

**REVIEWED**

By Mike Buchanan at 2:51 pm, Jun 14, 2024

2023
ANNUAL MONITORING REPORT

TNM 98-05A
SW 1/4 NW 1/4 OF SECTION 26, TOWNSHIP 21 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
PLAINS SRS NUMBER: TNM 98-05A
NMOCD Reference AP-12
INCIDENT # nAPP2109544011

Review of the 2023 Annual Monitoring Report for the TNM 98-05A site: Content is satisfactory

1. Continue to conduct quarterly groundwater sampling events for constituents in 2024.
2. Continue to conduct PAH analysis on wells: MW-1, MW-2, MW-10 and MW-13.
3. Please document any unforeseen circumstances in the 2024 report if modification of the sampling event(s) is necessary.
4. Pump and gauge monitoring wells: MW-1, MW-2, MW-10 and MW-13 on a monthly basis as planned.

5. Submit the 2024 Annual Groundwater Monitoring Report by April 1, 2025

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May 2024

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INTRODUCTION

On behalf of Plains Marketing, L.P. (Plains), TRC Environmental Corporation (TRC) is pleased to submit this 2023 Annual Groundwater Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1st of each year. Beginning on May 29, 2004, project management responsibilities were assumed by TRC, previously NOVA Safety and Environmental (NOVA). This report is intended to be viewed as a complete document with figures, attachments, tables, and text. The report presents the results of four (4) quarterly groundwater monitoring/sampling events conducted at the TNM 98-05A crude oil Release Site (the Site), located in Lea County, New Mexico. The Site, formerly the responsibility of Enron Oil Trading and Transportation (EOTT) is now the responsibility of Plains. For reference, the Site Location Map is provided as Figure 1.

Groundwater gauging and sampling was conducted during each quarter of 2023 to assess the levels and extent of Phase Separated Hydrocarbons (PSH) and dissolved phase constituents. The groundwater monitoring events consisted of measuring static water levels in the monitor wells and purging and sampling of each well exhibiting sufficient recharge. Monitor wells with a measurable thickness of PSH were not sampled except for wells selected for the monitored natural attenuation (MNA) sampling.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The Site is located approximately two (2) miles northeast of the city of Eunice, New Mexico. The legal description of the site is SW $\frac{1}{4}$, NW $\frac{1}{4}$, Section 26, Township 21 South, Range 37 East (Figure 1). On February 5, 1998, an estimated thirty-eight (38) barrels of crude oil were released from a six (6) inch crude oil pipeline. Approximately four (4) barrels of crude oil were recovered during the initial response activities. The release was attributed to internal corrosion of the pipeline. The Release Notification and Corrective Action Form (C-141) is provided as Appendix B. Approximately 3,300 cubic yards of impacted soil was excavated and applied to an on-site treatment cell. In December 2004, a Site Restoration Work Plan and Proposed Soil Closure Strategy Report was submitted to the NMOCD. The report was approved by the NMOCD in a letter dated June 2, 2005. In October 2005, additional excavation along the east sidewall was completed, the excavation was backfilled with remediated soil, and the site was graded to fit the surrounding topography. In December 2005, a Soil Closure Request was submitted to the NMOCD and approved in a letter dated January 31, 2006, which concurred no further action was necessary with regard to soil remediation at the TNM 98-05A Release Site.

During the October 2005 excavation backfilling activities, monitor well MW-4 was damaged and could not be repaired. On January 9, 2006, Plains representatives requested and received NMOCD approval to plug and abandon monitor well MW-4. On March 6, 2006, monitor well MW-4 was plugged and abandoned by a New Mexico licensed water well driller, utilizing New Mexico Office of the State Engineer approved plugging and abandonment procedures.

On February 5, 2014, two (2) additional four (4) inch monitor wells (MW-12 and MW-13) were installed at the TNM 98-05A Release Site.

In the 2nd quarter of 2015, an automated PSH recovery system utilizing skimmer pumps was installed onsite. The skimmer pumps were installed in monitor wells MW-2, MW-10, and MW-13 to assist in PSH recovery. In the 3rd quarter of 2018, the automated PSH recovery system utilizing skimmer pumps was decommissioned due to declining PSH thicknesses.

On November 18, 2015, Plains excavated and visually inspected the abandoned six (6) inch diameter pipeline, which was the source of the TNM 98-05A release. The area excavated began immediately south of monitor well MW-1 and continued approximately fifty (50) feet to the west of monitor well MW-1. Based on visual and olfactory evidence, it appears no secondary releases have occurred from the Plains pipeline.

Currently, there are twelve (12) monitor wells (MW-1 through MW-3, and MW-5 through MW-13) onsite.

FIELD ACTIVITIES

Product Recovery Efforts

A measurable thickness of PSH ranging from 0.00 feet to 0.42 feet were detected in monitor well MW-2 during the 2023 reporting period. A measurable thickness of PSH ranging from 0.00 feet to 0.02 feet were detected in monitor well MW-10 during the 2023 reporting period.

Approximately 2,989.87 gallons (71.185 barrels) of PSH have been recovered since project inception. Groundwater Elevation data is provided as Table 1.

Groundwater Monitoring

Quarterly monitoring events for the reporting period were conducted according to the following sampling schedule, which was approved by the NMOCD in correspondence dated April 28, 2004, and amended by correspondence dated January 19, 2006 and March 24, 2020. The table below illustrates the current groundwater sampling schedule approved by the NMOCD.

NMOCD Approved Sampling Schedule							
MW-1	Quarterly	MW-5	Annually	MW-9	Annually	MW-13	Quarterly
MW-2	Quarterly	MW-6	Semi-Annually	MW-10	Quarterly		
MW-3	Annually	MW-7	Annually	MW-11	Annually		
MW-4	P & A	MW-8	Annually	MW-12	Quarterly		

Quarterly sampling events for the calendar year 2023 were conducted on February 20-22, May 22-23, August 14-15, and November 15-16, 2023. Each quarterly sampling event consisted of gauging all wells and purging and sampling monitor wells as per the approved sampling schedule. During each sampling event, the monitor wells were purged of a minimum of three (3) well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos pump. Groundwater was allowed to recharge and samples were collected using disposable PVC samplers. Water samples were placed in clean glass containers provided by the laboratory and

placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of at a licensed disposal facility.

Please note, during the reporting period, monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 were sampled using industry standard low-flow sampling techniques. A water quality meter was utilized to monitor the flow of groundwater for pH, temperature (°C), conductivity, Oxygen Reduction Potential (ORP), Dissolved Oxygen (DO), and Turbidity. The above parameters were monitored until three (3) of the six (6) parameters stabilized to within a ten percent (10%) “window”, at which time groundwater samples were collected. The six (6) monitor wells (MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12) were sampled for concentrations of BTEX using Method EPA 8021B, Total Organic Carbon (TOC) using Method EPA 415.1, Dissolved Methane Gas using RSK-175, Dissolved Ethane Gas using RSK-175, Dissolved Ethene Gas using RSK-175, Dissolved Iron (filtered) using Method EPA 6010B, Dissolved Manganese (filtered) using Method EPA 6010B, Anion Nitrate and Sulfate by Method EPA 300.0, and Chemical Oxygen Demand (COD) by 8000.

The most recent inferred groundwater gradient, Figure 2D, indicated a general gradient of approximately 0.0040 feet/foot to the southeast as measured between monitor wells MW-5 and MW-6. Inferred Groundwater Gradient Maps prepared during the 1st, 2nd, and 3rd quarters indicated the inferred groundwater gradient was 0.004 feet/foot. The corrected groundwater elevations ranged between 3343.31 and 3,344.59 feet above mean sea level, in monitor well MW-6 on November 16, 2023, and monitor well MW-5 on February 21, 2023, respectively. Groundwater elevation data for the calendar year 2023 is provided in Table 1. Historical groundwater elevation data beginning at project inception is summarized in Table 4.

LABORATORY RESULTS

Groundwater samples collected during the four (4) quarters of 2023 reporting period were delivered to Permian Basin Environmental Laboratories in Midland, Texas for determination of BTEX constituent concentrations by EPA Method 8021B. Polynuclear Aromatic Hydrocarbons (PAH) analysis by EPA Method 8270 was conducted during the 2023 calendar year on monitor wells MW-1, MW-2, MW-3, MW-10, and MW-17. Based on historical PAH analytical data, only those wells exhibiting elevated constituent concentrations above NMWQCC Drinking Water Standards are sampled, with the exclusion of those wells containing measurable PSH thicknesses. A listing of BTEX constituent concentrations for 2023 are summarized in Table 2 and historical concentrations of BTEX in groundwater are summarized in Table 5. The 2023 polynuclear aromatic hydrocarbon concentrations in groundwater are summarized in Table 3 and the historical polynuclear aromatic hydrocarbon concentrations in groundwater are summarized in Table 6. Copies of the laboratory reports generated for 2023 are provided in Appendix A. The quarterly groundwater sample results for BTEX constituent concentrations are depicted on Figures 3A through 3D.

Monitor well MW-1 is sampled on a quarterly schedule and the analytical results indicated benzene concentrations ranged from 0.00413 mg/L during the 4th quarter to 0.0279 mg/L during the 1st quarter. Benzene concentrations were above the NMOCD regulatory guidelines during the 1st, 2nd, and 3rd quarters of the reporting period. Toluene concentrations ranged 0.00184 mg/L

during the 4th quarter to 0.00686 mg/L during the 1st quarter. Toluene concentrations were below the NMOCD regulatory guidelines during all four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from less than the applicable laboratory RL during the 3rd quarter to 0.00904 mg/L during the 4th quarter. Ethylbenzene concentrations were below the NMOCD regulatory guidelines during all four (4) quarters of the reporting period. Xylene concentrations ranged 0.00211 mg/L during the 2nd quarter to 0.0239 mg/L during the 1st quarter. Xylene concentrations were below the NMOCD regulatory guidelines during all four (4) quarters of the reporting period.

PAH analysis during the 4th quarter sampling event indicated elevated concentrations above NMWQCC Drinking Water Standards for fluorene (0.0013 mg/L) and phenanthrene (0.0028 mg/L).

Monitor well MW-2 is sampled on a quarterly schedule but was not sampled during the 4th quarter due to the presence of PSH. Analytical results indicated benzene concentrations ranged from 0.0807 mg/L during the 1st quarter to 0.868 mg/L during the 2nd quarter of 2023. Benzene concentrations were above the NMOCD regulatory guidelines during the 1st, 2nd, and 3rd quarters of the reporting period. Toluene concentrations ranged from 0.0126 mg/L during the 1st quarter to 0.249 mg/L during the 2nd quarter of the reporting period. Toluene concentrations were below the NMOCD regulatory guidelines during the 1st, 2nd, and 3rd quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0147 mg/L during the 1st quarter to 0.902 mg/L during the 2nd quarter of 2023. Ethylbenzene concentrations were above the NMOCD regulatory guidelines during the 2nd quarter of the reporting period. Xylene concentrations ranged from 0.0567 mg/L during the 1st quarter to 2.107 mg/L during the 2nd quarter of 2023. Xylene concentrations were above the NMOCD regulatory guidelines during the 2nd and 3rd quarters of the reporting period.

PAH analysis during the 4th quarter sampling event did not occur due to the presence of PSH.

Monitor well MW-3 is sampled on an annual schedule however, MW-3 was selected as an MNA parameter well and as such was sampled during all four (4) quarters. Analytical results indicated benzene and toluene concentrations were less than the laboratory RL and below the NMOCD regulatory guidelines during all four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from less than the applicable laboratory RL during the 1st, 3rd, and 4th quarters to 0.00390 mg/L during the 2nd quarter of the reporting period. Ethylbenzene concentrations were below the NMOCD regulatory guidelines during all four (4) quarters of the reporting period. Xylene concentrations ranged from below the applicable laboratory RL during the 1st, 3rd, and 4th quarter to 0.01244 mg/L during the 2nd quarter of the reporting period. Xylene concentrations were below the NMOCD regulatory guidelines during all four (4) quarters of the reporting period. PAH analysis was not required during the 4th quarter sampling event.

Please note, monitor well MW-3 was selected as MNA parameter well and is located in the “upgradient within plume” location. Groundwater samples collected during the reporting period were obtained using low-flow sampling techniques. The table below list the stabilization levels for the water quality parameters during the reporting period for monitor well MW-3.

SAMPLE LOCATION	SAMPLE DATE	pH (SU) ± 10%	Temp (°C) ± 10%	Conductivity (u-mhos/cm) ± 10%	ORP (mV) ± 10% mV	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs) ± 10% or less than 5 NTUs
02/21/23	MW-3	7.89	21.65	1.89	177	6.14	0
05/23/23	MW-3	7.88	20.86	1,586	34.8	0	299
08/15/23	MW-3	7.44	23.13	1.91	67.6	18.87	591
11/16/23	MW-3	8.00	20.54	1.59	116.1	8.03	154.3

Analytical benzene data for up to the previous ten (10) years was entered into the GSI Mann-Kendall Toolkit (GSI-MKT), which indicated the Concentration Trend was “Stable” in monitor well MW-3. Analytical toluene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “No Trend” in monitor well MW-3. Analytical ethylbenzene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “Stable” in monitor well MW-3. Analytical xylene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “No Trend” in monitor well MW-3.

Please reference Tables 7 through 10 for benzene, toluene, ethylbenzene, and xylene Constituent Trend Analysis, respectively. Analytical results of MNA constituent samples will be summarized in the Monitored Natural Attenuation Results Summary Section of this Report.

Please note, due to the limitations of the GSI Mann-Kendall Toolkit, constituents exhibiting concentrations less than the laboratory RL are depicted on the GSI Mann-Kendall Toolkit for Constituent Trend Analysis spreadsheet at the applicable laboratory RL.

Monitor well MW-5 is sampled on an annual schedule however, MW-5 was selected as an MNA parameter well and as such was sampled during all four (4) quarters. Analytical results indicated BTEX constituent concentrations were less than the laboratory RL and below the NMOCD regulatory guidelines during all four (4) quarters of the reporting period. PAH analysis was not required during the 4th quarter sampling event. PAH analysis was not required during the 4th quarter sampling event.

Please note, monitor well MW-5 was selected as MNA parameter well and is located in the “upgradient of plume” location. Groundwater samples collected during the reporting period were obtained using low-flow sampling techniques. The table below list the stabilization levels for the water quality parameters during the reporting period for monitor well MW-5.

