17:44	WG1876264
Toluene	<0.000998		0.000998	0.00500	1	06/08/2022 17:44	WG1876264
Xylenes, Total	<0.00132		0.00132	0.00600	1	06/08/2022 17:44	WG1876264
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*06/08/2022 17:44*	WG1876264
(S) 4-Bromofluorobenzene	*102*			*70.0-130*		*06/08/2022 17:44*	WG1876264
(S) Toluene-d8	*97.3*			*70.0-130*		*06/08/2022 17:44*	WG1876264

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	<0.0000190		0.0000190	0.0000500	1	06/09/2022 01:18	WG1875661
Acenaphthene	<0.0000190		0.0000190	0.0000500	1	06/09/2022 01:18	WG1875661
Acenaphthylene	<0.0000171		0.0000171	0.0000500	1	06/09/2022 01:18	WG1875661
Benzo(a)anthracene	<0.0000203		0.0000203	0.0000500	1	06/09/2022 01:18	WG1875661
Benzo(a)pyrene	<0.0000184		0.0000184	0.0000500	1	06/09/2022 01:18	WG1875661
Benzo(b)fluoranthene	<0.0000168		0.0000168	0.0000500	1	06/09/2022 01:18	WG1875661
Benzo(g,h,i)perylene	<0.0000184		0.0000184	0.0000500	1	06/09/2022 01:18	WG1875661
Benzo(k)fluoranthene	<0.0000202		0.0000202	0.0000500	1	06/09/2022 01:18	WG1875661
Chrysene	<0.0000179		0.0000179	0.0000500	1	06/09/2022 01:18	WG1875661
Dibenz(a,h)anthracene	<0.0000160		0.0000160	0.0000500	1	06/09/2022 01:18	WG1875661
Dibenzofuran	0.000210		0.0000191	0.0000500	1	06/09/2022 01:18	WG1875661
Fluoranthene	<0.0000270		0.0000270	0.000100	1	06/09/2022 01:18	WG1875661
Fluorene	<0.0000169		0.0000169	0.0000500	1	06/09/2022 01:18	WG1875661
Indeno(1,2,3-cd)pyrene	<0.0000158		0.0000158	0.0000500	1	06/09/2022 01:18	WG1875661
Naphthalene	<0.0000917		0.0000917	0.000250	1	06/09/2022 01:18	WG1875661
Phenanthrene	<0.0000180		0.0000180	0.0000500	1	06/09/2022 01:18	WG1875661
Pyrene	<0.0000169		0.0000169	0.0000500	1	06/09/2022 01:18	WG1875661
1-Methylnaphthalene	<0.0000687		0.0000687	0.000250	1	06/09/2022 01:18	WG1875661
2-Methylnaphthalene	<0.0000674		0.0000674	0.000250	1	06/09/2022 01:18	WG1875661
2-Chloronaphthalene	<0.0000682		0.0000682	0.000250	1	06/09/2022 01:18	WG1875661
(S) Nitrobenzene-d5	*109*			*31.0-160*		*06/09/2022 01:18*	WG1875661
(S) 2-Fluorobiphenyl	*102*			*48.0-148*		*06/09/2022 01:18*	WG1875661
(S) p-Terphenyl-d14	*122*			*37.0-146*		*06/09/2022 01:18*	WG1875661

MW-3
Collected date/time: 06/02/22 12:00
L1501274

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.000493		0.000493	0.00200	1	06/08/2022 18:02	WG1876264
Ethylbenzene	<0.000462		0.000462	0.00200	1	06/08/2022 18:02	WG1876264
Toluene	<0.000998		0.000998	0.00500	1	06/08/2022 18:02	WG1876264
Xylenes, Total	<0.00132		0.00132	0.00600	1	06/08/2022 18:02	WG1876264
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*06/08/2022 18:02*	WG1876264
(S) 4-Bromofluorobenzene	*103*			*70.0-130*		*06/08/2022 18:02*	WG1876264
(S) Toluene-d8	*97.7*			*70.0-130*		*06/08/2022 18:02*	WG1876264

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.000493		0.000493	0.00200	1	06/08/2022 18:20	WG1876264
Ethylbenzene	<0.000462		0.000462	0.00200	1	06/08/2022 18:20	WG1876264
Toluene	<0.000998		0.000998	0.00500	1	06/08/2022 18:20	WG1876264
Xylenes, Total	<0.00132		0.00132	0.00600	1	06/08/2022 18:20	WG1876264
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*06/08/2022 18:20*	WG1876264
(S) 4-Bromofluorobenzene	*106*			*70.0-130*		*06/08/2022 18:20*	WG1876264
(S) Toluene-d8	*98.1*			*70.0-130*		*06/08/2022 18:20*	WG1876264

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.000493		0.000493	0.00200	1	06/08/2022 18:38	WG1876264
Ethylbenzene	<0.000462		0.000462	0.00200	1	06/08/2022 18:38	WG1876264
Toluene	<0.000998		0.000998	0.00500	1	06/08/2022 18:38	WG1876264
Xylenes, Total	<0.00132		0.00132	0.00600	1	06/08/2022 18:38	WG1876264
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*06/08/2022 18:38*	WG1876264
(S) 4-Bromofluorobenzene	*103*			*70.0-130*		*06/08/2022 18:38*	WG1876264
(S) Toluene-d8	*97.7*			*70.0-130*		*06/08/2022 18:38*	WG1876264

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00474		0.000493	0.00200	1	06/08/2022 18:56	WG1876264
Ethylbenzene	0.000867	J	0.000462	0.00200	1	06/08/2022 18:56	WG1876264
Toluene	0.00123	J	0.000998	0.00500	1	06/08/2022 18:56	WG1876264
Xylenes, Total	0.00682		0.00132	0.00600	1	06/08/2022 18:56	WG1876264
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*06/08/2022 18:56*	WG1876264
(S) 4-Bromofluorobenzene	*104*			*70.0-130*		*06/08/2022 18:56*	WG1876264
(S) Toluene-d8	*99.3*			*70.0-130*		*06/08/2022 18:56*	WG1876264

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.000493		0.000493	0.00200	1	06/08/2022 19:15	WG1876264
Ethylbenzene	<0.000462		0.000462	0.00200	1	06/08/2022 19:15	WG1876264
Toluene	<0.000998		0.000998	0.00500	1	06/08/2022 19:15	WG1876264
Xylenes, Total	<0.00132		0.00132	0.00600	1	06/08/2022 19:15	WG1876264
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*06/08/2022 19:15*	WG1876264
(S) 4-Bromofluorobenzene	*105*			*70.0-130*		*06/08/2022 19:15*	WG1876264
(S) Toluene-d8	*97.7*			*70.0-130*		*06/08/2022 19:15*	WG1876264

