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Review of the 2022 Annual Groundwater Monitoring Report:
Content Satisfactory
1. Continue quarterly groundwater monitoring events for sampling per report.
2. MW-9 has met the 2 year criteria for PAHs per the NMWQCC standards, and has remained below.
3. Continue monthly LNAPL recovery in wells: MW-7 and MW-12
4. Continue monthly BTEX abatement in MW-1, MW-7, MW-8, MW-12 and MW-11
5. ***Follow requirements for proposing P&A of groundwater wells pursuant to 19.15.30.14 Subsection C NMAC Other Requirements***
6. Submit 2023 Annual Groundwater Monitoring Report by April 1, 2024.
7. Continue MDPE events for MW-7

2022 Annual Groundwater Monitoring Report

Chevron Grayburg 6-Inch Section 6 (Historical)
Plains SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637
Incident ID #: nAPP2108849308

Plains Pipeline, L.P.

March 21, 2023

→ **The Power of Commitment**

Contents

Table index

Figure index

Appendices

1. Introduction

GHD Services Inc. (GHD), on behalf of Plains Pipeline, L.P. (Plains) submits this *2022 Annual Groundwater Monitoring Report* in compliance with New Mexico Oil Conservation Division requirements. This report provides the quarterly results of groundwater sampling events and remediation activities completed at Chevron Grayburg 6-Inch Sec. 6 (Historical [Site]) during 2022. Quarterly groundwater monitoring events were conducted on February 22, 2022, May 24 - 25, 2022, August 24 and September 13, 2022, and November 2 - 3, 2022.

1.1 Site Location History

The Site is located approximately 14 miles southwest of Lovington and in the NW ¼, NE ¼, Section 6, Township 18 South, Range 35 East in Lea County, New Mexico. The coordinates of this Site are 32.7811° N and 103.4925° W. The property affected by the release is owned by the State of New Mexico and is administered by the New Mexico State Land Office (NMSLO). The location of the Site is shown on Figure 1. A detailed map of the Site is provided on Figure 2.

A crude oil release occurred on October 8, 2010, due to an excavator striking a tee connected to the Chevron Grayburg 6-inch pipeline during line replacement. An Initial Release Notification and Corrective Action, Form C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) on October 8, 2010, and was assigned Remediation Permit (RP) 1RP-2637. A copy of the Release Notification and Corrective Action, Form C-141 is attached as Appendix A.

On October 22, 2010, project management and remediation responsibilities were assumed by Basin Environmental Service Technologies, LLC (Basin). In June 2012, four (4) monitoring wells (MW-1, MW-2, MW-3, and MW-4) were installed to delineate the extent and evaluate the contaminants of concern (COCs) in impacted groundwater. In March 2013, three (3) monitoring wells (MW-5, MW-6, and MW-7) were installed to further delineate the groundwater conditions. On October 1, 2016, GHD assumed Site groundwater project management and remediation responsibilities. Results of groundwater monitoring events and light non-aqueous phase liquid (LNAPL) recovery prior to October 1, 2016, were provided by Plains.

Currently, the Site has a network of fourteen (14) groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, and MW-14), which are monitored quarterly to evaluate the concentrations of contaminants of concern (COC) in impacted groundwater and evaluate the magnitude and extent of the LNAPL plume. All Site monitoring wells were installed with NMOCD approval. The COCs are benzene, toluene, ethylbenzene, and total xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAH), which includes benzo(a)pyrene, total naphthalene, and combined monomethylnapthalenes (1-methylnapthalenes and 2-methylnapthalenes). On November 13 and 16, 2017, GHD provided oversight to drilling and installation of seven (7) monitoring wells (MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, and MW-14) to further delineate the extent and evaluate the concentrations of COCs in impacted groundwater and delineate the magnitude and extent of the LNAPL plume. A detailed map of the Site with monitoring well locations depicted is provided on Figure 2.

2. Regulatory Framework

The NMOCD has regulatory jurisdiction over oil and gas production operations and remediation of spills of crude oil in the State of New Mexico. NMOCD Groundwater Delineation and Remediation guidelines require groundwater to be analyzed for potential contaminants as defined by the New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards as outlined in the New Mexico Administration Code 20.6.2.3103 Section A. The COCs in affected groundwater at the Site are BTEX and PAH. In this Report, groundwater analytical results for the main COCs

are compared to the NMWQCC standards. For PAH compounds not having a NMWQCC standard, the NMOCD requires a concentration of 0.001 milligram per Liter (mg/L) or less.

Table 1 NMWQCC Human Health Standards

Contaminants of Concern	Standards
Benzene	0.01 mg/L
Toluene	0.75 mg/L
Ethylbenzene	0.75 mg/L
Total Xylenes	0.62 mg/L
Benzo(a)pyrene	0.0002 mg/L
Total Naphthalene, 1-Monomethylnaphthalene, and 2-Monomethylnapthalene	0.03 mg/L

3. Groundwater Monitoring

3.1 Groundwater Monitoring Methodology

The Site's groundwater conditions were monitored quarterly during 2022. The four (4) monitoring well gauging, purging, and sampling events were conducted on February 22, 2022, May 24 - 25, 2022, August 24 and September 13, 2022, and November 2 - 3, 2022. Static fluid levels were gauged with an electronic oil-water interface probe to the nearest hundredth of a foot and recorded. Monitoring wells gauged with a measurable thickness (>0.01 foot [ft.]) of LNAPL were not purged or sampled. A summary of measured depths to groundwater, measured depths to LNAPL, LNAPL thickness, and calculated groundwater elevations are provided in Table 1. All non-disposable groundwater gauging equipment was washed with Alconox® and potable water; rinsed with potable water; and rinsed again with deionized water prior to gauging and between wells.

Hand-bailing, using clean disposable polyvinyl chloride (PVC) bailers, was used to purge groundwater from each well. The hand-bailing process continued until three (3) water column volumes of groundwater were removed.

After purging each monitoring well, a sample of groundwater from each respective monitoring well was collected via the PVC bailer. Laboratory-supplied containers were filled with groundwater directly from the PVC bailer. The collected samples were then labelled with corresponding well information and immediately placed on ice and chilled to a temperature of approximately 4 degrees Celsius (°C) (40 degrees Fahrenheit [°F]). Included in the cooler for quality assurance and quality control (QA/QC) were Duplicate and Trip Blank samples. Proper chain-of-custody documentation accompanied samples to Pace Analytical Laboratory in Mt. Juliet, Tennessee. Samples collected for each quarterly monitoring event were submitted for analysis of BTEX by Environmental Protection Agency (EPA) Method SW846-8021B.

During the fourth quarterly monitoring event, Site monitoring wells which had not previously met the criteria of two (2) consecutive years of PAH compounds below the NMWQCC standards and below 0.001 mg/L for PAH compounds with an undefined NMWQCC standard were analyzed for PAH by EPA Method SW846-8270C-SIM, as required by the NMOCD. Groundwater samples from two (2) monitoring wells (MW-8 and MW-9) were submitted for analysis of PAH.

Purge water recovered during the monitoring events was disposed of in the Site's above-ground storage tank (AST) pending disposal. Purge water was periodically transported off-site to and disposed of at a NMOCD-approved licensed disposal facility as directed by Plains. Disposal records are available upon request.

3.2 The Potentiometric Surface and Gradient

The direction of groundwater flow was generally west-southwest during the quarterly gauging events. The average gradient of the potentiometric surface during 2022 was 0.002 feet/foot (ft./ft.), which indicated an average increase of 0.001 ft./ft. between November 2021 and November 2022. Magnitudes and direction of these gradients are similar to those recorded during previous monitoring events. Measured depths to groundwater and calculated elevations of the potentiometric surface recorded during 2022 are provided in Table 1.

All monitoring wells measured exhibited net declines of the elevations of the potentiometric surface between November 2021 and November 2022. The annual evaluation of the potentiometric surface indicated groundwater elevations had declined an average of 1.10 ft. between November 2021 and November 2022. The changes in the groundwater gradients and levels may be attributed to seasonal weather fluctuations. Potentiometric surface maps for the quarterly monitoring events are depicted on Figure 3, Figure 4, Figure 5, and Figure 6. A summary of the Site groundwater gauging and elevation data collected from 2017 through 2022 is tabulated in Table 1.

3.3 Presence of Light Non-Aqueous Phase Liquids (LNAPL)

Measurable thicknesses of LNAPL were exhibited in monitoring wells MW-7 (6.38 ft., 2.81 ft., 0.62 ft., and 0.03 ft.) and well MW-12 (0.77 ft., 0.88 ft., 0.66 ft., and 0.13 ft.) during all quarterly monitoring events. The respective LNAPL thicknesses measured for the four (4) quarterly gauging events are provided in Table 1 and on Figure 7, Figure 8, Figure 9, and Figure 10.

3.4 Dissolve-Phase Hydrocarbons in Groundwater

All BTEX analytical results for the quarterly groundwater sampling events were compared to the NMWQCC Human Health Standard criteria. The analytical results for all Site monitoring wells for each respective quarterly sampling event are included in Table 2. Maps depicting analytical results are provided as Figure 7, Figure 8, Figure 9, and Figure 10.

3.4.1 First Quarter Summary

GHD conducted the first quarterly groundwater gauging, purging, and sampling event on February 22, 2022. Measurable thicknesses of LNAPL were gauged in monitoring wells MW-7 (6.38 ft.) and well MW-12 (0.77 ft.) during the event. Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-13, and MW-14. Approximately 141 gallons of groundwater were purged and disposed into the on-site AST. Analytical results indicated a benzene concentration greater than 0.01 mg/L in monitoring wells MW-1, MW-8, and MW-11. The analytical results indicated the toluene, ethylbenzene, and total xylene concentrations were less than the NMWQCC criteria for each respective sample. No field duplicate sample was collected during the event. A copy of the Certified Laboratory Analytical Report is attached as Appendix B.

3.4.2 Second Quarter Summary

GHD conducted the second quarterly groundwater gauging, purging, and sampling event on May 24 - 25, 2022. Measurable thicknesses of LNAPL were gauged in monitoring wells MW-7 (2.81 ft.) and MW-12 (0.88 ft.) during the event. Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-13, and MW-14. Approximately 134 gallons of groundwater were purged and disposed into the on-site AST. Analytical results indicated benzene concentrations greater than 0.01 mg/L in monitoring wells MW-1, MW-8, and MW-11. The analytical results indicated the toluene, ethylbenzene, and total xylenes concentrations were less than the NMWQCC criteria for each respective sample. No field duplicate sample was collected during the event. A copy of the Certified Laboratory Analytical Report is attached as Appendix B.

3.4.3 Third Quarter Summary

GHD conducted the third quarterly groundwater gauging, purging, and sampling event on August 24 - 25, 2022. Measurable thicknesses of LNAPL were gauged in monitoring wells MW-7 (0.62 ft.) and MW-12 (0.66 ft.) during the event. Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-13, and MW-14. Approximately 117.5 gallons of groundwater were purged and disposed into the on-site AST. On September 13, 2022, the Site monitoring wells were resampled due to the laboratory mishandling of the collected samples Chain-of-Custody, the samples being misplaced at the lab, and the hold time being exceeded. Analytical results indicated benzene concentrations greater than 0.01 mg/L in monitoring wells MW-1, MW-8, and MW-11. The analytical results indicated the toluene, ethylbenzene, and total xylenes concentrations were less than the NMWQCC criteria for each respective sample. No field duplicate sample was collected during the event. A copy of the Certified Laboratory Analytical Report is attached as Appendix B.

3.4.4 Fourth Quarter Summary

GHD conducted the fourth quarterly groundwater gauging, purging, and sampling event on November 2 - 3, 2022. Measurable thicknesses of LNAPL were measured in monitoring wells MW-7 (0.03 ft.) and MW-12 (0.13 ft.) during event. Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-13, and MW-14. Approximately 201.1 gallons of groundwater were purged and disposed into the on-site AST. Analytical results indicated benzene concentrations greater than 0.01 mg/L in monitoring wells MW-1, MW-3, MW-8, and MW-11. Analytical results indicated the toluene, ethylbenzene, and total xylenes concentrations were less than the NMWQCC criteria for each respective sample. Analytical results for the initial and field duplicate samples collected from MW-8 were not significantly different. A copy of the Certified Laboratory Analytical Report is attached as Appendix B.

Groundwater samples from MW-8 and MW-9 were also analyzed for PAH due to not having previously met the criteria of two (2) consecutive years of PAH concentrations being below the NMWQCC standards or a concentration 0.001 mg/L for PAH compounds with an undefined NMWQCC standard. Analytical results for MW-8 indicated an exceedance of naphthalene above Table 1 criteria. Analytical results for MW-9 indicated all PAH concentrations were below the Table 1 criteria and has met the two consecutive year requirement. A summary of PAH analytical results is provided in Table 3. A copy of the Certified Laboratory Analytical Report is attached as Appendix B.

4. Remediation Activities

In April 2022, GHD field personnel initiated monthly LNAPL abatement via hand bailing for monitoring wells MW-7 and MW-12 with approximately 5.2 gallons of LNAPL recovered for 2022.

During the second half of 2022, monthly BTEX abatement was initiated via hand bailing for monitoring wells MW-1, MW-7, MW-8, and MW-12 with approximately 66.4 gallons of groundwater recovered for 2022.

LNAPL and impacted groundwater recovery is conducted on a quarterly basis via mobile dual phase extraction (MDPE) conducted by Talon-LPE (Talon). Each MDPE event was conducted at monitoring well MW-7 for 12 hours. According to Talon, total recovery of liquid hydrocarbons collected during 2022 was approximately 52 gallons, total recovery of hydrocarbon vapor was equivalent to approximately 45.82 gallons, and total fluid recovery was approximately 97.82 gallons. All fluids recovered from the MDPE events were disposed of at a licensed disposal facility, and all hydrocarbon vapors were destroyed in a thermal oxidizer within the emissions limits established by the PI-7 Permit for the oxidizer unit.

5. Summary of Findings

Based on quarterly groundwater monitoring events and remedial activities performed in 2022, the following summary of findings is presented:

- Measurable LNAPL thicknesses were present on the groundwater of monitoring wells MW-7 and MW-12 during the monitoring events. The LNAPL thickness in MW-7 has decreased from 6.38 ft. in February to 0.03 ft. in November. The LNAPL thickness in MW-12 has decreased from 0.88 ft. in May to 0.13 in November.
- No monitoring wells were gauged dry throughout 2022.
- The groundwater flow direction was generally to the west-southwest during the quarterly events. The average gradient of the potentiometric surface during 2022 was 0.002 ft./ft.
- The potentiometric surface indicated groundwater elevations have declined an average of 1.10 ft. between November 2021 and November 2022. Fluctuations in the elevation of the potentiometric surface may be attributed to seasonal weather conditions.
- Twelve (12) of the Site's fourteen (14) monitoring wells were purged and sampled using a hand bailer for determination of the BTEX concentration during the monitoring events.
- Benzene concentrations exceeded the NMWQCC Human Health Standard for monitoring wells MW-1, MW-8, and MW-11 during the quarterly events.
- Toluene, ethylbenzene, and total xylene concentrations were less than the NMWQCC Human Health Standard for monitoring wells MW-1, MW-8, and MW-11 during the quarterly events.
- PAH analysis for monitoring well MW-8 indicated a concentration exceedance of naphthalene and PAH analysis for monitoring well MW-9 indicated no exceedances of PAH concentrations.
- Monthly LNAPL and BTEX abatement was conducted during 2022.
- Quarterly MDPE events were conducted at monitoring well MW-7 by Talon.

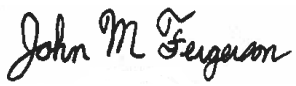
6. Conclusions and Recommendations

Based upon the data and findings presented in this Report, the following are recommended for 2023:

- Continue NMOCD-approved quarterly groundwater monitoring events for sampling of groundwater and analysis of BTEX by EPA Method SW846-8021B for all Site monitoring wells and annual sampling of groundwater for PAH analysis by EPA Method SW846-8270C-SIM on MW-7, MW-8, and MW-12 as applicable.
- Monitoring well MW-9 has met the 2 consecutive years of PAH compounds being below the EPA and NMWQCC standards.
- Continue monthly LNAPL abatement in monitoring wells MW-7 and MW-12.
- Continue monthly BTEX abatement in monitoring wells MW-1, MW-7, MW-8, and MW-12 and add MW-11 to list.
- Continue quarterly MDPE events conducted by Talon at monitoring well MW-7.
- Complete and deliver a Work Plan for plugging and abandoning of monitoring wells MW-1 and MW-2, due to both having <5 ft. of fluid columns, and the installation of replacement and new monitoring wells to evaluate the Site's groundwater conditions and maintain delineation.

All of which is Respectfully Submitted,

GHD



John Fergerson
Project Scientist

JT Murrey
Project Director

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet, BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (feet BTOC)
MW-1	3/15/17	3982.09	122.54	--	--	3859.55	128.63
MW-1	6/20/17	3982.09	122.34	--	--	3859.75	128.67
MW-1	9/18/17	3982.09	122.20	--	--	3859.89	130.71
MW-1	11/29/17	3982.09	122.20	--	--	3859.89	128.90
MW-1	1/24/18	3982.09	122.13	--	--	3859.96	--
MW-1	2/19/18	3982.09	122.11	--	--	3859.98	128.67
MW-1	3/9/18	3982.09	--	--	--	--	--
MW-1	5/11/18	3982.09	--	--	--	--	--
MW-1	5/23/18	3982.09	122.34	--	--	3859.75	128.79
MW-1	6/8/18	3982.09	--	--	--	--	--
MW-1	7/13/18	3982.09	--	--	--	--	--
MW-1	8/10/18	3982.09	--	--	--	--	--
MW-1	8/22/18	3982.09	122.55	--	--	3859.54	128.84
MW-1	10/19/18	3982.09	--	--	--	--	--
MW-1	11/9/18	3982.09	--	--	--	--	--
MW-1	11/14/18	3982.09	122.54	--	--	3859.55	--
MW-1	12/14/18	3982.09	--	--	--	--	--
MW-1	2/8/19	3982.09	122.77	--	--	3859.32	--
MW-1	2/25/19	3982.09	122.67	--	--	3859.42	128.84
MW-1	5/29/19	3982.09	122.86	--	--	3859.23	--
MW-1	6/13/19	3982.09	122.81	--	--	3859.28	--
MW-1	7/29/19	3982.09	122.95	--	--	3859.14	--
MW-1	10/16/19	3982.09	122.99	--	--	3859.10	--
MW-1	11/4/19	3982.09	--	--	--	--	--
MW-1	12/9/19	3982.09	--	--	--	--	--
MW-1	1/10/20	3982.09	--	--	--	--	--
MW-1	2/19/20	3982.09	--	--	--	--	--
MW-1	2/24/20	3982.09	123.07	--	--	3859.02	135.59
MW-1	3/13/20	3982.09	--	--	--	--	--
MW-1	4/29/20	3982.09	123.24	--	--	3858.85	--
MW-1	5/26/20	3982.09	123.14	--	--	3858.95	--
MW-1	6/16/20	3982.09	123.13	--	--	3858.96	--
MW-1	7/30/20	3982.09	123.14	--	--	3858.95	--
MW-1	8/26/20	3982.09	123.05	--	--	3859.04	--
MW-1	9/17/20	3982.09	123.18	--	--	3858.91	128.90
MW-1	10/21/20	3982.09	123.20	--	--	3858.89	--
MW-1	11/4/20	3982.09	123.26	--	--	3858.83	--
MW-1	12/9/20	3982.09	123.22	--	--	3858.87	--
MW-1	1/28/21	3982.09	123.31	--	--	3858.78	--
MW-1	2/25/21	3982.09	123.33	--	--	3858.76	128.97
MW-1	3/24/21	3982.09	123.33	--	--	3858.76	--
MW-1	4/30/21	3982.09	123.33	--	--	3858.76	--
MW-1	5/11/21	3982.09	123.39	--	--	3858.70	--
MW-1	6/28/21	3982.09	123.33	--	--	3858.76	--
MW-1	7/27/21	3982.09	123.26	--	--	3858.83	--
MW-1	8/24/21	3982.09	123.25	--	--	3858.84	--
MW-1	9/30/21	3982.09	123.40	--	--	3858.69	128.97
MW-1	10/28/21	3982.09	123.45	--	--	3858.64	128.97
MW-1	11/16/21	3982.09	122.49	--	--	3859.60	128.97
MW-1	2/1/22	3982.09	123.78	--	--	3858.31	128.97
MW-1	2/22/22	3982.09	123.89	--	--	3858.20	128.91
MW-1	3/16/22	3982.09	123.91	--	--	3858.18	128.91
MW-1	4/11/22	3982.09	123.99	--	--	3858.10	128.91
MW-1	5/24/22	3982.09	124.16	--	--	3857.93	128.91
MW-1	6/15/22	3982.09	124.27	--	--	3857.82	128.91
MW-1	7/28/22	3982.09	124.25	--	--	3857.84	128.91
MW-1	8/24/22	3982.09	124.39	--	--	3857.70	128.91
MW-1	11/2/22	3982.09	124.55	--	--	3857.54	128.91
MW-2	3/15/17	3981.21	121.62	--	--	3859.59	127.17
MW-2	6/20/17	3981.21	121.45	--	--	3859.76	127.25
MW-2	9/18/17	3981.21	121.25	--	--	3859.96	127.19
MW-2	11/29/17	3981.21	121.29	--	--	3859.92	127.19
MW-2	1/24/18	3981.21	121.22	--	--	3859.99	--
MW-2	2/19/18	3981.21	121.20	--	--	3860.01	127.24
MW-2	3/9/18	3981.21	--	--	--	--	--
MW-2	5/11/18	3981.21	--	--	--	--	--
MW-2	5/23/18	3981.21	121.43	--	--	3859.78	127.31
MW-2	8/10/18	3981.21	--	--	--	--	--
MW-2	8/22/18	3981.21	121.63	--	--	3859.58	127.22
MW-2	11/9/18	3981.21	--	--	--	--	--
MW-2	11/14/18	3981.21	121.60	--	--	3859.61	--
MW-2	12/14/18	3981.21	--	--	--	--	--
MW-2	2/8/19	3981.21	121.87	--	--	3859.34	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet, BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (feet BTOC)
MW-2	2/25/19	3981.21	121.77	--	--	3859.44	127.22
MW-2	5/29/19	3981.21	121.96	--	--	3859.25	--
MW-2	7/11/19	3981.21	--	--	--	--	--
MW-2	7/29/19	3981.21	122.04	--	--	3859.17	--
MW-2	10/16/19	3981.21	122.06	--	--	3859.15	--
MW-2	2/24/20	3981.21	122.19	--	--	3859.02	127.41
MW-2	4/29/20	3981.21	122.35	--	--	3858.86	--
MW-2	5/26/20	3981.21	122.22	--	--	3858.99	--
MW-2	6/16/20	3981.21	123.50	--	--	3857.71	--
MW-2	7/30/20	3981.21	122.23	--	--	3858.98	--
MW-2	8/26/20	3981.21	123.52	--	--	3857.69	--
MW-2	9/17/20	3981.21	122.29	--	--	3858.92	127.38
MW-2	10/21/20	3981.21	122.27	--	--	3858.94	--
MW-2	11/4/20	3981.21	122.35	--	--	3858.86	--
MW-2	12/9/20	3981.21	122.29	--	--	3858.92	--
MW-2	1/28/21	3981.21	122.38	--	--	3858.83	--
MW-2	2/25/21	3981.21	122.44	--	--	3858.77	127.65
MW-2	3/24/21	3981.21	122.43	--	--	3858.78	--
MW-2	4/30/21	3981.21	122.45	--	--	3858.76	--
MW-2	5/11/21	3981.21	122.46	--	--	3858.75	--
MW-2	6/28/21	3981.21	122.41	--	--	3858.80	--
MW-2	7/27/21	3981.21	122.35	--	--	3858.86	--
MW-2	8/24/21	3981.21	122.35	--	--	3858.86	--
MW-2	9/30/21	3981.21	122.49	--	--	3858.72	127.65
MW-2	10/28/21	3981.21	122.54	--	--	3858.67	127.65
MW-2	11/16/21	3981.21	122.54	--	--	3858.67	127.65
MW-2	2/1/22	3981.21	122.86	--	--	3858.35	127.65
MW-2	2/22/22	3981.21	122.95	--	--	3858.26	127.65
MW-2	3/16/22	3981.21	123.02	--	--	3858.19	127.65
MW-2	4/11/22	3981.21	123.12	--	--	3858.09	127.65
MW-2	5/24/22	3981.21	123.21	--	--	3858.00	127.65
MW-2	6/15/22	3981.21	123.35	--	--	3857.86	127.65
MW-2	7/28/22	3981.21	123.37	--	--	3857.84	127.65
MW-2	8/24/22	3981.21	123.52	--	--	3857.69	127.65
MW-2	11/2/22	3981.21	123.66	--	--	3857.55	127.65
MW-3	3/15/17	3982.31	122.79	--	--	3859.52	131.69
MW-3	6/20/17	3982.31	122.61	--	--	3859.70	131.66
MW-3	9/18/17	3982.31	122.45	--	--	3859.86	133.46
MW-3	11/29/17	3982.31	122.47	--	--	3859.84	131.61
MW-3	1/24/18	3982.31	122.39	--	--	3859.92	--
MW-3	2/19/18	3982.31	122.43	--	--	3859.88	131.56
MW-3	3/9/18	3982.31	--	--	--	--	--
MW-3	5/11/18	3982.31	--	--	--	--	--
MW-3	5/23/18	3982.31	122.61	--	--	3859.70	131.61
MW-3	8/10/18	3982.31	--	--	--	--	--
MW-3	8/22/18	3982.31	122.79	--	--	3859.52	131.54
MW-3	9/14/18	3982.31	--	--	--	--	--
MW-3	11/9/18	3982.31	--	--	--	--	--
MW-3	11/14/18	3982.31	122.77	--	--	3859.54	--
MW-3	12/14/18	3982.31	--	--	--	--	--
MW-3	1/11/19	3982.31	--	--	--	--	--
MW-3	2/8/19	3982.31	123.04	--	--	3859.27	--
MW-3	2/25/19	3982.31	122.95	--	--	3859.36	131.54
MW-3	5/29/19	3982.31	123.10	--	--	3859.21	--
MW-3	6/13/19	3982.31	123.12	--	--	3859.19	--
MW-3	7/11/19	3982.31	--	--	--	--	--
MW-3	7/29/19	3982.31	123.21	--	--	3859.10	--
MW-3	9/13/19	3982.31	--	--	--	--	--
MW-3	10/16/19	3982.31	123.27	--	--	3859.04	--
MW-3	11/4/19	3982.31	--	--	--	--	--
MW-3	12/9/19	3982.31	--	--	--	--	--
MW-3	1/10/20	3982.31	--	--	--	--	--
MW-3	2/19/20	3982.31	--	--	--	--	--
MW-3	2/24/20	3982.31	123.39	--	--	3858.92	131.76
MW-3	3/13/20	3982.31	--	--	--	--	--
MW-3	4/29/20	3982.31	123.51	--	--	3858.80	--
MW-3	5/26/20	3982.31	123.40	--	--	3858.91	--
MW-3	6/16/20	3982.31	123.40	--	--	3858.91	--
MW-3	7/30/20	3982.31	123.40	--	--	3858.91	--
MW-3	8/26/20	3982.31	123.42	--	--	3858.89	--
MW-3	9/15/20	3982.31	123.44	--	--	3858.87	--
MW-3	9/15/20	3982.31	123.47	--	--	3858.84	--
MW-3	9/17/20	3982.31	123.45	--	--	3858.86	131.45