SAMPLE LOCATION	SAMPLE DATE	pH (SU) ± 10%	Temp (°C) ± 10%	Conductivity (u-mhos/cm) ± 10%	ORP (mV) ± 10% mV	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs) ± 10% or less than 5 NTUs
02/21/23	MW-5	7.77	22.67	1.98	178	4.56	0
05/23/23	MW-5	7.77	21.49	1674	-49.1	0	1,200
08/15/23	MW-5	7.53	22.16	1.97	70.4	17.24	1552
11/16/23	MW-5	7.58	20.47	1.87	71.1	7.63	206.1

Analytical benzene data for up to the previous ten (10) years was entered into the GSI Mann-Kendall Toolkit (GSI-MKT), which indicated the Concentration Trend was “Stable” in monitor well MW-5. Analytical toluene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “No Trend” in monitor well MW-5. Analytical ethylbenzene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “Stable” in monitor well MW-5. Analytical xylene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “No Trend” in monitor well MW-5.

Please reference Tables 7 through 10 for benzene, toluene, ethylbenzene, and xylene Constituent Trend Analysis, respectively. Analytical results of MNA constituent samples will be summarized in the Monitored Natural Attenuation Results Summary Section of this Report.

Please note, due to the limitations of the GSI Mann-Kendall Toolkit, constituents exhibiting concentrations less than the laboratory RL are depicted on the GSI Mann-Kendall Toolkit for Constituent Trend Analysis spreadsheet at the applicable laboratory RL.

Monitor well MW-6 is sampled on a semi-annual schedule however, MW-6 was selected as an MNA parameter well and as such was sampled during all four (4) quarters. Analytical results indicated BTEX constituent concentrations were less than the laboratory RL and below the NMOCD regulatory guidelines during all four (4) quarters of the reporting period. PAH analysis was not required during the 4th quarter sampling event.

Please note, monitor well MW-6 was selected as MNA parameter well and is located “down-gradient of plume” location. Groundwater samples collected during the reporting period were obtained using low-flow sampling techniques. The table below list the stabilization levels for the water quality parameters during the reporting period for monitor well MW-6.

SAMPLE LOCATION	SAMPLE DATE	pH (SU) ± 10%	Temp (°C) ± 10%	Conductivity (u-mhos/cm) ± 10%	ORP (mV) ± 10% mV	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs) ± 10% or less than 5 NTUs
02/21/23	MW-6	7.18	23.11	2.39	105	1.55	0.0
05/23/23	MW-6	7.31	22.56	2,063	-89.9	0.61	3,360
08/15/23	MW-6	7.15	21.81	2.30	13.8	1.77	163.28
11/16/23	MW-6	7.53	20.80	2.19	44	93.1	1739

Analytical benzene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “Stable” in monitor well MW-6. Analytical toluene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “No Trend” in monitor well MW-6. Analytical ethylbenzene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “Stable” in monitor well MW-6. Analytical xylene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “Probably Increasing” in monitor well MW-6.

Please reference Tables 7 through 10 for benzene, toluene, ethylbenzene, and xylene Constituent Trend Analysis, respectively. Analytical results of MNA constituent samples will be summarized in the Monitored Natural Attenuation Results Summary Section of this Report.

Please note, due to the limitations of the GSI Mann-Kendall Toolkit, constituents exhibiting concentrations less than the laboratory RL are depicted on the GSI Mann-Kendall Toolkit for Constituent Trend Analysis spreadsheet at the applicable laboratory RL.

Monitor well MW-7 is sampled on an annual schedule and the analytical results indicated BTEX constituent concentrations were less than the applicable laboratory RL and the NMOCD regulatory guideline during the 4th quarter sampling event. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-8 is sampled on an annual schedule and the analytical results indicated BTEX constituent concentrations were less than the applicable laboratory RL and the NMOCD regulatory guideline during the 4th quarter sampling event. The analytical results indicated BTEX constituent concentrations have been below the NMOCD regulatory guidelines since the 1st quarter of 2000. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-9 is sampled on an annual schedule and the analytical results indicated BTEX constituent concentrations were less than the applicable laboratory RL and the NMOCD regulatory guideline during the 4th quarter sampling event. The analytical results indicated BTEX constituent concentrations have been below the NMOCD regulatory guidelines since the 1st quarter of 2008. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-10 is sampled on a quarterly schedule and the analytical results indicated benzene concentrations ranged from 0.0213 mg/L during the 4th quarter to 0.0879 mg/L during the 1st quarter of 2023. Benzene concentrations were above the NMOCD regulatory guidelines during all four (4) quarters of the reporting period. Toluene concentrations ranged from 0.00203 mg/L during 4th quarter to 0.00383 mg/L during the 1st quarter of 2023. Toluene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from 0.00154 during the 4th quarter to 0.00615 mg/L during the 1st quarter of 2023. Ethylbenzene concentrations were below the NMOCD regulatory guidelines all four (4) quarters of the reporting period. Xylene concentrations ranged from 0.00537 mg/L during the 4th quarter to 0.02602 mg/L during the 3rd quarter of 2023. Xylene concentrations were below the NMOCD regulatory guidelines all four (4) quarters of the reporting period.

PAH analysis during the 4th quarter sampling event indicated elevated concentrations above NMWQCC Drinking Water Standards for fluorene (0.0018 mg/L).

Please note, monitor well MW-10 was selected as MNA parameter well and is located in the “downgradient within the plume” location. Groundwater samples collected during the reporting period were obtained using low-flow sampling techniques. The table below list the stabilization levels for the water quality parameters during the reporting period for monitor well MW-10.

SAMPLE LOCATION	SAMPLE DATE	pH (SU) ± 10%	Temp (°C) ± 10%	Conductivity (u-mhos/cm) ± 10%	ORP (mV) ± 10% mV	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs) ± 10% or less than 5 NTUs
02/21/23	MW-10	7.11	22.44	2.64	-182	1.28	400
05/23/23	MW-10	7.18	24.79	2,089.9	-349.4	0.68	361.38
08/15/23	MW-10	7.10	22.74	2.37	-318	1.68	117
11/16/23	MW-10	7.47	20.59	2.15	-217	0.20	91.8

Analytical benzene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “Decreasing” in monitor well MW-10. Analytical toluene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “Decreasing” in monitor well MW-10. Analytical ethylbenzene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “Decreasing” in monitor well MW-10. Analytical xylene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “Decreasing” in monitor well MW-10.

Please reference Tables 7 through 10 for benzene, toluene, ethylbenzene, and xylene Constituent Trend Analysis, respectively. Analytical results of MNA constituent samples will be summarized in the Monitored Natural Attenuation Results Summary Section of this Report.

Please note, due to the limitations of the GSI Mann-Kendall Toolkit, constituents exhibiting concentrations less than the laboratory RL are depicted on the GSI Mann-Kendall Toolkit for Constituent Trend Analysis spreadsheet at the applicable laboratory RL.

Monitor well MW-11 is sampled on an annual schedule and the analytical results indicated BTEX constituent concentrations were less than the applicable laboratory RL and the NMOCD regulatory guideline during the 4th quarter sampling event. The analytical results indicated BTEX constituent concentrations have been below the NMOCD regulatory guidelines since the 4th quarter of 2005. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-12 is sampled on a quarterly schedule and the analytical results indicated BTEX concentrations were less than the applicable laboratory RL and the NMOCD regulatory guidelines during all four (4) quarters of the reporting period. PAH analysis was not required during the 4th quarter sampling event.

Please note, monitor well MW-12 was selected as MNA parameter well and is located “cross gradient of the plume” location. Groundwater samples collected during the reporting period quarter were obtained using low-flow sampling techniques. The table below list the stabilization levels for the water quality parameters during the reporting period for monitor well MW-12.

SAMPLE LOCATION	SAMPLE DATE	pH (SU) ± 10%	Temp (°C) ± 10%	Conductivity (u-mhos/cm) ± 10%	ORP (mV) ± 10% mV	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs) ± 10% or less than 5 NTUs
02/21/23	MW-12	7.32	22.67	2.14	-57	0.98	0
05/23/23	MW-12	7.27	21.80	1,903	-275.7	0.40	2,900
08/15/23	MW-12	7.13	22.17	2.00	-215	1.70	496
11/16/23	MW-12	7.5	20.68	2.09	-155.2	0.15	178.3

Analytical benzene data for up to the previous ten (10) years was entered into the GSI Mann-Kendall Toolkit (GSI-MKT), which indicated the Concentration Trend was “Decreasing” in monitor well MW-12. Analytical toluene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “No Trend” in monitor well MW-12. Analytical ethylbenzene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “Decreasing” in monitor well MW-12. Analytical xylene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “Probably Decreasing” in monitor well MW-12.

Please note, due to the limitations of the GSI Mann-Kendall Toolkit, constituents exhibiting concentrations less than the laboratory RL are depicted on the GSI Mann-Kendall Toolkit for Constituent Trend Analysis spreadsheet at the applicable laboratory RL.

Monitor well MW-13 is sampled on a quarterly schedule and the analytical results indicated benzene concentrations ranged from 2.78 mg/L during the 3rd quarter to 5.02 mg/L during the 2nd quarter of 2023. Benzene concentrations were above the NMOCD regulatory guidelines during all four (4) quarters of the reporting period. Toluene concentrations ranged from 0.00152 mg/L during the 3rd quarter to 0.00643 mg/L during the 1st quarter of 2023. Toluene concentrations were below the NMOCD regulatory guidelines during all four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0158 mg/L during the 3rd quarter to 0.0515 mg/L during the 1st quarter of 2023. Ethylbenzene concentrations were below the NMOCD regulatory guidelines during all four (4) quarters of the reporting period. Xylene concentrations ranged from 0.00551 mg/L during the 3rd quarter to 0.02431 mg/L during the 1st quarter of 2023. Xylene concentrations were below the NMOCD regulatory guidelines during all four (4) quarters of the reporting period.

PAH analysis during the 4th quarter sampling event indicated elevated concentrations above NMWQCC Drinking Water Standards for fluorene (0.0014 mg/L).

Please note, monitor well MW-13 was selected as MNA parameter well and is located in the “center of plume” location. Groundwater samples collected during the reporting period were obtained using low-flow sampling techniques. The table below list the stabilization levels for the water quality parameters during the reporting period for monitor well MW-13.

SAMPLE LOCATION	SAMPLE DATE	pH (SU) ± 10%	Temp (°C) ± 10%	Conductivity (u-mhos/cm) ± 10%	ORP (mV) ± 10% mV	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs) ± 10% or less than 5 NTUs
02/21/23	MW-13	7.14	22.39	2.59	-202	0	0
05/23/23	MW-13	7.19	22.90	2,276	392.2	0.61	224.08
08/15/23	MW-13	6.89	25.03	2.67	-363	1.58	91
11/16/23	MW-13	7.37	20.93	2.46	-286	0.11	68

Analytical benzene data for up to the previous ten (10) years was entered into the GSI Mann-Kendall Toolkit (GSI-MKT), which indicated the Concentration Trend was “Increasing” in monitor well MW-13. Analytical toluene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “Decreasing” in monitor well MW-13. Analytical ethylbenzene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “Decreasing” in monitor well MW-13. Analytical xylene data for up to the previous ten (10) years was entered into the GSI-MKT, which indicated the Concentration Trend was “Decreasing” in monitor well MW-13.

Please note, due to the limitations of the GSI Mann-Kendall Toolkit, constituents exhibiting concentrations less than the laboratory RL are depicted on the GSI Mann-Kendall Toolkit for Constituent Trend Analysis spreadsheet at the applicable laboratory RL.

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

MONITORED NATURAL ATTENUATION RESULTS SUMMARY

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

Following a release, bacteria and archaea begin to degrade petroleum plumes by oxidizing hydrocarbons. In order for this biodegradation to occur, reducers such as oxygen, nitrate, manganese²⁺, iron³⁺, sulfate, and carbon dioxide must be present. These reactions, termed oxidation-reduction, or “REDOX” reactions, provide bacteria and archaea varying amounts of energy.

The microbial population will utilize the most energetically favorable reaction available and subsequently move to less favorable reactions as electron acceptors are consumed. This process is generally termed the “REDOX Ladder”, which is depicted in the figure below.

Common Hydrocarbon REDOX Reactions in Groundwater		
Reaction	Process	Energy
Aerobic Oxidation	$\text{CH}_2\text{O} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$	-120 Kcal/mol
Denitrification	$5\text{CH}_2\text{O} + 3\text{NO}_3 + 4\text{H}^+ \rightarrow \text{CO}_2 + 7\text{H}_2\text{O} + 2\text{N}_2$	-114 Kcal/mol
Manganese Reduction	$\text{CH}_2\text{O} + 2\text{MnO}_2 + 4\text{H}^+ \rightarrow \text{CO}_2 + 3\text{H}_2\text{O} + 2\text{Mn}^{2+}$	-81 Kcal/mol
Iron Reduction	$\text{CH}_2\text{O} + 4\text{Fe}(\text{OH})_3 + 8\text{H}^+ \rightarrow \text{CO}_2 + 11\text{H}_2\text{O} + 4\text{Fe}^{2+}$	-28 Kcal/mol
Sulfate Reduction	$2\text{CH}_2\text{O} + \text{SO}_4^{2-} + \text{H}^+ \rightarrow 2\text{CO}_2 + 2\text{H}_2\text{O} + \text{HS}^-$	-25 Kcal/mol
Methanogenesis	$2\text{CH}_2\text{O} \rightarrow \text{CH}_3\text{COOH} \rightarrow \text{CH}_4 + \text{CO}_2$	-22 Kcal/mol

The most energetically favorable electron acceptors tend to get consumed first and plumes tend to be limited in them toward the plume center while having excess of the other electron acceptors toward the periphery. For this reason, the groundwater geochemistry of hydrocarbon plumes tends to be characterized by concentric three-dimensional regions each dominated by one of the reactions listed above. The largest source of electron donors is typically light non-aqueous phase liquids (LNAPLs); therefore, the center of the concentric regions tends to be at the location of LNAPL. Please note, LNAPL and PSH are used interchangeably in this report.

The lateral and vertical location as well as the morphology of each region can be determined using the concentration of the electron acceptors, electron donors, and the field-measured parameters such as oxidation-reduction potential (ORP), pH, and dissolved oxygen (DO).

Dissolved-phase hydrocarbon plumes begin to spread out within the subsurface along the direction of groundwater flow (controlled by advection), perpendicular to groundwater flow (controlled by diffusion), and vertically (controlled by infiltration and advection) following the release. LNAPL, when present, tends to be smeared within the soil vertically and along the direction of groundwater flow, however due to higher viscosity, will travel more slowly than groundwater. For these reasons, the plume shape, COC concentrations, and biogeochemistry change with time.

To determine the morphology of each biodegradation region, six (6) monitor wells were sampled. These wells generally included one (1) well upgradient of the plume (MW-5), one (1) well upgradient within the plume (MW-3), one (1) well near the center of the plume (MW-13), one (1) well downgradient within the plume (MW-10), one (1) well downgradient of the plume (MW-6), and one (1) well cross-gradient of the plume center (MW-12).