Method Blank (MB)

(MB) R3801001-2 06/08/22 12:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	<0.000493		0.000493	0.00200
Ethylbenzene	<0.000462		0.000462	0.00200
Toluene	<0.000998		0.000998	0.00500
Xylenes, Total	<0.00132		0.00132	0.00600
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*
(S) 4-Bromofluorobenzene	*103*			*70.0-130*
(S) Toluene-d8	*97.6*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3801001-1 06/08/22 11:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0200	0.0200	100	73.0-131	
Ethylbenzene	0.0200	0.0225	113	76.0-129	
Toluene	0.0200	0.0203	102	73.0-130	
Xylenes, Total	0.0600	0.0653	109	78.0-124	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	
(S) 4-Bromofluorobenzene			*102*	*70.0-130*	
(S) Toluene-d8			*99.9*	*70.0-130*	

L1501120-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1501120-07 06/08/22 14:06 • (MS) R3801001-3 06/08/22 13:12 • (MSD) R3801001-4 06/08/22 13:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0200	<0.000493	0.0206	0.0204	103	102	1	74.0-130			0.976	20
Ethylbenzene	0.0200	<0.000462	0.0229	0.0226	115	113	1	77.0-127			1.32	20
Toluene	0.0200	<0.000998	0.0210	0.0204	105	102	1	74.0-127			2.90	20
Xylenes, Total	0.0600	<0.00132	0.0671	0.0660	112	110	1	71.0-133			1.65	20
(S) 1,2-Dichloroethane-d4					*102*	*99.2*		*70.0-130*				
(S) 4-Bromofluorobenzene					*103*	*103*		*70.0-130*				
(S) Toluene-d8					*99.9*	*98.9*		*70.0-130*				

Method Blank (MB)

(MB) R3801729-3 06/08/22 21:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	<0.0000190		0.0000190	0.0000500
Acenaphthene	<0.0000190		0.0000190	0.0000500
Acenaphthylene	<0.0000171		0.0000171	0.0000500
Benzo(a)anthracene	<0.0000203		0.0000203	0.0000500
Benzo(a)pyrene	<0.0000184		0.0000184	0.0000500
Benzo(b)fluoranthene	<0.0000168		0.0000168	0.0000500
Benzo(g,h,i)perylene	<0.0000184		0.0000184	0.0000500
Benzo(k)fluoranthene	<0.0000202		0.0000202	0.0000500
Chrysene	<0.0000179		0.0000179	0.0000500
Dibenz(a,h)anthracene	<0.0000160		0.0000160	0.0000500
Dibenzofuran	<0.0000191		0.0000191	0.0000500
Fluoranthene	<0.0000270		0.0000270	0.000100
Fluorene	<0.0000169		0.0000169	0.0000500
Indeno(1,2,3-cd)pyrene	<0.0000158		0.0000158	0.0000500
Naphthalene	<0.0000917		0.0000917	0.000250
Phenanthrene	<0.0000180		0.0000180	0.0000500
Pyrene	<0.0000169		0.0000169	0.0000500
1-Methylnaphthalene	<0.0000687		0.0000687	0.000250
2-Methylnaphthalene	<0.0000674		0.0000674	0.000250
2-Chloronaphthalene	<0.0000682		0.0000682	0.000250
(S) Nitrobenzene-d5	*106*			*31.0-160*
(S) 2-Fluorobiphenyl	*102*			*48.0-148*
(S) p-Terphenyl-d14	*126*			*37.0-146*

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

(LCS) R3801729-1 06/08/22 20:39 • (LCSD) R3801729-2 06/08/22 20:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	0.00176	0.00162	88.0	81.0	67.0-150			8.28	20
Acenaphthene	0.00200	0.00191	0.00186	95.5	93.0	65.0-138			2.65	20
Acenaphthylene	0.00200	0.00177	0.00175	88.5	87.5	66.0-140			1.14	20
Benzo(a)anthracene	0.00200	0.00175	0.00170	87.5	85.0	61.0-140			2.90	20
Benzo(a)pyrene	0.00200	0.00187	0.00181	93.5	90.5	60.0-143			3.26	20
Benzo(b)fluoranthene	0.00200	0.00209	0.00201	105	100	58.0-141			3.90	20
Benzo(g,h,i)perylene	0.00200	0.00176	0.00173	88.0	86.5	52.0-153			1.72	20
Benzo(k)fluoranthene	0.00200	0.00205	0.00197	102	98.5	58.0-148			3.98	20
Chrysene	0.00200	0.00212	0.00206	106	103	64.0-144			2.87	20
Dibenz(a,h)anthracene	0.00200	0.00181	0.00176	90.5	88.0	52.0-155			2.80	20

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

(LCS) R3801729-1 06/08/22 20:39 • (LCSD) R3801729-2 06/08/22 20:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dibenzofuran	0.00200	0.00210	0.00200	105	100	67.0-134			4.88	20
Fluoranthene	0.00200	0.00176	0.00169	88.0	84.5	69.0-153			4.06	20
Fluorene	0.00200	0.00190	0.00184	95.0	92.0	64.0-136			3.21	20
Indeno(1,2,3-cd)pyrene	0.00200	0.00171	0.00175	85.5	87.5	54.0-153			2.31	20
Naphthalene	0.00200	0.00202	0.00193	101	96.5	61.0-137			4.56	20
Phenanthrene	0.00200	0.00197	0.00187	98.5	93.5	62.0-137			5.21	20
Pyrene	0.00200	0.00200	0.00192	100	96.0	60.0-142			4.08	20
1-Methylnaphthalene	0.00200	0.00200	0.00194	100	97.0	66.0-142			3.05	20
2-Methylnaphthalene	0.00200	0.00195	0.00188	97.5	94.0	62.0-136			3.66	20
2-Chloronaphthalene	0.00200	0.00210	0.00202	105	101	64.0-140			3.88	20
(S) Nitrobenzene-d5				*108*	*97.5*	*31.0-160*				
(S) 2-Fluorobiphenyl				*105*	*105*	*48.0-148*				
(S) p-Terphenyl-d14				*130*	*126*	*37.0-146*				