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet, BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (feet BTOC)
MW-3	10/21/20	3982.31	123.46	--	--	3858.85	--
MW-3	11/4/20	3982.31	123.57	--	--	3858.74	--
MW-3	12/9/20	3982.31	123.50	--	--	3858.81	--
MW-3	1/28/21	3982.31	123.63	--	--	3858.68	--
MW-3	2/25/21	3982.31	123.63	--	--	3858.68	131.47
MW-3	3/24/21	3982.31	123.59	--	--	3858.72	--
MW-3	4/30/21	3982.31	123.61	--	--	3858.70	--
MW-3	5/11/21	3982.31	123.66	--	--	3858.65	--
MW-3	6/28/21	3982.31	123.60	--	--	3858.71	--
MW-3	7/27/21	3982.31	123.52	--	--	3858.79	--
MW-3	8/24/21	3982.31	123.51	--	--	3858.80	--
MW-3	9/30/21	3982.31	123.67	--	--	3858.64	131.47
MW-3	10/28/21	3982.31	123.72	--	--	3858.59	131.47
MW-3	11/16/21	3982.31	123.70	--	--	3858.61	131.47
MW-3	2/1/22	3982.31	124.02	--	--	3858.29	131.47
MW-3	2/22/22	3982.31	124.17	--	--	3858.14	131.39
MW-3	3/16/22	3982.31	124.18	--	--	3858.13	131.39
MW-3	4/11/22	3982.31	124.25	--	--	3858.06	131.39
MW-3	5/24/22	3982.31	124.43	--	--	3857.88	131.39
MW-3	6/15/22	3982.31	124.52	--	--	3857.79	131.39
MW-3	7/28/22	3982.31	124.52	--	--	3857.79	131.39
MW-3	8/24/22	3982.31	124.68	--	--	3857.63	131.39
MW-3	11/2/22	3982.31	124.82	--	--	3857.49	131.39
MW-4	3/15/17	3982.48	122.84	--	--	3859.64	135.32
MW-4	6/20/17	3982.48	122.71	--	--	3859.77	135.31
MW-4	9/18/17	3982.48	122.57	--	--	3859.91	137.58
MW-4	11/29/17	3982.48	122.63	--	--	3859.85	136.05
MW-4	1/24/18	3982.48	122.50	--	--	3859.98	--
MW-4	2/19/18	3982.48	122.49	--	--	3859.99	135.24
MW-4	5/23/18	3982.48	122.71	--	--	3859.77	135.39
MW-4	8/22/18	3982.48	122.88	--	--	3859.60	135.41
MW-4	11/14/18	3982.48	122.88	--	--	3859.60	--
MW-4	2/25/19	3982.48	123.04	--	--	3859.44	135.41
MW-4	5/29/19	3982.48	123.24	--	--	3859.24	--
MW-4	7/29/19	3982.48	123.30	--	--	3859.18	--
MW-4	10/16/19	3982.48	123.36	--	--	3859.12	--
MW-4	2/24/20	3982.48	123.45	--	--	3859.03	135.59
MW-4	4/29/20	3982.48	123.70	--	--	3858.78	--
MW-4	5/26/20	3982.48	123.50	--	--	3858.98	--
MW-4	6/16/20	3982.48	122.23	--	--	3860.25	--
MW-4	7/30/20	3982.48	123.53	--	--	3858.95	--
MW-4	8/26/20	3982.48	122.24	--	--	3860.24	--
MW-4	9/17/20	3982.48	123.57	--	--	3858.91	135.65
MW-4	10/21/20	3982.48	123.57	--	--	3858.91	--
MW-4	11/4/20	3982.48	123.60	--	--	3858.88	--
MW-4	12/9/20	3982.48	123.60	--	--	3858.88	--
MW-4	1/28/21	3982.48	123.69	--	--	3858.79	--
MW-4	2/25/21	3982.48	123.71	--	--	3858.77	135.71
MW-4	3/24/21	3982.48	123.70	--	--	3858.78	--
MW-4	4/30/21	3982.48	123.70	--	--	3858.78	--
MW-4	5/11/21	3982.48	123.77	--	--	3858.71	--
MW-4	6/28/21	3982.48	123.71	--	--	3858.77	--
MW-4	7/27/21	3982.48	123.64	--	--	3858.84	--
MW-4	8/24/21	3982.48	123.64	--	--	3858.84	--
MW-4	9/30/21	3982.48	123.77	--	--	3858.71	135.71
MW-4	10/28/21	3982.48	123.81	--	--	3858.67	135.71
MW-4	11/16/21	3982.48	123.82	--	--	3858.66	135.71
MW-4	2/1/22	3982.48	124.12	--	--	3858.36	135.71
MW-4	2/22/22	3982.48	124.13	--	--	3858.35	135.60
MW-4	3/16/22	3982.48	124.25	--	--	3858.23	135.60
MW-4	4/11/22	3982.48	124.39	--	--	3858.09	135.60
MW-4	5/24/22	3982.48	124.43	--	--	3858.05	135.60
MW-4	6/15/22	3982.48	124.54	--	--	3857.94	135.60
MW-4	7/28/22	3982.48	124.59	--	--	3857.89	135.60
MW-4	8/24/22	3982.48	124.74	--	--	3857.74	135.60
MW-4	11/2/22	3982.48	124.89	--	--	3857.59	135.60
MW-5	3/15/17	3981.45	121.85	--	--	3859.60	133.50
MW-5	6/20/17	3981.45	121.70	--	--	3859.75	136.34
MW-5	9/18/17	3981.45	121.53	--	--	3859.92	137.57
MW-5	11/29/17	3981.45	121.60	--	--	3859.85	136.36
MW-5	1/24/18	3981.45	121.50	--	--	3859.95	--
MW-5	2/19/18	3981.45	121.45	--	--	3860.00	136.33
MW-5	5/23/18	3981.45	121.68	--	--	3859.77	136.48

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet, BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (feet BTOC)
MW-5	6/8/18	3981.45	--	--	--	--	--
MW-5	7/13/18	3981.45	--	--	--	--	--
MW-5	8/10/18	3981.45	--	--	--	--	--
MW-5	8/22/18	3981.45	121.87	--	--	3859.58	136.37
MW-5	10/19/18	3981.45	--	--	--	--	--
MW-5	11/14/18	3981.45	121.86	--	--	3859.59	--
MW-5	2/25/19	3981.45	122.03	--	--	3859.42	136.37
MW-5	5/29/19	3981.45	122.21	--	--	3859.24	--
MW-5	7/29/19	3981.45	122.29	--	--	3859.16	--
MW-5	10/16/19	3981.45	122.35	--	--	3859.10	--
MW-5	2/24/20	3981.45	122.44	--	--	3859.01	136.32
MW-5	4/29/20	3981.45	122.61	--	--	3858.84	--
MW-5	5/26/20	3981.45	122.50	--	--	3858.95	--
MW-5	6/16/20	3981.45	122.47	--	--	3858.98	--
MW-5	7/30/20	3981.45	122.48	--	--	3858.97	--
MW-5	8/26/20	3981.45	122.50	--	--	3858.95	--
MW-5	9/17/20	3981.45	122.55	--	--	3858.90	136.29
MW-5	10/21/20	3981.45	122.55	--	--	3858.90	--
MW-5	11/4/20	3981.45	122.63	--	--	3858.82	--
MW-5	12/9/20	3981.45	122.58	--	--	3858.87	--
MW-5	1/28/21	3981.45	122.66	--	--	3858.79	--
MW-5	2/25/21	3981.45	122.75	--	--	3858.70	136.42
MW-5	3/24/21	3981.45	122.69	--	--	3858.76	--
MW-5	4/30/21	3981.45	122.72	--	--	3858.73	--
MW-5	5/11/21	3981.45	127.75	--	--	3853.70	--
MW-5	6/28/21	3981.45	122.69	--	--	3858.76	--
MW-5	7/27/21	3981.45	122.60	--	--	3858.85	--
MW-5	8/24/21	3981.45	122.61	--	--	3858.84	--
MW-5	9/30/21	3981.45	122.74	--	--	3858.71	136.42
MW-5	10/28/21	3981.45	122.79	--	--	3858.66	136.42
MW-5	11/16/21	3981.45	122.80	--	--	3858.65	136.42
MW-5	2/1/22	3981.45	123.11	--	--	3858.34	136.42
MW-5	2/22/22	3981.45	123.22	--	--	3858.23	136.31
MW-5	3/16/22	3981.45	123.25	--	--	3858.20	136.31
MW-5	4/11/22	3981.45	123.37	--	--	3858.08	136.31
MW-5	5/24/22	3981.45	123.46	--	--	3857.99	136.31
MW-5	6/15/22	3981.45	123.53	--	--	3857.92	136.31
MW-5	7/28/22	3981.45	123.58	--	--	3857.87	136.31
MW-5	8/24/22	3981.45	123.73	--	--	3857.72	136.31
MW-5	11/2/22	3981.45	123.80	--	--	3857.65	136.31
MW-6	3/15/17	3982.27	122.76	--	--	3859.51	133.75
MW-6	6/20/17	3982.27	122.60	--	--	3859.67	140.50
MW-6	9/18/17	3982.27	122.44	--	--	3859.83	141.21
MW-6	11/29/17	3982.27	122.49	--	--	3859.78	140.38
MW-6	1/24/18	3982.27	122.40	--	--	3859.87	--
MW-6	2/19/18	3982.27	122.38	--	--	3859.89	140.32
MW-6	3/9/18	3982.27	--	--	--	--	--
MW-6	4/13/18	3982.27	--	--	--	--	--
MW-6	5/11/18	3982.27	--	--	--	--	--
MW-6	5/23/18	3982.27	122.61	--	--	3859.66	140.31
MW-6	6/8/18	3982.27	--	--	--	--	--
MW-6	7/13/18	3982.27	--	--	--	--	--
MW-6	8/10/18	3982.27	--	--	--	--	--
MW-6	8/22/18	3982.27	122.81	--	--	3859.46	140.19
MW-6	9/14/18	3982.27	--	--	--	--	--
MW-6	10/19/18	3982.27	--	--	--	--	--
MW-6	11/9/18	3982.27	--	--	--	--	--
MW-6	11/14/18	3982.27	122.77	--	--	3859.50	--
MW-6	12/14/18	3982.27	--	--	--	--	--
MW-6	2/8/19	3982.27	123.07	--	--	3859.20	--
MW-6	2/25/19	3982.27	122.95	--	--	3859.32	140.19
MW-6	5/29/19	3982.27	123.11	--	--	3859.16	--
MW-6	7/29/19	3982.27	123.21	--	--	3859.06	--
MW-6	10/16/19	3982.27	123.26	--	--	3859.01	--
MW-6	11/4/19	3982.27	--	--	--	--	--
MW-6	12/9/19	3982.27	--	--	--	--	--
MW-6	1/10/20	3982.27	--	--	--	--	--
MW-6	2/19/20	3982.27	--	--	--	--	--
MW-6	2/24/20	3982.27	123.40	--	--	3858.87	139.87
MW-6	3/13/20	3982.27	--	--	--	--	--
MW-6	4/29/20	3982.27	123.51	--	--	3858.76	--
MW-6	5/26/20	3982.27	123.41	--	--	3858.86	--
MW-6	6/16/20	3982.27	123.41	--	--	3858.86	--

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Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet, BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (feet BTOC)
MW-6	7/30/20	3982.27	123.41	--	--	3858.86	--
MW-6	8/26/20	3982.27	123.44	--	--	3858.83	--
MW-6	9/17/20	3982.27	123.44	--	--	3858.83	139.72
MW-6	10/21/20	3982.27	123.46	--	--	3858.81	--
MW-6	11/4/20	3982.27	123.50	--	--	3858.77	--
MW-6	12/9/20	3982.27	123.50	--	--	3858.77	--
MW-6	1/28/21	3982.27	123.56	--	--	3858.71	--
MW-6	2/25/21	3982.27	123.62	--	--	3858.65	139.70
MW-6	3/24/21	3982.27	123.60	--	--	3858.67	--
MW-6	4/30/21	3982.27	123.63	--	--	3858.64	--
MW-6	5/11/21	3982.27	123.66	--	--	3858.61	--
MW-6	6/28/21	3982.27	123.62	--	--	3858.65	--
MW-6	7/27/21	3982.27	123.55	--	--	3858.72	--
MW-6	8/24/21	3982.27	123.56	--	--	3858.71	--
MW-6	9/30/21	3982.27	123.65	--	--	3858.62	139.70
MW-6	10/28/21	3982.27	123.70	--	--	3858.57	139.70
MW-6	11/16/21	3982.27	123.71	--	--	3858.56	139.70
MW-6	2/1/22	3982.27	124.01	--	--	3858.26	139.70
MW-6	2/22/22	3982.27	124.12	--	--	3858.15	139.61
MW-6	3/16/22	3982.27	124.16	--	--	3858.11	139.61
MW-6	4/11/22	3982.27	124.28	--	--	3857.99	139.61
MW-6	5/24/22	3982.27	124.38	--	--	3857.89	139.61
MW-6	6/15/22	3982.27	124.47	--	--	3857.80	139.61
MW-6	7/28/22	3982.27	124.52	--	--	3857.75	139.61
MW-6	8/24/22	3982.27	124.67	--	--	3857.60	139.61
MW-6	11/2/22	3982.27	124.82	--	--	3857.45	139.61
MW-7	3/15/17	3981.71	126.86	121.42	5.44	3859.26	133.45
MW-7	6/20/17	3981.71	126.57	121.28	5.29	3859.42	133.45
MW-7	9/18/17	3981.71	127.44	120.47	6.97	3859.92	133.45
MW-7	11/29/17	3981.71	127.63	120.95	6.68	3859.49	133.45
MW-7	1/24/18	3981.71	127.55	120.84	6.71	3859.60	--
MW-7	2/19/18	3981.71	127.66	120.82	6.84	3859.59	--
MW-7	3/9/18	3981.71	--	--	--	--	--
MW-7	4/13/18	3981.71	--	--	--	--	--
MW-7	5/11/18	3981.71	--	--	--	--	--
MW-7	5/23/18	3981.71	125.05	121.53	3.52	3859.51	--
MW-7	6/8/18	3981.71	--	--	--	--	--
MW-7	7/11/18	3981.71	--	--	--	--	--
MW-7	7/13/18	3981.71	122.46	122.16	0.30	3859.49	--
MW-7	8/22/18	3981.71	125.87	121.61	4.26	3859.29	--
MW-7	9/14/18	3981.71	--	--	--	--	--
MW-7	10/19/18	3981.71	126.58	121.58	5.00	3859.18	--
MW-7	11/9/18	3981.71	125.74	121.70	4.04	3859.24	--
MW-7	11/14/18	3981.71	124.13	121.93	2.20	3859.36	--
MW-7	12/14/18	3981.71	126.34	121.65	4.69	3859.17	--
MW-7	1/11/19	3981.71	126.55	121.68	4.87	3859.10	--
MW-7	2/8/19	3981.71	126.26	121.75	4.51	3859.10	--
MW-7	2/25/19	3981.71	126.31	121.65	4.66	3859.17	--
MW-7	3/8/19	3981.71	127.15	121.65	5.50	3859.02	--
MW-7	5/21/19	3981.71	128.14	121.65	6.49	3858.83	--
MW-7	5/29/19	3981.71	126.52	121.93	4.59	3858.91	--
MW-7	6/13/19	3981.71	127.41	121.75	5.66	3858.88	--
MW-7	7/11/19	3981.71	127.59	121.78	5.81	3858.83	--
MW-7	7/29/19	3981.71	127.18	121.88	5.30	3858.82	--
MW-7	8/9/19	3981.71	126.36	122.09	4.27	3859.62	--
MW-7	9/13/19	3981.71	127.73	121.86	5.87	3859.17	--
MW-7	10/16/19	3981.71	127.76	121.85	5.91	3858.74	--
MW-7	11/4/19	3981.71	128.30	121.90	6.40	3858.59	--
MW-7	12/9/19	3981.71	123.44	122.80	0.64	3858.82	--
MW-7	1/10/20	3981.71	127.08	122.18	4.90	3858.86	--
MW-7	2/19/20	3981.71	127.79	121.99	5.80	3858.93	--
MW-7	2/24/20	3981.71	125.47	122.38	3.09	3858.91	--
MW-7	3/13/20	3981.71	122.86	122.86	0.00	3858.85	--
MW-7	4/29/20	3981.71	127.80	122.15	5.65	3858.79	--
MW-7	5/26/20	3981.71	127.53	122.07	5.46	3858.89	--
MW-7	6/11/20	3981.71	128.02	122.01	6.01	3858.88	--
MW-7	6/12/20	3981.71	122.85	--	--	3858.86	--
MW-7	6/16/20	3981.71	123.11	122.81	0.30	3858.86	--
MW-7	7/30/20	3981.71	127.77	122.00	5.77	3858.92	--
MW-7	8/26/20	3981.71	127.84	122.01	5.83	3858.59	--
MW-7	9/15/20	3981.71	127.09	122.06	5.03	3858.69	--
MW-7	9/15/20	3981.71	122.78	--	--	3858.93	--
MW-7	9/17/20	3981.71	122.92	122.89	0.03	3858.81	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet, BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (feet BTOC)
MW-7	10/21/20	3981.71	127.30	122.17	5.13	3858.57	--
MW-7	11/4/20	3981.71	126.64	122.35	4.29	3858.54	--
MW-7	12/9/20	3981.71	128.37	122.07	6.30	3858.44	--
MW-7	1/28/21	3981.71	128.70	122.12	6.58	3858.34	--
MW-7	2/25/21	3981.71	128.58	122.22	6.36	3858.28	133.11
MW-7	3/24/21	3981.71	127.19	122.33	4.86	3858.46	--
MW-7	4/30/21	3981.71	128.65	122.11	6.54	3858.36	--
MW-7	5/11/21	3981.71	128.84	122.13	6.71	3858.31	--
MW-7	6/28/21	3981.71	128.90	122.04	6.86	3858.37	--
MW-7	7/27/21	3981.71	128.67	121.99	6.68	3858.45	--
MW-7	8/24/21	3981.71	128.96	121.95	7.01	3858.43	--
MW-7	9/30/21	3981.71	127.92	122.30	5.62	3858.34	133.11
MW-7	10/28/21	3981.71	127.97	122.35	5.62	3858.29	133.11
MW-7	11/16/21	3981.71	129.15	122.16	6.99	3858.22	133.11
MW-7	2/1/22	3981.71	129.08	122.55	6.53	3857.92	133.11
MW-7	2/22/22	3981.71	129.05	122.67	6.38	3857.83	133.02
MW-7	3/16/22	3981.71	129.33	122.71	6.62	3857.74	133.02
MW-7	4/11/22	3981.71	126.96	123.25	3.71	3857.76	133.02
MW-7	5/24/22	3981.71	126.35	123.54	2.81	3857.64	133.02
MW-7	6/15/22	3981.71	124.99	123.76	1.23	3857.72	133.02
MW-7	7/28/22	3981.71	124.40	123.97	0.43	3857.66	133.02
MW-7	8/24/22	3981.71	124.72	124.10	0.62	3857.49	133.02
MW-7	10/6/22	3981.71	124.39	124.25	0.14	3857.43	133.02
MW-7	10/6/22	3981.71	124.98	--	0.00	3856.73	133.02
MW-7	11/2/22	3981.71	124.21	124.18	0.03	3857.52	133.02
MW-7	11/2/22	3981.71	125.06	--	0.00	3856.65	133.02
MW-7	11/30/22	3981.71	124.62	124.51	0.11	3857.18	133.02
MW-7	11/30/22	3981.71	124.57	124.56	0.01	3857.15	133.02
MW-8	11/29/17	3981.20	121.46	--	--	3859.74	136.79
MW-8	1/24/18	3981.20	121.34	--	--	3859.86	--
MW-8	2/19/18	3981.20	121.34	--	--	3859.86	136.63
MW-8	3/9/18	3981.20	--	--	--	--	--
MW-8	4/13/18	3981.20	--	--	--	--	--
MW-8	5/11/18	3981.20	--	--	--	--	--
MW-8	5/23/18	3981.20	121.61	--	--	3859.59	136.80
MW-8	6/8/18	3981.20	--	--	--	--	--
MW-8	7/13/18	3981.20	--	--	--	--	--
MW-8	8/10/18	3981.20	--	--	--	--	--
MW-8	8/22/18	3981.20	121.77	--	--	3859.43	136.78
MW-8	9/14/18	3981.20	--	--	--	--	--
MW-8	11/9/18	3981.20	--	--	--	--	--
MW-8	11/14/18	3981.20	121.78	--	--	3859.42	--
MW-8	12/14/18	3981.20	--	--	--	--	--
MW-8	1/11/19	3981.20	--	--	--	--	--
MW-8	2/8/19	3981.20	122.02	--	--	3859.18	--
MW-8	2/25/19	3981.20	121.94	--	--	3859.26	136.78
MW-8	3/8/19	3981.20	122.00	--	--	3859.20	--
MW-8	5/29/19	3981.20	122.10	--	--	3859.10	--
MW-8	6/13/19	3981.20	122.12	--	--	3859.08	--
MW-8	6/13/19	3981.20	--	--	--	--	--
MW-8	7/29/19	3981.20	122.20	--	--	3859.00	--
MW-8	9/13/19	3981.20	--	--	--	--	--
MW-8	10/16/19	3981.20	122.24	--	--	3858.96	--
MW-8	11/4/19	3981.20	--	--	--	--	--
MW-8	12/9/19	3981.20	--	--	--	--	--
MW-8	1/10/20	3981.20	--	--	--	--	--
MW-8	2/19/20	3981.20	--	--	--	--	--
MW-8	2/24/20	3981.20	122.34	--	--	3858.86	136.44
MW-8	3/13/20	3981.20	--	--	--	--	--
MW-8	4/29/20	3981.20	122.49	--	--	3858.71	--
MW-8	5/26/20	3981.20	122.39	--	--	3858.81	--
MW-8	6/16/20	3981.20	122.40	--	--	3858.80	--
MW-8	7/30/20	3981.20	122.39	--	--	3858.81	--
MW-8	8/26/20	3981.20	122.42	--	--	3858.78	--
MW-8	9/15/20	3981.20	122.42	--	--	3858.78	--
MW-8	9/15/20	3981.20	122.47	--	--	3858.73	--
MW-8	9/17/20	3981.20	122.40	--	--	3858.80	136.40
MW-8	10/21/20	3981.20	122.45	--	--	3858.75	--
MW-8	11/4/20	3981.20	122.51	--	--	3858.69	--
MW-8	12/9/20	3981.20	122.51	--	--	3858.69	--
MW-8	1/28/21	3981.20	122.57	--	--	3858.63	--
MW-8	2/25/21	3981.20	122.60	--	--	3858.60	136.44
MW-8	3/24/21	3981.20	122.58	--	--	3858.62	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet, BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (feet BTOC)
MW-8	4/30/21	3981.20	122.58	--	--	3858.62	--
MW-8	5/11/21	3981.20	122.63	--	--	3858.57	--
MW-8	6/28/21	3981.20	122.55	--	--	3858.65	--
MW-8	7/27/21	3981.20	122.50	--	--	3858.70	--
MW-8	8/24/21	3981.20	122.50	--	--	3858.70	--
MW-8	9/30/21	3981.20	122.66	--	--	3858.54	136.44
MW-8	10/28/21	3981.20	122.71	--	--	3858.49	136.44
MW-8	11/16/21	3981.20	122.73	--	--	3858.47	136.44
MW-8	2/1/22	3981.20	123.08	--	--	3858.12	136.44
MW-8	2/22/22	3981.20	123.14	--	--	3858.06	136.21
MW-8	3/16/22	3981.20	123.22	--	--	3857.98	136.21
MW-8	4/11/22	3981.20	123.28	--	--	3857.92	136.21
MW-8	5/24/22	3981.20	123.50	--	--	3857.70	136.21
MW-8	6/15/22	3981.20	123.51	--	--	3857.69	136.21
MW-8	7/28/22	3981.20	123.57	--	--	3857.63	136.21
MW-8	8/24/22	3981.20	123.72	--	--	3857.48	136.21
MW-8	11/2/22	3981.20	123.87	--	--	3857.33	136.21
MW-9	11/29/17	3980.44	120.65	--	--	3859.79	140.86
MW-9	1/24/18	3980.44	120.55	--	--	3859.89	--
MW-9	2/19/18	3980.44	120.52	--	--	3859.92	140.76
MW-9	5/23/18	3980.44	120.78	--	--	3859.66	140.83
MW-9	8/22/18	3980.44	120.98	--	--	3859.46	140.61
MW-9	11/14/18	3980.44	120.96	--	--	3859.48	--
MW-9	2/25/19	3980.44	121.14	--	--	3859.30	140.61
MW-9	5/29/19	3980.44	121.34	--	--	3859.10	--
MW-9	6/13/19	3980.44	121.30	--	--	3859.14	--
MW-9	6/13/19	3980.44	--	--	--	--	--
MW-9	7/29/19	3980.44	121.39	--	--	3859.05	--
MW-9	10/16/19	3980.44	121.46	--	--	3858.98	--
MW-9	11/4/19	3980.44	--	--	--	--	--
MW-9	12/9/19	3980.44	--	--	--	--	--
MW-9	1/10/20	3980.44	--	--	--	--	--
MW-9	2/19/20	3980.44	--	--	--	--	--
MW-9	2/24/20	3980.44	121.56	--	--	3858.88	140.78
MW-9	3/13/20	3980.44	--	--	--	--	--
MW-9	4/29/20	3980.44	121.69	--	--	3858.75	--
MW-9	5/26/20	3980.44	121.59	--	--	3858.85	--
MW-9	6/16/20	3980.44	121.57	--	--	3858.87	--
MW-9	7/30/20	3980.44	121.55	--	--	3858.89	--
MW-9	8/26/20	3980.44	121.60	--	--	3858.84	--
MW-9	9/17/20	3980.44	121.64	--	--	3858.80	140.51
MW-9	10/21/20	3980.44	121.63	--	--	3858.81	--
MW-9	11/4/20	3980.44	121.70	--	--	3858.74	--
MW-9	12/9/20	3980.44	121.66	--	--	3858.78	--
MW-9	1/28/21	3980.44	121.77	--	--	3858.67	--
MW-9	2/25/21	3980.44	121.88	--	--	3858.56	140.68
MW-9	3/24/21	3980.44	121.74	--	--	3858.70	--
MW-9	4/30/21	3980.44	121.80	--	--	3858.64	--
MW-9	5/11/21	3980.44	121.81	--	--	3858.63	--
MW-9	6/28/21	3980.06	121.73	--	--	3858.33	--
MW-9	7/27/21	3980.06	122.66	--	--	3857.40	--
MW-9	8/24/21	3980.06	121.66	--	--	3858.40	--
MW-9	9/30/21	3980.06	121.85	--	--	3858.21	140.68
MW-9	10/28/21	3980.06	121.90	--	--	3858.16	140.68
MW-9	11/16/21	3980.06	121.92	--	--	3858.14	140.68
MW-9	2/1/22	3980.06	122.27	--	--	3857.79	140.68
MW-9	2/22/22	3980.06	122.41	--	--	3857.65	140.54
MW-9	3/16/22	3980.06	122.41	--	--	3857.65	140.54
MW-9	4/11/22	3980.06	122.50	--	--	3857.56	140.54
MW-9	5/24/22	3980.06	122.68	--	--	3857.38	140.54
MW-9	6/15/22	3980.06	122.78	--	--	3857.28	140.54
MW-9	7/28/22	3980.06	122.76	--	--	3857.30	140.54
MW-9	8/24/22	3980.06	122.94	--	--	3857.12	140.54
MW-9	11/2/22	3980.06	123.08	--	--	3856.98	140.54
MW-10	11/29/17	3980.06	120.37	--	--	3859.69	142.13
MW-10	1/24/18	3980.06	120.24	--	--	3859.82	--
MW-10	2/19/18	3980.06	120.26	--	--	3859.80	142.11
MW-10	5/23/18	3980.06	120.50	--	--	3859.56	142.19
MW-10	8/22/18	3980.06	120.68	--	--	3859.38	141.96
MW-10	11/14/18	3980.06	120.67	--	--	3859.39	--
MW-10	2/25/19	3980.06	120.87	--	--	3859.19	141.96
MW-10	5/29/19	3980.06	121.03	--	--	3859.03	--
MW-10	6/13/19	3980.06	121.03	--	--	3859.03	--

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Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet, BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (feet BTOC)
MW-10	7/11/19	3980.06	--	--	--	--	--
MW-10	7/29/19	3980.06	121.11	--	--	3858.95	--
MW-10	10/16/19	3980.06	121.16	--	--	3858.90	--
MW-10	11/4/19	3980.06	--	--	--	--	--
MW-10	12/9/19	3980.06	--	--	--	--	--
MW-10	1/10/20	3980.06	--	--	--	--	--
MW-10	2/19/20	3980.06	--	--	--	--	--
MW-10	2/24/20	3980.06	121.26	--	--	3858.80	141.52
MW-10	3/13/20	3980.06	--	--	--	--	--
MW-10	4/29/20	3980.06	121.41	--	--	3858.65	--
MW-10	5/26/20	3980.06	121.31	--	--	3858.75	--
MW-10	6/16/20	3980.06	121.29	--	--	3858.77	--
MW-10	7/30/20	3980.06	121.28	--	--	3858.78	--
MW-10	8/26/20	3980.06	121.32	--	--	3858.74	--
MW-10	9/17/20	3980.06	121.34	--	--	3858.72	141.48
MW-10	10/21/20	3980.06	121.37	--	--	3858.69	--
MW-10	11/4/20	3980.06	121.42	--	--	3858.64	--
MW-10	12/9/20	3980.06	121.42	--	--	3858.64	--
MW-10	1/28/21	3980.06	121.49	--	--	3858.57	--
MW-10	2/25/21	3980.06	121.48	--	--	3858.58	141.30
MW-10	3/24/21	3980.06	121.46	--	--	3858.60	--
MW-10	4/30/21	3980.06	121.50	--	--	3858.56	--
MW-10	5/11/21	3980.06	121.54	--	--	3858.52	--
MW-10	6/28/21	3980.06	121.46	--	--	3858.60	--
MW-10	7/27/21	3980.06	121.37	--	--	3858.69	--
MW-10	8/24/21	3980.06	121.39	--	--	3858.67	--
MW-10	9/30/21	3980.06	121.56	--	--	3858.50	141.30
MW-10	10/28/21	3980.06	121.63	--	--	3858.43	141.30
MW-10	11/16/21	3980.06	121.64	--	--	3858.42	141.30
MW-10	2/1/22	3980.06	122.00	--	--	3858.06	141.30
MW-10	2/22/22	3980.06	122.10	--	--	3857.96	141.25
MW-10	3/16/22	3980.06	122.13	--	--	3857.93	141.25
MW-10	4/11/22	3980.06	122.22	--	--	3857.84	141.25
MW-10	5/24/22	3980.06	122.42	--	--	3857.64	141.25
MW-10	6/15/22	3980.06	122.48	--	--	3857.58	141.25
MW-10	7/28/22	3980.06	122.51	--	--	3857.55	141.25
MW-10	8/24/22	3980.06	122.67	--	--	3857.39	141.25
MW-10	11/2/22	3980.06	122.46	--	--	3857.60	141.25
MW-11	11/29/17	3981.92	122.10	--	--	3859.82	143.19
MW-11	1/24/18	3981.92	122.03	--	--	3859.89	--
MW-11	2/19/18	3981.92	122.00	--	--	3859.92	142.10
MW-11	3/9/18	3981.92	--	--	--	--	--
MW-11	4/13/18	3981.92	--	--	--	--	--
MW-11	5/11/18	3981.92	--	--	--	--	--
MW-11	5/23/18	3981.92	122.25	--	--	3859.67	141.92
MW-11	6/8/18	3981.92	--	--	--	--	--
MW-11	7/13/18	3981.92	--	--	--	--	--
MW-11	8/10/18	3981.92	--	--	--	--	--
MW-11	8/22/18	3981.92	122.43	--	--	3859.49	141.86
MW-11	9/14/18	3981.92	--	--	--	--	--
MW-11	10/19/18	3981.92	--	--	--	--	--
MW-11	11/9/18	3981.92	--	--	--	--	--
MW-11	11/14/18	3981.92	122.41	--	--	3859.51	--
MW-11	12/14/18	3981.92	--	--	--	--	--
MW-11	1/11/19	3981.92	--	--	--	--	--
MW-11	2/8/19	3981.92	122.68	--	--	3859.24	--
MW-11	2/25/19	3981.92	122.61	--	--	3859.31	141.86
MW-11	5/29/19	3981.92	122.74	--	--	3859.18	--
MW-11	6/13/19	3981.92	122.76	--	--	3859.16	--
MW-11	7/11/19	3981.92	--	--	--	--	--
MW-11	7/29/19	3981.92	122.84	--	--	3859.08	--
MW-11	9/13/19	3981.92	--	--	--	--	--
MW-11	10/16/19	3981.92	122.89	--	--	3859.03	--
MW-11	2/24/20	3981.92	123.00	--	--	3858.92	142.94
MW-11	4/29/20	3981.92	123.16	--	--	3858.76	--
MW-11	5/26/20	3981.92	123.05	--	--	3858.87	--
MW-11	6/16/20	3981.92	123.05	--	--	3858.87	--
MW-11	7/30/20	3981.92	123.05	--	--	3858.87	--
MW-11	8/26/20	3981.92	123.08	--	--	3858.84	--
MW-11	9/17/20	3981.92	123.07	--	--	3858.85	141.79
MW-11	10/21/20	3981.92	123.11	--	--	3858.81	--
MW-11	11/4/20	3981.92	123.18	--	--	3858.74	--