The six (6) monitor wells (MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12) were sampled for concentrations of BTEX using Method EPA 8021B, Total Organic Carbon (TOC) using

Method EPA 415.1, Dissolved Methane Gas using RSK-175, Dissolved Ethane Gas using RSK-175, Dissolved Ethene Gas using RSK-175, Dissolved Iron (filtered) using Method EPA 6010B, Dissolved Manganese (filtered) using Method EPA 6010B, Anion Nitrate and Sulfate by Method EPA 300.0, and Chemical Oxygen Demand (COD) by 8000.

Please note, due to the limitations of the GSI Mann-Kendall Toolkit, constituents exhibiting concentrations less than the laboratory RL are depicted on the GSI Mann-Kendall Toolkit for Constituent Trend Analysis spreadsheet at the applicable laboratory RL.

For the 1st quarter the analytical results for concentrations of benzene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 2.80 mg/L for monitor well MW-13.

For the 2nd quarter the analytical results for concentrations of benzene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 5.02 mg/L for monitor well MW-13.

For the 3rd quarter the analytical results for concentrations of benzene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 2.78 mg/L for monitor well MW-13.

For the 4th quarter the analytical results for concentrations of benzene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 3.02 mg/L for monitor well MW-13.

Please reference Table 7 for GSI-MKT benzene results. Analytical benzene data for the previous ten (10) years was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12. The GSI-MKT indicated the Concentration Trends for MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 were as follows “Stable”, “Stable”, “Increasing”, “Decreasing”, “Stable”, and “Decreasing”.

For the 1st quarter the analytical results for concentrations of toluene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 0.00643 mg/L for monitor well MW-13.

For the 2nd quarter the analytical results for concentrations of toluene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, MW-10, and MW-12 to 0.00132 mg/L for monitor well MW-10.

For the 3rd quarter the analytical results for concentrations of toluene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 0.00243 mg/L for monitor well MW-10.

For the 4th quarter the analytical results for concentrations of toluene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 0.00253 mg/L for monitor well MW-13.

Please reference Table 8 for GSI-MKT toluene results. Analytical toluene data for the previous ten (10) years was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12. The GSI-MKT indicated the Concentration Trends for MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 were as follows “No Trend”, “No Trend”, “Decreasing”, “Decreasing”, “No Trend”, and “No Trend”.

For the 1st quarter the analytical results for concentrations of ethylbenzene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 0.0515 mg/L for monitor well MW-13.

For the 2nd quarter the analytical results for concentrations of ethylbenzene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-6, and MW-12 to 0.0243 mg/L for monitor well MW-13.

For the 3rd quarter the analytical results for concentrations of ethylbenzene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 0.0158 mg/L for monitor well MW-13.

For the 4th quarter the analytical results for concentrations of ethylbenzene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 0.0269 mg/L for monitor well MW-13.

Please reference Table 9 for GSI-MKT ethylbenzene results. Analytical ethylbenzene data for the previous ten (10) years was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12. The GSI-MKT indicated the Concentration Trends for MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 were as follows “Stable”, “Stable”, “Decreasing”, “Decreasing”, “Stable”, and “Decreasing”.

For the 1st quarter the analytical results for concentrations of xylene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 0.02431 mg/L for monitor well MW-13.

For the 2nd quarter the analytical results for concentrations of xylene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-6, and MW-12 to 0.1417 mg/L for monitor well MW-13.

For the 3rd quarter the analytical results for concentrations of xylene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 0.02602 mg/L for monitor well MW-10.

For the 4th quarter the analytical results for concentrations of xylene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 0.0221 mg/L for monitor well MW-13.

Please reference Table 10 for GSI-MKT xylene results. Analytical xylene data for the previous ten (10) years was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12. The GSI-MKT indicated the Concentration Trends for MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 were as follows “No Trend”, “No Trend”, “Decreasing”, “Decreasing”, “Probably Increasing”, and “Probably Increasing”.

For the 1st quarter the analytical results for concentrations of TOC ranged from below the applicable laboratory RL for monitor well MW-3, to 14.0 mg/L for monitor well MW-13.

For the 2nd quarter the analytical results for concentrations of TOC ranged from 1.04 mg/L for monitor well MW-3, to 9.22 mg/L for monitor well MW-13.

For the 3rd quarter the analytical results for concentrations of TOC ranged from 1.09 mg/L for monitor well MW-3, to 10.5 mg/L for monitor well MW-13.

For the 4th quarter the analytical results for concentrations of TOC from below the applicable laboratory RL for monitor wells MW-5 and MW-3, to 8.78 mg/L for monitor well MW-13.

Please reference Table 11 for GSI-MKT TOC results. Analytical TOC data for the previous nine (9) quarters was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12. The GSI-MKT indicated the Concentration Trends for MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 were as follows “Probably Decreasing”, “Decreasing”, “No Trend”, “Stable”, “Decreasing”, and “Decreasing”.

For the 1st quarter the analytical results for concentrations of Dissolved Methane ranged from 0.000893 mg/L for monitor well MW-3 to 3.53 mg/L for monitor well MW-10.

For the 2nd quarter the analytical results for concentrations of Dissolved Methane ranged from 0.000716 mg/L for monitor well MW-3 to 3.89 mg/L for monitor well MW-13.

For the 3rd quarter the analytical results for concentrations of Dissolved Methane ranged from 0.000570 mg/L for monitor well MW-3 to 4.10 mg/L for monitor well MW-13.

For the 4th quarter the analytical results for concentrations of Dissolved Methane ranged from 0.00174 mg/L for monitor well MW-3 to 2.78 mg/L for monitor well MW-13.

Please reference Table 12 for GSI-MKT Dissolved Methane results. Analytical TOC data for the previous nine (9) quarters was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12. The GSI-MKT indicated the Concentration Trends for MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 were as follows “Stable”, “Probably Decreasing”, “No Trend”, “No Trend”, “Decreasing”, and “Increasing”.

For the 1st quarter the analytical results for concentrations of Dissolved Ethane ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 0.0330 mg/L for monitor well MW-13.

For the 2nd quarter the analytical results for concentrations of Dissolved Ethane ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 0.0178 mg/L for monitor well MW-10.

For the 3rd quarter the analytical results for concentrations of Dissolved Ethane ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-6, and MW-12 to 0.0226 mg/L for monitor well MW-10.

For the 4th quarter the analytical results for concentrations of Dissolved Ethane ranged from less than the applicable laboratory RL for monitor wells MW-3 and MW-13 to 0.0149 mg/L for monitor well MW-10.

Please reference Table 13 for GSI-MKT Dissolved Ethane results. Analytical Dissolved Ethane data for the previous nine (9) quarters was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12. The GSI-MKT indicated the Concentration Trends for MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 were as follows “No Trend”, “Stable”, “Increasing”, “No Trend”, “Stable”, and “No Trend”.

For the 1st quarter the analytical results for concentrations of Dissolved Ethene were less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12.

For the 2nd quarter the analytical results for concentrations of Dissolved Ethene were less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12.

For the 3rd quarter the analytical results for concentrations of Dissolved Ethene ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-13, MW-10, MW-6, and MW-12 to 0.00122 mg/L for monitor well MW-3.

For the 4th quarter the analytical results for concentrations of Dissolved Ethene were less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12.

Please reference Table 14 for GSI-MKT Dissolved Ethene results. Analytical Dissolved Ethene data for the previous nine (9) quarters was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12. The GSI-MKT indicated the Concentration Trends for MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 were as follows “Stable”, “No Trend”, “No Trend”, “Stable”, “Stable”, and “Stable”.

For the 1st quarter the analytical results for concentrations of Dissolved Iron (filtered) ranged from less than the applicable laboratory RL for monitor wells MW-3, MW-13, MW-10, MW-6, and MW-12 to 0.545 mg/L for monitor well MW-5.

For the 2nd quarter the analytical results for concentrations of Dissolved Iron (filtered) ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-13, MW-10, and MW-6 to 0.225 mg/L for monitor well MW-12.

For the 3rd quarter the analytical results for concentrations of Dissolved Iron (filtered) were less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6 and MW-12.

For the 4th quarter the analytical results for concentrations of Dissolved Iron (filtered) ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, MW-13, MW-10, and MW-6 to 0.213 mg/L for monitor well MW-12.

Please reference Table 15 for GSI-MKT Dissolved Iron (filtered) results. Analytical Dissolved Iron data for the previous nine (9) quarters was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12. The GSI-MKT indicated the Concentration Trends for MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 were as follows “No Trend”, “Stable”, “No Trend”, “Decreasing”, “No Trend”, and “No Trend”.

For the 1st quarter the analytical results for concentrations of Dissolved Manganese (filtered) ranged from less than the applicable laboratory RL for monitor well MW-3 to 0.132 mg/L for monitor well MW-10.

For the 2nd quarter the analytical results for concentrations of Dissolved Manganese (filtered) ranged from less than the applicable laboratory RL for monitor wells MW-5 and MW-3 to 0.147 mg/L for monitor well MW-10.

For the 3rd quarter the analytical results for concentrations of Dissolved Manganese (filtered) ranged from less than the applicable laboratory RL for monitor wells MW-3 and MW-12 to 0.192 mg/L for monitor well MW-10.

The analytical results for concentrations of Dissolved Manganese (filtered) ranged from 0.00722 mg/L for monitor well MW-5 to 1.74 mg/L for monitor well MW-3.

Please reference Table 16 for GSI-MKT Dissolved Manganese (filtered) results. Analytical Dissolved Manganese data for the previous nine (9) quarters was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12. The GSI-MKT indicated the Concentration Trends for MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 were as follows “No Trend”, “No Trend”, “No Trend”, “Stable”, “No Trend”, and “No Trend”.

For the 1st quarter the analytical results for concentrations of Nitrate ranged from less than the applicable laboratory RL for monitor wells MW-13, MW-10, and MW-12 to 15.1 mg/L for monitor well MW-6.

For the 2nd quarter the analytical results for concentrations of Nitrate ranged from less than the applicable laboratory RL for monitor wells MW-13, MW-10, and MW-12 to 15.3 mg/L for monitor well MW-6.

For the 3rd quarter the analytical results for concentrations of Nitrate ranged from 0.226 mg/L for monitor well MW-12 to 17.3 mg/L for monitor well MW-6.

For the 4th quarter the analytical results for concentrations of Nitrate ranged from 0.242 mg/L for monitor well MW-13 to 9.40 mg/L for monitor well MW-6.

Please reference Table 17 for GSI-MKT Nitrate results. Analytical Nitrate data for the previous nine (9) quarters was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12. The GSI-MKT indicated the Concentration Trends for MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 were as follows “No Trend”, “Stable”, “No Trend”, “No Trend”, “Decreasing”, and “No Trend”.

For the 1st quarter the analytical results for concentrations of Sulfate ranged from 9.93 mg/L monitor well MW-13 to 184 mg/L for monitor well MW-6.

For the 2nd quarter the analytical results for concentrations of Sulfate ranged from 8.92 mg/L monitor well MW-13 to 187 mg/L for monitor well MW-3.

For the 3rd quarter the analytical results for concentrations of Sulfate ranged from 18.2 mg/L monitor well MW-13 to 192 mg/L for monitor well MW-6.

For the 4th quarter the analytical results for concentrations of Sulfate ranged from 36.8 mg/L monitor well MW-13 to 190 mg/L for monitor well MW-5.

Please reference Table 18 for GSI-MKT Sulfate results. Analytical Sulfate data for the previous nine (9) quarters was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12. The GSI-MKT indicated the Concentration Trends for MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 were as follows “Stable”, “Stable”, “Stable”, “No Trend”, “Decreasing”, and “Stable”.

For the 1st quarter the analytical results for concentrations of COD ranged from less than the applicable laboratory RL for monitor well MW-5 to 52.0 mg/L for monitor well MW-13.

For the 2nd quarter the analytical results for concentrations of COD ranged from 4.00 mg/L for monitor well MW-5 to 37.0 mg/L for monitor well MW-13.

For the 3rd quarter the analytical results for concentrations of COD ranged from less than the applicable laboratory RL for monitor wells MW-5, MW-3, and MW-6 to 36.0 mg/L for monitor well MW-13.

For the 4th quarter the analytical results for concentrations of COD ranged from less than the applicable laboratory RL for monitor well MW-12 to 34.0 mg/L for monitor well MW-10.

Please reference Table 19 for GSI-MKT COD results. Analytical COD data for the previous nine (9) quarters was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12. The GSI-MKT indicated the Concentration Trends for MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 were as follows “No Trend”, “No Trend”, “Stable”, “No Trend”, “No Trend”, and “Probably Decreasing”.

SUMMARY

This report presents the results of four (4) quarterly groundwater monitoring and sampling events for the annual monitoring period of calendar year 2023. Currently, there are twelve (12) groundwater monitor wells (MW-1 through MW-3, and MW-5 through MW-13) on site. The most recent inferred groundwater gradient, Figure 2D, indicated a general gradient of approximately 0.0040 feet/foot to the southeast.

A measurable thickness of PSH ranging from 0.05 feet to 0.42 feet were detected in monitor well MW-2 during the 2023 reporting period. A measurable thickness of PSH ranging from 0.01 feet to 0.02 feet were detected in monitor well MW-10 during the 2023 reporting period. Approximately 2,989.87 gallons (71.185 barrels) of PSH have been recovered since project inception. Groundwater Elevation data is provided as Table 1.

During all four (4) quarterly sampling events, benzene concentrations were above the NMOCD regulatory guidelines in monitor wells MW-1, MW-2, MW-10, and MW-13. BTEX concentrations were below the NMOCD regulatory guidelines in eight (8) sampled monitor wells (MW-3, MW-5 through MW-9, MW-11, and MW-12).

ANTICIPATED ACTIONS

Monitor wells MW-1, MW-2, MW-10, and MW-13 will be gauged and aggressively pumped on a monthly schedule during the 2024 reporting period.

Quarterly monitoring and groundwater sampling will continue in 2024. Based on the results of previous PAH analysis, Plains will conduct PAH analysis on monitor wells MW-1, MW-2, MW-10, and MW-13.

Low-flow sampling of MNA parameters will be conducted on monitor wells MW-5, MW-3, MW-13, MW-10, MW-6, and MW-12 during each quarterly sampling event. Unforeseen circumstances may require modification of this sampling event.

An Annual Monitoring Report will be submitted to the NMOCD by April 1, 2025.