L1501108-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1501108-11 06/08/22 22:59 • (MS) R3801729-4 06/08/22 23:19 • (MSD) R3801729-5 06/08/22 23:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	<0.0000190	0.00158	0.00162	79.0	81.0	1	56.0-156			2.50	20
Acenaphthene	0.00200	<0.0000190	0.00182	0.00189	91.0	94.5	1	44.0-153			3.77	20
Acenaphthylene	0.00200	<0.0000171	0.00166	0.00172	83.0	86.0	1	53.0-150			3.55	20
Benzo(a)anthracene	0.00200	<0.0000203	0.00167	0.00168	83.5	84.0	1	47.0-151			0.597	20
Benzo(a)pyrene	0.00200	<0.0000184	0.00167	0.00169	83.5	84.5	1	45.0-146			1.19	20
Benzo(b)fluoranthene	0.00200	<0.0000168	0.00191	0.00191	95.5	95.5	1	43.0-142			0.000	20
Benzo(g,h,i)perylene	0.00200	<0.0000184	0.00163	0.00161	81.5	80.5	1	40.0-147			1.23	20
Benzo(k)fluoranthene	0.00200	<0.0000202	0.00185	0.00184	92.5	92.0	1	43.0-148			0.542	21
Chrysene	0.00200	<0.0000179	0.00195	0.00195	97.5	97.5	1	50.0-148			0.000	20
Dibenz(a,h)anthracene	0.00200	<0.0000160	0.00164	0.00163	82.0	81.5	1	37.0-151			0.612	20
Dibenzofuran	0.00200	<0.0000191	0.00199	0.00206	99.5	103	1	48.0-138			3.46	20
Fluoranthene	0.00200	<0.0000270	0.00165	0.00170	82.5	85.0	1	56.0-157			2.99	20
Fluorene	0.00200	<0.0000169	0.00179	0.00182	89.5	91.0	1	48.0-148			1.66	20
Indeno(1,2,3-cd)pyrene	0.00200	<0.0000158	0.00159	0.00157	79.5	78.5	1	41.0-148			1.27	20
Naphthalene	0.00200	<0.0000917	0.00188	0.00191	94.0	95.5	1	10.0-160			1.58	20
Phenanthrene	0.00200	<0.0000180	0.00182	0.00189	91.0	94.5	1	47.0-147			3.77	20
Pyrene	0.00200	<0.0000169	0.00182	0.00182	91.0	91.0	1	51.0-148			0.000	20
1-Methylnaphthalene	0.00200	<0.0000687	0.00184	0.00188	92.0	94.0	1	21.0-160			2.15	20
2-Methylnaphthalene	0.00200	<0.0000674	0.00184	0.00186	92.0	93.0	1	31.0-160			1.08	20
2-Chloronaphthalene	0.00200	<0.0000682	0.00201	0.00208	100	104	1	52.0-148			3.42	20

L1501108-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1501108-11 06/08/22 22:59 • (MS) R3801729-4 06/08/22 23:19 • (MSD) R3801729-5 06/08/22 23:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) Nitrobenzene-d5					*105*	*105*		*31.0-160*				
(S) 2-Fluorobiphenyl					*98.5*	*102*		*48.0-148*				
(S) p-Terphenyl-d14					*118*	*118*		*37.0-146*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-22-37
Iowa	408	Oklahoma	8727
Louisiana	30686		

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

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

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

Company Name/Address:
Plains All American Pipeline
21 Waterway Ave., Suite 300
The Woodlands, TX 77380

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

Pres Chk

Report to: Kathleen Buxton

Email To: kathleen.buxton@entechservice.com;CJBryant

Project Description: DS Hugh

City/State Collected:

Please Circle: PT MT CT ET

Phone: 979-997-2338

Client Project # PAA12003

Lab Project # PLAINSENT-DSHUGH

Collected by (print): Greg Flores

Site/Facility ID # SRS - 2000-10807

P.O. #

Collected by (signature): Greg Flores

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PAHSIMLVI 40mlAmb-NoPres-WT	V8260BTEX 40mlAmb-HCl
MW 1		GW		6-1-22	1345	2	[redacted]	X
MW 2		GW		6-2-22	1225	2		X
MW 3		GW		6-1-22	1255	2		X
MW 4		GW		6-2-22	1210	4	2	2
MW 5		GW		6-2-22	1200	2		X
MW 6		GW		6-1-22	1115	|		X
MW 7		GW		6-1-22	1205	|		X
RW 1		GW		6-2-22	1150	|		X
RW 2		GW		6-2-22	1140	|		X
		GW						

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

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

SDG # L1501274

Table #

Acctnum: PLAINSENT
Template: T94127
Prelogin: P929347
PM: 3587 - Lori A Vahrenkamp
PB:

Shipped Via:

Remarks | Sample # (lab only)

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

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

	Date:	Time:		
Relinquished by: (Signature) Greg Flores	6/3/22	0845	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature)	6/3/22	1700	Received by: (Signature) SWA	Temp: °C Bottles Received:
Relinquished by: (Signature) GH	6/4/22	1030	Received for lab by: (Signature) Sudiksha PACE	Date: 6/4/22 Time: 1030

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Pace Analytical	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐Corpus Christi ☐Austin

Client Name: Plains All American Project Work order (place label):

Courier: FedEX ☐ UPS ☐ USPS ☐ Client ☐ LSO ☐ PACE ☐ Other: GH

Tracking #: _____

L1501274

Custody Seal on Cooler/Box: Yes ☐ No ☑

Received on ice: Wet ☑ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: IR-17 **Cooler Temp °C**: 0.6 (Recorded) -0.3 (Correction Factor) 0.3 (Actual)

Receiving Lab 2 Thermometer Used: _____ **Cooler Temp °C**: _____ (Recorded) _____ (Correction Factor) _____ (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: SM Date: 6/4/22

Chain of Custody relinquished	Yes ☑ No ☐
Sampler name & signature on COC	Yes ☑ No ☐
Short HT analyses (<72 hrs)	Yes ☐ No ☑

Login Person: SM Date: 6/4/22

Sufficient Volume received	Yes ☑ No ☐
Correct Container used	Yes ☑ No ☐
Container Intact	Yes ☑ No ☐
Sample pH Acceptable pH Strips: _____ Residual Chlorine Present Cl Strips: _____ Sulfide Present Lead Acetate Strips: _____	Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes ☐ No ☐ NA ☑
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑
Project sampled in USDA Regulated Area outside of Texas State Sampled: _____	Yes ☐ No ☐ NA ☑
Non-Conformance(s):	Yes ☐ No ☑