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SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet, BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (feet BTOC)
MW-11	12/9/20	3981.92	123.19	--	--	3858.73	--
MW-11	1/28/21	3981.92	123.23	--	--	3858.69	--
MW-11	2/25/21	3981.92	123.25	--	--	3858.67	141.70
MW-11	3/24/21	3981.92	123.23	--	--	3858.69	--
MW-11	4/30/21	3981.92	123.24	--	--	3858.68	--
MW-11	5/11/21	3981.92	123.31	--	--	3858.61	--
MW-11	6/28/21	3981.92	123.24	--	--	3858.68	--
MW-11	7/27/21	3981.92	123.17	--	--	3858.75	--
MW-11	8/24/21	3981.92	123.18	--	--	3858.74	--
MW-11	9/30/21	3981.92	123.30	--	--	3858.62	141.70
MW-11	10/28/21	3981.92	123.37	--	--	3858.55	141.70
MW-11	11/16/21	3981.92	123.36	--	--	3858.56	141.70
MW-11	2/1/22	3981.92	123.71	--	--	3858.21	141.70
MW-11	2/22/22	3981.92	123.79	--	--	3858.13	141.69
MW-11	3/16/22	3981.92	123.81	--	--	3858.11	141.69
MW-11	4/11/22	3981.92	123.88	--	--	3858.04	141.69
MW-11	5/24/22	3981.92	124.10	--	--	3857.82	141.69
MW-11	6/15/22	3981.92	124.12	--	--	3857.80	141.69
MW-11	5/24/22	3981.92	124.16	--	--	3857.76	141.69
MW-11	8/24/22	3981.92	124.31	--	--	3857.61	141.69
MW-11	11/2/22	3981.92	124.46	--	--	3857.46	141.69
MW-12	11/29/17	3982.15	122.35	--	--	3859.80	141.92
MW-12	1/24/17	3982.15	122.25	--	--	3859.90	--
MW-12	2/19/18	3982.15	122.23	--	--	3859.92	143.32
MW-12	3/9/18	3982.15	--	--	--	--	--
MW-12	4/13/18	3982.15	--	--	--	--	--
MW-12	5/11/18	3982.15	--	--	--	--	--
MW-12	5/23/18	3982.15	122.48	--	--	3859.67	142.25
MW-12	6/8/18	3982.15	--	--	--	--	--
MW-12	7/13/18	3982.15	--	--	--	--	--
MW-12	8/10/18	3982.15	--	--	--	--	--
MW-12	8/22/18	3982.15	122.67	--	--	3859.48	142.17
MW-12	9/14/18	3982.15	--	--	--	--	--
MW-12	10/19/18	3982.15	--	--	--	--	--
MW-12	11/9/18	3982.15	--	--	--	--	--
MW-12	11/14/18	3982.15	122.65	--	--	3859.50	--
MW-12	12/14/18	3982.15	--	--	--	--	--
MW-12	1/11/19	3982.15	--	--	--	--	--
MW-12	2/8/19	3982.15	122.94	--	--	3859.21	--
MW-12	2/25/19	3982.15	122.86	--	--	3859.29	142.17
MW-12	3/8/19	3982.15	122.88	--	--	3859.27	--
MW-12	5/29/19	3982.15	123.00	--	--	3859.15	--
MW-12	6/13/19	3982.15	123.00	--	--	3859.15	--
MW-12	7/11/19	3982.15	--	--	--	--	--
MW-12	7/29/19	3982.15	123.10	123.06	0.04	3859.08	--
MW-12	9/13/19	3982.15	--	--	--	--	--
MW-12	10/16/19	3982.15	123.22	123.12	0.10	3859.01	--
MW-12	11/4/19	3982.15	123.26	123.23	0.03	3858.91	--
MW-12	12/9/19	3982.15	--	--	--	--	--
MW-12	1/10/20	3982.15	123.48	123.25	0.23	3858.86	--
MW-12	2/19/20	3982.15	123.54	123.20	0.34	3858.89	--
MW-12	2/24/20	3982.15	123.38	123.20	0.18	3858.92	--
MW-12	3/13/20	3982.15	123.50	123.24	0.26	3858.86	--
MW-12	4/29/20	3982.15	123.76	123.34	0.42	3858.73	--
MW-12	5/26/20	3982.15	123.56	123.23	0.33	3858.86	--
MW-12	6/16/20	3982.15	123.65	123.22	0.43	3858.85	--
MW-12	7/30/20	3982.15	123.70	123.23	0.47	3858.83	--
MW-12	8/26/20	3982.15	123.66	123.25	0.41	3858.82	--
MW-12	9/15/20	3982.15	123.41	123.25	0.16	3858.87	--
MW-12	9/15/20	3982.15	123.71	123.32	0.39	3858.76	--
MW-12	9/17/20	3982.15	123.57	123.27	0.30	3858.82	--
MW-12	10/21/20	3982.15	123.80	123.28	0.52	3858.77	--
MW-12	11/4/20	3982.15	123.74	123.35	0.39	3858.73	--
MW-12	12/9/20	3982.15	123.91	123.34	0.57	3858.70	--
MW-12	1/28/21	3982.15	123.90	123.40	0.50	3858.66	--
MW-12	2/25/21	3982.15	123.88	123.38	0.50	3858.68	142.01
MW-12	3/24/21	3982.15	123.98	123.37	0.61	3858.66	--
MW-12	4/30/21	3982.15	124.19	123.37	0.82	3858.62	--
MW-12	5/11/21	3982.15	124.28	123.42	0.86	3858.57	--
MW-12	6/28/21	3982.15	124.36	123.31	1.05	3858.64	--
MW-12	7/27/21	3982.15	124.38	123.21	1.17	3858.72	--
MW-12	8/24/21	3982.15	124.53	123.21	1.32	3858.69	--
MW-12	9/30/21	3982.15	124.35	123.43	0.92	3858.55	142.01

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet, BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (feet BTOC)
MW-12	10/28/21	3982.15	124.40	123.48	0.92	3858.50	142.01
MW-12	11/16/21	3982.15	124.61	123.40	1.21	3858.52	142.01
MW-12	2/1/22	3982.15	124.53	123.80	0.73	3858.21	142.01
MW-12	2/22/22	3982.15	124.70	123.93	0.77	3858.07	142.18
MW-12	3/16/22	3982.15	124.75	123.96	0.79	3858.04	142.18
MW-12	4/11/22	3982.15	124.90	124.08	0.82	3857.91	142.18
MW-12	5/24/22	3982.15	125.10	124.22	0.88	3857.76	142.18
MW-12	6/15/22	3982.15	124.87	124.25	0.62	3857.78	142.18
MW-12	7/25/22	3982.15	124.95	124.33	0.62	3857.70	142.18
MW-12	8/24/22	3982.15	125.13	124.47	0.66	3857.55	142.18
MW-12	10/6/22	3982.15	125.23	124.25	0.98	3857.71	142.18
MW-12	10/6/22	3982.15	124.69	124.68	0.01	3857.47	142.18
MW-12	11/2/22	3982.15	124.79	124.66	0.13	3857.47	142.18
MW-12	11/2/22	3982.15	124.78	124.76	0.02	3857.39	142.18
MW-12	11/30/22	3982.15	124.86	124.77	0.09	3857.36	142.18
MW-12	11/30/22	3982.15	124.74	124.73	0.01	3857.42	142.18
MW-13	11/29/17	3980.82	120.97	--	--	3859.85	141.79
MW-13	1/24/18	3980.82	120.89	--	--	3859.93	--
MW-13	2/19/18	3980.82	120.81	--	--	3860.01	141.93
MW-13	5/23/18	3980.82	121.07	--	--	3859.75	141.66
MW-13	8/22/18	3980.82	121.27	--	--	3859.55	141.63
MW-13	11/14/18	3980.82	121.26	--	--	3859.56	--
MW-13	2/25/19	3980.82	121.44	--	--	3859.38	141.63
MW-13	5/29/19	3980.82	121.62	--	--	3859.20	--
MW-13	7/29/19	3980.82	121.69	--	--	3859.13	--
MW-13	10/16/19	3980.82	121.74	--	--	3859.08	--
MW-13	2/24/20	3980.82	121.81	--	--	3859.01	141.36
MW-13	4/29/20	3980.82	122.00	--	--	3858.82	--
MW-13	5/26/20	3980.82	121.88	--	--	3858.94	--
MW-13	6/16/20	3980.82	121.89	--	--	3858.93	--
MW-13	7/30/20	3980.82	121.87	--	--	3858.95	--
MW-13	8/26/20	3980.82	121.90	--	--	3858.92	--
MW-13	9/17/20	3980.82	121.92	--	--	3858.90	141.31
MW-13	10/21/20	3980.82	121.93	--	--	3858.89	--
MW-13	11/4/20	3980.82	122.01	--	--	3858.81	--
MW-13	12/9/20	3980.82	121.97	--	--	3858.85	--
MW-13	1/28/21	3980.82	122.05	--	--	3858.77	--
MW-13	2/25/21	3980.82	122.11	--	--	3858.71	141.42
MW-13	3/24/21	3980.82	122.06	--	--	3858.76	--
MW-13	4/30/21	3980.82	122.10	--	--	3858.72	--
MW-13	5/11/21	3980.82	122.13	--	--	3858.69	--
MW-13	6/28/21	3980.82	122.27	--	--	3858.55	--
MW-13	7/27/21	3980.82	121.97	--	--	3858.85	--
MW-13	8/24/21	3980.82	121.88	--	--	3858.94	--
MW-13	9/30/21	3980.82	122.37	--	--	3858.45	141.42
MW-13	10/28/21	3980.82	122.40	--	--	3858.42	141.42
MW-13	11/16/21	3980.82	122.48	--	--	3858.34	141.42
MW-13	2/1/22	3980.82	122.54	--	--	3858.28	141.42
MW-13	2/22/22	3980.82	122.64	--	--	3858.18	141.26
MW-13	3/16/22	3980.82	122.67	--	--	3858.15	141.26
MW-13	4/11/22	3980.82	122.82	--	--	3858.00	141.26
MW-13	5/24/22	3980.82	122.86	--	--	3857.96	141.26
MW-13	6/15/22	3980.82	123.00	--	--	3857.82	141.26
MW-13	7/28/22	3980.82	123.05	--	--	3857.77	141.26
MW-13	8/24/22	3980.82	123.19	--	--	3857.63	141.26
MW-13	11/2/22	3980.82	123.34	--	--	3857.48	141.26
MW-14	11/29/17	3981.35	121.50	--	--	3859.85	142.01
MW-14	1/24/18	3981.35	121.45	--	--	3859.90	--
MW-14	2/19/18	3981.35	121.42	--	--	3859.93	142.51
MW-14	3/9/18	3981.35	--	--	--	--	--
MW-14	5/11/18	3981.35	--	--	--	--	--
MW-14	5/23/18	3981.35	121.63	--	--	3859.72	141.85
MW-14	8/22/18	3981.35	121.83	--	--	3859.52	141.77
MW-14	11/14/18	3981.35	121.77	--	--	3859.58	--
MW-14	2/25/19	3981.35	121.97	--	--	3859.38	141.77
MW-14	5/29/19	3981.35	122.15	--	--	3859.20	--
MW-14	7/29/19	3981.35	122.22	--	--	3859.13	--
MW-14	10/16/19	3981.35	122.26	--	--	3859.09	--
MW-14	2/24/20	3981.35	122.38	--	--	3858.97	141.49
MW-14	4/29/20	3981.35	122.53	--	--	3858.82	--
MW-14	5/26/20	3981.35	122.42	--	--	3858.93	--
MW-14	6/16/20	3981.35	122.42	--	--	3858.93	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet, BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (feet BTOC)
MW-14	7/30/20	3981.35	122.42	--	--	3858.93	--
MW-14	8/26/20	3981.35	122.44	--	--	3858.91	--
MW-14	9/17/20	3981.35	122.48	--	--	3858.87	141.44
MW-14	10/21/20	3981.35	122.48	--	--	3858.87	--
MW-14	11/4/20	3981.35	122.55	--	--	3858.80	--
MW-14	12/9/20	3981.35	122.52	--	--	3858.83	--
MW-14	1/28/21	3981.35	122.65	--	--	3858.70	--
MW-14	2/25/21	3981.35	122.67	--	--	3858.68	141.41
MW-14	3/24/21	3981.35	122.61	--	--	3858.74	--
MW-14	4/30/21	3981.35	122.64	--	--	3858.71	--
MW-14	5/11/21	3981.35	122.67	--	--	3858.68	--
MW-14	6/28/21	3981.35	122.62	--	--	3858.73	--
MW-14	7/27/21	3981.35	122.55	--	--	3858.80	--
MW-14	8/24/21	3981.35	122.57	--	--	3858.78	--
MW-14	9/30/21	3981.35	122.68	--	--	3858.67	141.41
MW-14	10/28/21	3981.35	122.74	--	--	3858.61	141.41
MW-14	11/16/21	3981.35	122.76	--	--	3858.59	141.41
MW-14	2/1/22	3981.35	123.07	--	--	3858.28	141.41
MW-14	2/22/22	3981.35	123.15	--	--	3858.20	141.41
MW-14	3/16/22	3981.35	123.18	--	--	3858.17	141.41
MW-14	4/11/22	3981.35	123.32	--	--	3858.03	141.41
MW-14	5/24/22	3981.35	123.36	--	--	3857.99	141.41
MW-14	6/15/22	3981.35	123.48	--	--	3857.87	141.41
MW-14	7/28/22	3981.35	123.48	--	--	3857.87	141.41
MW-14	8/24/22	3981.35	123.67	--	--	3857.68	141.41
MW-14	11/2/22	3981.35	123.82	--	--	3857.53	141.41

Notes:

1. Monitoring well gauging data listed prior to October 2016 were reported by Basin Environmental Service Technologies, LLC.
2. NAVD88 - North American Vertical Datum of 1988
3. BTOC - Below Top-of-Casing
4. LNAPL - Light Non-Aqueous Phase Liquids
5. -- = No gauging data collected on corresponding date
6. Elevations of the potentiometric surface were calculated using a LNAPL specific gravity of 0.81 gram/cubic centimenter (g/cc).

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-1	7/3/12	**0.362**	**0.132**	<0.005	**0.869**
MW-1	10/12/12	**1.64**	**0.476**	**0.274**	**0.264**
MW-1	11/21/13	**2.24**	**0.653**	**0.371**	**0.266**
MW-1	2/10/14	**2.64**	**1.04**	**0.572**	**0.482**
MW-1	5/7/14	**0.681**	**0.335**	**0.156**	**0.164**
MW-1	8/6/14	**0.891**	**0.594**	**0.201**	**0.245**
MW-1	11/18/14	**0.635**	**0.321**	**0.193**	**0.156**
MW-1	2/11/15	**0.0881**	**0.0549**	**0.0399**	**0.0285**
MW-1	5/5/15	**0.676**	**0.263**	**0.174**	**0.158**
MW-1	8/4/15	**1.00**	**0.622**	**0.336**	**0.266**
MW-1	11/20/15	**2.06**	**1.1**	**0.631**	**0.453**
MW-1	2/18/16	**0.37**	**0.0386**	**0.0419**	**0.0312**
MW-1	5/2/16	**0.708**	**0.332**	**0.217**	**0.188**
MW-1	8/8/16	**0.221**	**0.0196**	**0.0107**	**0.0211**
MW-1	12/12/16	**0.199**	**0.199**	**0.0557**	**0.0765**
MW-1 DUP-1	12/12/16	**0.184**	**0.190**	**0.0535**	**0.0706**
MW-1	3/15/17	**0.0271**	**0.0165**	**0.00356**	**0.00501**
MW-1	6/20/17	**0.0295**	**0.0658**	**0.0243**	**0.0410**
MW-1	9/18/17	**0.101**	**0.152**	**0.0419**	**0.0510**
MW-1	11/29/17	**0.255**	**0.233**	**0.0639**	**0.0787**
MW-1	2/20/18	**0.0763**	**0.0354**	**0.0238**	**0.0173**
MW-1 DUP-1	2/20/18	**0.0671**	**0.0349**	**0.0211**	**0.0170**
MW-1	5/24/18	**0.138**	**0.0893**	**0.0349**	**0.0677**
MW-1 DUP-1	5/24/18	**0.155**	**0.0982**	**0.0396**	**0.0820**
MW-1	8/23/18	**0.887**	**1.39**	**0.498**	**0.698**
MW-1 Dup 1	8/23/18	**0.859**	**1.29**	**0.453**	**0.629**
MW-1	11/15/18	**0.222**	**0.373**	**0.115**	**0.148**
MW-1 (Dup2)	11/15/18	**0.103**	**0.155**	**0.0605**	**0.0828**
MW-1	2/26/19	**0.120**	**0.0863**	**0.0535**	**0.0495**
MW-1	5/30/19	**0.229**	**0.343**	**0.153**	**0.198**
MW-1	7/30/19	**0.162**	**0.148**	**0.0361**	**0.0848 J**
MW-1	10/18/19	**0.212**	**0.230**	**0.102**	**0.101**
MW-1	2/25/20	**0.0537**	**0.105**	**0.0472**	**0.0830**
MW-1 (Dup2)	2/25/20	**0.0529**	**0.0876**	**0.0398**	**0.0696**
MW-1	5/27/20	**0.0213**	**0.0462**	**0.0175**	**0.0201**
MW-1	9/18/20	**0.0263**	**0.0523**	**0.0204**	**0.0362**
Dup (MW-1)	9/18/20	**0.0243**	**0.0493**	**0.019**	**0.0337**
MW-1	11/4/20	**0.0192**	**0.0275**	**0.0115**	**0.0151**
MW-1	2/25/21	**0.00618**	**0.0180**	**0.00752**	**0.0119**
MW-1 (Dup-1)	2/25/21	**0.00522**	**0.0156**	**0.00656**	**0.0105**
MW-1	5/12/21	**0.0380**	**0.0152**	**0.00876**	**0.0146**
MW-1	8/25/21	**0.0137**	**0.0417**	**0.0164**	**0.0312**
MW-1 (DUP-1)	8/25/21	**0.0143**	**0.0452**	**0.0176**	**0.0326**
MW-1	11/16/21	**0.0920**	**0.283**	**0.11**	**0.132**
MW-1	2/22/22	**0.00796**	**0.0171**	**0.00659**	**0.0142**

Table 2

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Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-1	5/25/22	**0.0198**	**0.0812**	**0.0285**	**0.0511**
MW-1	9/13/22	**0.0458**	**0.0675**	**0.0260**	**0.0532**
MW-1	11/3/22	**0.0683**	**0.150**	**0.0619**	**0.0908**
MW-2	7/3/12	<0.005	<0.005	<0.005	<0.015
MW-2	10/12/12	**0.0731**	**0.0478**	**0.0113**	**0.024**
MW-2	11/21/13	**0.393**	**0.0186**	**0.0509**	**0.0334**
MW-2	2/10/14	**0.200**	**0.230**	**0.099**	**0.172**
MW-2	5/7/14	**0.248**	**0.101**	**0.0719**	**0.067**
MW-2	8/6/14	**0.766**	**0.557**	**0.337**	**0.358**
MW-2	11/18/14	**0.0196**	**0.0132**	**0.00239**	**0.00715**
MW-2	2/11/15	**0.0558**	**0.0429**	**0.0031**	**0.0131**
MW-2	5/5/15	**0.126**	**0.0764**	**0.0541**	**0.0465**
MW-2	8/4/15	**0.0445**	**0.0671**	**0.0182**	**0.0278**
MW-2	11/20/15	**0.108**	**0.173**	**0.0624**	**0.0809**
MW-2	2/18/16	**0.0115**	**0.0167**	**0.00436**	**0.00848**
MW-2	5/2/16	**0.00768**	**0.0120**	**0.00323**	**0.00434**
MW-2	8/8/16	**0.0163**	**0.0136**	**0.0102**	**0.0136**
MW-2	12/12/16	**0.0318**	**0.0458**	**0.00981**	**0.0275**
MW-2	3/15/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-2	6/20/17	**0.0296**	**0.0469**	**0.00769**	**0.0218**
MW-2	9/18/17	**0.0385**	**0.0748**	**0.0188**	**0.0533**
MW-2	11/29/17	**0.0185**	**0.0298**	**0.00741**	**0.0173**
MW-2	2/20/18	<0.00200	<0.00200	<0.00200	<0.00200
MW-2	5/24/18	**0.00243**	**0.00297**	**0.00129J**	**0.00225**
MW-2	8/23/18	**0.00766**	**0.0239**	**0.00979**	**0.0770**
MW-2	11/14/18	**0.00229**	**0.00355**	**0.000540**	**0.00527**
MW-2	2/26/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	5/30/19	<0.000190	<0.000412	<0.000160	**0.00913 J**
MW-2	7/30/19	**0.000216**	<0.000412	<0.000160	**0.000526**
MW-2	10/16/19	**0.00260**	**0.000914 J**	<0.000160	**0.00380**
MW-2	2/25/20	**0.000297 J**	<0.000412	<0.000160	<0.000510
MW-2	5/27/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	9/18/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	11/4/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	2/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	5/12/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	8/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	11/16/21	**0.000123 J**	<0.000278	<0.000137	<0.000174
MW-2	2/22/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	5/25/22	<0.000493	<0.000998	<0.000462	<0.00132
MW-2	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-3	7/3/12	**0.667**	**0.556**	**0.140**	**0.1972**
MW-3	10/12/12	**1.40**	**0.916**	**0.129**	**0.172**
MW-3	11/21/13	**0.0916**	**0.0624**	**0.0173**	**0.0342**

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-3	2/10/14	**0.011**	**0.0205**	**0.010**	**0.0288**
MW-3	5/7/14	**0.104**	**0.0538**	**0.00786**	**0.0159**
MW-3	8/6/14	**0.290**	**0.158**	**0.0355**	**0.052**
MW-3	11/18/14	**0.298**	**0.0941**	**0.0238**	**0.0301**
MW-3	2/11/15	**0.240**	**0.0553**	**0.00988**	**0.0162**
MW-3	5/5/15	**0.349**	**0.115**	**0.0207**	**0.0362**
MW-3	8/4/15	**0.366**	**0.098**	**0.0239**	**0.038**
MW-3	11/20/15	**1.42**	**0.435**	**0.200**	**0.179**
MW-3	2/18/16	**0.152**	**0.0166**	**0.00579**	**0.00552**
MW-3	5/2/16	**0.0591**	**0.0184**	**0.00476**	**0.00833**
MW-3	8/8/16	**0.0256**	<0.00200	<0.00200	<0.00200
MW-3	12/12/16	**0.129**	**0.0771**	**0.0105**	**0.0263**
MW-3	3/15/17	**0.0513**	<0.00200	**0.00294**	<0.00200
MW-3 DUP	3/15/17	**0.0459**	**0.00418**	<0.00200	<0.00200
MW-3	6/20/17	**0.1570**	**0.0160**	**0.00232**	**0.0107**
MW-3 DUP	6/20/17	**0.1420**	**0.0144**	**0.00237**	**0.00946**
MW-3	9/18/17	**0.1090**	**0.0431**	**0.00263**	**0.0203**
MW-3 DUP	9/18/17	**0.1390**	**0.0514**	**0.0035**	**0.0280**
MW-3	11/30/17	**0.0376**	**0.00174 J**	<0.00200	**0.00133 J**
MW-3	2/20/18	**0.0356**	<0.00200	<0.00200	<0.00200
MW-3	5/24/18	**0.0176**	<0.000367	<0.000657	<0.000630
MW-3	8/23/18	**0.0191**	<0.00100	<0.000500	**0.00191**
MW-3	11/15/18	**0.0288**	**0.00933**	**0.000943**	**0.00735**
MW-3 (Dup1)	11/15/18	**0.0250**	**0.00741**	**0.000719**	**0.00593**
MW-3	2/26/19	**0.0159**	**0.000793 J**	**0.000161 J**	<0.000510
MW-3 (Dup 2)	2/26/19	**0.0161**	**0.000766 J**	**0.000187 J**	**0.000584 J**
MW-3	5/30/19	**0.0136**	**0.000825 J**	<0.000160	**0.000847 J**
MW-3	7/30/19	**0.00368**	<0.000412	<0.000160	**0.00355**
MW-3	10/16/19	**0.00250**	**0.000504 J**	<0.000160	**0.00397**
MW-3	2/25/20	**0.000820**	<0.000412	<0.000160	<0.000510
MW-3	5/27/20	**0.000825**	<0.000412	<0.000160	<0.000510
MW-3	9/18/20	**0.000475 J**	**0.000542 J**	**0.000615**	**0.00165**
MW-3	11/4/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-3	2/25/21	**0.000353 J**	<0.000412	<0.000160	<0.000510
MW-3	5/12/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-3	8/25/21	**0.000861**	<0.000412	<0.000160	<0.000510
MW-3	11/16/21	**0.000253 J**	<0.000278	<0.000137	<0.000174
MW-3	2/22/22	**0.000335 J**	<0.000412	<0.000160	<0.000510
MW-3 (DUP-1)	2/22/22	**0.000388 J**	**0.00175**	**0.000415 J**	**0.00304**
MW-3	5/25/22	**0.000539 J**	<0.000998	<0.000462	<0.00132
MW-3	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-3	11/3/22	**0.00700**	<0.000412	<0.000160	<0.000510
MW-4	7/3/12	<0.005	<0.005	<0.005	<0.015
MW-4	10/12/12	<0.001	<0.002	<0.001	<0.001
MW-4	11/21/13	**0.00255**	<0.002	<0.001	<0.001

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Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-4	2/10/14	<0.001	<0.002	<0.001	<0.001
MW-4	5/7/14	<0.001	<0.002	<0.001	<0.001
MW-4	8/6/14	**0.00288**	**0.00409**	<0.001	<0.001
MW-4	11/18/14	<0.001	<0.002	<0.001	<0.001
MW-4	2/11/15	<0.001	<0.002	<0.001	<0.001
MW-4	5/5/15	<0.001	<0.002	<0.001	<0.001
MW-4	8/4/15	<0.001	<0.002	<0.001	<0.001
MW-4	11/20/15	<0.001	<0.002	<0.001	<0.001
MW-4	2/18/16	<0.001	<0.002	<0.001	<0.001
MW-4	5/2/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	8/8/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	12/12/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	3/15/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	6/20/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	9/18/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	11/29/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	2/20/18	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	5/24/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-4	8/23/18	<0.000500	<0.00100	<0.000500	<0.00150
MW-4	11/14/18	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	2/26/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-4 (Dup1)	2/26/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	5/30/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	7/30/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	10/17/19	**0.000201 J**	**0.000567 J**	**0.000252 J**	**0.000651 J**
MW-4	2/24/20	**0.000580**	<0.000412	**0.000283 J**	**0.000512 J**
MW-4	5/27/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	9/17/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	11/4/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	2/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	5/12/21	<0.000190	<0.000412	**0.000330 J**	<0.000510
MW-4	8/24/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	11/16/21	<0.0000941	<0.000278	<0.000137	<0.000174
MW-4	2/22/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	5/25/22	<0.000493	<0.000998	<0.000462	<0.00132
MW-4	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	3/8/13	<0.000160	<0.005	<0.005	<0.015
MW-5	11/21/13	<0.000510	<0.002	<0.001	<0.001
MW-5	2/10/14	<0.001	<0.002	<0.001	<0.001
MW-5	5/7/14	<0.001	<0.002	<0.001	<0.001
MW-5	8/6/14	<0.001	<0.002	<0.001	<0.001
MW-5	11/18/14	<0.001	<0.002	<0.001	<0.001
MW-5	2/11/15	<0.001	<0.002	<0.001	<0.001
MW-5	5/5/15	<0.001	<0.002	<0.001	<0.001