LIMITATIONS

TRC has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

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

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

DISTRIBUTION

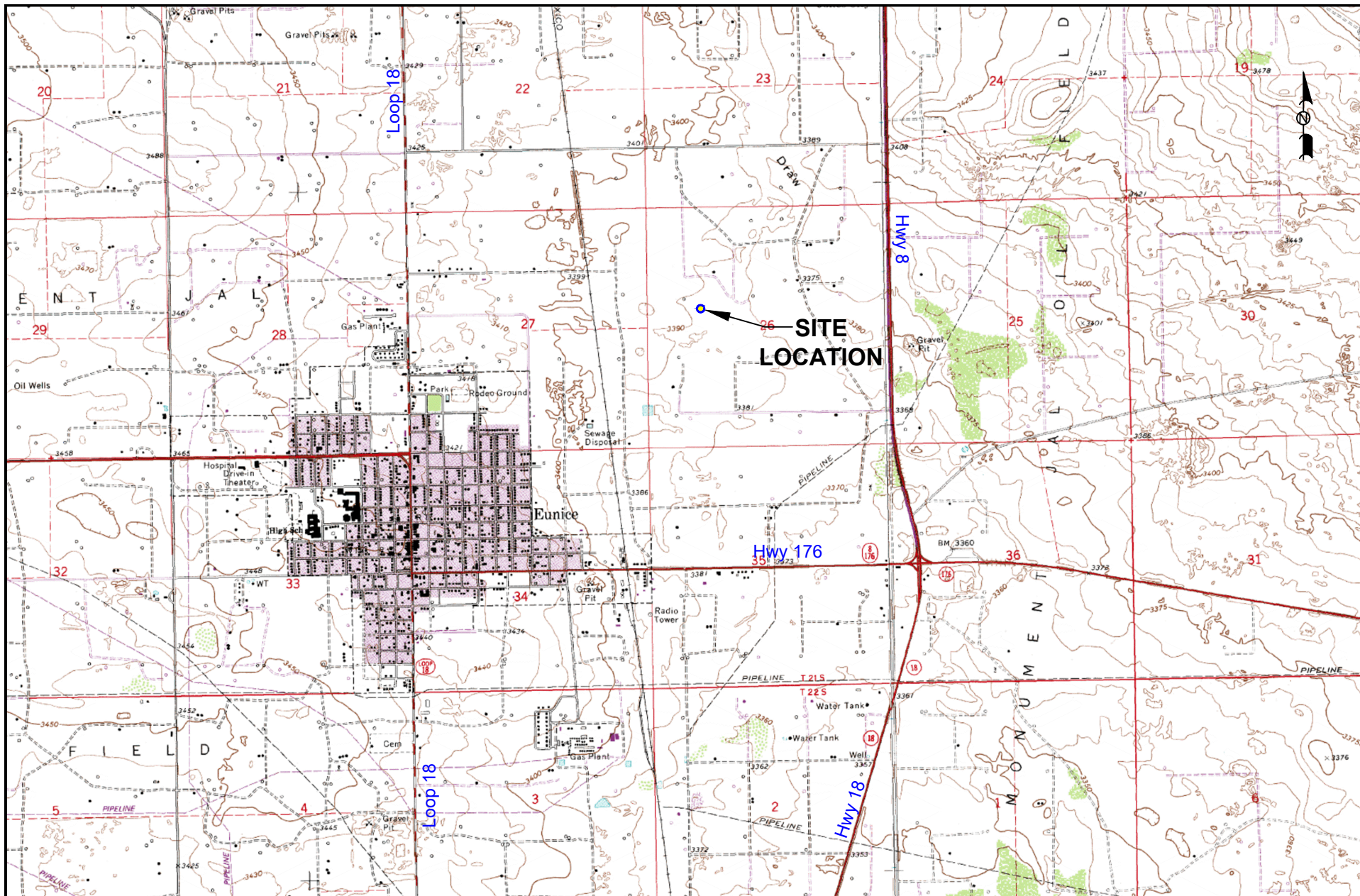
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FIGURES



LEGEND:

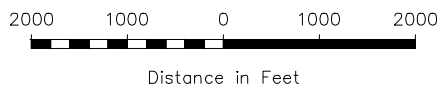


Figure 1
Site Location Map
Plains Marketing, L.P.
TNM 98-05A
NMOCD Reference # AP-12-0
Lea County, NM

Scale: 1" = 2000'

CAD By: TA

Checked By: CS

Draft: October 20, 2020

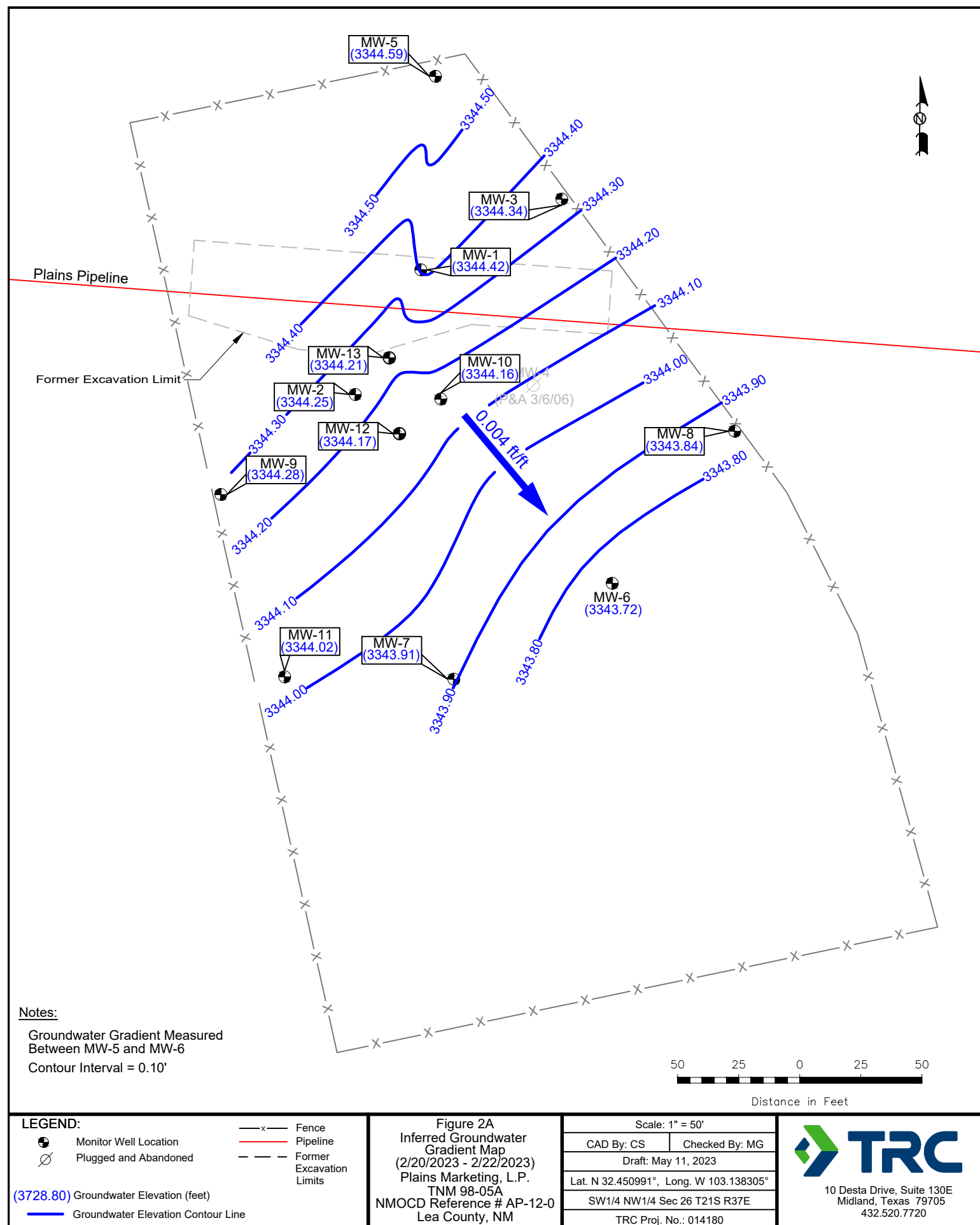
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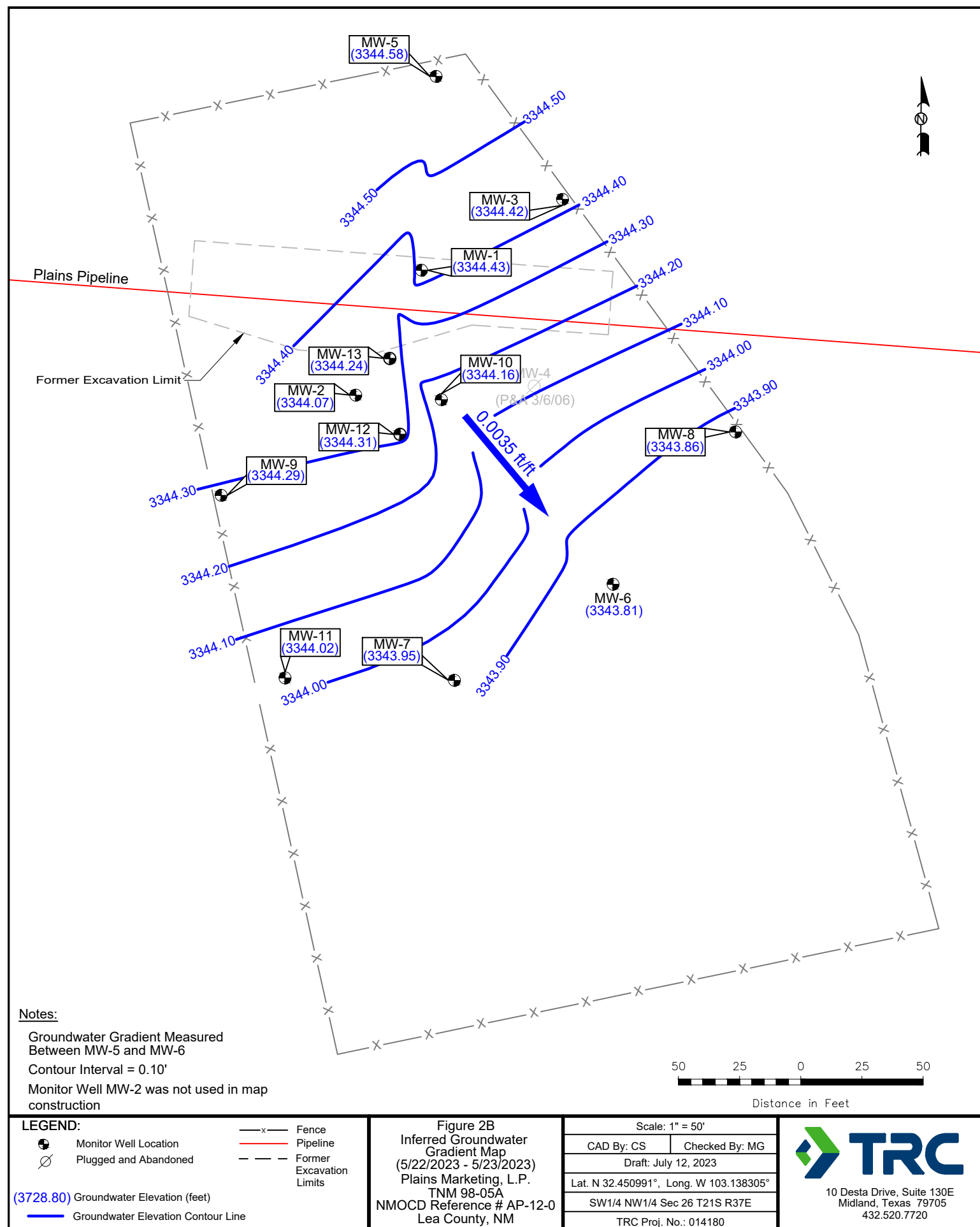
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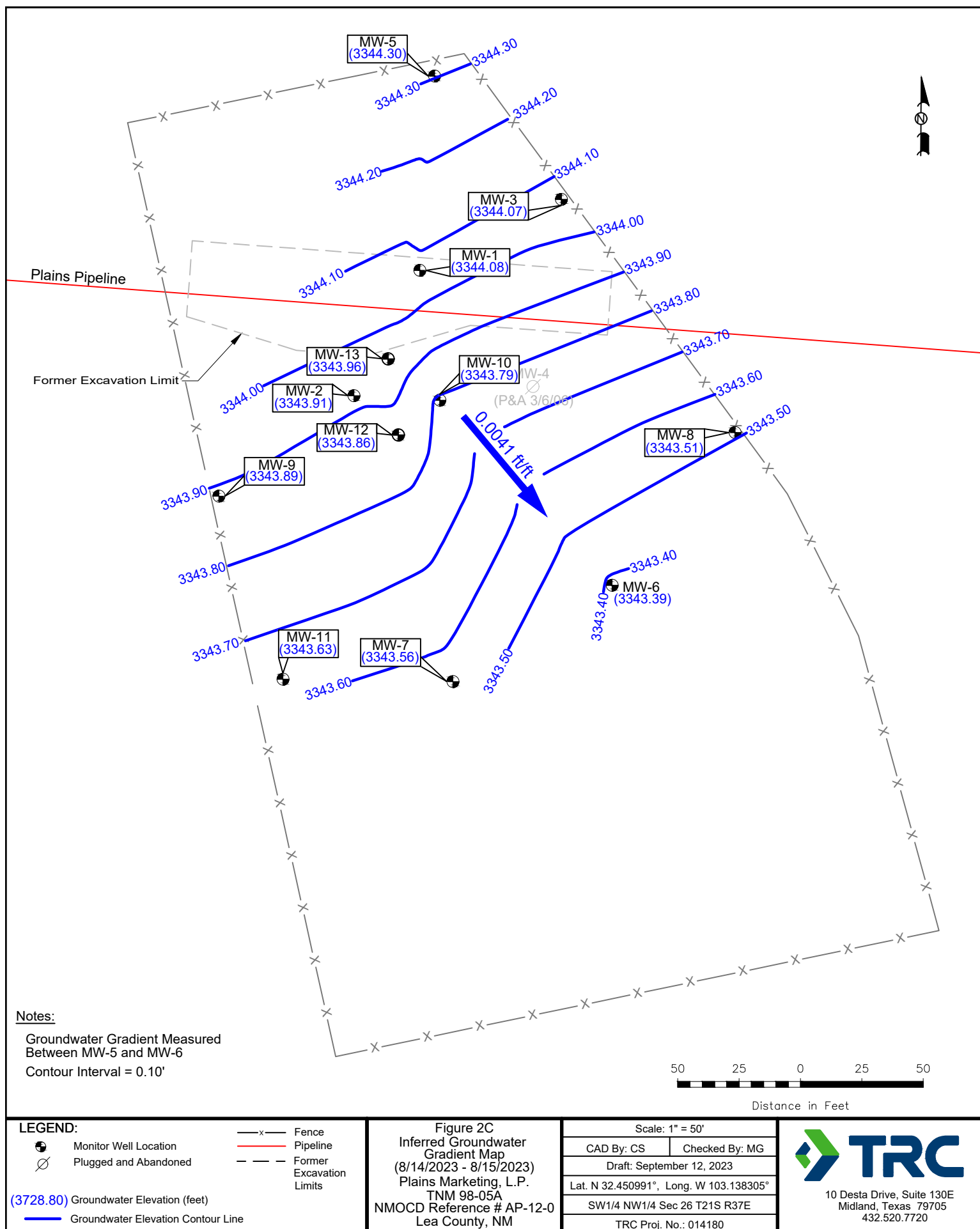
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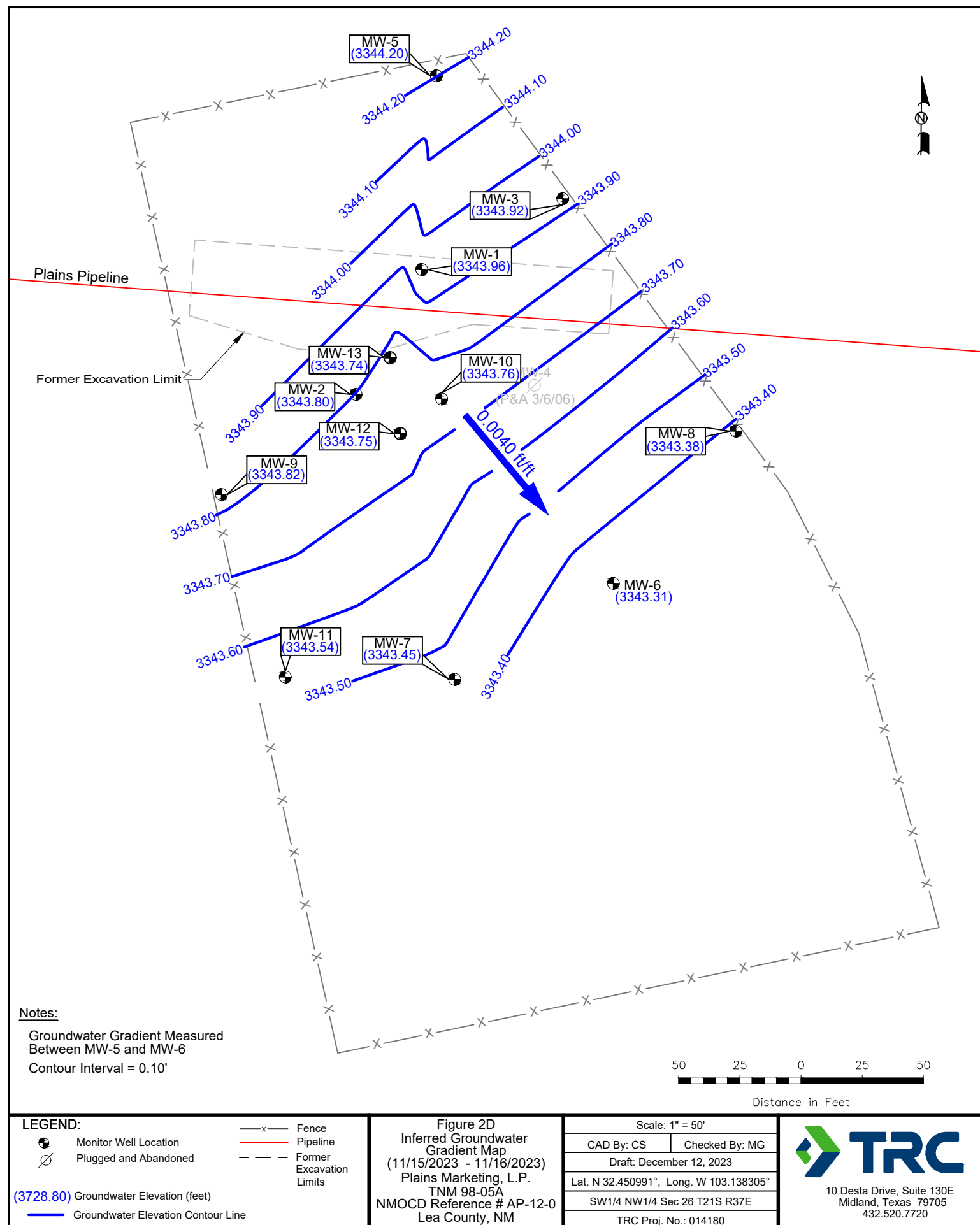