Labeling Person (if different than log-in): _____ Date: _____

SHIPMENT MANIFEST

Carrier/
Sched #:_____ Bus #:_____ Dep. Time:_____

Service: Priority

Pieces: 1

1st Lane Segment:
ODESSA MIDLAND
GLI 1454

Transfer:
DALLAS

Destination: DALLAS, TX

Driver's Signature:_____

GLI 3090208143

PRI PPD 03JUN22 01:20P ** LABEL **

Schd: GLI 1454

GLI 3090208143

Pcs: 1 of 1 DALLAS, TX

From: PACE ANALYTICAL WEST TEXAS
972-727-1123

RECV: PACE ANALYTICAL WEST TEXAS
DLIVERY

Manual Wght:
50.0
Tariff Wght:
50.0

DALLAS, TX 75202
Phone: 432-202-4238
Priority

PO/Ref #:

Agency Phone: (214)747-8859 WWW.SHIPGREYHOUND.COM

PRI PPD 03JUN22 01:20P ** ORIGIN **

GLI 3090208143

Schd: GLI 1454

Pcs: 1 of 1

From: ODESSA MIDLAND, TX

To: DALLAS, TX

Priority

P EXPRS $ 32.00 C EXPRS
P VALUE C VALUE

Company Name/Address:
Plains All American Pipeline
21 Waterway Ave., Suite 300
The Woodlands, TX 77380

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

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace PEOPLE ADVANCING SCIENCE

MT JULIET, TN

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

Report to: Kathleen Buxton

Email To: kathleen.buxton@entechservice.com;CJBryant

Project Description: DS Hugh

City/State Collected:

Please Circle: PT MT CT ET

Phone: 979-997-2338

Client Project # PAA12003

Lab Project # PLAINSENT-DSHUGH

SDG # L1501274

Collected by (print): Greg Flores

Site/Facility ID # SRS - 2000-10807

P.O. #

Table #

Collected by (signature): Greg Flores

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

Quote #

Date Results Needed

Acctnum: PLAINSENT
Template: T94127
Prelogin: P929347
PM: 3587 - Lori A Vahrenkamp
PB:

Immediately Packed on Ice N___ Y ✓

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PAHSIMLVI 40mlAmb-NoPres-WT	V8260BTEX 40mlAmb-HCl								Remarks	Sample # (lab only)
MW 1		GW		6-1-22	1345	2	[scribbled out]	X									
MW 2		GW		6-2-22	1225	2		X									
MW 3		GW		6-1-22	1255	2		X									
MW 4		GW		6-2-22	1210	4	2	2									
MW 5		GW		6-2-22	1200	2		X									
MW 6		GW		6-1-22	1115	|		X									
MW 7		GW		6-1-22	1205	|		X									
RW 1		GW		6-2-22	1150	|		X									
RW 2		GW		6-2-22	1140	|		X									
		GW															

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

Remarks:

pH _______ Temp _______
Flow _______ Other _______

Samples returned via: __UPS __FedEx __Courier ___________

Tracking # 5853 3947 4061

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		
Greg Flores	6/3/22	845	[signature]	Trip Blank Received: Yes / No HCL / MeoH TBR	
[signature]	6/3/22	1700	SWA	Temp: [illegible] 4.6+0=4.6	Bottles Received:
GH	6/4/22	1030	Received for lab by: (Signature) Sudi... PACE	Date: 6/4/22	Time: 1030

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

[signature] 6/7/22 1700 Fedex [signature] 6/7/22 6/8/22 1700 Oars

Pace Analytical	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐Corpus Christi ☐Austin

Client Name: Plains All American Project Work order (place label):

Courier: FedEX ☐ UPS ☐ USPS ☐ Client ☐ LSO ☐ PACE ☐ Other: GH

Tracking #:

L1501274

Custody Seal on Cooler/Box: Yes ☐ No ☑

Received on ice: Wet ☑ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: IR-17 Cooler Temp °C: 0.6 (Recorded) -0.3 (Correction Factor) 0.3 (Actual)

Receiving Lab 2 Thermometer Used: _____ Cooler Temp °C: _____ (Recorded) _____ (Correction Factor) _____ (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: SM Date: 6/4/22

Chain of Custody relinquished	Yes ☑ No ☐
Sampler name & signature on COC	Yes ☑ No ☐
Short HT analyses (<72 hrs)	Yes ☐ No ☑

Login Person: SM Date: 6/4/22

Sufficient Volume received	Yes ☑ No ☐
Correct Container used	Yes ☑ No ☐
Container Intact	Yes ☑ No ☐
Sample pH Acceptable pH Strips: Residual Chlorine Present Cl Strips: Sulfide Present Lead Acetate Strips:	Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes ☐ No ☐ NA ☑
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑
Project sampled in USDA Regulated Area outside of Texas State Sampled:	Yes ☐ No ☐ NA ☑
Non-Conformance(s):	Yes ☐ No ☑

Labeling Person (if different than log-in): _____ Date: _____

SHIPMENT MANIFEST

Carrier/
Sched #:_____ Bus #:_____ Dep. Time:_____

Service: Priority

Pieces: 1

1st Lane Segment:
ODESSA MIDLAND
GLI 1454

Transfer:
DALLAS

Destination: DALLAS, TX

Driver's Signature:_____


GLI 3090208143

PRI PPD 03JUN22 01:20P ** LABEL **

Schd: GLI 1454


GLI 3090208143

Pcs: 1 of 1 DALLAS, TX

From: PACE ANALYTICAL WEST TEXAS
972-727-1123

RECV: PACE ANALYTICAL WEST TEXAS
DLIVERY

Manual Wght:
50.0
Tariff Wght:
50.0

DALLAS, TX 75202
Phone: 432-202-4238
Priority

PO/Ref #:

Agency Phone: (214)747-8859 WWW.SHIPGREYHOUND.COM

PRI PPD 03JUN22 01:20P ** ORIGIN **

GLI 3090208143

Schd: GLI 1454

Pcs: 1 of 1

From: ODESSA MIDLAND, TX

To: DALLAS, TX

Priority

P EXPRS $ 32.00 C EXPRS
P VALUE C VALUE

Pace Analytical®

ANALYTICAL REPORT

September 12, 2022

Plains All American Pipeline

Sample Delivery Group:	L1532430
Samples Received:	09/03/2022
Project Number:	PAA12003
Description:	DS Hugh
Site:	SRS - 2000-10807
Report To:	Bill Goldsby 21 Waterway Ave., Suite 300 The Woodlands, TX 77380