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SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-5	8/4/15	<0.001	<0.002	<0.001	<0.001
MW-5	11/20/15	<0.001	<0.002	<0.001	<0.001
MW-5	2/18/16	<0.001	<0.002	<0.001	<0.001
MW-5	5/2/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	8/8/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	12/12/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	3/15/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	6/20/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	9/18/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	11/29/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	2/20/18	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	5/24/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-5	8/23/18	<0.000500	<0.00100	<0.000500	<0.00150
MW-5	11/14/18	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	2/26/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	5/30/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	7/30/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	10/17/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-5 (Dup-2)	10/17/19	**0.000275 J**	<0.000412	<0.000160	<0.000510
MW-5	2/25/20	**0.000247 J**	<0.000412	<0.000160	<0.000510
MW-5	5/27/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	9/18/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	11/4/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	2/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	5/12/21	<0.000190	<0.000412	**0.000247 J**	<0.000510
MW-5	8/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	11/16/21	<0.0000941	<0.000278	<0.000137	<0.000174
MW-5	2/22/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	5/25/22	<0.000493	<0.000998	<0.000462	<0.00132
MW-5	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	3/8/13	<0.005	<0.005	<0.005	<0.015
MW-6	11/21/13	**0.00809**	**0.00242**	**0.00415**	**0.00918**
MW-6	2/10/14	**0.00111**	**0.00345**	**0.00359**	**0.0128**
MW-6	5/7/14	**0.0139**	**0.00579**	**0.00533**	**0.0132**
MW-6	8/6/14	**0.0191**	**0.00562**	**0.00258**	**0.00667**
MW-6	11/18/14	**0.00189**	<0.002	<0.001	<0.001
MW-6	2/11/15	**0.0147**	**0.00315**	**<0.001**	**0.00303**
MW-6	5/5/15	**0.0193**	**0.00499**	**0.00228**	**0.00459**
MW-6	8/4/15	**0.0678**	**0.019**	**0.0132**	**0.0259**
MW-6	11/20/15	**0.0062**	**0.00219**	**0.00168**	**0.00242**
MW-6	2/18/16	**0.0143**	**0.00343**	**0.00234**	**0.00517**
MW-6	5/2/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-6	8/8/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-6	12/12/16	**0.0123**	**0.00253**	<0.00200	**0.00539**

Table 2

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Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-6	3/15/17	**0.00732**	<0.00200	<0.00200	**0.00201**
MW-6	6/20/17	**0.00755**	**0.00250**	<0.00200	**0.00282**
MW-6	9/18/17	**0.0888**	**0.01930**	**0.0110**	**0.0301**
MW-6	11/29/17	**0.0297**	**0.00399**	**0.00138 J**	**0.00488**
MW-6 DUP-1	11/29/17	**0.0373**	**0.00448**	**0.00183 J**	**0.00660**
MW-6	2/20/18	**0.0405**	**0.00952**	**0.00802**	**0.01880**
MW-6	5/24/18	**0.000910 J**	<0.000367	<0.000657	<0.000630
MW-6	8/23/18	**0.00179**	<0.00100	<0.000500	**0.00229**
MW-6	11/14/18	**0.00372**	**0.000796 J**	<0.000160	**0.00369**
MW-6	2/26/19	<0.000190	<0.000412	<0.000160	**0.000644 J**
MW-6	5/30/19	**0.0100**	**0.000972 J**	**0.000370 J**	**0.00374**
MW-6	7/30/19	**0.000772**	<0.000412	<0.000160	**0.000982**
MW-6	10/16/19	**0.00295**	<0.000412	<0.000160	**0.000861 J**
MW-6	2/25/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	5/27/20	<0.000190	<0.000412	**0.000208 J**	**0.000709 J**
MW-6	9/18/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	11/4/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	2/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	5/12/21	<0.000190	<0.000412	**0.000477 J**	<0.000510
MW-6	8/25/21	**0.000344 J**	<0.000412	<0.000160	<0.000510
MW-6	11/16/21	**0.000246 J**	<0.000278	<0.000137	**0.000208 J**
MW-6	2/22/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	5/25/22	<0.000493	<0.000998	<0.000462	<0.00132
MW-6	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	3/8/13	**1.22**	**6.88**	**1.86**	**2.395**
MW-7	11/21/13	LNAPL	--	--	--
MW-7	2/10/14	LNAPL	--	--	--
MW-7	5/7/14	LNAPL	--	--	--
MW-7	8/6/14	LNAPL	--	--	--
MW-7	11/18/14	LNAPL	--	--	--
MW-7	2/11/15	LNAPL	--	--	--
MW-7	5/5/15	LNAPL	--	--	--
MW-7	8/4/15	LNAPL	--	--	--
MW-7	11/20/15	LNAPL	--	--	--
MW-7	2/18/16	LNAPL	--	--	--
MW-7	5/2/16	LNAPL	--	--	--
MW-7	8/8/16	LNAPL	--	--	--
MW-7	12/12/16	LNAPL	--	--	--
MW-7	3/15/17	LNAPL	--	--	--
MW-7	6/20/17	LNAPL	--	--	--
MW-7	9/18/17	LNAPL	--	--	--
MW-7	11/29/17	LNAPL	--	--	--
MW-7	2/20/18	LNAPL	--	--	--
MW-7	5/24/18	LNAPL	--	--	--

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-7	8/23/18	LNAPL	--	--	--
MW-7	11/15/18	LNAPL	--	--	--
MW-7	2/26/19	LNAPL	--	--	--
MW-7	5/30/19	LNAPL	--	--	--
MW-7	7/30/19	LNAPL	--	--	--
MW-7	10/16/19	LNAPL	--	--	--
MW-7	2/24/20	LNAPL	--	--	--
MW-7	5/27/20	LNAPL	--	--	--
MW-7	9/18/20	LNAPL	--	--	--
MW-7	11/4/20	LNAPL	--	--	--
MW-7	2/25/21	LNAPL	--	--	--
MW-7	5/12/21	LNAPL	--	--	--
MW-7	2/22/22	LNAPL	--	--	--
MW-7	5/25/22	LNAPL	--	--	--
MW-7	9/13/22	LNAPL	--	--	--
MW-7	11/3/22	LNAPL	--	--	--
MW-8	11/30/17	**0.363**	**0.314**	**0.314**	**0.704**
MW-8	2/20/18	**1.91**	**0.868**	**0.273**	**0.512**
MW-8 DUP-2	2/20/18	**3.47**	**0.825**	**0.261**	**0.501**
MW-8	5/24/18	**1.94**	**0.548**	**0.149**	**0.211**
MW-8 DUP-2	5/24/18	**1.87**	**0.524**	**0.176**	**0.242**
MW-8	8/23/18	**5.43**	**3.84**	**0.494**	**1.11**
MW-8 DUP-2	8/23/18	**4.92**	**3.43**	**0.489**	**0.911**
MW-8	11/15/18	**2.56**	**0.893**	**0.258**	**0.395**
MW-8	2/26/19	**2.18**	**0.341**	**0.0861**	**0.163**
MW-8	5/30/19	**3.57**	**1.56**	**0.205**	**0.590**
MW-8 (Dup-2)	5/30/19	**3.37**	**1.53**	**0.135**	**0.394**
MW-8	7/30/19	**3.06**	**0.518**	**0.102**	**0.261**
MW-8 (Dup-1)	7/30/19	**3.24**	**0.521**	**0.0849**	**0.211**
MW-8	10/17/19	**1.82**	**0.191**	**0.0981**	**0.227**
MW-8	2/24/20	**2.22**	**0.783**	**0.0990**	**0.412**
MW-8	5/27/20	**3.06**	**0.876**	**0.0507**	**0.232**
MW-8	9/17/20	**2.01**	**0.0873**	**0.0371**	**0.187**
MW-8	11/4/20	**2.42**	**0.751**	**0.0879**	**0.344**
MW-8	2/25/21	**2.63**	**1.070**	**0.103**	**0.481**
MW-8	5/12/21	**1.78**	**0.240**	**0.0417**	**0.204**
MW-8 (DUP-1)	5/12/21	**2.09**	**0.192**	**0.0396**	**0.179**
MW-8	8/24/21	**2.63**	**1.30**	**0.0945**	**0.668**
MW-8	11/16/21	**1.61**	**0.403**	**0.0499**	**0.240**
MW-8	2/22/22	**1.56**	**0.149**	**0.0237**	**0.119**
MW-8	5/25/22	**2.00**	**0.368**	**0.0350**	**0.224**
MW-8	9/13/22	**2.14**	**0.470**	**0.0322**	**0.217**
MW-8	11/3/22	**1.19**	**0.0615**	**0.0222**	**0.106**
MW-8 (DUP-1)	11/3/22	**1.44**	**0.1100**	**0.0276**	**0.132**
MW-9	11/30/17	<0.00200	**0.00167 J**	**0.00125 J**	**0.00131 J**

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-9	2/20/18	<0.00200	<0.00200	<0.00200	<0.00200
MW-9	5/24/18	**0.00381**	<0.000367	<0.000657	<0.000630
MW-9	8/23/18	**0.00860**	<0.00100	<0.000500	**0.00161**
MW-9	11/15/18	**0.0345**	**0.00167**	**0.00363**	**0.00231**
MW-9 (rerun)	11/15/18	**0.0323**	**0.00126**	**0.00365**	**0.00230**
MW-9	2/26/19	**0.0231**	**0.00116**	**0.000222 J**	**<0.000150**
MW-9	5/30/19	**0.0513**	**0.00219**	<0.000160	**0.00616**
MW-9	7/30/19	**0.0474**	**0.000835**	**0.000327**	**0.00497**
MW-9	10/17/19	**0.00928**	**0.000656 J**	<0.000160	**0.0106**
MW-9	2/25/20	**0.00571**	<0.000412	<0.000160	<0.000510
MW-9 (Dup-1)	2/25/20	**0.00609**	<0.000412	<0.000160	<0.000510
MW-9	5/27/20	**0.00401**	<0.000412	<0.000160	<0.000510
MW-9 (DUP-2)	5/27/20	**0.00984**	<0.000412	**0.000192 J**	**0.00115 J**
MW-9	9/18/20	**0.00530**	<0.000412	<0.000160	<0.000510
MW-9	11/4/20	**0.00318**	<0.000412	<0.000160	<0.000510
MW-9 (DUP-1)	11/4/20	**0.00281**	**0.000463 J**	**0.000172 J**	<0.000510
MW-9	2/25/21	**0.00301**	<0.000412	<0.000160	<0.000510
MW-9	5/12/21	**0.00229**	**0.000458 J**	<0.000160	<0.000510
MW-9	8/25/21	**0.00351**	<0.000412	<0.000160	<0.000510
MW-9	11/16/21	**0.00343**	<0.000278	**0.000146 J**	**0.000422 J**
MW-9	2/22/22	**0.00144**	**0.000453 J**	<0.000160	<0.000510
MW-9	5/25/22	**0.00176 J**	<0.000998	<0.000462	<0.00132
MW-9	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	11/3/22	**0.00459**	<0.000412	<0.000160	<0.000510
MW-10	11/30/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-10 DUP-2	11/30/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-10	2/20/18	<0.00200	<0.00200	<0.00200	<0.00200
MW-10	5/24/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-10	8/23/18	<0.000500	<0.00100	<0.000500	<0.00150
MW-10	11/15/18	**0.0180**	**0.000706 J**	<0.000160	**0.000795 J**
MW-10 (rerun)	11/15/18	**0.0159**	<0.000412	<0.000160	<0.000510
MW-10	2/26/19	**0.00108**	<0.000412	<0.000160	<0.000510
MW-10	5/30/19	**0.0386**	**0.000570**	**0.000197**	<0.000510
MW-10	7/30/19	**0.0314**	<0.000412	<0.000160	<0.000510
MW-10	10/16/19	**0.0456**	**0.000642 J**	**0.000253 J**	**0.00576**
MW-10 (Dup-1)	10/16/19	**0.0343**	**0.000542 J**	**0.000281 J**	**0.00449**
MW-10	2/25/20	**0.00353**	<0.000412	<0.000160	<0.000510
MW-10	5/27/20	**0.00258**	<0.000412	<0.000160	<0.000510
MW-10	9/17/20	**0.00220**	<0.000412	<0.000160	<0.000510
MW-10	11/4/20	**0.00164**	<0.000412	<0.000160	<0.000510
MW-10	2/25/21	**0.000851**	<0.000412	<0.000160	<0.000510
MW-10	5/12/21	**0.000823**	**0.000467 J**	<0.000160	<0.000510
MW-10	8/25/21	**0.000584**	<0.000412	<0.000160	<0.000510
MW-10	11/16/21	**0.00402**	<0.000278	<0.000137	<0.000174

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SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-10	2/22/22	**0.00162**	**0.000480 J**	<0.000160	<0.000510
MW-10	5/25/22	**0.00207**	<0.000998	<0.000462	<0.00132
MW-10	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-10	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	11/30/17	**0.0128**	**0.0309**	**0.104**	**0.165**
MW-11	2/20/18	<0.00200	<0.00200	<0.00200	**0.0148**
MW-11	5/24/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-11	8/23/18	<0.000500	<0.00100	**0.00239**	**0.00338**
MW-11	11/15/18	**0.0692**	**0.0195**	**0.0119**	**0.0167**
MW-11 (rerun)	11/15/18	**0.0590**	**0.0149**	**0.00996**	**0.0126**
MW-11	2/26/19	**0.0502**	**0.000826 J**	**0.00418**	**0.00343**
MW-11	5/30/19	**0.00585**	<0.000412	**0.000203 J**	**0.00356**
MW-11 (Dup-1)	5/30/19	**0.00512**	<0.000412	**0.000251 J**	**0.00383**
MW-11	7/30/19	**0.0188**	<0.000412	**0.00104**	**0.00185**
MW-11 (Dup-2)	7/30/19	**0.0288**	<0.000412	**0.00157**	**0.00303**
MW-11	10/16/19	**0.00891**	<0.000412	**0.00363**	**0.00298**
MW-11	2/24/20	**0.117**	**0.00785**	**0.00500**	**0.0305**
MW-11	5/27/20	**0.00193**	<0.000412	**0.000191 J**	<0.000510
MW-11	9/17/20	**0.00287**	<0.000412	**0.00243**	**0.000799 J**
MW-11	11/4/20	**0.0138**	<0.000412	**0.00177**	**0.00142 J**
MW-11	2/25/21	**0.0429**	**0.000905 J**	**0.00459**	**0.00545**
MW-11	5/12/21	**0.0144**	<0.000412	**0.00339**	**0.00148 J**
MW-11	8/25/21	**0.00644**	<0.000412	<0.000160	<0.000510
MW-11	11/16/21	**0.238**	**0.00813**	**0.00645**	**0.0342**
MW-11 (DUP)	11/16/21	**0.231**	**0.00804**	**0.00637**	**0.0343**
MW-11	2/22/22	**0.0127**	<0.000412	**0.000191 J**	**0.000667 J**
MW-11	5/25/22	**0.0316**	<0.000998	<0.000462	**0.00288 J**
MW-11	9/13/22	**0.0057**	<0.000412	<0.000160	<0.000510
MW-11	11/3/22	**0.0146**	<0.000412	<0.000160	<0.000510
MW-12	11/30/17	**0.153**	**0.0420**	**0.0210**	**0.0291**
MW-12	2/20/18	**0.297**	**0.0305**	**0.00774**	**0.0336**
MW-12	5/24/18	**0.391**	**0.138**	**0.00722**	**0.0848**
MW-12	8/23/18	**1.04**	**0.382**	**0.0583**	**0.125**
MW-12	11/15/18	**0.943**	**0.307**	**0.0333**	**0.159**
MW-12	2/26/19	**0.733**	**0.198**	**0.00788 J**	**0.108**
MW-12	5/30/19	**1.14**	**0.264**	**0.0223**	**0.135**
MW-12	7/30/19	LNAPL	--	--	--
MW-12	10/16/19	LNAPL	--	--	--
MW-12	2/24/20	LNAPL	--	--	--
MW-12	5/27/20	LNAPL	--	--	--
MW-12	9/18/20	LNAPL	--	--	--
MW-12	11/4/20	LNAPL	--	--	--
MW-12	2/25/21	LNAPL	--	--	--
MW-12	5/12/21	LNAPL	--	--	--
MW-12	2/22/22	LNAPL	--	--	--

Table 2

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Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-12	5/25/22	LNAPL	--	--	--
MW-12	9/13/22	LNAPL	--	--	--
MW-12	11/3/22	LNAPL	--	--	--
MW-13	11/30/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-13	2/20/18	<0.00200	<0.00200	<0.00200	<0.00200
MW-13	5/24/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-13	8/23/18	<0.000500	<0.00100	<0.000500	<0.00150
MW-13	11/15/18	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	2/26/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	5/30/19	**0.000381 J**	<0.000412	<0.000160	<0.000510
MW-13	7/30/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	10/18/19	**0.000786**	**0.000830 J**	**0.000324 J**	<0.000510
MW-13	2/25/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	5/27/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-13 (DUP-1)	5/27/20	**0.000720**	<0.000412	<0.000160	<0.000510
MW-13	9/18/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	11/4/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	2/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	5/12/21	<0.000190	<0.000412	**0.000161 J**	<0.000510
MW-13	8/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	11/16/21	<0.0000941	<0.000278	<0.000137	<0.000174
MW-13	2/22/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	5/25/22	<0.000493	<0.000998	<0.000462	<0.00132
MW-13	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	11/30/17	<0.00200	**0.000950 J**	**0.00120 J**	**0.00250**
MW-14	2/20/18	<0.00200	<0.00200	<0.00200	<0.00200
MW-14	5/24/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-14	8/23/18	<0.000500	<0.00100	<0.000500	<0.00150
MW-14	11/15/18	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	2/26/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	5/30/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	7/30/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	10/18/19	**0.000443 J**	<0.000412	<0.000160	<0.000510
MW-14	2/25/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	5/27/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	9/18/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	11/4/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	2/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	5/12/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	8/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	11/16/21	<0.0000941	<0.000278	<0.000137	<0.000174
MW-14	2/22/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	5/25/22	<0.000493	<0.000998	<0.000462	<0.00132
MW-14	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-14	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510
Trip Blank	8/23/18	**0.000652**	<0.00100	<0.000500	<0.00150
Trip Blank	11/15/18	<0.000190	<0.000412	<0.000160	<0.000510
Trip Blank	2/26/19	<0.000190	<0.000412	<0.000160	<0.000510
Trip Blank	5/30/19	<0.000190	<0.000412	<0.000160	<0.000510
Trip Blank	7/30/19	<0.000190	<0.000412	<0.000160	<0.000510
Trip Blank	2/25/20	<0.000190	<0.000412	<0.000160	**0.000659 J**
Trip Blank	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510

Notes:

1. Sample results listed prior to December 12, 2016 were collected and reported by Basin Environmental Service Technologies, LLC.
2. Benzene, toluene, ethylbenzene, and total xylenes (BTEX) analysis by Environmental Protection Agency (EPA) Method SW846-8021B.
3. All reported concentrations are reported as milligrams per Liter (mg/L).
4. Bold font Indicates laboratory detection.
5. Yellow shaded cells indicate results exceeding NMWQCC Human Health Standards.
6. < = Not detected above the Sample Detection Limit.
7. J = Denotes an estimated concentration detected above the Sample Detection Limit and below the Method Quantitation Limit.
8. DUP - Duplicate Sample.
9. LNAPL - Light Non-Aqueous Phase Liquid.
10. -- = No analytical data reported for corresponding date.

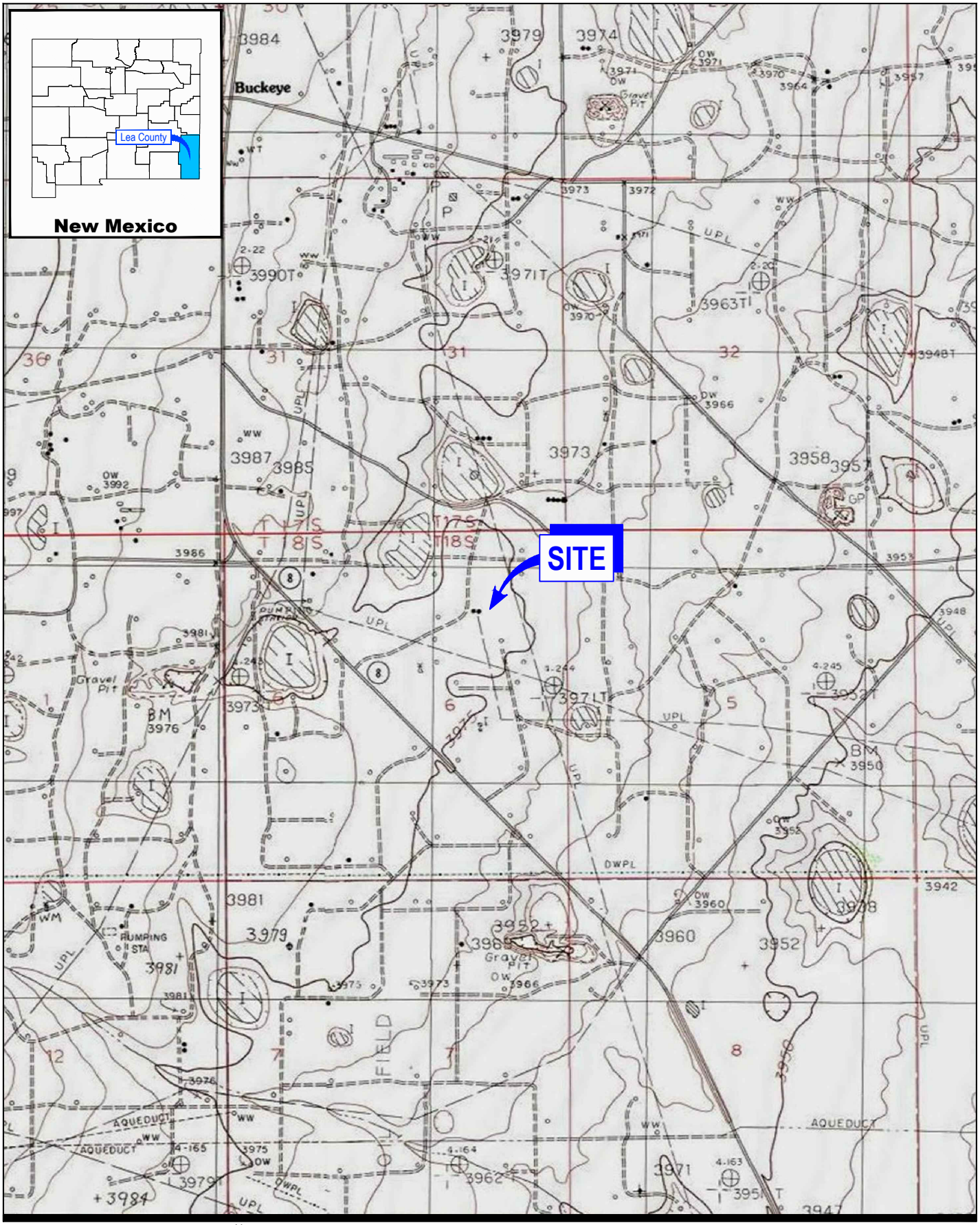
Table 3

Summary of Groundwater PAH Compound Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

Monitoring Well ID	Sample Date	Anthracene	Acenaphthene	Acenaphthylene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.001**	**0.001**	**0.001**	**0.001**	**0.0002**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.03**	**0.001**	**0.001**	**0.03**	**0.03**
MW-1	7/3/12	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	**0.00672**	<0.00526	<0.00526	NA	<0.00526
MW-1	5/7/14	<0.000050	**0.000368**	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	**0.00247**	<0.000050	**0.00173**	<0.000050	**0.00974**	**0.00171**	<0.000050	NA	NA
MW-1	11/29/17	<0.000183	<0.000183	<0.000183	**0.000331**	**0.000355**	**0.000428**	**0.000453**	**0.000580**	**0.000449**	**0.000525**	**0.000343**	**0.000132 J**	**0.000646**	**0.000563**	**0.00252**	**0.000619**	**0.000173 J**	**0.00185**	**0.00207**
MW-1	11/15/18	**0.0000551**	**0.0000435 J**	<0.0000120	<0.00000410	<0.0000116	**0.00000549 J**	**0.00000294 J**	<0.0000136	**0.0000125 J**	<0.00000396	**0.000171**	<0.0000157	**0.000289**	<0.0000148	**0.000655**	**0.000158**	**0.0000279 J**	**0.00154**	**0.000366**
MW-2	7/3/12	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	NA	<0.00526
MW-2	5/7/14	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	NA	NA
MW-2	10/16/19	<0.0000280	<0.0000200	<0.0000240	<0.00000820	<0.0000232	<0.00000424	<0.00000454	<0.0000272	<0.0000216	<0.00000792	**0.00000625 J**	<0.0000314	<0.0000170	<0.0000296	<0.0000396	<0.0000164	<0.0000234	<0.0000164	<0.0000180
MW-2	11/4/20	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	<0.0000191	<0.0000270	<0.0000169	<0.0000158	<0.0000917	<0.0000180	<0.0000169	<0.0000687	<0.0000674
MW-3	7/3/12	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	NA	<0.00510
MW-3	5/7/14	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	NA	NA
MW-3	11/15/18	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.000318**	<0.0000157	**0.000213**	<0.0000148	**0.000793**	**0.0000760**	<0.0000117	**0.000752**	<0.00000902
MW-3	10/16/19	<0.0000140	**0.0000136 J**	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.000328**	<0.0000157	**0.000144**	<0.0000148	**0.000383**	**0.0000916**	<0.0000117	**0.000377**	**0.0000142 J**
MW-4	7/3/12	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	NA	<0.00510
MW-4	11/29/17	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	**0.000133 J**	<0.000183	**0.000170 J**	**0.000316**	<0.000183	NA	NA
MW-4	11/15/18	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00000120 J**	<0.0000157	<0.00000850	<0.0000148	**0.000148 J**	<0.00000820	<0.0000117	**0.00000905 J**	<0.00000902
MW-4	10/17/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00000512 J**	<0.0000157	<0.00000850	<0.0000148	**0.0000354 J**	<0.00000820	<0.0000117	**0.0000108 J**	**0.0000110 J**
MW-5	3/8/13	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	NA	<0.0103
MW-5	5/7/14	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	NA	NA
MW-5	10/17/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00000465 J**	<0.0000157	<0.00000850	<0.0000148	**0.0000242 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-5 (Dup-2)	10/17/19	<0.0000140	**<0.0000100**	<0.0000120	<0.00000410	<0.0000116	**0.00000431 J**	**0.00000262 J**	<0.0000136	<0.0000108	<0.00000396	**0.00000588 J**	<0.0000157	<0.00000850	<0.0000148	**0.0000270 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-5	11/4/20	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	<0.0000191	<0.0000270	<0.0000169	<0.0000158	<0.0000917	<0.0000180	<0.0000169	<0.0000687	<0.0000674
MW-6	3/8/13	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	NA	<0.0102
MW-6	5/7/14	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	NA	NA
MW-6	10/16/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00000614 J**	<0.0000157	<0.00000850	<0.0000148	**0.0000337 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-6	11/4/20	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	<0.0000191	<0.0000270	<0.0000169	<0.0000158	<0.0000917	<0.0000180	<0.0000169	<0.0000687	<0.0000674
MW-7	3/8/13	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	**0.0058**	<0.0102	**0.00408**	<0.0102	**0.0652**	**0.00537**	<0.0102	NA	**0.0535**
MW-8	11/30/17	<0.000184	**0.000649**	**0.000610**	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	**0.000344**	<0.000184	**0.00247**	<0.000184	**0.00341**	<0.000184	**0.0633**	**0.00427**	**0.000304**	NA	NA
MW-8	11/15/18	<0.0000140	**0.000412**	<0.0000120	<0.00000410	<0.0000116	**0.00000608 J**	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00401**	<0.0000157	**0.00303**	<0.0000148	**0.0812**	**0.00157**	**0.0000203 J**	**0.0945**	**0.659**
MW-8	10/17/19	**0.0000821**	**0.000540**	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00425**	<0.0000157	**0.00322**	<0.0000148	**0.0538**	**0.00203**	**0.0000247 J**	**0.0726**	**0.0517**
MW-8	11/4/20	**0.000112**	**0.000355**	**0.0005030**	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	**0.00504**	<0.0000270	**0.00332**	<0.0000158	**0.0663**	**0.00313**	<0.0000169	**0.0737**	**0.0471**
MW-8	11/16/21	<0.0000190	**0.000543**	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	**0.0000319 J**	<0.0000160	**0.00388**	**0.0000372 J**	**0.00332**	<0.0000158	**0.0552**	**0.00297**	**0.0000344 J**	**0.0542**	**0.0272**
MW-8	11/3/22	<0.0000190	**0.000511**	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	**0.0000259 J**	<0.0000160	**0.00372**	**0.0000368 J**	**0.00307**	<0.0000158	**0.0415**	**0.00329**	**0.0000363 J**	**0.0384**	**0.0178**
MW-9	11/30/17	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	**0.000134 J**	<0.000183	**0.000134 J**	**0.000305**	<0.000183	NA	NA
MW-9	11/15/18	<0.0000140	**0.0000145 J**	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.000382**	<0.0000157	**0.000117**	<0.0000148	**0.000406**	**0.000137**	<0.0000117	**0.000418**	**0.0000156 J**
MW-9	10/17/19	<0.0000140	**0.0000500 J**	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00123**	<0.0000157	**0.000509**	<0.0000148	**0.00127**	**0.000503**	<0.0000117	**0.00124**	**0.0000655 J**
MW-9	11/4/20	<0.0000190	**0.0000267 J**	**0.0000656**	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	**0.00123**	<0.0000270	**0.000476**	<0.0000158	**0.00113**	**0.000438**	<0.0000169	**0.00126**	<0.0000674
MW-9	11/16/21	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	**0.000614**	<0.0000270	**0.000209**	<0.0000158	**0.000334**	**0.000252**	<0.0000169	**0.000339 J4**	<0.0000674 J4
MW-9	11/3/22	<0.000190	<0.000190	<0.000171	<0.000203	<0.000184	<0.000168	<0.000184	<0.000202	<0.000179	<0.000160	**0.000232**	**0.0000301 J**	**0.000070**	<0.0000158	**0.000114 J**	**0.000078**	**0.0000236 J**	**0.0000915 J**	<0.0000674 J4
MW-10	11/30/17	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	**0.000151 J**	<0.000184	**0.000163 J**	**0.000347**	<0.000184	NA	NA
MW-10	11/15/18	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	<0.00000105	<0.0000157	<0.00000850	<0.0000148	**0.000214 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-10	10/16/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.000443**	<0.0000157	**0.000122**	<0.0000148	**0.000769**	**0.000190**	<0.0000117	**0.00255**	**0.0000235 J**
MW-10 (Dup-1)	10/16/19	<0.0000140	**0.0000149 J**	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.000369**	<0.0000157	**0.000114**	<0.0000148	**0.000606**	**0.000151**	<0.0000117	**0.00235**	**0.0000199 J**
MW-11	11/30/17	<0.000180	**0.000323**	**0.000333**	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	**0.000199**	<0.000180	**0.00135**	<0.000180	**0.00218**	<0.000180	**0.00103**	**0.00245**	**0.000187**	NA	NA
MW-11	11/15/18	**0.0000142 J**	<0.0000100	<0.0000120	<0.00000410	<0.0000116	**0.00000386 J**	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00000319 J**	<0.0000157	<0.00000850	<0.0000148	**0.0000571 J**	**0.0000111 J**	**0.0000206 J**	<0.00000821	<0.00000902
MW-11	10/16/19	<0.0000140	**0.0000316 J**	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.000202**	<0.0000157	**0.000147**	<0.0000148	**0.000887**	**0.0000995**	<0.0000117	**0.00176**	**0.000774**
MW-12	11/30/17	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	**0.000190**	<0.000180	**0.000456**	**0.000338**	<0.000180	NA	NA
MW-12	11/15/18	<0.0000140	**0.0000333 J**	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.000307**	<0.0000157	**0.000239**	<0.0000148	**0.00387**	**0.000123**	<0.0000117	**0.00356**	**0.000992**
MW-13	11/30/17	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000370	**0.000257**	<0.000185	<0.000111	**0.000630**
MW-13	11/15/18	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	**0.00000233 J**	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00000169 J**	<0.0000157	<0.00000850	<0.0000148	**0.0000813 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-14	11/30/17	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	**0.000131 J**	<0.000182	**0.000148 J**	**0.000323**	<0.000182	<0.000109 U K	**0.000734**
MW-14	11/15/18	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	<0.00000105	<0.0000157	<0.00000850	<0.0000148	**0.0000956 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902

Notes:

1. Sample results listed from 2012 and 2014 were collected and reported by Basin Environmental Service Technologies, LLC.
2. Polycyclic Aromatic Hydrocarbons (PAH) analysis by Environmental Protection Agency (EPA) Method SW846-8270C-SIM.
3. All reported concentrations are reported as milligrams per Liter (mg/L).
4. Bold font indicates laboratory detection.
5. Yellow shaded cells indicate results exceeding NMWQCC Human Health Standards.
6. Green shaded cells indicate results meeting NMWQCC regulatory requirement of 2 consecutive years of PAH compounds below the Human Health Standards.
7. < = Not detected above the Sample Detection Limit.
8. NA - No Analysis
9. J - Denotes an estimated concentration detected above the Sample Detection Limit and below the Method Quantitation Limit.
10. NMWQCC Human Health Standard for combined naphthalene + 1-methylnaphthalene + 2-methylnaphthalene is 0.03 mg/L per NMAC 20.6.2.3103 A.(1)(jj).