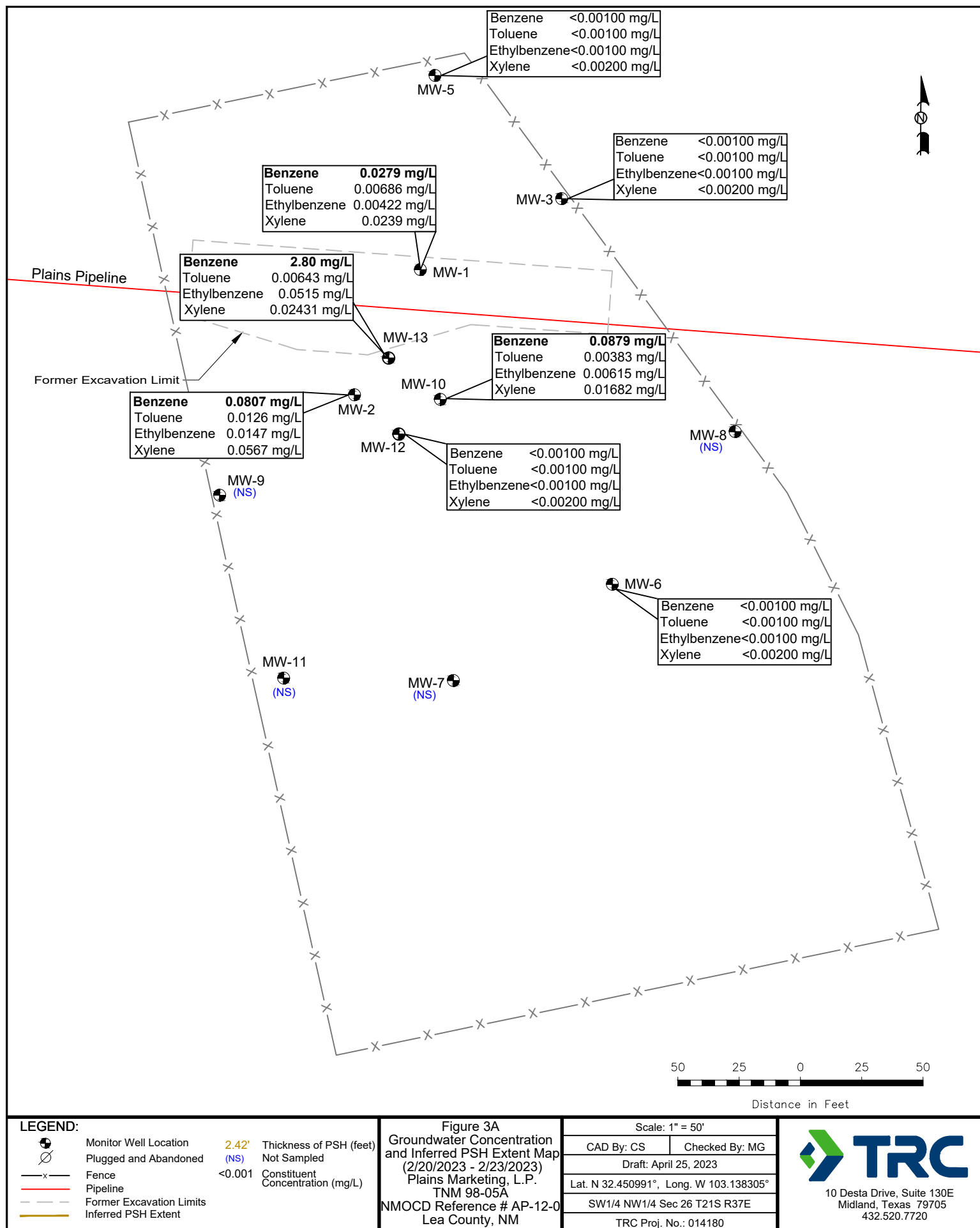
10 Desta Drive, Suite 130E
Midland, Texas 79705
432.520.7720