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

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

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

TABLE OF CONTENTS

MW1 L1532430-01 GW

Collected by: Chris Sanchez | Collected date/time: 09/01/22 12:40 | Received date/time: 09/03/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1923400	1	09/09/22 11:34	09/09/22 11:34	ADM	Mt. Juliet, TN

MW2 L1532430-02 GW

Collected by: Chris Sanchez | Collected date/time: 09/01/22 11:30 | Received date/time: 09/03/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1923400	1	09/09/22 11:54	09/09/22 11:54	ADM	Mt. Juliet, TN

MW3 L1532430-03 GW

Collected by: Chris Sanchez | Collected date/time: 09/01/22 11:40 | Received date/time: 09/03/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1923400	1	09/09/22 12:15	09/09/22 12:15	ADM	Mt. Juliet, TN

MW4 L1532430-04 GW

Collected by: Chris Sanchez | Collected date/time: 09/01/22 12:20 | Received date/time: 09/03/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1923400	1	09/09/22 12:35	09/09/22 12:35	ADM	Mt. Juliet, TN

MW5 L1532430-05 GW

Collected by: Chris Sanchez | Collected date/time: 09/01/22 11:50 | Received date/time: 09/03/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1923400	1	09/09/22 12:55	09/09/22 12:55	ADM	Mt. Juliet, TN

MW6 L1532430-06 GW

Collected by: Chris Sanchez | Collected date/time: 09/01/22 12:00 | Received date/time: 09/03/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1923400	1	09/09/22 13:57	09/09/22 13:57	ADM	Mt. Juliet, TN

MW7 L1532430-07 GW

Collected by: Chris Sanchez | Collected date/time: 09/01/22 12:10 | Received date/time: 09/03/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1923400	1	09/09/22 14:18	09/09/22 14:18	ADM	Mt. Juliet, TN

RW1 L1532430-08 GW

Collected by: Chris Sanchez | Collected date/time: 09/01/22 12:30 | Received date/time: 09/03/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1923400	1	09/09/22 14:39	09/09/22 14:39	ADM	Mt. Juliet, TN

RW2 L1532430-09 GW

Collected by: Chris Sanchez
Collected date/time: 09/01/22 12:50
Received date/time: 09/03/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1923400	1	09/09/22 14:59	09/09/22 14:59	ADM	Mt. Juliet, TN

DUP-01 L1532430-10 GW

Collected by: Chris Sanchez
Collected date/time: 09/01/22 00:00
Received date/time: 09/03/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1923400	1	09/09/22 15:19	09/09/22 15:19	ADM	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.

Chad A Upchurch
Project Manager

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00808		0.0000941	0.00100	1	09/09/2022 11:34	WG1923400
Toluene	<0.000278		0.000278	0.00100	1	09/09/2022 11:34	WG1923400
Ethylbenzene	0.0418		0.000137	0.00100	1	09/09/2022 11:34	WG1923400
Total Xylenes	0.0336		0.000174	0.00300	1	09/09/2022 11:34	WG1923400
(S) Toluene-d8	*105*			*80.0-120*		*09/09/2022 11:34*	WG1923400
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*09/09/2022 11:34*	WG1923400
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/09/2022 11:34*	WG1923400

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	09/09/2022 11:54	WG1923400
Toluene	<0.000278		0.000278	0.00100	1	09/09/2022 11:54	WG1923400
Ethylbenzene	<0.000137		0.000137	0.00100	1	09/09/2022 11:54	WG1923400
Total Xylenes	<0.000174		0.000174	0.00300	1	09/09/2022 11:54	WG1923400
(S) Toluene-d8	*101*			*80.0-120*		*09/09/2022 11:54*	WG1923400
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*09/09/2022 11:54*	WG1923400
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*09/09/2022 11:54*	WG1923400

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	09/09/2022 12:15	WG1923400
Toluene	<0.000278		0.000278	0.00100	1	09/09/2022 12:15	WG1923400
Ethylbenzene	<0.000137		0.000137	0.00100	1	09/09/2022 12:15	WG1923400
Total Xylenes	<0.000174		0.000174	0.00300	1	09/09/2022 12:15	WG1923400
(S) Toluene-d8	*111*			*80.0-120*		*09/09/2022 12:15*	WG1923400
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*09/09/2022 12:15*	WG1923400
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/09/2022 12:15*	WG1923400

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	09/09/2022 12:35	WG1923400
Toluene	<0.000278		0.000278	0.00100	1	09/09/2022 12:35	WG1923400
Ethylbenzene	0.000560	J	0.000137	0.00100	1	09/09/2022 12:35	WG1923400
Total Xylenes	0.00227	J	0.000174	0.00300	1	09/09/2022 12:35	WG1923400
(S) Toluene-d8	*107*			*80.0-120*		*09/09/2022 12:35*	WG1923400
(S) 4-Bromofluorobenzene	*114*			*77.0-126*		*09/09/2022 12:35*	WG1923400
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/09/2022 12:35*	WG1923400

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	09/09/2022 12:55	WG1923400
Toluene	<0.000278		0.000278	0.00100	1	09/09/2022 12:55	WG1923400
Ethylbenzene	<0.000137		0.000137	0.00100	1	09/09/2022 12:55	WG1923400
Total Xylenes	<0.000174		0.000174	0.00300	1	09/09/2022 12:55	WG1923400
(S) Toluene-d8	*105*			*80.0-120*		*09/09/2022 12:55*	WG1923400
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*09/09/2022 12:55*	WG1923400
(S) 1,2-Dichloroethane-d4	*98.0*			*70.0-130*		*09/09/2022 12:55*	WG1923400

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	09/09/2022 13:57	WG1923400
Toluene	<0.000278		0.000278	0.00100	1	09/09/2022 13:57	WG1923400
Ethylbenzene	<0.000137		0.000137	0.00100	1	09/09/2022 13:57	WG1923400
Total Xylenes	<0.000174		0.000174	0.00300	1	09/09/2022 13:57	WG1923400
(S) Toluene-d8	*106*			*80.0-120*		*09/09/2022 13:57*	WG1923400
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*09/09/2022 13:57*	WG1923400
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/09/2022 13:57*	WG1923400