0 1000 2000 ft

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

N

GHD

PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

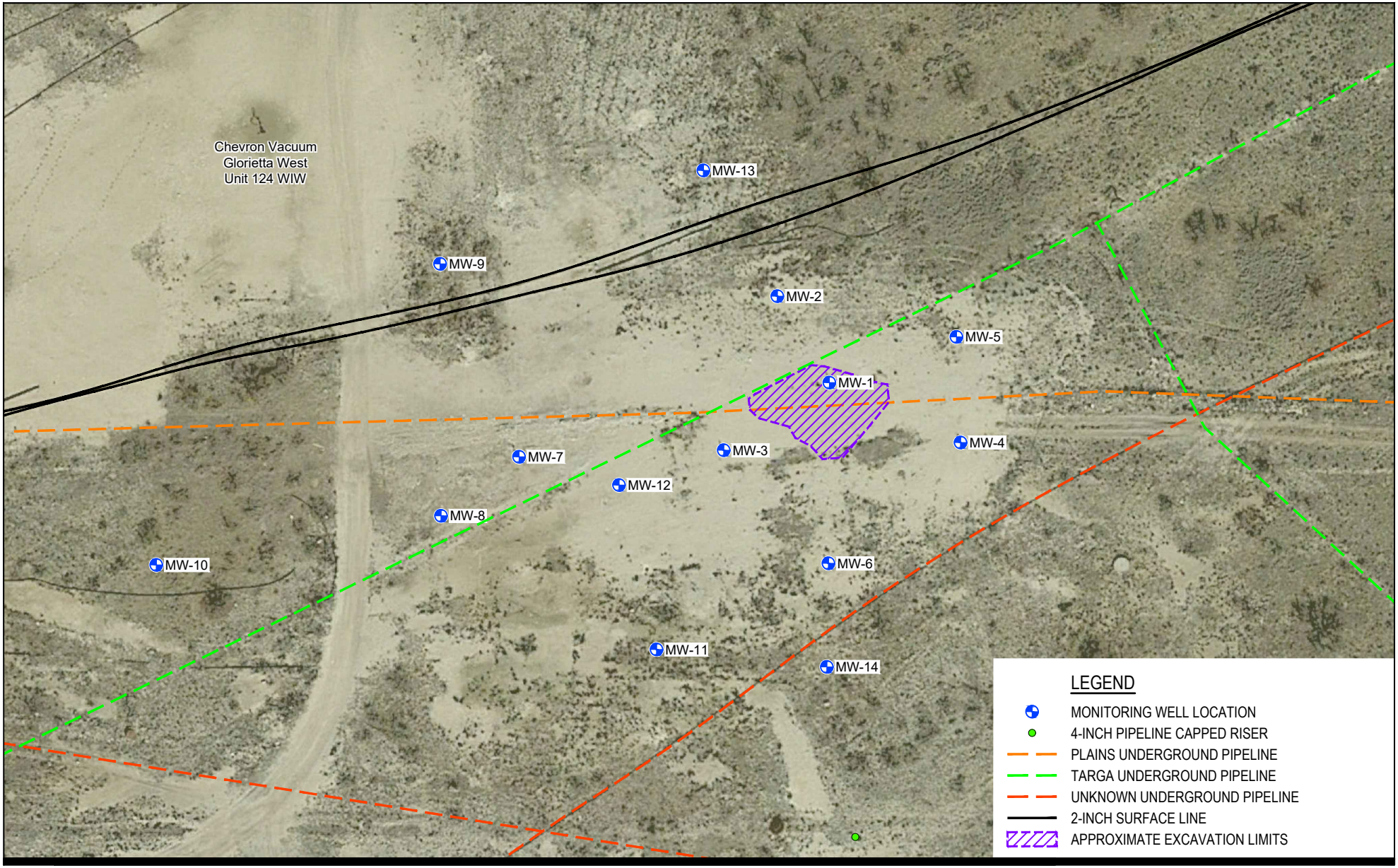
Project No. **12572712**
Date **February 2023**

SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572712\Digital_Design\ACAD\Figures\GWR2022\12572712-GHD-0000-RPT-EN-0101_DL-2022.dwg

Data Source: USGS 7.5 Minute Quad "Lovington SW and Buckeye, New Mexico"
Lat/Long: 32.78091° North, 103.492240° West



N

0 30 60 ft

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

GHD

PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

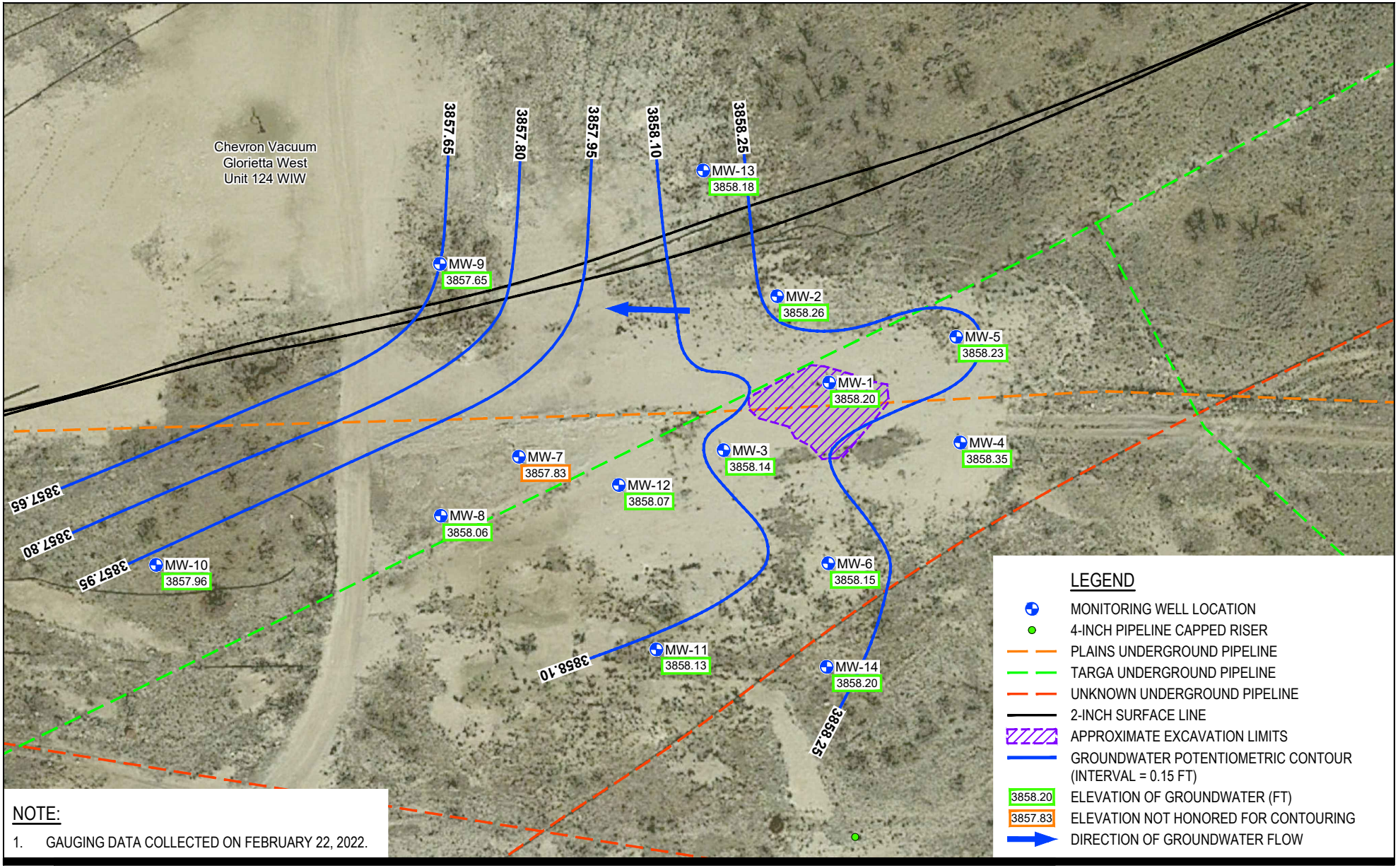
Project No. **12572712**
Date **March 2023**

SITE DETAILS MAP

FIGURE 2

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572712\Digital_Design\ACAD\Figures\GWR2022\12572712-GHD-0000-RPT-EN-0101_DL-2022.dwg
Plot Date: 21 March 2023 10:14 AM

Data Source: Source: Image © 2016 Google - Imagery Date: February 1, 2017
Lat/Long: 32.78091° North, 103.492240° West



N

0 30 60 ft

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

GHD

PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

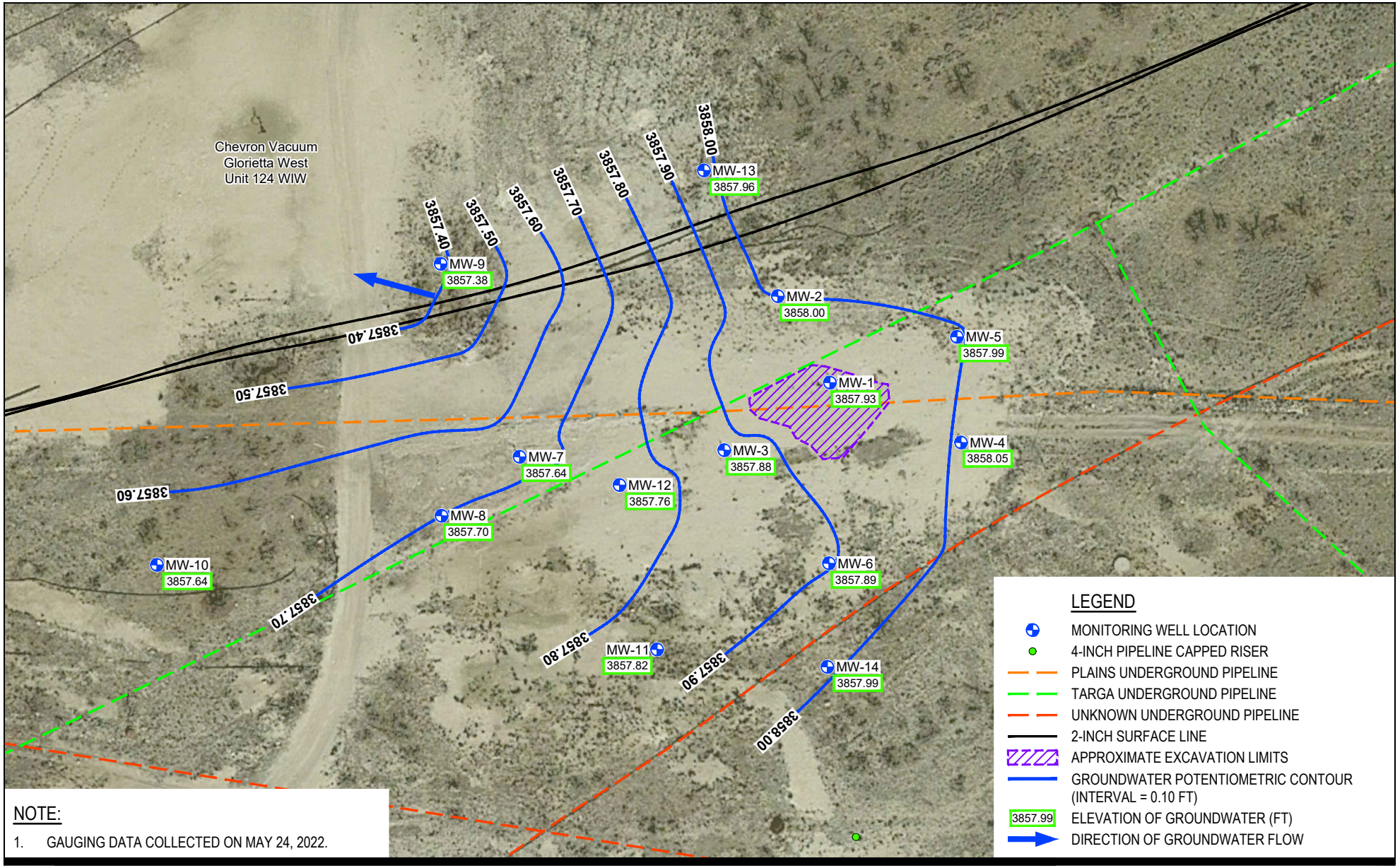
GROUNDWATER GRADIENT MAP
FEBRUARY 22, 2022

Project No. **12572712**
Date **March 2023**

FIGURE 3

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572712\Digital_Design\ACAD\Figures\GWR2022\12572712-GHD-0000-RPT-EN-0101_DL-2022.dwg

Data Source: Source: Image © 2016 Google - Imagery Date: February 1, 2017
Lat/Long: 32.78091° North, 103.492240° West



PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

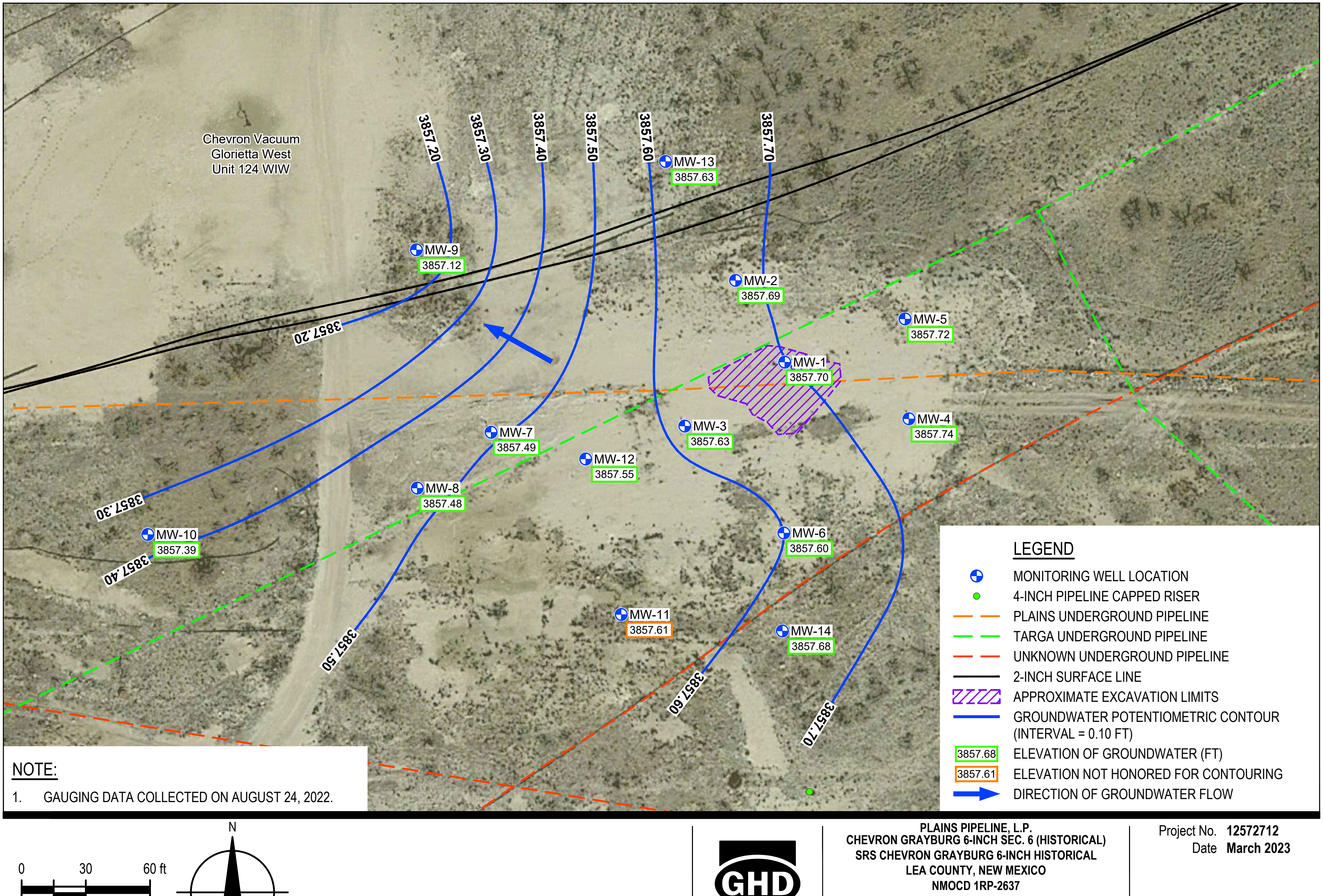
GROUNDWATER GRADIENT MAP
MAY 24, 2022

Project No. **12572712**
Date **March 2023**

FIGURE 4

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572712\Digital_Design\ACAD\Figures\GWR2022\12572712-GHD-0000-RPT-EN-0101_DL-2022.dwg
Last Saved Date: 2023

Data Source: Source: Image © 2016 Google - Imagery Date: February 1, 2017
Lat/Long: 32.78091° North, 103.492240° West



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

GHD

PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

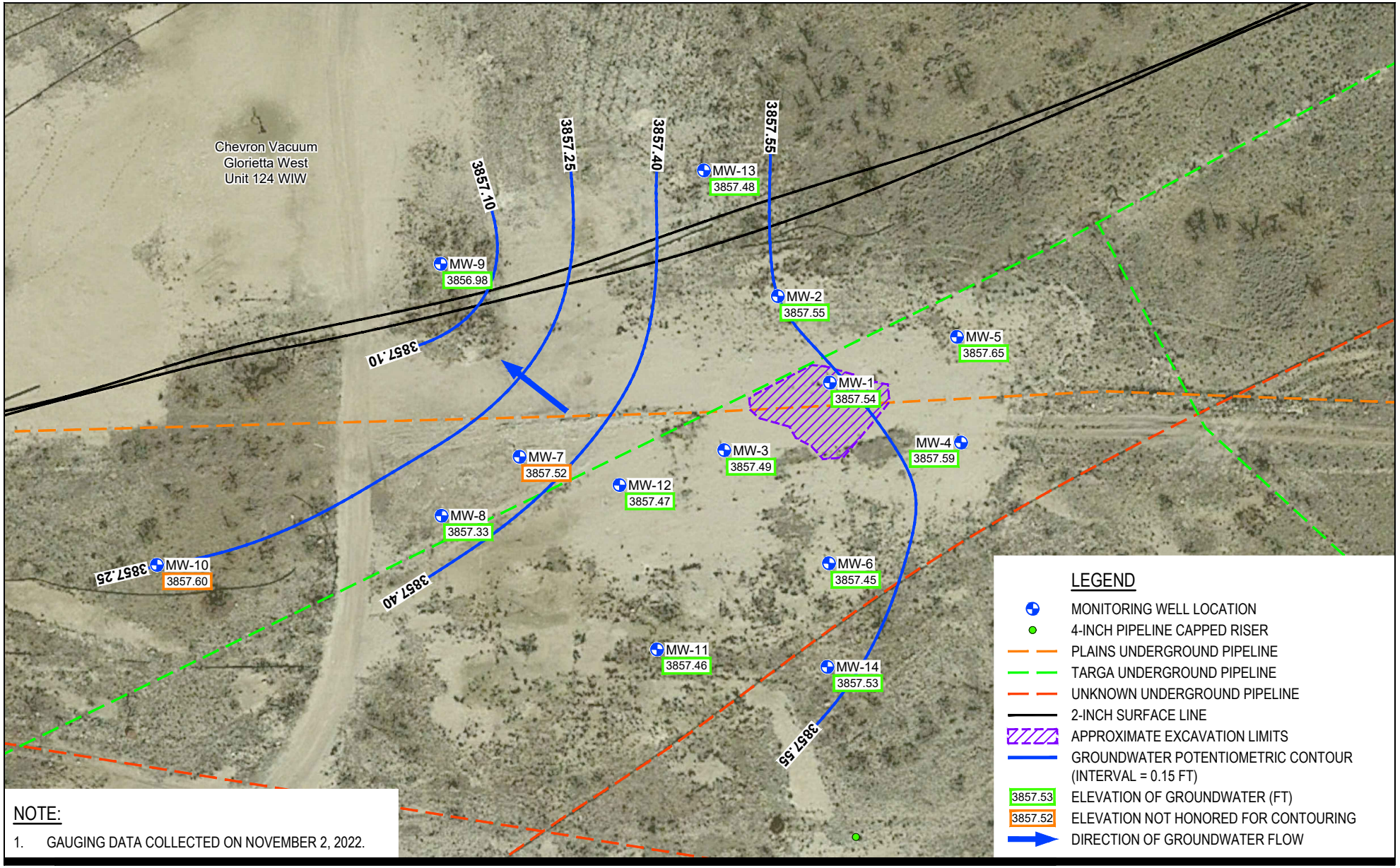
GROUNDWATER GRADIENT MAP
AUGUST 24, 2022

Project No. **12572712**
Date **March 2023**

FIGURE 5

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572712\Digital_Design\ACAD\Figures\GWR2022\12572712-GHD-0000-RPT-EN-0101_DL-2022.dwg

Data Source: Source: Image © 2016 Google - Imagery Date: February 1, 2017
Lat/Long: 32.78091° North, 103.492240° West



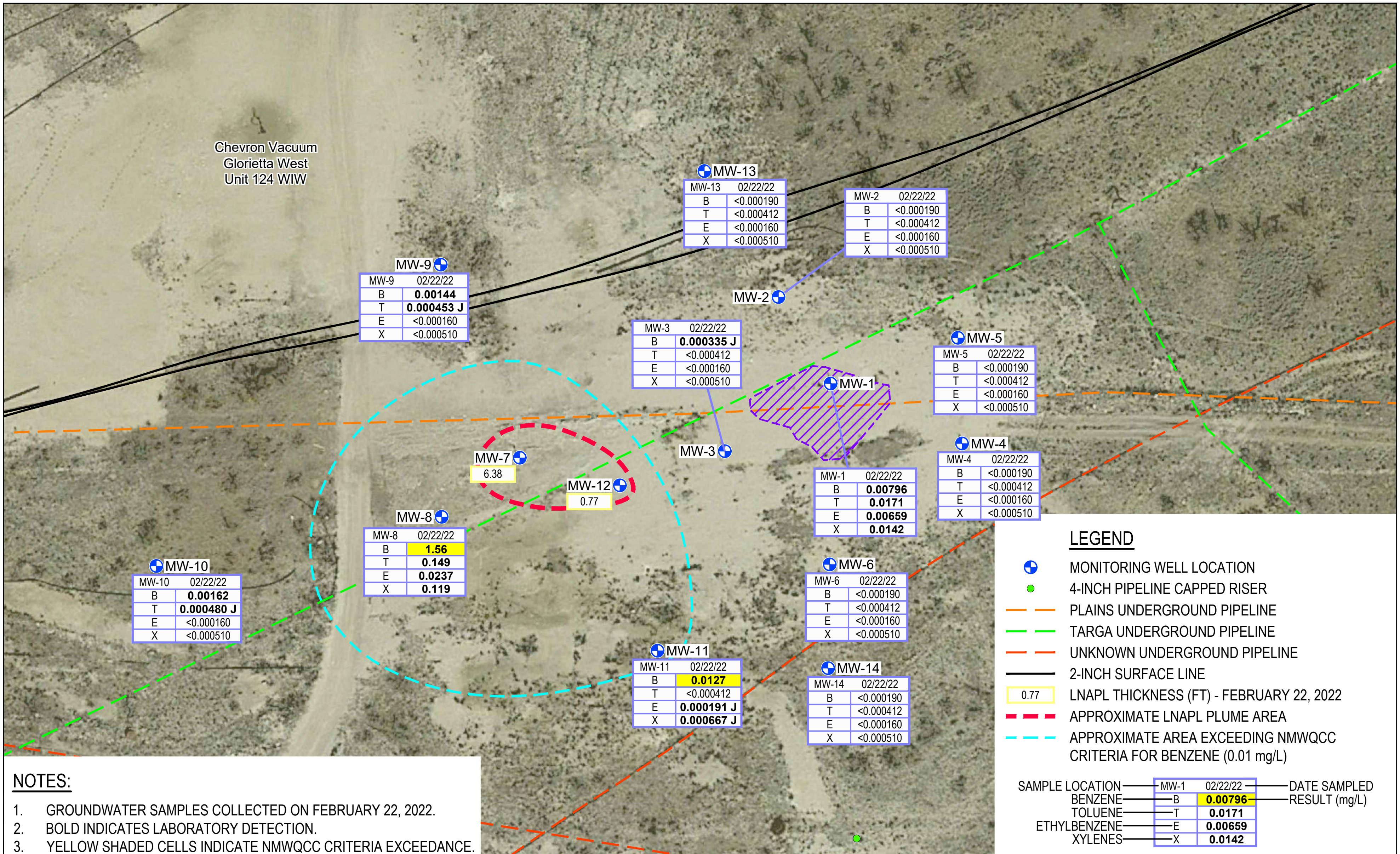
PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

GROUNDWATER GRADIENT MAP
NOVEMBER 2, 2022

Project No. **12572712**
Date **March 2023**

FIGURE 6

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572712\Digital_Design\ACAD\Figures\GWR2022\12572712-GHD-0000-RPT-EN-0101_DL-2022.dwg
Data Source: Source: Image © 2016 Google - Imagery Date: February 1, 2017
Lat/Long: 32.78091° North, 103.492240° West



0 30 60 ft

N

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

PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

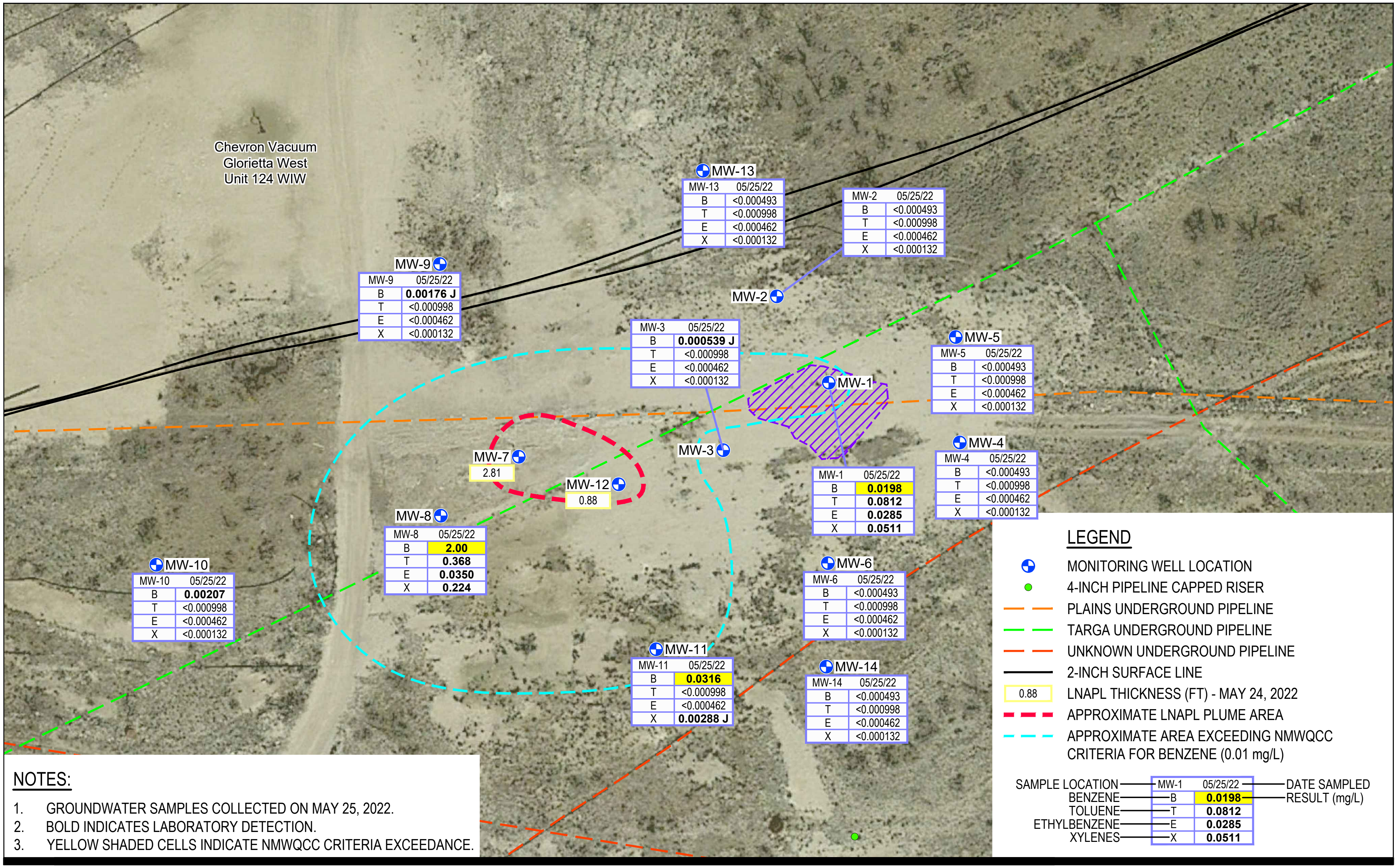
GROUNDWATER BTEX CONCENTRATION MAP
FEBRUARY 22, 2022

Project No. **12572712**
Date **March 2023**

FIGURE 7

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572712\Digital_Design\ACAD\Figures\GWR2022\12572712-GHD-0000-RPT-EN-0101_DL-2022.dwg

Data Source: Source: Image © 2016 Google - Imagery Date: February 1, 2017
Lat/Long: 32.78091° North, 103.492240° West



NOTES:

1. GROUNDWATER SAMPLES COLLECTED ON MAY 25, 2022.
2. BOLD INDICATES LABORATORY DETECTION.
3. YELLOW SHADED CELLS INDICATE NMWQCC CRITERIA EXCEEDANCE.