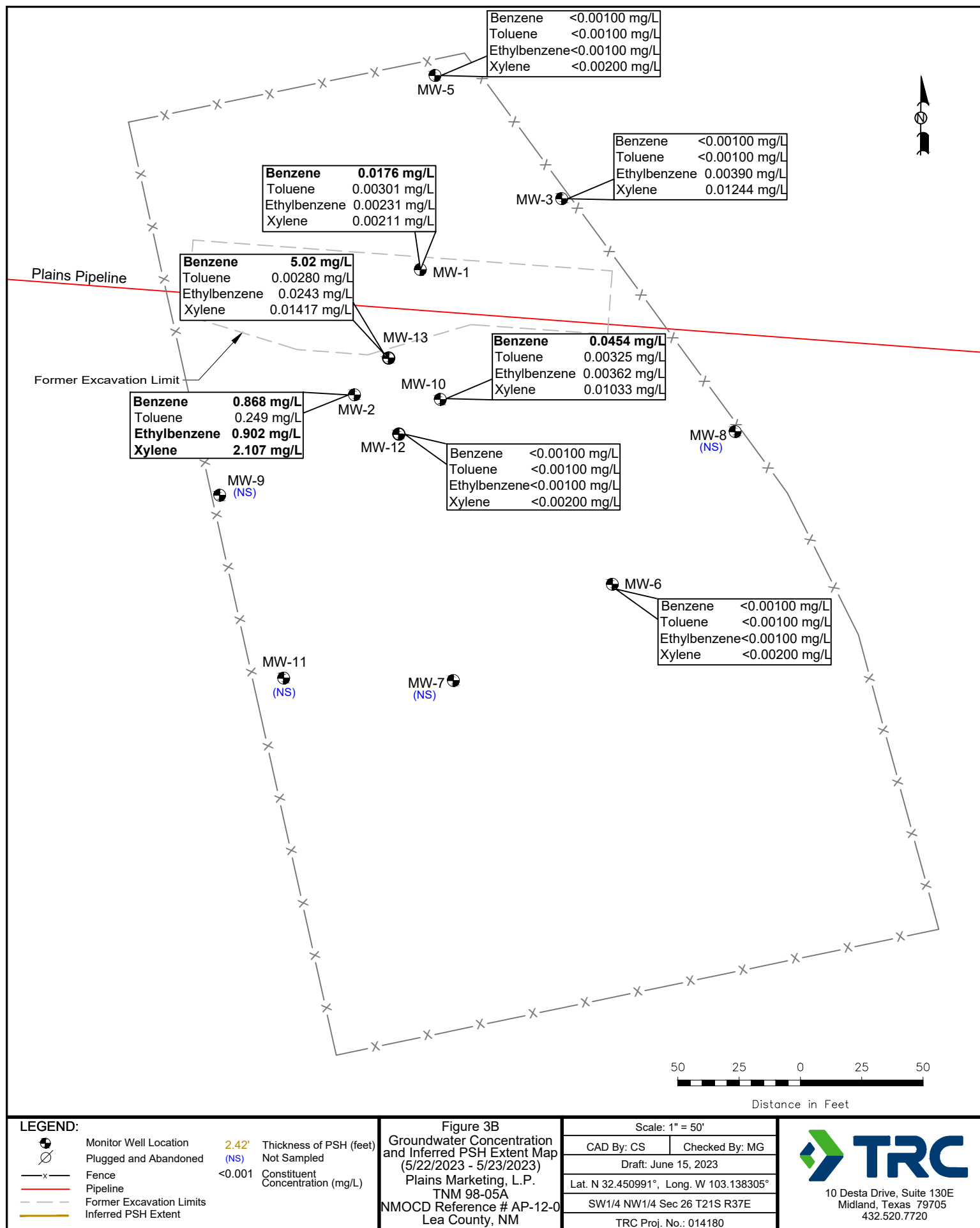


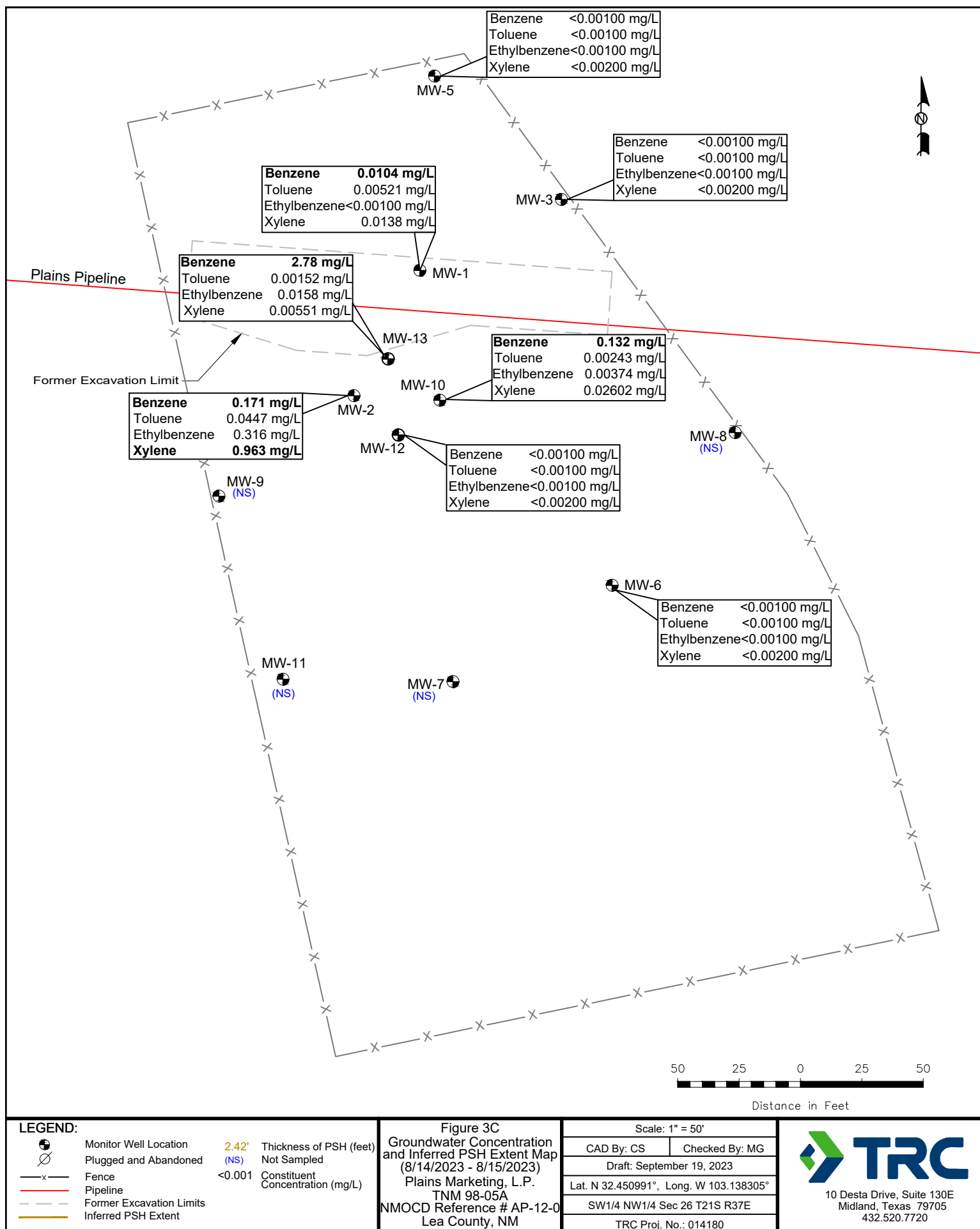


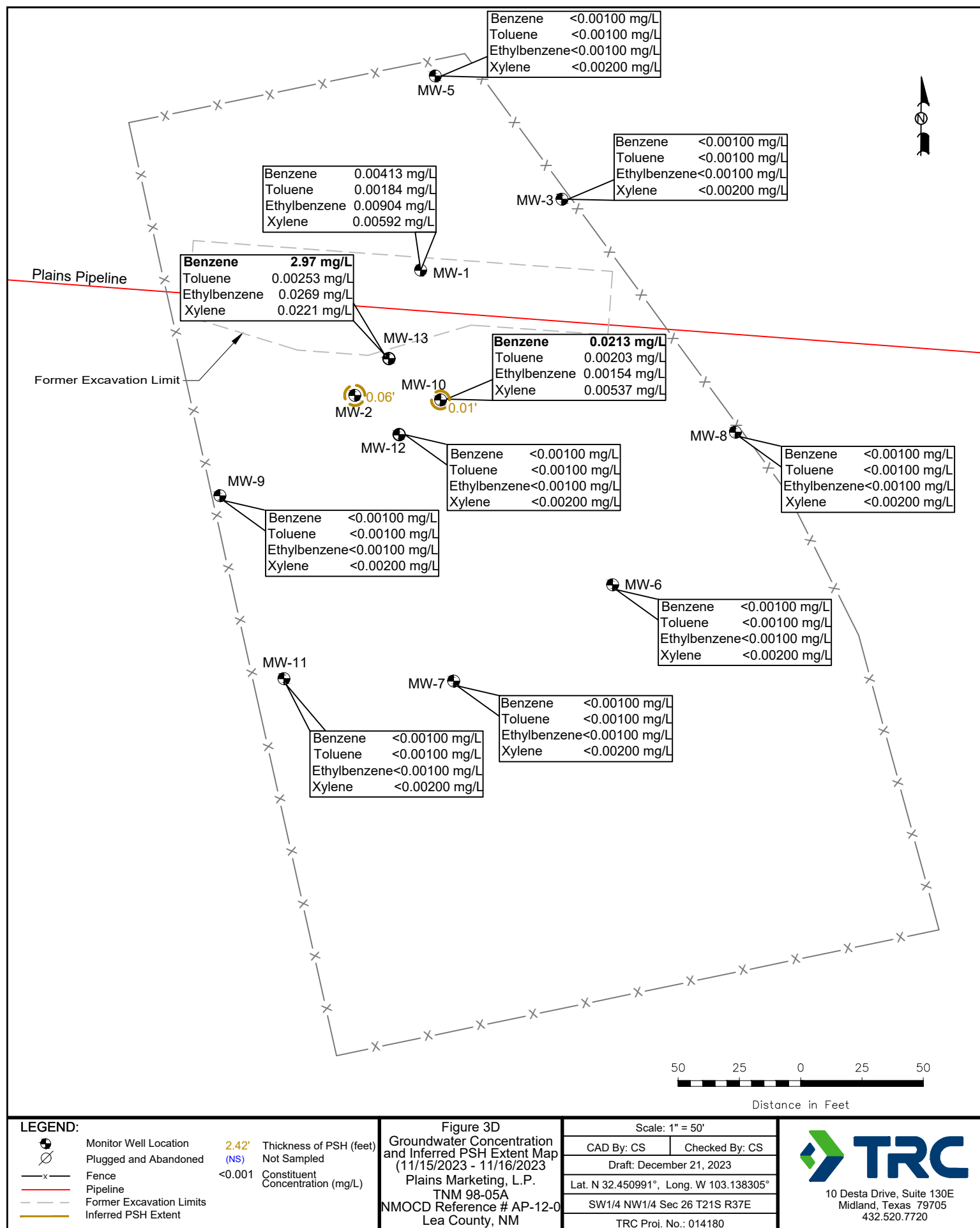












TABLES

TABLE 1

2023 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	Field Tech	TOP OF CASING ELEVATION	Total Well Depth	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	02/21/23	Manny	3391.62	58.78	-	47.20	0.00	3,344.42
MW - 1	05/23/23	Manny	3391.62	58.85	-	47.19	0.00	3,344.43
MW - 1	08/03/23	Manny	3391.62	58.88	-	47.48	0.00	3,344.14
MW - 1	08/15/23	Manny	3391.62	58.90	-	47.54	0.00	3,344.08
MW - 1	11/15/23	Manny	3391.62	58.90	-	47.66	0.00	3,343.96
MW - 2	01/04/23	Manny	3390.85		-	46.79	0.00	3,344.06
MW - 2	02/21/23	Manny	3390.85	56.25	-	46.60	0.00	3,344.25
MW - 2	03/22/23	Manny	3390.85		-	46.65	0.00	3,344.20
MW - 2	04/14/23	Manny	3390.85		46.50	46.92	0.42	3,344.29
MW - 2	05/22/23	Manny	3390.85	56.32	-	46.78	0.00	3,344.07
MW - 2	05/23/23	Manny	3390.85		-	46.78	0.00	3,344.07
MW - 2	06/28/23	Manny	3390.85		-	46.75	0.00	3,344.10
MW - 2	07/14/23	Manny	3390.85		-	46.80	0.00	3,344.05
MW - 2	08/03/23	Manny	3390.85	56.35	-	46.97	0.00	3,343.88
MW - 2	08/15/23	Manny	3390.85		-	46.94	0.00	3,343.91
MW - 2	09/12/23	Manny	3390.85		47.07	47.12	0.05	3,343.77
MW - 2	11/15/23	Manny	3390.85		47.04	47.10	0.06	3,343.80
MW - 2	11/17/23	Manny	3390.85		47.04	47.10	0.06	3,343.80
MW - 2	12/22/23	Manny	3390.85			47.03	0.00	3,343.82
MW - 3	02/21/23	Manny	3391.08	58.54	-	46.74	0.00	3,344.34
MW - 3	05/23/23	Manny	3391.08	58.52	-	46.66	0.00	3,344.42
MW - 3	08/03/23	Manny	3391.08	58.55	-	47.02	0.00	3,344.06
MW - 3	08/15/23	Manny	3391.08	58.54	-	47.01	0.00	3,344.07
MW - 3	11/16/23	Manny	3391.08	58.59	-	47.16	0.00	3,343.92
MW - 5	02/21/23	Manny	3391.53	64.30	-	46.94	0.00	3,344.59
MW - 5	05/23/23	Manny	3391.53	64.30	-	46.95	0.00	3,344.58
MW - 5	08/03/23	Manny	3391.53	64.32	-	47.14	0.00	3,344.39
MW - 5	08/15/23	Manny	3391.53	64.32	-	47.23	0.00	3,344.30
MW - 5	11/16/23	Manny	3391.53	64.20	-	47.33	0.00	3,344.20
MW - 6	02/21/23	Manny	3391.14	56.19	-	47.42	0.00	3,343.72
MW - 6	05/23/23	Manny	3391.14	56.20	-	47.33	0.00	3,343.81
MW - 6	08/03/23	Manny	3391.14	56.18	-	47.65	0.00	3,343.49
MW - 6	08/15/23	Manny	3391.14	56.17	-	47.75	0.00	3,343.39
MW - 6	11/16/23	Manny	3391.14	56.20	-	47.83	0.00	3,343.31
MW - 7	02/20/23	Manny	3391.21		-	47.30	0.00	3,343.91
MW - 7	05/23/23	Manny	3391.21		-	47.26	0.00	3,343.95
MW - 7	08/03/23	Manny	3391.21		-	47.59	0.00	3,343.62
MW - 7	08/14/23	Manny	3391.21		-	47.65	0.00	3,343.56
MW - 7	11/15/23	Manny	3391.21	56.14	-	47.76	0.00	3,343.45
MW - 8	02/20/23	Manny	3391.14		-	47.30	0.00	3,343.84
MW - 8	05/23/23	Manny	3391.14		-	47.28	0.00	3,343.86
MW - 8	08/03/23	Manny	3391.14		-	47.58	0.00	3,343.56
MW - 8	08/14/23	Manny	3391.14		-	47.63	0.00	3,343.51
MW - 8	11/15/23	Manny	3391.14	55.06	-	47.76	0.00	3,343.38
MW - 9	02/20/23	Manny	3391.47		-	47.19	0.00	3,344.28
MW - 9	05/23/23	Manny	3391.47		-	47.18	0.00	3,344.29
MW - 9	08/03/23	Manny	3391.47		-	47.47	0.00	3,344.00
MW - 9	08/14/23	Manny	3391.47		-	47.58	0.00	3,343.89
MW - 9	11/15/23	Manny	3391.47	54.72	-	47.65	0.00	3,343.82

TABLE 1

2023 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	Field Tech	TOP OF CASING ELEVATION	Total Well Depth	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	01/04/23	Manny	3391.26		-	47.33	0.00	3,343.93
MW - 10	02/21/23	Manny	3391.26	55.32	-	47.10	0.00	3,344.16
MW - 10	03/22/23	Manny	3391.26		-	47.17	0.00	3,344.09
MW - 10	04/14/23	Manny	3391.26		-	47.10	0.00	3,344.16
MW - 10	05/22/23	Manny	3391.26		-	47.10	0.00	3,344.16
MW - 10	05/23/23	Manny	3391.26	55.35	-	47.10	0.00	3,344.16
MW - 10	06/28/23	Manny	3391.26		-	47.22	0.00	3,344.04
MW - 10	07/14/23	Manny	3391.26		-	47.28	0.00	3,343.98
MW - 10	08/03/23	Manny	3391.26		-	47.59	0.00	3,343.67
MW - 10	08/15/23	Manny	3391.26	55.29	-	47.47	0.00	3,343.79
MW - 10	09/12/23	Manny	3391.26		47.51	47.53	0.02	3,343.75
MW - 10	11/16/23	Manny	3391.26	55.45	47.50	47.51	0.01	3,343.76
MW - 10	11/17/23	Manny	3391.26		47.50	47.51	0.01	3,343.76
MW - 10	12/22/23	Manny	3391.26			47.50	0.00	3,343.76
MW - 11	02/20/23	Manny	3390.73		-	46.71	0.00	3,344.02
MW - 11	05/23/23	Manny	3390.73		-	46.71	0.00	3,344.02
MW - 11	08/03/23	Manny	3390.73		-	47.02	0.00	3,343.71
MW - 11	08/14/23	Manny	3390.73		-	47.10	0.00	3,343.63
MW - 11	11/15/23	Manny	3390.73	54.90	-	47.19	0.00	3,343.54
MW - 12	02/21/23	Manny	3391.57	60.73	-	47.40	0.00	3,344.17
MW - 12	05/23/23	Manny	3391.57	60.85	-	47.26	0.00	3,344.31
MW - 12	08/03/23	Manny	3391.57	60.90	-	47.64	0.00	3,343.93
MW - 12	08/15/23	Manny	3391.57	60.90	-	47.71	0.00	3,343.86
MW - 12	11/16/23	Manny	3391.57	60.80	-	47.82	0.00	3,343.75
MW - 13	01/04/23	Manny	3391.89		-	47.82	0.00	3,344.07
MW - 13	02/21/23	Manny	3391.89	62.55	-	47.68	0.00	3,344.21
MW - 13	03/22/23	Manny	3391.89		-	47.77	0.00	3,344.12
MW - 13	04/14/23	Manny	3391.89		-	47.63	0.00	3,344.26
MW - 13	05/22/23	Manny	3391.89		-	47.65	0.00	3,344.24
MW - 13	05/23/23	Manny	3391.89	62.70	-	47.65	0.00	3,344.24
MW - 13	06/28/23	Manny	3391.89		-	47.78	0.00	3,344.11
MW - 13	07/14/23	Manny	3391.89		-	47.90	0.00	3,343.99
MW - 13	08/03/23	Manny	3391.89	62.57	-	47.86	0.00	3,344.03
MW - 13	08/15/23	Manny	3391.89	62.58	-	47.93	0.00	3,343.96
MW - 13	09/12/23	Manny	3391.89		-	48.22	0.00	3,343.67
MW - 13	11/16/23	Manny	3391.89	62.55	-	48.15	0.00	3,343.74
MW - 13	11/17/23	Manny	3391.89		-	48.15	0.00	3,343.74
MW - 13	12/22/23	Manny	3391.89		48.02	48.03	0.01	3,343.87

TABLE 2

2023 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 1	02/22/23	0.0279	0.00686	0.00422	0.0239	
MW - 1	05/23/23	0.0176	0.00301	0.00231	0.00211	
MW - 1	08/15/23	0.0104	0.00521	<0.00100	0.0138	
MW - 1	11/15/23	0.00413	0.00184	0.00904	0.00592	
MW - 2	02/22/23	0.0807	0.0126	0.0147	0.0567	
MW - 2	05/23/23	0.868	0.249	0.902	2.107	
MW - 2	08/15/23	0.171	0.0447	0.316	0.963	
MW - 2	11/15/23	Not Sampled Due to PSH in Well				
MW - 3	02/21/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 3	05/23/23	<0.00100	<0.00100	0.00390	0.01244	
MW - 3	08/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 3	11/16/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 5	02/21/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 5	05/23/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 5	08/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 5	11/16/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	02/21/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	05/23/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	08/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	11/16/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 7	02/21/23	Not Sampled on Current Sample Schedule				
MW - 7	05/23/23	Not Sampled on Current Sample Schedule				
MW - 7	08/15/23	Not Sampled on Current Sample Schedule				
MW - 7	11/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 8	02/21/23	Not Sampled on Current Sample Schedule				
MW - 8	05/23/23	Not Sampled on Current Sample Schedule				
MW - 8	08/15/23	Not Sampled on Current Sample Schedule				
MW - 8	11/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 9	02/21/23	Not Sampled on Current Sample Schedule				
MW - 9	05/23/23	Not Sampled on Current Sample Schedule				
MW - 9	08/15/23	Not Sampled on Current Sample Schedule				
MW - 9	11/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 10	02/21/23	0.0879	0.00383	0.00615	0.01682	
MW - 10	05/23/23	0.0454	0.00325	0.00362	0.01033	