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	09/09/2022 14:18	WG1923400
Toluene	<0.000278		0.000278	0.00100	1	09/09/2022 14:18	WG1923400
Ethylbenzene	<0.000137		0.000137	0.00100	1	09/09/2022 14:18	WG1923400
Total Xylenes	<0.000174		0.000174	0.00300	1	09/09/2022 14:18	WG1923400
(S) Toluene-d8	*105*			*80.0-120*		*09/09/2022 14:18*	WG1923400
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*09/09/2022 14:18*	WG1923400
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/09/2022 14:18*	WG1923400

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00335		0.0000941	0.00100	1	09/09/2022 14:39	WG1923400
Toluene	0.000943	J	0.000278	0.00100	1	09/09/2022 14:39	WG1923400
Ethylbenzene	0.00137		0.000137	0.00100	1	09/09/2022 14:39	WG1923400
Total Xylenes	0.00978		0.000174	0.00300	1	09/09/2022 14:39	WG1923400
(S) Toluene-d8	*102*			*80.0-120*		*09/09/2022 14:39*	WG1923400
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*09/09/2022 14:39*	WG1923400
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*09/09/2022 14:39*	WG1923400

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000598	J	0.0000941	0.00100	1	09/09/2022 14:59	WG1923400
Toluene	<0.000278		0.000278	0.00100	1	09/09/2022 14:59	WG1923400
Ethylbenzene	0.000462	J	0.000137	0.00100	1	09/09/2022 14:59	WG1923400
Total Xylenes	0.00103	J	0.000174	0.00300	1	09/09/2022 14:59	WG1923400
(S) Toluene-d8	*104*			*80.0-120*		*09/09/2022 14:59*	WG1923400
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*09/09/2022 14:59*	WG1923400
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/09/2022 14:59*	WG1923400

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000582	J	0.0000941	0.00100	1	09/09/2022 15:19	WG1923400
Toluene	<0.000278		0.000278	0.00100	1	09/09/2022 15:19	WG1923400
Ethylbenzene	0.000369	J	0.000137	0.00100	1	09/09/2022 15:19	WG1923400
Total Xylenes	0.000894	J	0.000174	0.00300	1	09/09/2022 15:19	WG1923400
(S) Toluene-d8	*104*			*80.0-120*		*09/09/2022 15:19*	WG1923400
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*09/09/2022 15:19*	WG1923400
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/09/2022 15:19*	WG1923400

Method Blank (MB)

(MB) R3835954-3 09/09/22 09:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	<0.0000941		0.0000941	0.00100
Toluene	<0.000278		0.000278	0.00100
Ethylbenzene	<0.000137		0.000137	0.00100
Xylenes, Total	<0.000174		0.000174	0.00300
(S) Toluene-d8	*108*			*80.0-120*
(S) 4-Bromofluorobenzene	*104*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*

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

(LCS) R3835954-1 09/09/22 08:43 • (LCSD) R3835954-2 09/09/22 09:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00408	0.00418	81.6	83.6	70.0-123			2.42	20
Toluene	0.00500	0.00407	0.00435	81.4	87.0	79.0-120			6.65	20
Ethylbenzene	0.00500	0.00426	0.00416	85.2	83.2	79.0-123			2.38	20
Xylenes, Total	0.0150	0.0122	0.0135	81.3	90.0	79.0-123			10.1	20
(S) Toluene-d8				*101*	*104*	*80.0-120*				
(S) 4-Bromofluorobenzene				*113*	*113*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*104*	*101*	*70.0-130*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
Plains All American Pipeline
21 Waterway Ave., Suite 300
The Woodlands, TX 77380

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

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

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

SDG # U532430
A027

Acctnum: PLAINSENT
Template: T215367
Prelogin: P947895
PM: 3564 - Chad A Upchurch
PB:

Shipped Via:

Report to: Bill Goldsby (281) 507-3578

Email To: bill.goldsby@entechservice.com;CJBryant@paal

Project Description: DS Hugh

City/State Collected: EUNICE NM

Please Circle: PT MT CT ET

Phone: 979-997-2338

Client Project # PAA12003

Lab Project # PLAINSENT-DSHUGH

Collected by (print): CHRIS SANCHEZ

Site/Facility ID # SRS - 2000-10807

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PAHSIMLVI 40mlAmb-NoPres-WT	V8260BTEX 40mlAmb-HCl	Remarks	Sample # (lab only)
MW1		GW		09-01-22	1240	2		2		-01
MW2		GW		↑	1130	2		2		-02
MW3		GW			1140	2		2		-03
MW4		GW			1220	4	2	2		-04
MW5		GW			1150	2		↑		-05
MW6		GW			1200	↑				-06
MW7		GW			1210					-07
RW1		GW			1230					-08
RW2		GW		↓	1250	↓		↓		-09
DUP-01		GW		09-01-22	—	2		2		-10

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

Remarks: HOLD PAH SAMPLE FROM MW4 FOR APPROVAL FROM ENTECH. CONTACT B. GOLDSBY

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 5913 5265 1230

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes (No) HCL / MeOH TBR
	9/2/22	900		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp RAD °C / Bottles Received:
	9/2/22	1700	FedEx	5.6-to=5.6 22
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: / Time:
				9/3/22 900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

ANALYTICAL REPORT

December 01, 2022

Plains All American Pipeline

Sample Delivery Group:	L1558959
Samples Received:	11/17/2022
Project Number:	PAA12003
Description:	DS Hugh

Report To: Bill Goldsby
21 Waterway Ave., Suite 300
The Woodlands, TX 77380

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

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

TABLE OF CONTENTS

SAMPLE SUMMARY

MW1 L1558959-01 GW

Collected by: Greg Flores/CS | Collected date/time: 11/15/22 12:55 | Received date/time: 11/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1962813	1	11/21/22 04:59	11/21/22 04:59	MGF	Mt. Juliet, TN

MW4 L1558959-02 GW

Collected by: Greg Flores/CS | Collected date/time: 11/15/22 11:25 | Received date/time: 11/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1962813	1	11/21/22 05:20	11/21/22 05:20	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1966603	1	11/29/22 19:38	11/29/22 19:38	ACG	Mt. Juliet, TN

MW5 L1558959-03 GW

Collected by: Greg Flores/CS | Collected date/time: 11/15/22 11:15 | Received date/time: 11/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1962813	1	11/21/22 05:41	11/21/22 05:41	MGF	Mt. Juliet, TN

RW1 L1558959-04 GW

Collected by: Greg Flores/CS | Collected date/time: 11/15/22 11:05 | Received date/time: 11/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1962813	1	11/21/22 06:02	11/21/22 06:02	MGF	Mt. Juliet, TN

RW2 L1558959-05 GW

Collected by: Greg Flores/CS | Collected date/time: 11/15/22 10:50 | Received date/time: 11/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1962813	1	11/21/22 06:23	11/21/22 06:23	MGF	Mt. Juliet, TN

DUP-01 L1558959-06 GW

Collected by: Greg Flores/CS | Collected date/time: 11/15/22 00:00 | Received date/time: 11/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1962813	1	11/21/22 06:44	11/21/22 06:44	MGF	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.