0 30 60 ft

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

N

PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

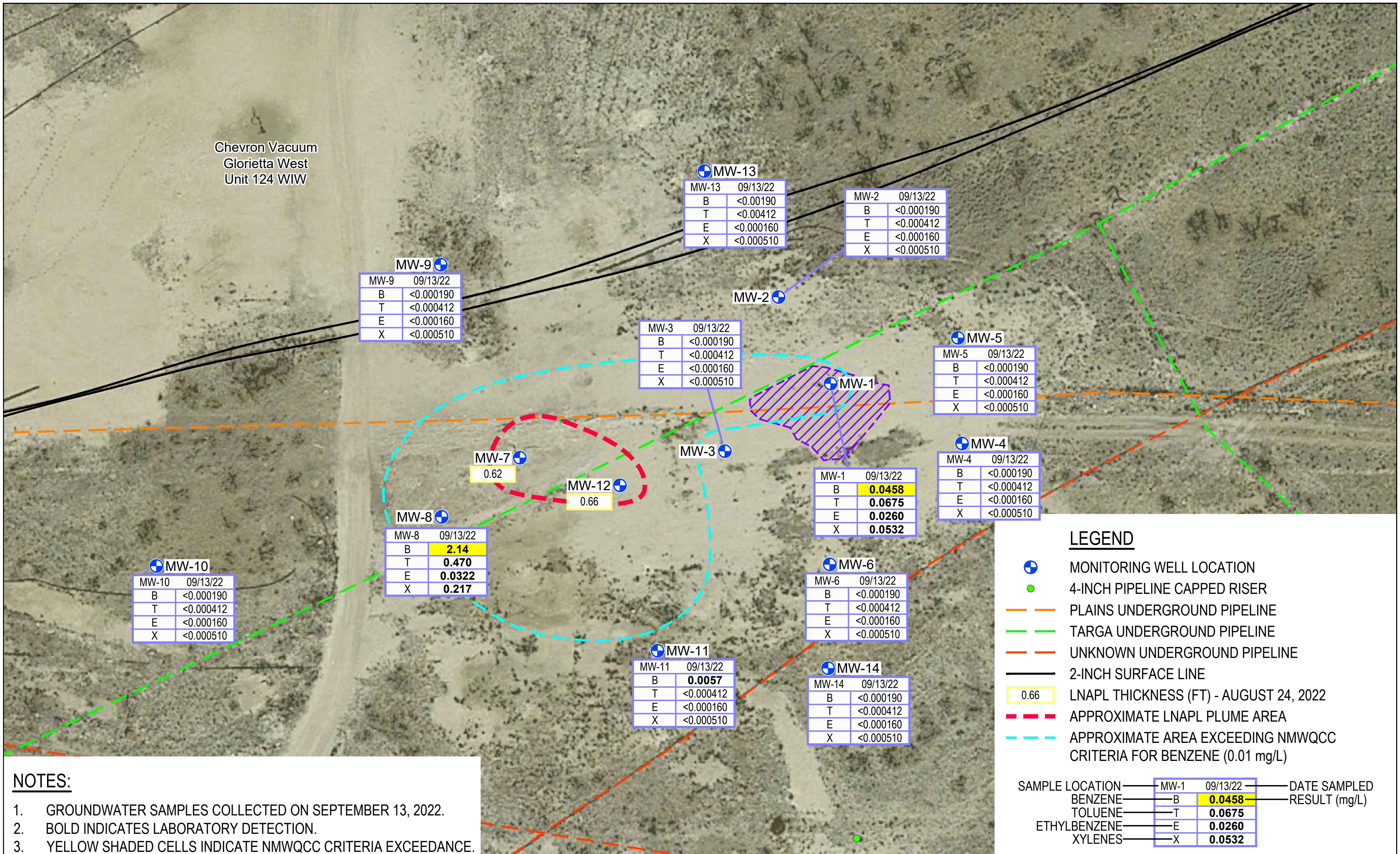
GROUNDWATER BTEX CONCENTRATION MAP
MAY 25, 2022

Project No. **12572712**
Date **March 2023**

FIGURE 8

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572712\Digital_Design\ACAD\Figures\GWR2022\12572712-GHD-0000-RPT-EN-0101_DL-2022.dwg

Data Source: Source: Image © 2016 Google - Imagery Date: February 1, 2017
Lat/Long: 32.78091° North, 103.492240° West



MW-1	09/13/22
B	**0.0458**
T	**0.0675**
E	**0.0260**
X	**0.0532**

MW-2	09/13/22
B	<0.000190
T	<0.000412
E	<0.000160
X	<0.000510

MW-3	09/13/22
B	<0.000190
T	<0.000412
E	<0.000160
X	<0.000510

MW-4	09/13/22
B	<0.000190
T	<0.000412
E	<0.000160
X	<0.000510

MW-5	09/13/22
B	<0.000190
T	<0.000412
E	<0.000160
X	<0.000510

MW-6	09/13/22
B	<0.000190
T	<0.000412
E	<0.000160
X	<0.000510

MW-8	09/13/22
B	**2.14**
T	**0.470**
E	**0.0322**
X	**0.217**

MW-9	09/13/22
B	<0.000190
T	<0.000412
E	<0.000160
X	<0.000510

MW-10	09/13/22
B	<0.000190
T	<0.000412
E	<0.000160
X	<0.000510

MW-11	09/13/22
B	**0.0057**
T	<0.000412
E	<0.000160
X	<0.000510

MW-13	09/13/22
B	<0.00190
T	<0.00412
E	<0.000160
X	<0.000510

MW-14	09/13/22
B	<0.000190
T	<0.000412
E	<0.000160
X	<0.000510

NOTES:

1. GROUNDWATER SAMPLES COLLECTED ON SEPTEMBER 13, 2022.
2. BOLD INDICATES LABORATORY DETECTION.
3. YELLOW SHADED CELLS INDICATE NMWQCC CRITERIA EXCEEDANCE.

LEGEND

- MONITORING WELL LOCATION
- 4-INCH PIPELINE CAPPED RISER
- PLAINS UNDERGROUND PIPELINE
- TARGA UNDERGROUND PIPELINE
- UNKNOWN UNDERGROUND PIPELINE
- 2-INCH SURFACE LINE
- 0.66 LNAPL THICKNESS (FT) - AUGUST 24, 2022
- APPROXIMATE LNAPL PLUME AREA
- APPROXIMATE AREA EXCEEDING NMWQCC CRITERIA FOR BENZENE (0.01 mg/L)

SAMPLE LOCATION — MW-1 09/13/22 — DATE SAMPLED
BENZENE — B 0.0458 — RESULT (mg/L)
TOLUENE — T 0.0675
ETHYLBENZENE — E 0.0260
XYLENES — X 0.0532

0 30 60 ft

N

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

GHD

PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

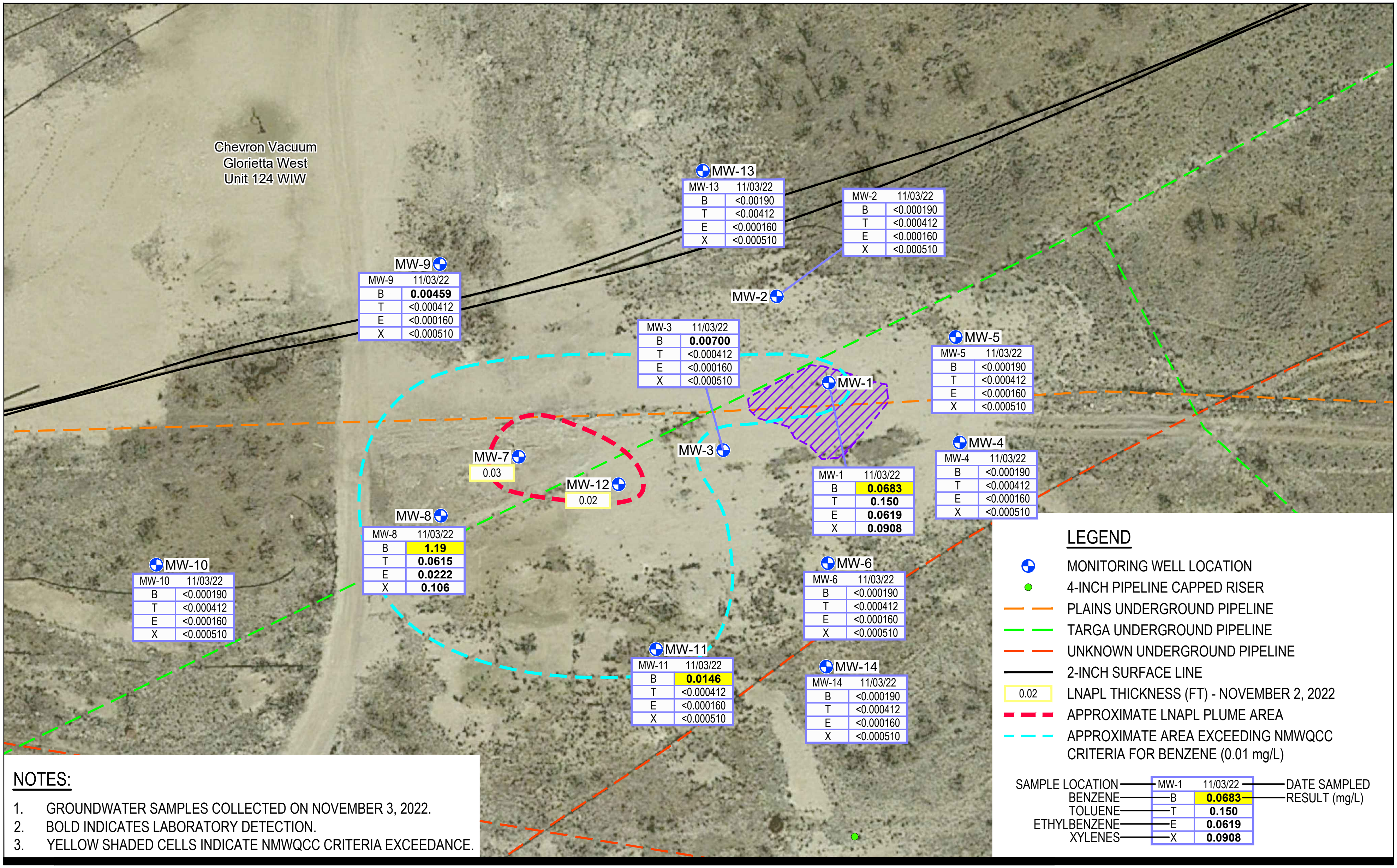
GROUNDWATER BTEX CONCENTRATION MAP SEPTEMBER 13, 2022

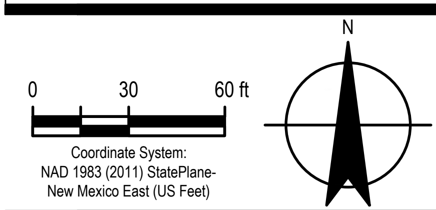
Project No. **12572712**
Date **March 2023**

FIGURE 9

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572712\Digital_Design\ACAD\Figures\GWR2022\12572712-GHD-0000-RPT-EN-0101_DL-2022.dwg

Data Source: Source: Image © 2016 Google - Imagery Date: February 1, 2017
Lat/Long: 32.78091° North, 103.492240° West





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

GHD

PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

GROUNDWATER BTEX CONCENTRATION MAP
NOVEMBER 3, 2022

Project No. **12572712**
Date **March 2023**

FIGURE 10

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572712\Digital_Design\ACAD\Figures\GWR2022\12572712-GHD-0000-RPT-EN-0101_DL-2022.dwg
Plot Date: 21 March 2023

Data Source: Source: Image © 2016 Google - Imagery Date: February 1, 2017
Lat/Long: 32.78091° North, 103.492240° West

Appendices

Appendix A

Release Notification and Corrective Action, Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-14
Revised October 10, 200

Submit 2 Copies to appropriat
District Office in accordanc
with Rule 116 on bac
side of for

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Rep

Name of Company	Plains Pipeline, LP	Contact	Jason Henry
Address	2530 Hwy 214 – Denver City, TX 79323	Telephone No.	(575) 441-1099
Facility Name	Chevron Grayburg 6-inch Sec. 6	Facility Type	Pipeline

Surface Owner	Mineral Owner	Lease No.
NMSLO		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	6	18S	35E					Lea

Latitude N 32.7810858° Longitude W 103.4924927°

WTR 80'

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 120 bbls	Volume Recovered: 115 bbls
Source of Release: 6" Steel Pipeline	Date and Hour of Occurrence: 10/08/2010 @ 10:00	Date and Hour of Discovery: 10/08/2010 @ 10:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Jason Henry	Date and Hour: 10/08/2010 @ 11:30	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

RECEIVED
OCT 15
HOBBS

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Excavator struck a tee connected to the Chevron Grayburg 6" pipeline causing a release of crude oil. Throughput for the subject line is 2,000 bbls/day and the operating pressure of the pipeline is 50 psi. The depth of the pipeline at the release point is approximately 2' bgs. The H2S concentration in the crude is less than 10 ppm and the gravity of the crude is 36.

Describe Area Affected and Cleanup Action Taken.*

The released crude pooled in the trench next to the pipeline and a vac truck was used to recover the free product. The impacted area will be remediated per applicable guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Jason Henry

Printed Name: Jason Henry

Title: Remediation Coordinator

E-mail Address: jhenry@paalp.com

Date: 10-15-2010 Phone: (575) 441-1099

OIL CONSERVATION DIVISION

Approved by District Supervisor: ENVIRONMENTAL ENGINEER

Approval Date: 10.15.10 Expiration Date: 12.15.10

Conditions of Approval: SUBMIT FINAL C-141 W/DOCS BY

Attached ☐

IRP# 10.10.2637

* Attach Additional Sheets If Necessary

Appendix B

Certified Laboratory Analytical Reports

Pace Analytical®

ANALYTICAL REPORT

March 02, 2022

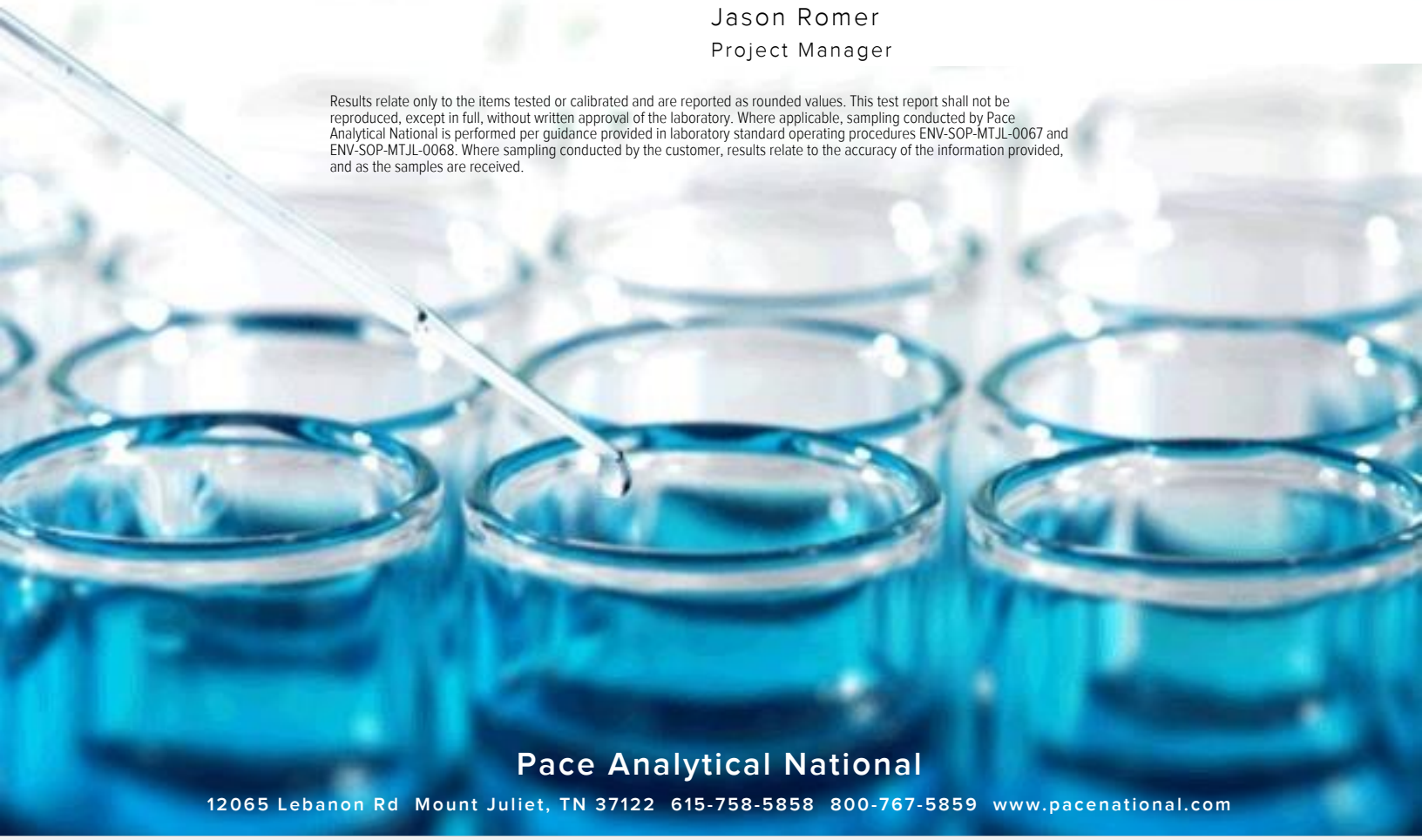
Plains All American, LP - GHD

Sample Delivery Group:	L1465434
Samples Received:	02/25/2022
Project Number:	SRS CHEVRON GRAYBURG
Description:	Chevron Grayburg 6-Inch Historical
Site:	SRS CHEVRON GRAYBURG
Report To:	Becky Haskell 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Jason Romer
Project Manager

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



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

TABLE OF CONTENTS

MW-4-022222 L1465434-01 GW

Collected by: Ryan Livingston | Collected date/time: 02/22/22 12:45 | Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 02:10	02/28/22 02:10	JAH	Mt. Juliet, TN

MW-5-022222 L1465434-02 GW

Collected by: Ryan Livingston | Collected date/time: 02/22/22 13:00 | Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 02:31	02/28/22 02:31	JAH	Mt. Juliet, TN

MW-13-022222 L1465434-03 GW

Collected by: Ryan Livingston | Collected date/time: 02/22/22 13:15 | Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 02:53	02/28/22 02:53	JAH	Mt. Juliet, TN

MW-14-022222 L1465434-04 GW

Collected by: Ryan Livingston | Collected date/time: 02/22/22 13:30 | Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 03:15	02/28/22 03:15	JAH	Mt. Juliet, TN

MW-2-022222 L1465434-05 GW

Collected by: Ryan Livingston | Collected date/time: 02/22/22 13:45 | Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 03:37	02/28/22 03:37	JAH	Mt. Juliet, TN

MW-6-022222 L1465434-06 GW

Collected by: Ryan Livingston | Collected date/time: 02/22/22 14:00 | Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 03:58	02/28/22 03:58	JAH	Mt. Juliet, TN

MW-3-022222 L1465434-07 GW

Collected by: Ryan Livingston | Collected date/time: 02/22/22 14:15 | Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 04:20	02/28/22 04:20	JAH	Mt. Juliet, TN

MW-9-022222 L1465434-08 GW

Collected by: Ryan Livingston | Collected date/time: 02/22/22 14:30 | Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 04:42	02/28/22 04:42	JAH	Mt. Juliet, TN

MW-10-022222 L1465434-09 GW

Collected by: Ryan Livingston
Collected date/time: 02/22/22 14:45
Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 05:03	02/28/22 05:03	JAH	Mt. Juliet, TN

MW-11-022222 L1465434-10 GW

Collected by: Ryan Livingston
Collected date/time: 02/22/22 15:00
Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 05:25	02/28/22 05:25	JAH	Mt. Juliet, TN

MW-1-022222 L1465434-11 GW

Collected by: Ryan Livingston
Collected date/time: 02/22/22 15:15
Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 05:47	02/28/22 05:47	JAH	Mt. Juliet, TN

MW-8-022222 L1465434-12 GW

Collected by: Ryan Livingston
Collected date/time: 02/22/22 15:30
Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 06:09	02/28/22 06:09	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1825697	20	03/02/22 10:40	03/02/22 10:40	ACG	Mt. Juliet, TN

DUP-1-022222 L1465434-13 GW

Collected by: Ryan Livingston
Collected date/time: 02/22/22 00:00
Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 06:31	02/28/22 06:31	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1825697	1	03/02/22 10:18	03/02/22 10:18	ACG	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.

Jason Romer
Project Manager

Revised May 2010

Laboratory Data Package Cover Page

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

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

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

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

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

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

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

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

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

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

b. MS/MSD spiking amounts,

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

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

e. The laboratory's MS/MSD QC limits

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

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

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

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

R10 - Other problems or anomalies.

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

Jason Romer

Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 03/02/2022 14:04
Project Name: Chevron Grayburg 6-Inch Historical	Laboratory Job Number: L1465434-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12 and 13
Reviewer Name: Jason Romer	Prep Batch Number(s): WG1824606 and WG1825697

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

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

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 03/02/2022 14:04
Project Name: Chevron Grayburg 6-Inch Historical	Laboratory Job Number: L1465434-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12 and 13
Reviewer Name: Jason Romer	Prep Batch Number(s): WG1824606 and WG1825697

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

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

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 03/02/2022 14:04
Project Name: Chevron Grayburg 6-Inch Historical	Laboratory Job Number: L1465434-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12 and 13
Reviewer Name: Jason Romer	Prep Batch Number(s): WG1824606 and WG1825697

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

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

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/28/2022 02:10	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 02:10	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 02:10	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 02:10	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/28/2022 02:10*	WG1824606

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/28/2022 02:31	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 02:31	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 02:31	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 02:31	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/28/2022 02:31*	WG1824606

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	02/28/2022 02:53	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 02:53	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 02:53	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 02:53	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/28/2022 02:53*	WG1824606

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/28/2022 03:15	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 03:15	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 03:15	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 03:15	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/28/2022 03:15*	WG1824606

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/28/2022 03:37	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 03:37	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 03:37	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 03:37	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/28/2022 03:37*	WG1824606

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	02/28/2022 03:58	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 03:58	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 03:58	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 03:58	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/28/2022 03:58*	WG1824606

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000335	J	0.000190	0.000500	0.000500	1	02/28/2022 04:20	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 04:20	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 04:20	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 04:20	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/28/2022 04:20*	WG1824606

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00144		0.000190	0.000500	0.000500	1	02/28/2022 04:42	WG1824606
Toluene	0.000453	B J	0.000412	0.00100	0.00100	1	02/28/2022 04:42	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 04:42	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 04:42	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/28/2022 04:42*	WG1824606

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00162		0.000190	0.000500	0.000500	1	02/28/2022 05:03	WG1824606
Toluene	0.000480	B J	0.000412	0.00100	0.00100	1	02/28/2022 05:03	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 05:03	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 05:03	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/28/2022 05:03*	WG1824606

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0127		0.000190	0.000500	0.000500	1	02/28/2022 05:25	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 05:25	WG1824606
Ethylbenzene	0.000191	J	0.000160	0.000500	0.000500	1	02/28/2022 05:25	WG1824606
Total Xylene	0.000667	B J	0.000510	0.00150	0.00150	1	02/28/2022 05:25	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/28/2022 05:25*	WG1824606

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	0.00796		0.000190	0.000500	0.000500	1	02/28/2022 05:47	WG1824606
Toluene	0.0171		0.000412	0.00100	0.00100	1	02/28/2022 05:47	WG1824606
Ethylbenzene	0.00659		0.000160	0.000500	0.000500	1	02/28/2022 05:47	WG1824606
Total Xylene	0.0142		0.000510	0.00150	0.00150	1	02/28/2022 05:47	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/28/2022 05:47*	WG1824606

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	1.56		0.00380	0.000500	0.0100	20	03/02/2022 10:40	WG1825697
Toluene	0.149		0.000412	0.00100	0.00100	1	02/28/2022 06:09	WG1824606
Ethylbenzene	0.0237		0.000160	0.000500	0.000500	1	02/28/2022 06:09	WG1824606
Total Xylene	0.119		0.000510	0.00150	0.00150	1	02/28/2022 06:09	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*96.9*				*79.0-125*		*02/28/2022 06:09*	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*98.4*				*79.0-125*		*03/02/2022 10:40*	WG1825697

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000388	J	0.000190	0.000500	0.000500	1	03/02/2022 10:18	WG1825697
Toluene	0.00175	B	0.000412	0.00100	0.00100	1	02/28/2022 06:31	WG1824606
Ethylbenzene	0.000415	J	0.000160	0.000500	0.000500	1	02/28/2022 06:31	WG1824606
Total Xylene	0.00304	B	0.000510	0.00150	0.00150	1	02/28/2022 06:31	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/28/2022 06:31*	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*100*				*79.0-125*		*03/02/2022 10:18*	WG1825697

Method Blank (MB)

(MB) R3765151-3 02/28/22 00:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	0.000449	J	0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	0.00110	J	0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	*103*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3765151-1 02/27/22 22:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0482	96.4	77.0-122	
Toluene	0.0500	0.0437	87.4	80.0-121	
Ethylbenzene	0.0500	0.0455	91.0	80.0-123	
Total Xylene	0.150	0.130	86.7	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*102*	*79.0-125*	

Method Blank (MB)

(MB) R3765504-3 03/02/22 09:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
(S) a,a,a-Trifluorotoluene(PID)	*101*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3765504-1 03/02/22 07:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0529	106	77.0-122	
(S) a,a,a-Trifluorotoluene(PID)			*99.6*	*79.0-125*	

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	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, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

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

Pres Chk

Analysis / Container / Preservative

Chain of Custody

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: Becky Haskell

Email To: becky.haskell@ghd.com

Project Description: Chevron Grayburg 6-Inch Historical

City/State Collected: Buckeye, NM

Phone: 432-250-7917
Fax:

Client Project #: SRS Chevron Grayburg 6-Inch Historical

Lab Project #: SRS Chevron Grayburg 6-Inch Historical

L# L1465434

1146

Collected by (print): Ryder Livingston

Site/Facility ID #: SRS Chevron Grayburg

P.O. #

Acctnum: PLAINSGHD

Collected by (signature): [signature]

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

Quote #

Template:
Prelogin:
TSR:
PB:
Shipped Via:

Immediately Packed on Ice N ___ Y X

Date Results Needed: Standard TAT Per SSOW

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mLAmb-HCL	Remarks	Sample # (lab only)
MW-4-022222	G	W		2-22-22	12:45	3	3		-01
mw-5-022222	↓	↓		↓	1300	↓	↓		-02
mw-13-022222	↓	↓		↓	1315	↓	↓		-03
mw-14-022222	↓	↓		↓	1330	↓	↓		-04
mw-2-022222	↓	↓		↓	1345	↓	↓		-05
mw-6-022222	↓	↓		↓	1400	↓	↓		-06
mw-3-022222	↓	↓		↓	1415	↓	↓		-07
mw-9-022222	↓	↓		↓	1430	↓	↓		-08
mw-10-022222	↓	↓		↓	1445	↓	↓		-09
mw-11-022222	↓	↓		↓	1500	↓	↓		-10

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

Remarks:
1. Report to SDLs; 2. Flag estimated concentrations;
3. Lab Project #: PLAINSGHD-11209906

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)		
[signature]	2-24-22	13:00	[signature]	Trip Blank Received: Yes / No — HCL / MeoH — TBR	
[signature]	2-24-22	16:00	[signature]	Temp: NCA2 °C 2.6+0=2.6	Bottles Received: 39
			Received for lab by: (Signature) Patricia Smith	Date: 2/25/22	Time: 0830

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

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

Pres Chk

Analysis / Container / Preservative

Chain of Custody

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: Becky Haskell

Email To: becky.haskell@ghd.com

Project Description: Chevron Grayburg 6-Inch Historical

City/State Collected: Buckeye, NM

Phone: 432-250-7917
Fax:

Client Project #: SRS Chevron Grayburg 6-Inch Historical

Lab Project #: SRS Chevron Grayburg 6-Inch Historical

Collected by (print): Ryan Livingston

Site/Facility ID #: SRS Chevron Grayburg

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y X

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: Standard TAT Per SSOW

L# L1465434
Table #
Acctnum: PLAINSGHD
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mLAmb-HCL									Remarks	Sample # (lab only)
MW-1-022222	G	W		2-22-22	1515	3	3										-11
MW-8-022222	↓	↓		2-22-22	1530	↓	↓										-12
DUP-1-022222	↓	↓			—	↓	↓										-13

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

Remarks:
1. Report to SDLs; 2. Flag estimated concentrations;
3. Lab Project #: PLAINSGHD-11209906

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: ✓ __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)		
[signature]	2-24-22	1300	[signature]	Trip Blank Received: Yes / No HCL / MeoH TBR	
[signature]	2-24-22	1630	[signature]	Temp: WS46 °C 2.6+0=2.6	Bottles Received:	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Patricia Smith	Date: 2/25/22 Time:	Hold:	Condition: NCF / OK

ANALYTICAL REPORT

June 01, 2022

Plains All American, LP - GHD

Sample Delivery Group:	L1498601
Samples Received:	05/27/2022
Project Number:	12572712/01
Description:	Chevron Grayburg 6-inch Historical
Site:	SRS CHEVRON GRAYBURG
Report To:	Becky Haskell 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Brittnie L Boyd
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 Services, LLC -Dallas
400 W. Bethany Drive Suite 190 Allen, TX 75013 972-727-1123 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

MW-2 052522 L1498601-01 GW

Collected by: David Fletcher | Collected date/time: 05/25/22 10:00 | Received date/time: 05/27/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/28/22 22:28	05/28/22 22:28	ZST	Allen, TX

MW-4 052522 L1498601-02 GW

Collected by: David Fletcher | Collected date/time: 05/25/22 10:20 | Received date/time: 05/27/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/28/22 22:46	05/28/22 22:46	ZST	Allen, TX

MW-5 052522 L1498601-03 GW

Collected by: David Fletcher | Collected date/time: 05/25/22 10:40 | Received date/time: 05/27/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/28/22 23:04	05/28/22 23:04	ZST	Allen, TX

MW-6 052522 L1498601-04 GW

Collected by: David Fletcher | Collected date/time: 05/25/22 11:00 | Received date/time: 05/27/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/28/22 23:22	05/28/22 23:22	ZST	Allen, TX

MW-13 052522 L1498601-05 GW

Collected by: David Fletcher | Collected date/time: 05/25/22 11:15 | Received date/time: 05/27/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/28/22 23:40	05/28/22 23:40	ZST	Allen, TX

MW-14 052522 L1498601-06 GW

Collected by: David Fletcher | Collected date/time: 05/25/22 11:35 | Received date/time: 05/27/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/28/22 23:58	05/28/22 23:58	ZST	Allen, TX

MW-3 052522 L1498601-07 GW

Collected by: David Fletcher | Collected date/time: 05/25/22 11:55 | Received date/time: 05/27/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/29/22 00:16	05/29/22 00:16	ZST	Allen, TX

MW-9 052522 L1498601-08 GW

Collected by: David Fletcher | Collected date/time: 05/25/22 12:10 | Received date/time: 05/27/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/29/22 00:33	05/29/22 00:33	ZST	Allen, TX

MW-10 052522 L1498601-09 GW

Collected by: David Fletcher
Collected date/time: 05/25/22 12:30
Received date/time: 05/27/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871918	1	05/31/22 12:05	05/31/22 12:05	ZST	Allen, TX

MW-1 052522 L1498601-10 GW

Collected by: David Fletcher
Collected date/time: 05/25/22 13:15
Received date/time: 05/27/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871918	1	05/31/22 12:23	05/31/22 12:23	ZST	Allen, TX

MW-11 052522 L1498601-11 GW

Collected by: David Fletcher
Collected date/time: 05/25/22 13:45
Received date/time: 05/27/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871918	1	05/31/22 12:41	05/31/22 12:41	ZST	Allen, TX

MW-8 052522 L1498601-12 GW

Collected by: David Fletcher
Collected date/time: 05/25/22 14:35
Received date/time: 05/27/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871918	1	05/31/22 12:59	05/31/22 12:59	ZST	Allen, TX
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871918	10	05/31/22 17:30	05/31/22 17:30	ZST	Allen, TX

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.

Brittnie L Boyd
Project Manager

Revised May 2010

Laboratory Data Package Cover Page

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

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

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

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

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

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

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

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

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

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

b. MS/MSD spiking amounts,

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

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

e. The laboratory's MS/MSD QC limits

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

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

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

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

R10 - Other problems or anomalies.

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

Brittnie L Boyd
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 06/01/2022 12:58
Project Name: Chevron Grayburg 6-inch Historical	Laboratory Job Number: L1498601-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1871142 and WG1871918

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

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

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 06/01/2022 12:58
Project Name: Chevron Grayburg 6-inch Historical	Laboratory Job Number: L1498601-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1871142 and WG1871918

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

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

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 06/01/2022 12:58
Project Name: Chevron Grayburg 6-inch Historical	Laboratory Job Number: L1498601-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1871142 and WG1871918

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

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

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000493	0.00200	0.00200	1	05/28/2022 22:28	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/28/2022 22:28	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/28/2022 22:28	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/28/2022 22:28	WG1871142
(S) 1,2-Dichloroethane-d4	*87.9*				*70.0-130*		*05/28/2022 22:28*	WG1871142
(S) 4-Bromofluorobenzene	*104*				*70.0-130*		*05/28/2022 22:28*	WG1871142
(S) Toluene-d8	*97.3*				*70.0-130*		*05/28/2022 22:28*	WG1871142

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000493	0.00200	0.00200	1	05/28/2022 22:46	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/28/2022 22:46	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/28/2022 22:46	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/28/2022 22:46	WG1871142
(S) 1,2-Dichloroethane-d4	*89.1*				*70.0-130*		*05/28/2022 22:46*	WG1871142
(S) 4-Bromofluorobenzene	*105*				*70.0-130*		*05/28/2022 22:46*	WG1871142
(S) Toluene-d8	*96.6*				*70.0-130*		*05/28/2022 22:46*	WG1871142

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000493	0.00200	0.00200	1	05/28/2022 23:04	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/28/2022 23:04	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/28/2022 23:04	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/28/2022 23:04	WG1871142
(S) 1,2-Dichloroethane-d4	*89.1*				*70.0-130*		*05/28/2022 23:04*	WG1871142
(S) 4-Bromofluorobenzene	*105*				*70.0-130*		*05/28/2022 23:04*	WG1871142
(S) Toluene-d8	*97.2*				*70.0-130*		*05/28/2022 23:04*	WG1871142

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000493	0.00200	0.00200	1	05/28/2022 23:22	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/28/2022 23:22	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/28/2022 23:22	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/28/2022 23:22	WG1871142
(S) 1,2-Dichloroethane-d4	*89.3*				*70.0-130*		*05/28/2022 23:22*	WG1871142
(S) 4-Bromofluorobenzene	*105*				*70.0-130*		*05/28/2022 23:22*	WG1871142
(S) Toluene-d8	*97.8*				*70.0-130*		*05/28/2022 23:22*	WG1871142

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000493	0.00200	0.00200	1	05/28/2022 23:40	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/28/2022 23:40	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/28/2022 23:40	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/28/2022 23:40	WG1871142
(S) 1,2-Dichloroethane-d4	*89.7*				*70.0-130*		*05/28/2022 23:40*	WG1871142
(S) 4-Bromofluorobenzene	*106*				*70.0-130*		*05/28/2022 23:40*	WG1871142
(S) Toluene-d8	*96.6*				*70.0-130*		*05/28/2022 23:40*	WG1871142

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000493	0.00200	0.00200	1	05/28/2022 23:58	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/28/2022 23:58	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/28/2022 23:58	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/28/2022 23:58	WG1871142
(S) 1,2-Dichloroethane-d4	*90.6*				*70.0-130*		*05/28/2022 23:58*	WG1871142
(S) 4-Bromofluorobenzene	*104*				*70.0-130*		*05/28/2022 23:58*	WG1871142
(S) Toluene-d8	*96.8*				*70.0-130*		*05/28/2022 23:58*	WG1871142

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000539	J	0.000493	0.00200	0.00200	1	05/29/2022 00:16	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/29/2022 00:16	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/29/2022 00:16	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/29/2022 00:16	WG1871142
(S) 1,2-Dichloroethane-d4	*89.5*				*70.0-130*		*05/29/2022 00:16*	WG1871142
(S) 4-Bromofluorobenzene	*106*				*70.0-130*		*05/29/2022 00:16*	WG1871142
(S) Toluene-d8	*96.8*				*70.0-130*		*05/29/2022 00:16*	WG1871142

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00176	J	0.000493	0.00200	0.00200	1	05/29/2022 00:33	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/29/2022 00:33	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/29/2022 00:33	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/29/2022 00:33	WG1871142
(S) 1,2-Dichloroethane-d4	*90.5*				*70.0-130*		*05/29/2022 00:33*	WG1871142
(S) 4-Bromofluorobenzene	*101*				*70.0-130*		*05/29/2022 00:33*	WG1871142
(S) Toluene-d8	*97.1*				*70.0-130*		*05/29/2022 00:33*	WG1871142

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00207		0.000493	0.00200	0.00200	1	05/31/2022 12:05	WG1871918
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/31/2022 12:05	WG1871918
Toluene	U		0.000998	0.00500	0.00500	1	05/31/2022 12:05	WG1871918
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/31/2022 12:05	WG1871918
(S) 1,2-Dichloroethane-d4	*85.1*				*70.0-130*		*05/31/2022 12:05*	WG1871918
(S) 4-Bromofluorobenzene	*104*				*70.0-130*		*05/31/2022 12:05*	WG1871918
(S) Toluene-d8	*97.2*				*70.0-130*		*05/31/2022 12:05*	WG1871918

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0198		0.000493	0.00200	0.00200	1	05/31/2022 12:23	WG1871918
Ethylbenzene	0.0285		0.000462	0.00200	0.00200	1	05/31/2022 12:23	WG1871918
Toluene	0.0812		0.000998	0.00500	0.00500	1	05/31/2022 12:23	WG1871918
Xylenes, Total	0.0511		0.00132	0.00600	0.00600	1	05/31/2022 12:23	WG1871918
(S) 1,2-Dichloroethane-d4	*86.5*				*70.0-130*		*05/31/2022 12:23*	WG1871918
(S) 4-Bromofluorobenzene	*102*				*70.0-130*		*05/31/2022 12:23*	WG1871918
(S) Toluene-d8	*97.2*				*70.0-130*		*05/31/2022 12:23*	WG1871918

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0316		0.000493	0.00200	0.00200	1	05/31/2022 12:41	WG1871918
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/31/2022 12:41	WG1871918
Toluene	U		0.000998	0.00500	0.00500	1	05/31/2022 12:41	WG1871918
Xylenes, Total	0.00288	J	0.00132	0.00600	0.00600	1	05/31/2022 12:41	WG1871918
(S) 1,2-Dichloroethane-d4	*86.3*				*70.0-130*		*05/31/2022 12:41*	WG1871918
(S) 4-Bromofluorobenzene	*102*				*70.0-130*		*05/31/2022 12:41*	WG1871918
(S) Toluene-d8	*96.6*				*70.0-130*		*05/31/2022 12:41*	WG1871918

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	2.00		0.00493	0.00200	0.0200	10	05/31/2022 17:30	WG1871918
Ethylbenzene	0.0350		0.000462	0.00200	0.00200	1	05/31/2022 12:59	WG1871918
Toluene	0.368		0.00998	0.00500	0.0500	10	05/31/2022 17:30	WG1871918
Xylenes, Total	0.224		0.00132	0.00600	0.00600	1	05/31/2022 12:59	WG1871918
(S) 1,2-Dichloroethane-d4	*88.6*				*70.0-130*		*05/31/2022 17:30*	WG1871918
(S) 1,2-Dichloroethane-d4	*86.7*				*70.0-130*		*05/31/2022 12:59*	WG1871918
(S) 4-Bromofluorobenzene	*103*				*70.0-130*		*05/31/2022 12:59*	WG1871918
(S) 4-Bromofluorobenzene	*102*				*70.0-130*		*05/31/2022 17:30*	WG1871918
(S) Toluene-d8	*96.6*				*70.0-130*		*05/31/2022 17:30*	WG1871918
(S) Toluene-d8	*97.8*				*70.0-130*		*05/31/2022 12:59*	WG1871918

Method Blank (MB)

(MB) R3797477-2 05/28/22 19:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000493	0.00200
Ethylbenzene	U		0.000462	0.00200
Toluene	U		0.000998	0.00500
Xylenes, Total	U		0.00132	0.00600
(S) 1,2-Dichloroethane-d4	*84.4*			*70.0-130*
(S) 4-Bromofluorobenzene	*104*			*70.0-130*
(S) Toluene-d8	*97.4*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3797477-1 05/28/22 18:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0200	0.0192	96.0	73.0-131	
Ethylbenzene	0.0200	0.0211	105	76.0-129	
Toluene	0.0200	0.0194	97.0	73.0-130	
Xylenes, Total	0.0600	0.0602	100	78.0-124	
(S) 1,2-Dichloroethane-d4			*83.0*	*70.0-130*	
(S) 4-Bromofluorobenzene			*104*	*70.0-130*	
(S) Toluene-d8			*97.2*	*70.0-130*	

L1498754-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1498754-07 05/28/22 20:58 • (MS) R3797477-3 05/28/22 19:47 • (MSD) R3797477-4 05/28/22 20:05

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	U	0.0178	0.0172	89.0	86.0	1	74.0-130			3.43	20
Ethylbenzene	0.0200	U	0.0194	0.0190	97.0	95.0	1	77.0-127			2.08	20
Toluene	0.0200	U	0.0177	0.0174	88.5	87.0	1	74.0-127			1.71	20
Xylenes, Total	0.0600	U	0.0557	0.0546	92.8	91.0	1	71.0-133			1.99	20
(S) 1,2-Dichloroethane-d4					*84.2*	*84.1*		*70.0-130*				
(S) 4-Bromofluorobenzene					*104*	*104*		*70.0-130*				
(S) Toluene-d8					*96.4*	*97.4*		*70.0-130*				

Method Blank (MB)

(MB) R3797973-2 05/31/22 09:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000493	0.00200
Ethylbenzene	U		0.000462	0.00200
Toluene	U		0.000998	0.00500
Xylenes, Total	U		0.00132	0.00600
(S) 1,2-Dichloroethane-d4	*86.6*			*70.0-130*
(S) 4-Bromofluorobenzene	*103*			*70.0-130*
(S) Toluene-d8	*96.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3797973-1 05/31/22 08:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0200	0.0192	96.0	73.0-131	
Ethylbenzene	0.0200	0.0207	104	76.0-129	
Toluene	0.0200	0.0189	94.5	73.0-130	
Xylenes, Total	0.0600	0.0592	98.7	78.0-124	
(S) 1,2-Dichloroethane-d4			*85.6*	*70.0-130*	
(S) 4-Bromofluorobenzene			*102*	*70.0-130*	
(S) Toluene-d8			*96.7*	*70.0-130*	

L1498601-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1498601-09 05/31/22 12:05 • (MS) R3797973-3 05/31/22 11:11 • (MSD) R3797973-4 05/31/22 11:29

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	0.00207	0.0195	0.0187	87.2	83.2	1	74.0-130			4.19	20
Ethylbenzene	0.0200	U	0.0195	0.0188	97.5	94.0	1	77.0-127			3.66	20
Toluene	0.0200	U	0.0176	0.0170	88.0	85.0	1	74.0-127			3.47	20
Xylenes, Total	0.0600	U	0.0557	0.0539	92.8	89.8	1	71.0-133			3.28	20
(S) 1,2-Dichloroethane-d4					*84.7*	*84.9*		*70.0-130*				
(S) 4-Bromofluorobenzene					*103*	*103*		*70.0-130*				
(S) Toluene-d8					*96.6*	*96.2*		*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.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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

ACCREDITATIONS & LOCATIONS

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

Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-22-35
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.

Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

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

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

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: Becky Haskell

Email To: becky.haskell@ghd.com

Project Description: Chevron Grayburg 6-Inch Historical

City/State Collected: Buckeye, NM

Phone: 432-250-7917
Fax:

Client Project # SRS Chevron Grayburg 6-Inch Historical

Lab Project # SRS Chevron Grayburg 6-Inch Historical

L# L1498601

Collected by (print): David Fletcher

Site/Facility ID # SRS Chevron Grayburg

P.O. #

Table #

Acctnum:

Template:

Prelogin:

TSR:

PB:

Collected by (signature): David Fletcher

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: Standard TAT Per SSOW

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mLAmb-HCL	Remarks	Sample # (lab only)
MW-2-052522	GRAB	GW	NA	5-25-22	1000	3	X		
MW-4-052522					1020				
MW-5-052522					1040				
MW-6-052522					1100				
MW-13-052522					1115				
MW-14-052522					1135				
MW-3-052522					1155				
MW-9-052522					1210				
MW-10-052522					1230				
MW-1-052522					1315				

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

Remarks:
1. Report to SDLs; 2. Flag estimated concentrations;
3. Lab Project #: PLAINSGHD-~~1420006~~ 12572712

pH _____ Temp _____
Flow _____ Other _____

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

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

Tracking #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
David Fletcher	5-25-22	12:30		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
	5/25/22	1700	SWA (EP) GH	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
	5/27/22	0800	Sudiksha PACE	5/27/22 0800.

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

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

Pres Chk

Analysis / Container / Preservative

Chain of Custody

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: Becky Haskell

Email To: becky.haskell@ghd.com

Project Description: Chevron Grayburg 6-Inch Historical

City/State Collected: Buckeye, NM

Phone: 432-250-7917
Fax:

Client Project # SRS Chevron Grayburg 6-Inch Historical

Lab Project # SRS Chevron Grayburg 6-Inch Historical

Collected by (print): David Fletcher

Collected by (signature):

Site/Facility ID # SRS Chevron Grayburg

P.O. #

Quote #

Immediately Packed on Ice N ___ Y ✓

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

Date Results Needed: Standard TAT Per SSOW

L #

Table #

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mLAmb-HCL	Remarks	Sample # (lab only)
MW-11-052522	GRAB	GW	NA	5-25-22	1345	3	X		
MW-8-052522	↓	↓	↓	↓	1435	↓	↓		

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

Remarks:
1. Report to SDLs; 2. Flag estimated concentrations;
3. Lab Project #: PLAINSGHD-~~1209906~~ 12572712

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	
David Fletcher	5-25-22	12:30			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
	5/25/22	1700	SWA GH		
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	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 Project Work order (place label):

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

Tracking #:

L1498601

Custody Seal on Cooler/Box: Yes ☐ No ☑

Received on ice: Wet ☑ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: IR-17 Cooler Temp °C: 2.7 (Recorded) -0.3 (Correction Factor) 2.4 (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: 5/27/22

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

Login Person: SM Date: 5/27/22.

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: _____

PRI PPD 26MAY22 02:22P ** LABEL **

Schd: GLI 1454

GLI 3090192116

Pcs: 1 of 2

DALLAS, TX

From: PACE ANALYTICAL WEST TEXAS
972-727-1123

RECV: PACE ANALYTICAL WEST TEXAS
DLIVERY

Manual Wght:
100.0

Tariff Wght:
100.0

DALLAS, TX 75202

Phone: 432-202-4238

Priority

PO/Ref #:

Agency Phone: (214)747-8859

WWW.SHIPGREYHOUND.COM

PRI PPD 26MAY22 02:22P ** ORIGIN **

GLI 3090192116

Schd: GLI 1454

Pcs: 1 of 2

From: ODESSA MIDLAND, TX

To: DALLAS, TX

Priority

P EXPRS $ 32.00 C EXPRS

P VALUE C VALUE

SHIPMENT MANIFEST

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

Service: Priority Pieces: 2

1st Lane Segment:
ODESSA MIDLAND
GLI 1454

Transfer:
DALLAS

Destination: DALLAS, TX

Driver's Signature:_____

GLI 3090192116

Pace Analytical®

ANALYTICAL REPORT

September 26, 2022

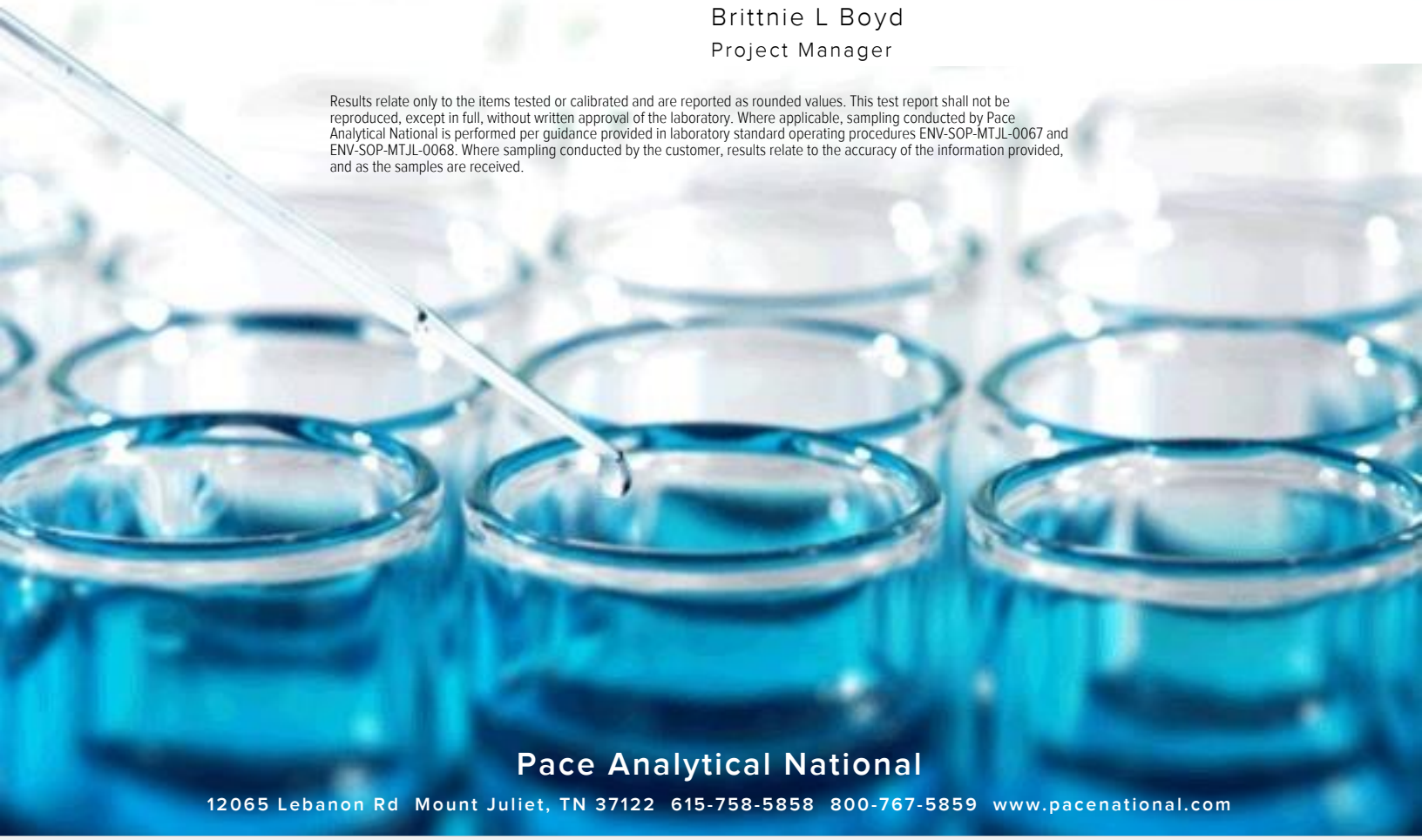
Plains All American, LP - GHD

Sample Delivery Group:	L1536171
Samples Received:	09/15/2022
Project Number:	SRS CHEVRON GRAYBURG
Description:	Chevron Grayburg 6-Inch Historical
Site:	SRS CHEVRON GRAYBURG
Report To:	Matthew Laughlin 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Brittnie L Boyd
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-9-091322 L1536171-01 GW

Collected by: Matthew Laughlin | Collected date/time: 09/13/22 11:50 | Received date/time: 09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 10:46	09/17/22 10:46	BAM	Mt. Juliet, TN

MW-13-091322 L1536171-02 GW

Collected by: Matthew Laughlin | Collected date/time: 09/13/22 12:00 | Received date/time: 09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 11:08	09/17/22 11:08	BAM	Mt. Juliet, TN

MW-10-091322 L1536171-03 GW

Collected by: Matthew Laughlin | Collected date/time: 09/13/22 12:10 | Received date/time: 09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 12:08	09/17/22 12:08	BAM	Mt. Juliet, TN

MW-2-091322 L1536171-04 GW

Collected by: Matthew Laughlin | Collected date/time: 09/13/22 12:20 | Received date/time: 09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 12:30	09/17/22 12:30	BAM	Mt. Juliet, TN

MW-1-091322 L1536171-05 GW

Collected by: Matthew Laughlin | Collected date/time: 09/13/22 12:30 | Received date/time: 09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 12:51	09/17/22 12:51	BAM	Mt. Juliet, TN

MW-3-091322 L1536171-06 GW

Collected by: Matthew Laughlin | Collected date/time: 09/13/22 12:40 | Received date/time: 09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 13:13	09/17/22 13:13	BAM	Mt. Juliet, TN

MW-4-091322 L1536171-07 GW

Collected by: Matthew Laughlin | Collected date/time: 09/13/22 13:00 | Received date/time: 09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 13:34	09/17/22 13:34	BAM	Mt. Juliet, TN

MW-6-091322 L1536171-08 GW

Collected by: Matthew Laughlin | Collected date/time: 09/13/22 13:10 | Received date/time: 09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 13:56	09/17/22 13:56	BAM	Mt. Juliet, TN

MW-11-091322 L1536171-09 GW

Collected by: Matthew Laughlin
Collected date/time: 09/13/22 13:20
Received date/time: 09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 14:17	09/17/22 14:17	BAM	Mt. Juliet, TN

MW-14-091322 L1536171-10 GW

Collected by: Matthew Laughlin
Collected date/time: 09/13/22 13:30
Received date/time: 09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 14:39	09/17/22 14:39	BAM	Mt. Juliet, TN

MW-8-091322 L1536171-11 GW

Collected by: Matthew Laughlin
Collected date/time: 09/13/22 12:40
Received date/time: 09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 15:00	09/17/22 15:00	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1930104	25	09/22/22 10:34	09/22/22 10:34	BAM	Mt. Juliet, TN

MW-5-091322 L1536171-12 GW

Collected by: Matthew Laughlin
Collected date/time: 09/13/22 12:50
Received date/time: 09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 15:22	09/17/22 15:22	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1930104	1	09/22/22 09:50	09/22/22 09:50	BAM	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.

Brittnie L Boyd
Project Manager

Revised May 2010

Laboratory Data Package Cover Page

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

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

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

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

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

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

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

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

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

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

b. MS/MSD spiking amounts,

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

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

e. The laboratory's MS/MSD QC limits

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

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

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

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

R10 - Other problems or anomalies.