TABLE 2

2023 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 10	08/15/23	0.132	0.00243	0.00374	0.02602	
MW - 10	11/16/23	0.0213	0.00203	0.00154	0.00537	
MW - 11	02/21/23	Not Sampled on Current Sample Schedule				
MW - 11	05/23/23	Not Sampled on Current Sample Schedule				
MW - 11	08/15/23	Not Sampled on Current Sample Schedule				
MW - 11	11/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW-12	02/21/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW-12	05/23/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW-12	08/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW-12	11/16/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW-13	02/21/23	2.80	0.00643	0.0515	0.02431	
MW-13	05/23/23	5.02	0.00280	0.0243	0.01417	
MW-13	08/15/23	2.78	0.00152	0.0158	0.00551	
MW-13	11/16/23	2.97	0.00253	0.0269	0.0221	

TABLE 3

2023 POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05A
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER AP-12

All water concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		---	---	0.001 mg/L	0.0001 mg/L	0.0007 mg/L	0.001 mg/L	---	0.001 mg/L	0.0002 mg/L	0.0003 mg/L	0.001 mg/L	0.001 mg/L	0.0004 mg/L	0.001 mg/L	0.001 mg/L	0.03 mg/L		---	
MW-1	11/15/23	0.00055	0.00069	0.00061	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	0.0013	<0.00011	0.0028	<0.00011	0.0095		-	
MW-2	11/15/23	Not Sampled due to the presence of PSH																	-	
MW-3	11/15/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/15/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	11/15/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/15/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/15/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	11/15/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-10	11/16/23	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0018	<0.00010	0.00098	<0.00010	0.009		-	
MW-11	11/15/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	11/15/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	11/16/23	0.00022	<0.00010	0.00059	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0014	<0.00010	0.00052	<0.00010	0.0296		-	

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	02/03/99	3390.57	46.05	49.70	3.65	3,343.97
MW - 1	05/12/99	3390.57	45.99	49.31	3.32	3,344.08
MW - 1	08/23/99	3390.57	46.15	49.51	3.36	3,343.92
MW - 1	11/29/99	3390.57	45.61	45.84	0.23	3,344.93
MW - 1	03/09/00	3390.57	46.48	47.57	1.09	3,343.93
MW - 1	05/11/00	3390.57	46.13	46.92	0.79	3,344.32
MW - 1	09/12/00	3390.57	46.13	46.74	0.61	3,344.35
MW - 1	12/14/00	3390.57	45.81	46.90	1.09	3,344.60
MW - 1	03/21/01	3390.57	46.48	47.57	1.09	3,343.93
MW - 1	05/30/01	3390.57	46.13	48.40	2.27	3,344.10
MW - 1	09/25/01	3390.57	COULD NOT GAUGE DUE TO EXCAVATION			-
MW - 1	11/17/01	3390.57	COULD NOT GAUGE DUE TO EXCAVATION			-
MW - 1	02/20/02	3390.57	COULD NOT GAUGE DUE TO EXCAVATION			-
MW - 1	05/20/02	3390.57	COULD NOT GAUGE DUE TO EXCAVATION			-
MW - 1	09/24/02	3390.57	COULD NOT GAUGE DUE TO EXCAVATION			-
MW - 1	10/29/02	3390.57	42.37	39.58	-	-
MW - 1	11/06/02	3390.57	39.23	41.26	2.03	3,351.04
MW - 1	11/13/02	3390.57	39.86	41.38	1.52	3,350.48
MW - 1	01/07/03	3390.57	39.74	41.56	1.82	3,350.56
MW - 1	01/13/03	3390.57	39.72	41.55	1.83	3,350.58
MW - 1	01/27/03	3390.57	39.82	41.66	1.84	3,350.47
MW - 1	02/06/03	3390.57	39.89	41.50	1.61	3,350.44
MW - 1	03/11/03	3390.57	39.96	41.34	1.38	3,350.40
MW - 1	05/08/03	3390.57	35.92	37.75	1.83	3,354.38
MW - 1	05/15/03	3390.57	36.08	37.95	1.87	3,354.21
MW - 1	05/20/03	3390.57	36.27	38.18	1.91	3,354.01
MW - 1	05/27/03	3390.57	36.35	38.26	1.91	3,353.93
MW - 1	06/03/03	3390.57	36.30	38.15	1.85	3,353.99
MW - 1	06/10/03	3390.57	36.43	38.34	1.91	3,353.85
MW - 1	06/25/03	3390.57	36.73	37.82	1.09	3,353.68
MW - 1	07/02/03	3390.57	36.97	37.80	0.83	3,353.48
MW - 1	07/07/03	3390.57	36.72	37.91	1.19	3,353.67
MW - 1	07/22/03	3390.57	39.99	40.97	0.98	3,350.43
MW - 1	07/30/03	3390.57	36.45	37.04	0.59	3,354.03
MW - 1	08/06/03	3390.57	36.15	36.80	0.65	3,354.32
MW - 1	08/13/03	3390.57	36.72	36.85	0.13	3,353.83
MW - 1	08/19/03	3390.57	36.41	36.89	0.48	3,354.09
MW - 1	08/20/03	3390.57	36.93	37.19	0.26	3,353.60
MW - 1	08/25/03	3390.57	36.97	37.25	0.28	3,353.56
MW - 1	09/08/03	3390.57	sheen	37.45	0.00	3,353.12
MW - 1	09/15/03	3390.57	sheen	37.48	0.00	3,353.09
MW - 1	09/24/03	3390.57	sheen	37.59	0.00	3,352.98
MW - 1	09/30/03	3390.57	37.18	37.19	0.01	3,353.39
MW - 1	10/07/03	3390.57	37.40	37.41	0.01	3,353.17

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	10/22/03	3390.57	sheen	37.31	0.00	3,353.26
MW - 1	10/27/03	3390.57	sheen	37.13	0.00	3,353.44
MW - 1	11/07/03	3390.57	37.40	37.52	0.12	3,353.15
MW - 1	11/10/03	3390.57	sheen	37.53	0.00	3,353.04
MW - 1	11/17/03	3390.57	sheen	36.81	0.00	3,353.76
MW - 1	12/08/03	3390.57	sheen	35.77	0.00	3,354.80
MW - 1	12/17/03	3390.57	sheen	36.79	0.00	3,353.78
MW - 1	12/22/03	3390.57	37.33	37.34	0.01	3,353.24
MW - 1	01/02/04	3390.57	sheen	35.41	0.00	3,355.16
MW - 1	01/06/04	3390.57	sheen	37.35	0.00	3,353.22
MW - 1	01/19/04	3390.57	sheen	35.96	0.00	3,354.61
MW - 1	01/26/04	3390.57	sheen	36.04	0.00	3,354.53
MW - 1	02/02/04	3390.57	sheen	35.99	0.00	3,354.58
MW - 1	02/09/04	3390.57	35.52	35.53	0.01	3,355.05
MW - 1	02/19/04	3390.57	sheen	35.62	0.00	3,354.95
MW - 1	02/23/04	3390.57	-	35.50	0.00	3,355.07
MW - 1	03/01/04	3390.57	-	35.48	0.00	3,355.09
MW - 1	03/10/04	3390.57	-	35.51	0.00	3,355.06
MW - 1	03/15/04	3390.57	-	35.94	0.00	3,354.63
MW - 1	03/23/04	3390.57	-	36.50	0.00	3,354.07
MW - 1	03/30/04	3390.57	-	36.66	0.00	3,353.91
MW - 1	04/12/04	3390.57	-	36.60	0.00	3,353.97
MW - 1	04/20/04	3390.57	-	36.00	0.00	3,354.57
MW - 1	05/03/04	3390.57	-	36.44	0.00	3,354.13
MW - 1	05/04/04	3390.57	-	36.44	0.00	3,354.13
MW - 1	06/09/04	3390.57	sheen	36.47	0.00	3,354.10
MW - 1	06/09/04	3390.57	36.47	36.47	0.01	3,354.11
MW - 1	06/16/04	3390.57	sheen	36.49	0.00	3,354.08
MW - 1	06/30/04	3390.57	sheen	26.50	0.00	3,364.07
MW - 1	07/13/04	3390.57	36.64	36.65	0.01	3,353.93
MW - 1	06/23/04	3390.57	sheen	26.52	0.00	3,364.05
MW - 1	08/23/04	3390.57	36.88	36.94	0.06	3,353.68
MW - 1	09/13/04	3390.57	sheen	37.10	0.00	3,353.47
MW - 1	09/22/04	3390.57	-	37.21	0.00	3,353.36
MW - 1	09/22/04	3390.57	-	37.21	0.00	3,353.36
MW - 1	09/29/04	3390.57	sheen	36.81	0.00	3,353.76
MW - 1	10/04/04	3390.57	sheen	36.15	0.00	3,354.42
MW - 1	10/04/04	3390.57	sheen	36.15	0.00	3,354.42
MW - 1	10/11/04	3390.57	sheen	35.98	0.00	3,354.59
MW - 1	10/19/04	3390.57	sheen	36.10	0.00	3,354.47
MW - 1	10/25/04	3390.57	sheen	36.13	0.00	3,354.44
MW - 1	11/01/04	3390.57	sheen	36.36	0.00	3,354.21
MW - 1	11/09/04	3390.57	sheen	36.31	0.00	3,354.26
MW - 1	11/17/04	3390.57	sheen	36.89	0.00	3,353.68

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	11/22/04	3390.57	sheen	36.50	0.00	3,354.07
MW - 1	11/29/04	3390.57	sheen	36.03	0.00	3,354.54
MW - 1	12/04/04	3390.57	sheen	35.65	0.00	3,354.92
MW - 1	12/13/04	3390.57	sheen	35.42	0.00	3,355.15
MW - 1	12/20/04	3390.57	sheen	35.30	0.00	3,355.27
MW - 1	12/30/04	3390.57	sheen	35.04	0.00	3,355.53
MW - 1	01/03/05	3390.57	sheen	35.01	0.00	3,355.56
MW - 1	01/10/05	3390.57	sheen	35.21	0.00	3,355.36
MW - 1	01/17/05	3390.57	sheen	35.19	0.00	3,355.38
MW - 1	01/24/05	3390.57	sheen	35.17	0.00	3,355.40
MW - 1	01/31/05	3390.57	sheen	35.29	0.00	3,355.28
MW - 1	02/07/05	3390.57	sheen	35.21	0.00	3,355.36
MW - 1	02/14/05	3390.57	sheen	35.28	0.00	3,355.29
MW - 1	02/21/05	3390.57	sheen	35.25	0.00	3,355.32
MW - 1	02/28/05	3390.57	sheen	35.29	0.00	3,355.28
MW - 1	03/07/05	3390.57	-	35.07	0.00	3,355.50
MW - 1	03/07/05	3390.57	sheen	35.07	0.00	3,355.50
MW - 1	03/16/05	3390.57	sheen	35.00	0.00	3,355.57
MW - 1	03/21/05	3390.57	sheen	34.95	0.00	3,355.62
MW - 1	03/28/05	3390.57	sheen	35.04	0.00	3,355.53
MW - 1	04/04/05	3390.57	sheen	35.07	0.00	3,355.50
MW - 1	04/13/05	3390.57	sheen	35.09	0.00	3,355.48
MW - 1	04/18/05	3390.57	sheen	35.10	0.00	3,355.47
MW - 1	05/23/05	3390.57	sheen	35.24	0.00	3,355.33
MW - 1	06/07/05	3390.57	-	35.05	0.00	3,355.52
MW - 1	06/21/05	3390.57	sheen	35.20	0.00	3,355.37
MW - 1	07/26/05	3390.57	sheen	35.05	0.00	3,355.52
MW - 1	08/25/05	3390.57	sheen	35.23	0.00	3,355.34
MW - 1	09/07/05	3390.57	sheen	35.20	0.00	3,355.37
MW - 1	09/26/05	3390.57	sheen	35.35	0.00	3,355.22
MONITOR WELL RISER WAS EXTENDED & RESURVEYED - NOTE ELEVATION CHANGE						
MW - 1	11/14/05	3391.62	sheen	49.84	0.00	3,341.78
MW - 1	12/14/05	3391.62	-	46.80	0.00	3,344.82
MW - 1	12/28/05	3391.62	sheen	46.55	0.00	3,345.07
MW - 1	01/12/06	3391.62	-	46.47	0.00	3,345.15
MW - 1	01/18/06	3391.62	sheen	46.56	0.00	3,345.06
MW - 1	02/15/06	3391.62	sheen	46.40	0.00	3,345.22
MW - 1	03/06/06	3391.62	-	46.50	0.00	3,345.12
MW - 1	03/20/06	3391.62	sheen	46.57	0.00	3,345.05
MW - 1	04/13/06	3391.62	sheen	46.39	0.00	3,345.23
MW - 1	04/19/06	3391.62	sheen	46.50	0.00	3,345.12
MW - 1	05/25/06	3391.62	sheen	46.24	0.00	3,345.38
MW - 1	06/05/06	3391.62	sheen	46.22	0.00	3,345.40
MW - 1	09/11/06	3391.62	sheen	46.71	0.00	3,344.91