Chad A Upchurch
Project Manager

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00453		0.0000941	0.00100	1	11/21/2022 04:59	WG1962813
Toluene	<0.000278		0.000278	0.00100	1	11/21/2022 04:59	WG1962813
Ethylbenzene	0.00832		0.000137	0.00100	1	11/21/2022 04:59	WG1962813
Total Xylenes	0.00827		0.000174	0.00300	1	11/21/2022 04:59	WG1962813
(S) Toluene-d8	*108*			*80.0-120*		*11/21/2022 04:59*	WG1962813
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*11/21/2022 04:59*	WG1962813
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/21/2022 04:59*	WG1962813

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	11/21/2022 05:20	WG1962813
Toluene	<0.000278		0.000278	0.00100	1	11/21/2022 05:20	WG1962813
Ethylbenzene	<0.000137		0.000137	0.00100	1	11/21/2022 05:20	WG1962813
Total Xylenes	0.00184	J	0.000174	0.00300	1	11/29/2022 19:38	WG1966603
(S) Toluene-d8	*102*			*80.0-120*		*11/21/2022 05:20*	WG1962813
(S) Toluene-d8	*101*			*80.0-120*		*11/29/2022 19:38*	WG1966603
(S) 4-Bromofluorobenzene	*99.6*			*77.0-126*		*11/21/2022 05:20*	WG1962813
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*11/29/2022 19:38*	WG1966603
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/21/2022 05:20*	WG1962813
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*		*11/29/2022 19:38*	WG1966603

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	11/21/2022 05:41	WG1962813
Toluene	<0.000278		0.000278	0.00100	1	11/21/2022 05:41	WG1962813
Ethylbenzene	<0.000137		0.000137	0.00100	1	11/21/2022 05:41	WG1962813
Total Xylenes	<0.000174		0.000174	0.00300	1	11/21/2022 05:41	WG1962813
(S) Toluene-d8	*107*			*80.0-120*		*11/21/2022 05:41*	WG1962813
(S) 4-Bromofluorobenzene	*98.6*			*77.0-126*		*11/21/2022 05:41*	WG1962813
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/21/2022 05:41*	WG1962813

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	11/21/2022 06:02	WG1962813
Toluene	<0.000278		0.000278	0.00100	1	11/21/2022 06:02	WG1962813
Ethylbenzene	<0.000137		0.000137	0.00100	1	11/21/2022 06:02	WG1962813
Total Xylenes	<0.000174		0.000174	0.00300	1	11/21/2022 06:02	WG1962813
(S) Toluene-d8	*107*			*80.0-120*		*11/21/2022 06:02*	WG1962813
(S) 4-Bromofluorobenzene	*97.1*			*77.0-126*		*11/21/2022 06:02*	WG1962813
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*11/21/2022 06:02*	WG1962813

RW2
Collected date/time: 11/15/22 10:50
L1558959

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	11/21/2022 06:23	WG1962813
Toluene	<0.000278		0.000278	0.00100	1	11/21/2022 06:23	WG1962813
Ethylbenzene	<0.000137		0.000137	0.00100	1	11/21/2022 06:23	WG1962813
Total Xylenes	<0.000174		0.000174	0.00300	1	11/21/2022 06:23	WG1962813
(S) Toluene-d8	*105*			*80.0-120*		*11/21/2022 06:23*	WG1962813
(S) 4-Bromofluorobenzene	*98.7*			*77.0-126*		*11/21/2022 06:23*	WG1962813
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*11/21/2022 06:23*	WG1962813

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	<0.0000941		0.0000941	0.00100	1	11/21/2022 06:44	WG1962813
Toluene	<0.000278		0.000278	0.00100	1	11/21/2022 06:44	WG1962813
Ethylbenzene	<0.000137		0.000137	0.00100	1	11/21/2022 06:44	WG1962813
Total Xylenes	<0.000174		0.000174	0.00300	1	11/21/2022 06:44	WG1962813
(S) Toluene-d8	*106*			*80.0-120*		*11/21/2022 06:44*	WG1962813
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*11/21/2022 06:44*	WG1962813
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*11/21/2022 06:44*	WG1962813

Method Blank (MB)

(MB) R3866208-2 11/20/22 23:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	<0.0000941		0.0000941	0.00100
Toluene	<0.000278		0.000278	0.00100
Ethylbenzene	<0.000137		0.000137	0.00100
Xylenes, Total	<0.000174		0.000174	0.00300
(S) Toluene-d8	*109*			*80.0-120*
(S) 4-Bromofluorobenzene	*100*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3866208-1 11/20/22 22:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00598	120	70.0-123	
Toluene	0.00500	0.00563	113	79.0-120	
Ethylbenzene	0.00500	0.00528	106	79.0-123	
Xylenes, Total	0.0150	0.0163	109	79.0-123	
(S) Toluene-d8			*104*	*80.0-120*	
(S) 4-Bromofluorobenzene			*98.2*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*126*	*70.0-130*	

L1559173-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1559173-04 11/21/22 08:08 • (MS) R3866208-3 11/21/22 09:33 • (MSD) R3866208-4 11/21/22 09:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.000346	0.00708	0.00671	135	127	1	17.0-158			5.37	27
Toluene	0.00500	<0.000278	0.00621	0.00607	124	121	1	26.0-154			2.28	28
Ethylbenzene	0.00500	<0.000137	0.00610	0.00609	122	122	1	30.0-155			0.164	27
Xylenes, Total	0.0150	<0.000174	0.0182	0.0175	121	117	1	29.0-154			3.92	28
(S) Toluene-d8					*103*	*103*		*80.0-120*				
(S) 4-Bromofluorobenzene					*103*	*101*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*120*	*124*		*70.0-130*				

Method Blank (MB)

(MB) R3867000-3 11/29/22 19:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Xylenes, Total	<0.000174		0.000174	0.00300
(S) Toluene-d8	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*101*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*