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

Brittnie L Boyd
Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 09/26/2022 10:04
Project Name: Chevron Grayburg 6-Inch Historical	Laboratory Job Number: L1536171-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1927723 and WG1930104

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

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

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 09/26/2022 10:04
Project Name: Chevron Grayburg 6-Inch Historical	Laboratory Job Number: L1536171-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1927723 and WG1930104

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

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

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 09/26/2022 10:04
Project Name: Chevron Grayburg 6-Inch Historical	Laboratory Job Number: L1536171-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1927723 and WG1930104

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

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

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	09/17/2022 10:46	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 10:46	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 10:46	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 10:46	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	*96.7*				*79.0-125*		*09/17/2022 10:46*	WG1927723

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	09/17/2022 11:08	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 11:08	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 11:08	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 11:08	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	*97.1*				*79.0-125*		*09/17/2022 11:08*	WG1927723

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	09/17/2022 12:08	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 12:08	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 12:08	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 12:08	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	*97.5*				*79.0-125*		*09/17/2022 12:08*	WG1927723

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	09/17/2022 12:30	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 12:30	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 12:30	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 12:30	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	*96.5*				*79.0-125*		*09/17/2022 12:30*	WG1927723

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0458		0.000190	0.000500	0.000500	1	09/17/2022 12:51	WG1927723
Toluene	0.0675		0.000412	0.00100	0.00100	1	09/17/2022 12:51	WG1927723
Ethylbenzene	0.0260		0.000160	0.000500	0.000500	1	09/17/2022 12:51	WG1927723
Total Xylene	0.0532		0.000510	0.00150	0.00150	1	09/17/2022 12:51	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	*95.7*				*79.0-125*		*09/17/2022 12:51*	WG1927723

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	09/17/2022 13:13	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 13:13	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 13:13	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 13:13	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	*96.5*				*79.0-125*		*09/17/2022 13:13*	WG1927723

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	09/17/2022 13:34	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 13:34	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 13:34	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 13:34	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	*96.0*				*79.0-125*		*09/17/2022 13:34*	WG1927723

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	09/17/2022 13:56	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 13:56	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 13:56	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 13:56	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	*98.6*				*79.0-125*		*09/17/2022 13:56*	WG1927723

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00570		0.000190	0.000500	0.000500	1	09/17/2022 14:17	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 14:17	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 14:17	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 14:17	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	*96.7*				*79.0-125*		*09/17/2022 14:17*	WG1927723

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	09/17/2022 14:39	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 14:39	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 14:39	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 14:39	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	*96.8*				*79.0-125*		*09/17/2022 14:39*	WG1927723

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	2.14		0.00475	0.000500	0.0125	25	09/22/2022 10:34	WG1930104
Toluene	0.470		0.0103	0.00100	0.0250	25	09/22/2022 10:34	WG1930104
Ethylbenzene	0.0322		0.000160	0.000500	0.000500	1	09/17/2022 15:00	WG1927723
Total Xylene	0.217		0.000510	0.00150	0.00150	1	09/17/2022 15:00	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	*91.0*				*79.0-125*		*09/17/2022 15:00*	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	*96.5*				*79.0-125*		*09/22/2022 10:34*	WG1930104

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	09/22/2022 09:50	WG1930104
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 15:22	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 15:22	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 15:22	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	*94.5*				*79.0-125*		*09/17/2022 15:22*	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	*96.8*				*79.0-125*		*09/22/2022 09:50*	WG1930104

Method Blank (MB)

(MB) R3839755-3 09/17/22 07:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	*97.6*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3839755-1 09/17/22 05:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0485	97.0	77.0-122	
Toluene	0.0500	0.0469	93.8	80.0-121	
Ethylbenzene	0.0500	0.0487	97.4	80.0-123	
Total Xylene	0.150	0.145	96.7	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*97.6*	*79.0-125*	

Method Blank (MB)

(MB) R3840808-3 09/22/22 08:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
(S) a,a,a-Trifluorotoluene(PID)	*97.9*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3840808-1 09/22/22 07:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0448	89.6	77.0-122	
Toluene	0.0500	0.0443	88.6	80.0-121	
(S) a,a,a-Trifluorotoluene(PID)			*97.4*	*79.0-125*	

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier Description

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

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

Report to: **Matthew Laughlin**

Email to: **Matthew.laughlin@ghd.com**

Project Description: **Chevron Grayburg 6-Inch Historical**

City/State Collected: **Buckeye, NM**

Phone: **432-640-9715**
Fax:

Client Project # **SRS Chevron Grayburg 6-Inch Historical**

Lab Project # **SRS Chevron Grayburg 6-Inch Historical**

Collected by (print): Matthew Laughlin

Site/Facility ID # **SRS Chevron Grayburg**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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: **Standard TAT Per SSOW**

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mLAmb-HCL	Remarks	Sample # (lab only)
MW-9-091322	G	W	—	09/12/22	1150	3	X		-01
MW-13-091322					1200		X		-02
MW-10-091322					1210		X		-03
MW-2-091322					1220		X	1071	-04
MW-1-091322					1230		X		-05
MW-3-091322					1240		X		-06
MW-4-091322					1300		X		-07
MW-6-091322					1310		X		-08
MW-11-091322					1320		X		-09
MW-14-091322					1330		X		-10

Chain of Custody Page 1 of 2

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

L# L153 6171

Table #

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

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

Remarks:
1. Report to SDLs; 2. Flag estimated concentrations;
~~3. Lab Project #: PLAINSGHD-11209906~~ x new

Do NOT bill Plains

pH _____ Temp _____

Flow _____ Other _____

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

Tracking # 5829 6695 9112

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	
	9/14/22 10	1018			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C	Bottles Received:
	9/14/22	1700	Fedex	1.0+0=1.0	36
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:
				9/15/22	9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

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

Report to: **Matthew Laughlin**

Email to: **Matthew.laughlin@ghd.com**

Project Description: **Chevron Grayburg 6-Inch Historical**

City/State Collected: **Buckeye, NM**

Phone: **432-640-9715**
Fax:

Client Project # **SRS Chevron Grayburg 6-Inch Historical**

Lab Project # **SRS Chevron Grayburg 6-Inch Historical**

Collected by (print): Matthew Laughlin

Site/Facility ID # **SRS Chevron Grayburg**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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: **Standard TAT Per SSOW**

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mLAmb-HCL	Remarks	Sample # (lab only)
MW-8-091322	G	W	-	09/13/22	1340	3	X		-11
MW-5-091322	G	W	-	09/13/22	1250	3	X		-12

Chain of Custody

Page ___ of ___

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

L# L153617

Table #

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

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

Remarks:
1. Report to SDLs; 2. Flag estimated concentrations;
~~3. Lab Project #: PLAINSGHD-11209906~~ (MWL)
Do NOT bill Plains

pH _____ Temp _____

Flow _____ Other _____

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

Tracking # 5829 6695 9117

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	
	9/14/22	1018 MP 918		0	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C	Bottles Received:
	9/14/22	1700	FedEx	1.0+0=1.0	36
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:
				9/15/22	9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

November 11, 2022

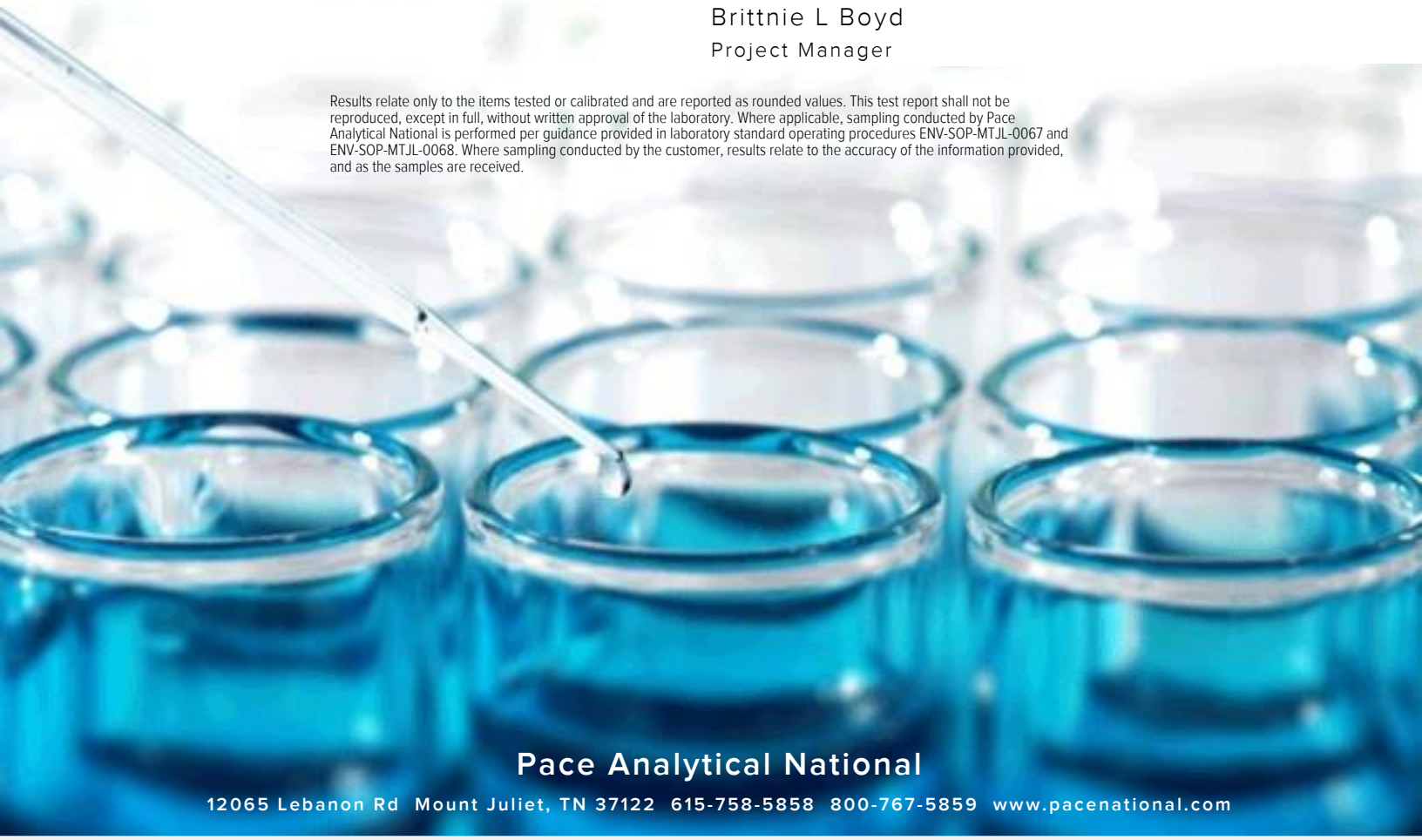
Plains All American, LP - GHD

Sample Delivery Group:	L1554627
Samples Received:	11/05/2022
Project Number:	12572712/01
Description:	Cheveron Grayburd 6-Inch Sec. 6 Historical
Site:	CHEVRON GRAYBURG 6-INCH HISTOR
Report To:	John Fergerson 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Brittnie L Boyd
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

GB-DUP-1-110322 L1554627-01 GW

Collected by: Mitchell Clemens | Collected date/time: 11/03/22 00:00 | Received date/time: 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 07:07	11/09/22 07:07	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1957757	100	11/11/22 02:21	11/11/22 02:21	BAM	Mt. Juliet, TN

GB-MW-10-110322 L1554627-02 GW

Collected by: Mitchell Clemens | Collected date/time: 11/03/22 15:30 | Received date/time: 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 07:29	11/09/22 07:29	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1957757	1	11/11/22 01:15	11/11/22 01:15	BAM	Mt. Juliet, TN

GB-MW-11-110322 L1554627-03 GW

Collected by: Mitchell Clemens | Collected date/time: 11/03/22 15:35 | Received date/time: 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 07:51	11/09/22 07:51	BAM	Mt. Juliet, TN

TRIP BLANK L1554627-04 GW

Collected by: Mitchell Clemens | Collected date/time: 11/03/22 00:00 | Received date/time: 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 06:45	11/09/22 06:45	BAM	Mt. Juliet, TN

GB-MW-14-110322 L1554627-05 GW

Collected by: Mitchell Clemens | Collected date/time: 11/03/22 10:15 | Received date/time: 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 08:13	11/09/22 08:13	BAM	Mt. Juliet, TN

GB-MW-6-110322 L1554627-06 GW

Collected by: Mitchell Clemens | Collected date/time: 11/03/22 10:20 | Received date/time: 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 08:35	11/09/22 08:35	BAM	Mt. Juliet, TN

GB-MW-1-110322 L1554627-07 GW

Collected by: Mitchell Clemens | Collected date/time: 11/03/22 11:40 | Received date/time: 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 08:58	11/09/22 08:58	BAM	Mt. Juliet, TN

GB-MW-5-110322 L1554627-08 GW

Collected by: Mitchell Clemens | Collected date/time: 11/03/22 11:45 | Received date/time: 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 09:20	11/09/22 09:20	BAM	Mt. Juliet, TN

GB-MW-2-110322 L1554627-09 GW

Collected by: Mitchell Clemens | Collected date/time: 11/03/22 12:25 | Received date/time: 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 09:42	11/09/22 09:42	BAM	Mt. Juliet, TN

GB-MW-4-110322 L1554627-10 GW

Collected by: Mitchell Clemens | Collected date/time: 11/03/22 12:40 | Received date/time: 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 10:04	11/09/22 10:04	BAM	Mt. Juliet, TN

GB-MW-3-110322 L1554627-11 GW

Collected by: Mitchell Clemens | Collected date/time: 11/03/22 13:40 | Received date/time: 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 10:26	11/09/22 10:26	BAM	Mt. Juliet, TN

GB-MW-13-110322 L1554627-12 GW

Collected by: Mitchell Clemens | Collected date/time: 11/03/22 13:45 | Received date/time: 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 10:48	11/09/22 10:48	BAM	Mt. Juliet, TN

GB-MW-9-110322 L1554627-13 GW

Collected by: Mitchell Clemens | Collected date/time: 11/03/22 14:45 | Received date/time: 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 11:10	11/09/22 11:10	BAM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1955343	1	11/08/22 08:00	11/08/22 20:48	AMG	Mt. Juliet, TN

GB-MW-8-110322 L1554627-14 GW

Collected by: Mitchell Clemens | Collected date/time: 11/03/22 14:50 | Received date/time: 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1957757	10	11/11/22 01:59	11/11/22 01:59	BAM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1955343	1	11/08/22 08:00	11/08/22 21:05	AMG	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.

Brittnie L Boyd
Project Manager

Laboratory Data Package Cover Page

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

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

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

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

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

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

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

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

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

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

b. MS/MSD spiking amounts,

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

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

e. The laboratory's MS/MSD QC limits

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

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

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

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

R10 - Other problems or anomalies.

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

Brittnie L Boyd
Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 11/11/2022 14:53
Project Name: Cheveron Grayburd 6-Inch Sec. 6 Historical	Laboratory Job Number: L1554627-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13 and 14
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1955343, WG1956398 and WG1957757

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

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

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 11/11/2022 14:53
Project Name: Cheveron Grayburd 6-Inch Sec. 6 Historical	Laboratory Job Number: L1554627-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13 and 14
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1955343, WG1956398 and WG1957757

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

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

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 11/11/2022 14:53
Project Name: Cheveron Grayburd 6-Inch Sec. 6 Historical	Laboratory Job Number: L1554627-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13 and 14
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1955343, WG1956398 and WG1957757

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

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

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	1.44		0.0190	0.000500	0.0500	100	11/11/2022 02:21	WG1957757
Toluene	0.110		0.000412	0.00100	0.00100	1	11/09/2022 07:07	WG1956398
Ethylbenzene	0.0276		0.000160	0.000500	0.000500	1	11/09/2022 07:07	WG1956398
Total Xylene	0.132		0.000510	0.00150	0.00150	1	11/09/2022 07:07	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*107*				*79.0-125*		*11/09/2022 07:07*	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*104*				*79.0-125*		*11/11/2022 02:21*	WG1957757

GB-MW-10-110322
Collected date/time: 11/03/22 15:30
L1554627

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	11/11/2022 01:15	WG1957757
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 07:29	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 07:29	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 07:29	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*11/09/2022 07:29*	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*104*				*79.0-125*		*11/11/2022 01:15*	WG1957757

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

GB-MW-11-110322
Collected date/time: 11/03/22 15:35
L1554627

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0146		0.000190	0.000500	0.000500	1	11/09/2022 07:51	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 07:51	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 07:51	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 07:51	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*11/09/2022 07:51*	WG1956398

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

TRIP BLANK
Collected date/time: 11/03/22 00:00
L1554627

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	11/09/2022 06:45	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 06:45	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 06:45	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 06:45	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*11/09/2022 06:45*	WG1956398

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	11/09/2022 08:13	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 08:13	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 08:13	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 08:13	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*11/09/2022 08:13*	WG1956398

GB-MW-6-110322
Collected date/time: 11/03/22 10:20
L1554627

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	11/09/2022 08:35	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 08:35	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 08:35	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 08:35	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*11/09/2022 08:35*	WG1956398

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

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0683		0.000190	0.000500	0.000500	1	11/09/2022 08:58	WG1956398
Toluene	0.150		0.000412	0.00100	0.00100	1	11/09/2022 08:58	WG1956398
Ethylbenzene	0.0619		0.000160	0.000500	0.000500	1	11/09/2022 08:58	WG1956398
Total Xylene	0.0908		0.000510	0.00150	0.00150	1	11/09/2022 08:58	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*11/09/2022 08:58*	WG1956398

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	11/09/2022 09:20	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 09:20	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 09:20	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 09:20	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*11/09/2022 09:20*	WG1956398

GB-MW-2-110322
Collected date/time: 11/03/22 12:25
L1554627

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	11/09/2022 09:42	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 09:42	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 09:42	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 09:42	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*11/09/2022 09:42*	WG1956398

GB-MW-4-110322
Collected date/time: 11/03/22 12:40
L1554627

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	11/09/2022 10:04	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 10:04	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 10:04	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 10:04	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*11/09/2022 10:04*	WG1956398

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

GB-MW-3-110322
Collected date/time: 11/03/22 13:40
L1554627

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	0.00700		0.000190	0.000500	0.000500	1	11/09/2022 10:26	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 10:26	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 10:26	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 10:26	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*11/09/2022 10:26*	WG1956398

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	11/09/2022 10:48	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 10:48	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 10:48	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 10:48	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*11/09/2022 10:48*	WG1956398

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00459		0.000190	0.000500	0.000500	1	11/09/2022 11:10	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 11:10	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 11:10	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 11:10	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*11/09/2022 11:10*	WG1956398

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

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0000190	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Acenaphthene	U		0.0000190	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Acenaphthylene	U		0.0000171	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Benzo(a)anthracene	U		0.0000203	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Benzo(a)pyrene	U		0.0000184	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Benzo(b)fluoranthene	U		0.0000168	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Benzo(k)fluoranthene	U		0.0000202	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Chrysene	U		0.0000179	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Dibenzofuran	0.000232		0.0000191	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Fluoranthene	0.0000301	J	0.0000270	0.000100	0.000100	1	11/08/2022 20:48	WG1955343
Fluorene	0.0000698		0.0000169	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Naphthalene	0.000114	J	0.0000917	0.000250	0.000250	1	11/08/2022 20:48	WG1955343
Phenanthrene	0.0000782		0.0000180	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Pyrene	0.0000236	J	0.0000169	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
1-Methylnaphthalene	0.0000915	J	0.0000687	0.000250	0.000250	1	11/08/2022 20:48	WG1955343
2-Methylnaphthalene	U		0.0000674	0.000250	0.000250	1	11/08/2022 20:48	WG1955343
(S) Nitrobenzene-d5	*120*				*31.0-160*		*11/08/2022 20:48*	WG1955343
(S) 2-Fluorobiphenyl	*111*				*48.0-148*		*11/08/2022 20:48*	WG1955343
(S) p-Terphenyl-d14	*109*				*37.0-146*		*11/08/2022 20:48*	WG1955343

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	1.19		0.00190	0.000500	0.00500	10	11/11/2022 01:59	WG1957757
Toluene	0.0615		0.00412	0.00100	0.0100	10	11/11/2022 01:59	WG1957757
Ethylbenzene	0.0222	B	0.00160	0.000500	0.00500	10	11/11/2022 01:59	WG1957757
Total Xylene	0.106		0.00510	0.00150	0.0150	10	11/11/2022 01:59	WG1957757
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*11/11/2022 01:59*	WG1957757

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

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0000190	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Acenaphthene	0.000511		0.0000190	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Acenaphthylene	U		0.0000171	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Benzo(a)anthracene	U		0.0000203	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Benzo(a)pyrene	U		0.0000184	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Benzo(b)fluoranthene	U		0.0000168	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Benzo(k)fluoranthene	U		0.0000202	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Chrysene	0.0000259	J	0.0000179	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Dibenzofuran	0.00372		0.0000191	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Fluoranthene	0.0000368	J	0.0000270	0.000100	0.000100	1	11/08/2022 21:05	WG1955343
Fluorene	0.00307		0.0000169	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Naphthalene	0.0415		0.0000917	0.000250	0.000250	1	11/08/2022 21:05	WG1955343
Phenanthrene	0.00329		0.0000180	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Pyrene	0.0000363	J	0.0000169	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
1-Methylnaphthalene	0.0384		0.0000687	0.000250	0.000250	1	11/08/2022 21:05	WG1955343
2-Methylnaphthalene	0.0178		0.0000674	0.000250	0.000250	1	11/08/2022 21:05	WG1955343
(S) Nitrobenzene-d5	*143*				*31.0-160*		*11/08/2022 21:05*	WG1955343
(S) 2-Fluorobiphenyl	*119*				*48.0-148*		*11/08/2022 21:05*	WG1955343
(S) p-Terphenyl-d14	*107*				*37.0-146*		*11/08/2022 21:05*	WG1955343

Method Blank (MB)

(MB) R3859702-2 11/09/22 01:30

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

Laboratory Control Sample (LCS)

(LCS) R3859702-1 11/08/22 23:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0472	94.4	77.0-122	
Toluene	0.0500	0.0481	96.2	80.0-121	
Ethylbenzene	0.0500	0.0493	98.6	80.0-123	
Total Xylene	0.150	0.143	95.3	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*102*	*79.0-125*	

Method Blank (MB)

(MB) R3860016-3 11/10/22 23:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	0.000578	J	0.000412	0.00100
Ethylbenzene	0.000373	J	0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	*105*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3860016-2 11/10/22 22:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0536	107	77.0-122	
Toluene	0.0500	0.0487	97.4	80.0-121	
Ethylbenzene	0.0500	0.0542	108	80.0-123	
Total Xylene	0.150	0.149	99.3	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*107*	*79.0-125*	

Method Blank (MB)

(MB) R3859536-3 11/08/22 16:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000190	0.0000500
Acenaphthene	U		0.0000190	0.0000500
Acenaphthylene	U		0.0000171	0.0000500
Benzo(a)anthracene	U		0.0000203	0.0000500
Benzo(a)pyrene	U		0.0000184	0.0000500
Benzo(b)fluoranthene	U		0.0000168	0.0000500
Benzo(g,h,i)perylene	U		0.0000184	0.0000500
Benzo(k)fluoranthene	U		0.0000202	0.0000500
Chrysene	U		0.0000179	0.0000500
Dibenz(a,h)anthracene	U		0.0000160	0.0000500
Dibenzofuran	U		0.0000191	0.0000500
Fluoranthene	U		0.0000270	0.000100
Fluorene	U		0.0000169	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500
Naphthalene	U		0.0000917	0.000250
Phenanthrene	U		0.0000180	0.0000500
Pyrene	U		0.0000169	0.0000500
1-Methylnaphthalene	U		0.0000687	0.000250
2-Methylnaphthalene	U		0.0000674	0.000250
(S) Nitrobenzene-d5	*120*			*31.0-160*
(S) 2-Fluorobiphenyl	*117*			*48.0-148*
(S) p-Terphenyl-d14	*117*			*37.0-146*

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

(LCS) R3859536-1 11/08/22 16:09 • (LCSD) R3859536-2 11/08/22 16:26

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	0.00231	0.00226	115	113	67.0-150			2.19	20
Acenaphthene	0.00200	0.00251	0.00245	126	122	65.0-138			2.42	20
Acenaphthylene	0.00200	0.00236	0.00233	118	117	66.0-140			1.28	20
Benzo(a)anthracene	0.00200	0.00238	0.00238	119	119	61.0-140			0.000	20
Benzo(a)pyrene	0.00200	0.00242	0.00241	121	120	60.0-143			0.414	20
Benzo(b)fluoranthene	0.00200	0.00230	0.00229	115	115	58.0-141			0.436	20
Benzo(g,h,i)perylene	0.00200	0.00212	0.00212	106	106	52.0-153			0.000	20
Benzo(k)fluoranthene	0.00200	0.00227	0.00227	114	114	58.0-148			0.000	20
Chrysene	0.00200	0.00248	0.00250	124	125	64.0-144			0.803	20
Dibenz(a,h)anthracene	0.00200	0.00207	0.00207	104	104	52.0-155			0.000	20
Dibenzofuran	0.00200	0.00253	0.00248	126	124	67.0-134			2.00	20

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

(LCS) R3859536-1 11/08/22 16:09 • (LCSD) R3859536-2 11/08/22 16:26

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 %
Fluoranthene	0.00200	0.00246	0.00240	123	120	69.0-153			2.47	20
Fluorene	0.00200	0.00256	0.00251	128	126	64.0-136			1.97	20
Indeno(1,2,3-cd)pyrene	0.00200	0.00222	0.00224	111	112	54.0-153			0.897	20
Naphthalene	0.00200	0.00236	0.00234	118	117	61.0-137			0.851	20
Phenanthrene	0.00200	0.00241	0.00237	120	118	62.0-137			1.67	20
Pyrene	0.00200	0.00270	0.00271	135	135	60.0-142			0.370	20
1-Methylnaphthalene	0.00200	0.00239	0.00236	119	118	66.0-142			1.26	20
2-Methylnaphthalene	0.00200	0.00246	0.00243	123	122	62.0-136			1.23	20
(S) Nitrobenzene-d5				*123*	*122*	*31.0-160*				
(S) 2-Fluorobiphenyl				*121*	*119*	*48.0-148*				
(S) p-Terphenyl-d14				*118*	*117*	*37.0-146*				

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

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Attn: Karolanne Hudgens
1106 Griffith Drive
Midland, TX 79705

Pres Chk

Report to: **John Fergerson**

Email To: john.fergerson@ghd.com
KHudgens@paalp.com

Project Description: Chevron Grayburg 6-Inch Sec. 6 Historical

City/State Collected:

Please Circle: PT MT CT ET

Phone: **432-894-7848**

Client Project # **SRS Chevron Grayburg 6-Inch Historical**

Lab Project # **PLAINSGHD-12572712**

Collected by (print): Mitchell Clemons

Site/Facility ID # Chevron Grayburg 6-Inch Historical

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

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	BTEX8021 40mLAmb-HCL	PAHSIMLVI 40mLAmb-NoPres-WT
~~GB [illegible]~~	Grab	GW		11-3-22	~~[illegible]~~	3	X	
GB-DUP-1-110322		GW			-	3	X	
GB-MW-10-110322		GW			15:30	3	X	
GB-MW-11-110322	GW	~~OT~~ JF			15:35	3	X	
Trip Blank		OT					X	
Temp Blank		OT						

Chain of Custody Page ___ of ___

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1554627
F168

Acctnum: **PLAINSGHD**
Template: **T217792**
Prelogin: **P961196**
PM: **829-Brittnie L Boyd**
PB:

Shipped Via: FedEX Ground

Remarks	Sample # (lab only)
QA/QC	-01
	-02
	-03
QA/QC	-04

* 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	If preservation required by Login: Date/Time
	11-4-22	07:30		3	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4 °C Bottles Received:	
	11/4/22	1700	SWA	5.8 to -5.8 9	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
				11/5 0800	

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

Billing Information:
Attn: Karolanne Hudgens
1106 Griffith Drive
Midland, TX 79705

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace® PEOPLE ADVANCING SCIENCE

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Report to: John Fergerson

Email To: john.fergerson@ghd.com KHudgens@paalp.com

Project Description: Chevron Grayburg 6-Inch Sec. 6 Historical

City/State Collected:

Please Circle: PT MT CT ET

Phone: 432-894-7848

Client Project #: SRS Chevron Grayburg 6-Inch Historical

Lab Project #: PLAINSGHD-12572712

SDG # L1554627

F167

Collected by (print): Mitchell Clernens

Site/Facility ID #: Chevron Grayburg 6-Inch Historical

P.O. #

Acctnum: PLAINSGHD

Template: T217792

Prelogin: P961196

PM: 829-Brittnie L Boyd

PB:

Shipped Via: FedEX Ground

Collected by (signature): [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	BTEX8021 40mlAmb-HCL	PAHSIMLVI 40mlAmb-NoPres-WT								Remarks	Sample # (lab only)
GB-MW-14-110322	Grab	GW	–	11-3-22	10:15	3	X										-05
GB-MW-6-110322	↓	GW	↓	11-3-22	10:20	3	X										-06
GB-MW-1-110322		GW			11:40	3	X										-07
GB-MW-5-110322		GW			11:45	3	X										-08
GB-MW-2-110322		GW			12:25	3	X										-09
GB-MW-4-110322		GW			12:40	3	X										-10
GB-MW-3-110322		GW			13:40	3	X										-11
GB-MW-13-110322		GW			13:45	3	X										-12
GB-MW-9-110322		GW			14:45	5	X	X									-13
GB-MW-8-110322	↓	GW	↓	↓	14:50	5	X	X									-14

* 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)		
[signature]	11-4-22	07:30	[signature]	Trip Blank Received: Yes / No / NA (HCL) / MeoH TBR 3	
[signature]	11/4/22	1700	[signature]	Temp: 6.4+.1=3.7 °C 5.8+0=5.8	Bottles Received: 34
			Received for lab by: (Signature) [signature]	Date: 11/5 Time: 0800	

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

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

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

CONDITIONS

Action 200289

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 200289
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2022 Annual Groundwater Monitoring Report: Content Satisfactory 1. Continue quarterly groundwater monitoring events for sampling per report. 2. MW-9 has met the 2 year criteria for PAHs per the NMWQCC standards, and has remained below. 3. Continue monthly LNAPL recovery in wells: MW-7 and MW-12 4. Continue monthly BTEX abatement in MW-1, MW-7, MW-8, MW-12 and MW-11 5. Follow requirements for proposing P&A of groundwater wells pursuant to 19.15.30.14 Subsection C NMAC Other Requirements 6. Submit 2023 Annual Groundwater Monitoring Report by April 1, 2024. 7. Continue MDPE events for MW-7	7/26/2023