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

(LCS) R3867000-1 11/29/22 17:43 • (LCSD) R3867000-2 11/29/22 18:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Xylenes, Total	0.0150	0.0150	0.0149	100	99.3	79.0-123			0.669	20
(S) Toluene-d8				*99.2*	*102*	*80.0-120*				
(S) 4-Bromofluorobenzene				*96.1*	*101*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*115*	*117*	*70.0-130*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
Plains All American Pipeline
21 Waterway Ave., Suite 300
The Woodlands, TX 77380

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

Pres Chk

Report to: **Bill Goldsby**

Email To: **CJBryant@paalp.com;khudgens@paalp.com;Ma**

Project Description: **DS Hugh**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **281-507-3578**

Client Project # **PAA12003**

Lab Project # **PLAINSENT-PAA12003**

Collected by (print): Gus Flores / C Smalley

Site/Facility ID #

P.O. #

Collected by (signature): Gus Flores

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

V8260BTEX 40ml/Amb-HCl

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		
MW1		GW		11-15-22	1255	2	-01
MW 4		GW			1125		-02
MW 5		GW			1115		-03
RW 1		GW			1105		-04
RW 2		GW			1050		-05
Dup-01		GW					-06
		GW					
		GW					
		GW					

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

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

SDG # L1558959

H228

Acctnum: **PLAINSENT**

Template: **T219965**

Prelogin: **P963052**

PM: **3564 - Chad A Upchurch**

PB:

Shipped Via:

Remarks | Sample # (lab only)

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

Remarks:

pH ____ Temp ____

Flow ____ Other ____

Samples returned via:
__ UPS __ FedEx __ Courier ____

Tracking #

Sample Receipt Checklist

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Gus Flores	11/16/22	1045			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
	11/16/22	1700	SWA	5.0 H-5.0 12	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
				11/17/22 9:10	

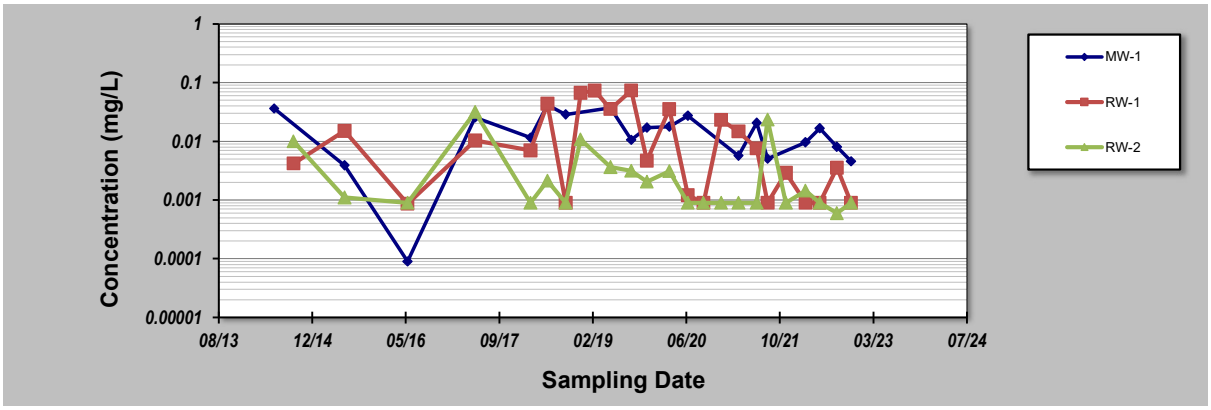
Appendix B

Mann-Kendall Trend Test

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	10-Jan-23	Job ID:	PAA12003
Facility Name:	Plains - DS Hugh Site	Constituent:	Benzene
Conducted By:	PVS / WRG	Concentration Units:	mg/L

Sampling Point ID:	MW-1	RW-1	RW-2				
Sampling Event	Sampling Date	BENZENE CONCENTRATION (mg/L)						
1	6-Jun-14	0.036						
2	18-Sep-14		0.0042	0.01				
3	18-Jun-15	0.0039	0.015	0.0011				
4	20-May-16	*0.00009*	0.000863	*0.0009*				
5	16-May-17	**0.0254**	**0.0103**	**0.0316**				
6	8-Mar-18	**0.0115**	0.00696	*0.0009*				
7	6-Jun-18	**0.0414**	**0.0435**	0.00213				
8	12-Sep-18	**0.0288**	*0.0009*	*0.0009*				
9	30-Nov-18		**0.067**	**0.0108**				
10	14-Feb-19		**0.0728**					
11	10-May-19	**0.0372**	**0.0354**	0.00364				
12	28-Aug-19	**0.0106**	**0.0734**	0.00316				
13	20-Nov-19	**0.0171**	0.00465	0.00205				
14	19-Mar-20	**0.0178**	**0.0351**	0.00311				
15	26-Jun-20	**0.0272**	0.0012	*0.0009*				
16	18-Sep-20		*0.0009*	*0.0009*				
17	21-Dec-20		**0.0232**	*0.0009*				
18	24-Mar-21	0.00568	**0.0147**	*0.0009*				
19	29-Jun-21	**0.0205**	0.00756	*0.0009*				
20	27-Aug-21	0.00504	*0.0009*	**0.0234**				
21	2-Dec-21		0.00290	*0.0009*				
22	17-Mar-22	0.00966	*0.0009*	0.00145				
23	1-Jun-22	**0.0166**	*0.0009*	*0.0009*				
24	1-Sep-22	0.00808	0.00355	0.000598				
25	15-Nov-22	0.00453	*0.0009*	*0.0009*				
26								
27								
28								
29								
30								
Coefficient of Variation:		0.72	1.34	1.75				
Mann-Kendall Statistic (S):		-41	-69	-80				
Confidence Factor:		91.8%	95.4%	98.2%				
Concentration Trend:		Prob. Decreasing	Decreasing	Decreasing				



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.
4. Nondetectable concentrations listed as 0.0009 mg/L (i.e., <0.001 mg/L) and indicated in italicized bold red values.
5. All concentrations in milligrams per liter (mg/L)

District I
1625 N. French Dr., Hobbs, NM 88240
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Phone:(505) 334-6178 Fax:(505) 334-6170
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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 207842

CONDITIONS

Operator:	OGRID:
PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	34053
	Action Number: 207842
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	1. Future PSH recovery may be conducted on a quarterly basis for MW-1, RW-1, RW-2 2. Groundwater monitoring should continue on a quarterly basis, with the exception of monitor wells MW-2, MW-3, MW-6, and MW-7, which will be on an annual basis 3.Submit summarized activities and their results in next annual report. Submittal to OCD expected no later than 03/31/2024	5/10/2023