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	10/31/06	3391.62	sheen	46.91	0.00	3,344.71
MW - 1	11/16/06	3391.62	sheen	46.80	0.00	3,344.82
MW - 1	11/21/06	3391.62	sheen	46.76	0.00	3,344.86
MW - 1	01/26/07	3391.62	sheen	46.66	0.00	3,344.96
MW - 1	01/31/07	3391.62	sheen	46.53	0.00	3,345.09
MW - 1	02/15/07	3391.62	-	46.61	0.00	3,345.01
MW - 1	02/20/07	3391.62	-	46.56	0.00	3,345.06
MW - 1	05/15/07	3391.62	-	46.74	0.00	3,344.88
MW - 1	08/09/07	3391.62	-	46.48	0.00	3,345.14
MW - 1	10/01/07	3391.62	sheen	46.73	0.00	3,344.89
MW - 1	10/12/07	3391.62	sheen	46.73	0.00	3,344.89
MW - 1	11/13/07	3391.62	-	46.82	0.00	3,344.80
MW - 1	02/14/08	3391.62	-	46.99	0.00	3,344.63
MW - 1	04/18/08	3391.62	-	46.11	0.00	3,345.51
MW - 1	05/16/08	3391.62	-	46.31	0.00	3,345.31
MW - 1	06/08/08	3391.62	-	46.40	0.00	3,345.22
MW - 1	07/15/08	3391.62	-	46.70	0.00	3,344.92
MW - 1	07/16/08	3391.62	-	46.76	0.00	3,344.86
MW - 1	08/12/08	3391.62	-	46.80	0.00	3,344.82
MW - 1	08/19/08	3391.62	-	46.85	0.00	3,344.77
MW - 1	10/28/08	3391.62	-	47.08	0.00	3,344.54
MW - 1	11/19/08	3391.62	-	46.18	0.00	3,345.44
MW - 1	11/24/08	3391.62	-	47.32	0.00	3,344.30
MW - 1	12/17/08	3391.62	-	47.09	0.00	3,344.53
MW - 1	02/18/09	3391.62	-	46.34	0.00	3,345.28
MW - 1	03/03/09	3391.62	-	46.19	0.00	3,345.43
MW - 1	03/10/09	3391.62	-	46.43	0.00	3,345.19
MW - 1	03/18/09	3391.62	-	46.55	0.00	3,345.07
MW - 1	03/27/09	3391.62	-	46.55	0.00	3,345.07
MW - 1	04/07/09	3391.62	-	46.69	0.00	3,344.93
MW - 1	04/14/09	3391.62	-	46.75	0.00	3,344.87
MW - 1	04/28/09	3391.62	-	46.83	0.00	3,344.79
MW - 1	05/19/09	3391.62		46.91	0.00	3,344.71
MW - 1	05/27/09	3391.62	-	47.04	0.00	3,344.58
MW - 1	06/04/09	3391.62	-	47.02	0.00	3,344.60
MW - 1	06/12/09	3391.62	-	47.08	0.00	3,344.54
MW - 1	06/18/09	3391.62	-	47.12	0.00	3,344.50
MW - 1	06/30/09	3391.62	-	46.20	0.00	3,345.42
MW - 1	07/07/09	3391.62	-	47.14	0.00	3,344.48
MW - 1	07/14/09	3391.62	-	47.15	0.00	3,344.47
MW - 1	07/21/09	3391.62	-	47.21	0.00	3,344.41
MW - 1	07/28/09	3391.62	-	47.14	0.00	3,344.48
MW - 1	08/07/09	3391.62	-	47.16	0.00	3,344.46
MW - 1	08/13/09	3391.62	-	47.13	0.00	3,344.49

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	08/21/09	3391.62	-	47.17	0.00	3,344.45
MW - 1	08/27/09	3391.62	-	47.21	0.00	3,344.41
MW - 1	09/10/09	3391.62	-	47.20	0.00	3,344.42
MW - 1	09/18/09	3391.62	-	47.22	0.00	3,344.40
MW - 1	09/29/09	3391.62	-	47.16	0.00	3,344.46
MW - 1	10/06/09	3391.62	-	47.17	0.00	3,344.45
MW - 1	10/20/09	3391.62	-	47.16	0.00	3,344.46
MW - 1	10/27/09	3391.62	-	47.17	0.00	3,344.45
MW - 1	11/11/09	3391.62	-	47.24	0.00	3,344.38
MW - 1	11/13/09	3391.62	-	47.12	0.00	3,344.50
MW - 1	12/08/09	3391.62	-	47.17	0.00	3,344.45
MW - 1	12/22/09	3391.62	-	47.18	0.00	3,344.44
MW - 1	01/12/10	3391.62	-	47.20	0.00	3,344.42
MW - 1	01/22/10	3391.62	-	47.16	0.00	3,344.46
MW - 1	02/04/10	3391.62	-	47.30	0.00	3,344.32
MW - 1	03/03/10	3391.62	-	47.49	0.00	3,344.13
MW - 1	03/16/10	3391.62	-	48.61	0.00	3,343.01
MW - 1	04/15/10	3391.62	-	47.53	0.00	3,344.09
MW - 1	05/07/10	3391.62	-	47.49	0.00	3,344.13
MW - 1	05/28/10	3391.62	-	47.61	0.00	3,344.01
MW - 1	06/08/10	3391.62	-	47.53	0.00	3,344.09
MW - 1	06/25/10	3391.62	-	47.49	0.00	3,344.13
MW - 1	07/08/10	3391.62	-	47.56	0.00	3,344.06
MW - 1	07/28/10	3391.62	-	47.51	0.00	3,344.11
MW - 1	08/06/10	3391.62	-	47.48	0.00	3,344.14
MW - 1	08/31/10	3391.62	-	47.62	0.00	3,344.00
MW - 1	09/10/10	3391.62	-	47.61	0.00	3,344.01
MW - 1	09/24/10	3391.62	-	47.63	0.00	3,343.99
MW - 1	10/06/10	3391.62	-	47.65	0.00	3,343.97
MW - 1	10/26/10	3391.62	-	47.16	0.00	3,344.46
MW - 1	11/05/10	3391.62	-	47.50	0.00	3,344.12
MW - 1	12/17/10	3391.62	-	47.14	0.00	3,344.48
MW - 1	01/13/11	3391.62	sheen	47.69	0.00	3,343.93
MW - 1	02/11/11	3391.62	-	47.50	0.00	3,344.12
MW - 1	05/09/11	3391.62	-	47.51	0.00	3,344.11
MW - 1	05/20/11	3391.62	-	47.93	0.00	3,343.69
MW - 1	06/29/11	3391.62	-	47.80	0.00	3,343.82
MW - 1	07/05/11	3391.62	-	47.82	0.00	3,343.80
MW - 1	07/25/11	3391.62	-	47.72	0.00	3,343.90
MW - 1	08/05/11	3391.62	-	47.53	0.00	3,344.09
MW - 1	08/11/11	3391.62	-	47.81	0.00	3,343.81
MW - 1	08/24/11	3391.62	-	47.90	0.00	3,343.72
MW - 1	09/09/11	3391.62	-	48.55	0.00	3,343.07
MW - 1	09/23/11	3391.62	-	48.60	0.00	3,343.02

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	10/26/11	3391.62	-	48.59	0.00	3,343.03
MW - 1	11/17/11	3391.62	-	48.53	0.00	3,343.09
MW - 1	01/30/12	3391.62	-	48.52	0.00	3,343.10
MW - 1	02/28/12	3391.62	-	48.33	0.00	3,343.29
MW - 1	03/15/12	3391.62	-	48.52	0.00	3,343.10
MW - 1	03/28/12	3391.62	47.97	48.33	0.36	3,343.60
MW - 1	04/05/12	3391.62	-	48.17	0.00	3,343.45
MW - 1	04/23/12	3391.62	-	48.17	0.00	3,343.45
MW - 1	05/03/12	3391.62	-	48.22	0.00	3,343.40
MW - 1	06/28/12	3391.62	-	48.49	0.00	3,343.13
MW - 1	08/24/12	3391.62	-	48.65	0.00	3,342.97
MW - 1	10/12/12	3391.62	48.56	48.59	0.03	3,343.06
MW - 1	10/24/12	3391.62	48.43	48.44	0.01	3,343.19
MW - 1	11/15/12	3391.62	48.46	48.47	0.01	3,343.16
MW - 1	12/20/12	3391.62	48.46	48.47	0.01	3,343.16
MW - 1	01/14/13	3391.62	-	48.31	0.00	3,343.31
MW - 1	02/14/13	3391.62	-	48.34	0.00	3,343.28
MW - 1	03/29/13	3391.62	-	48.27	0.00	3,343.35
MW - 1	04/19/13	3391.62	-	48.27	0.00	3,343.35
MW - 1	04/30/13	3391.62	-	48.23	0.00	3,343.39
MW - 1	05/28/13	3391.62	-	48.26	0.00	3,343.36
MW - 1	05/23/13	3391.62	-	48.31	0.00	3,343.31
MW - 1	05/30/13	3391.62	-	48.26	0.00	3,343.36
MW - 1	06/06/13	3391.62	-	48.36	0.00	3,343.26
MW - 1	06/13/13	3391.62	-	48.41	0.00	3,343.21
MW - 1	06/19/13	3391.62	-	48.42	0.00	3,343.20
MW - 1	07/30/13	3391.62	-	48.65	0.00	3,342.97
MW - 1	08/06/13	3391.62	-	48.62	0.00	3,343.00
MW - 1	08/09/13	3391.62	-	48.69	0.00	3,342.93
MW - 1	08/30/13	3391.62	-	48.77	0.00	3,342.85
MW - 1	09/12/13	3391.62	-	48.93	0.00	3,342.69
MW - 1	10/03/13	3391.62	-	48.96	0.00	3,342.66
MW - 1	11/01/13	3391.62	-	48.89	0.00	3,342.73
MW - 1	11/07/13	3391.62	-	48.89	0.00	3,342.73
MW - 1	12/10/13	3391.62	-	49.04	0.00	3,342.58
MW - 1	01/01/14	3391.62	-	48.85	0.00	3,342.77
MW - 1	01/16/14	3391.62	-	48.83	0.00	3,342.79
MW - 1	01/23/14	3391.62	-	48.93	0.00	3,342.69
MW - 1	01/28/14	3391.62	-	48.99	0.00	3,342.63
MW - 1	02/11/14	3391.62	-	48.98	0.00	3,342.64
MW - 1	03/05/14	3391.62	-	48.95	0.00	3,342.67
MW - 1	03/13/14	3391.62	-	48.95	0.00	3,342.67
MW - 1	03/29/14	3391.62	-	48.86	0.00	3,342.76
MW - 1	04/08/14	3391.62	-	48.94	0.00	3,342.68

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	04/17/14	3391.62	-	48.85	0.00	3,342.77
MW - 1	04/25/14	3391.62	-	48.77	0.00	3,342.85
MW - 1	05/01/14	3391.62	-	48.77	0.00	3,342.85
MW - 1	05/08/14	3391.62	-	48.75	0.00	3,342.87
MW - 1	05/14/14	3391.62	-	48.77	0.00	3,342.85
MW - 1	05/23/14	3391.62	-	48.89	0.00	3,342.73
MW - 1	05/27/14	3391.62	-	48.90	0.00	3,342.72
MW - 1	05/29/14	3391.62	-	48.88	0.00	3,342.74
MW - 1	06/11/14	3391.62	-	48.95	0.00	3,342.67
MW - 1	06/05/14	3391.62	-	48.90	0.00	3,342.72
MW - 1	06/18/14	3391.62	-	48.93	0.00	3,342.69
MW - 1	06/26/14	3391.62	-	48.98	0.00	3,342.64
MW - 1	07/01/14	3391.62	-	49.10	0.00	3,342.52
MW - 1	07/10/14	3391.62	-	49.03	0.00	3,342.59
MW - 1	07/17/14	3391.62	-	49.13	0.00	3,342.49
MW - 1	07/23/14	3391.62	-	49.20	0.00	3,342.42
MW - 1	07/31/14	3391.62	-	49.19	0.00	3,342.43
MW - 1	08/06/14	3391.62	-	49.12	0.00	3,342.50
MW - 1	08/12/14	3391.62	-	49.20	0.00	3,342.42
MW - 1	08/21/14	3391.62	-	49.22	0.00	3,342.40
MW - 1	09/04/14	3391.62	-	49.18	0.00	3,342.44
MW - 1	10/02/14	3391.62	-	49.20	0.00	3,342.42
MW - 1	10/08/14	3391.62	-	49.17	0.00	3,342.45
MW - 1	10/14/14	3391.62	-	49.15	0.00	3,342.47
MW - 1	10/23/14	3391.62	-	49.03	0.00	3,342.59
MW - 1	10/28/14	3391.62	-	49.11	0.00	3,342.51
MW - 1	11/07/14	3391.62	-	49.02	0.00	3,342.60
MW - 1	11/14/14	3391.62	-	48.91	0.00	3,342.71
MW - 1	11/15/14	3391.62	-	49.02	0.00	3,342.60
MW - 1	12/04/14	3391.62	-	48.96	0.00	3,342.66
MW - 1	12/11/14	3391.62	-	48.96	0.00	3,342.66
MW - 1	12/18/11	3391.62	-	48.91	0.00	3,342.71
MW - 1	12/23/14	3391.62	-	48.95	0.00	3,342.67
MW - 1	02/16/15	3391.62	-	48.60	0.00	3,343.02
MW - 1	02/17/15	3391.62	-	48.64	0.00	3,342.98
MW - 1	02/24/15	3391.62	-	48.57	0.00	3,343.05
MW - 1	03/10/15	3391.62	-	48.53	0.00	3,343.09
MW - 1	03/17/15	3391.62	-	48.50	0.00	3,343.12
MW - 1	03/18/15	3391.62	-	48.44	0.00	3,343.18
MW - 1	03/25/15	3391.62	-	48.46	0.00	3,343.16
MW - 1	04/07/15	3391.62	-	48.41	0.00	3,343.21
MW - 1	04/08/15	3391.62	-	48.36	0.00	3,343.26
MW - 1	04/21/15	3391.62	-	48.43	0.00	3,343.19
MW - 1	04/28/15	3391.62	-	48.94	0.00	3,342.68

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	05/06/15	3391.62	-	48.30	0.00	3,343.32
MW - 1	05/20/15	3391.62	-	48.30	0.00	3,343.32
MW - 1	05/28/15	3391.62	-	48.20	0.00	3,343.42
MW - 1	06/09/15	3391.62	-	48.22	0.00	3,343.40
MW - 1	06/18/15	3391.62	-	48.13	0.00	3,343.49
MW - 1	06/30/15	3391.62	-	48.31	0.00	3,343.31
MW - 1	07/06/15	3391.62	-	48.32	0.00	3,343.30
MW - 1	07/09/15	3391.62	-	48.24	0.00	3,343.38
MW - 1	07/28/15	3391.62	-	48.27	0.00	3,343.35
MW - 1	08/06/15	3391.62	-	48.97	0.00	3,342.65
MW - 1	08/26/15	3391.62	-	48.39	0.00	3,343.23
MW - 1	09/09/15	3391.62	-	48.55	0.00	3,343.07
MW - 1	09/11/15	3391.62	-	48.55	0.00	3,343.07
MW - 1	09/17/15	3391.62	-	48.52	0.00	3,343.10
MW - 1	09/25/15	3391.62	-	48.52	0.00	3,343.10
MW - 1	09/30/15	3391.62	-	48.61	0.00	3,343.01
MW - 1	10/09/15	3391.62	-	48.58	0.00	3,343.04
MW - 1	10/13/15	3391.62	-	48.65	0.00	3,342.97
MW - 1	10/15/15	3391.62	-	48.65	0.00	3,342.97
MW - 1	10/21/15	3391.62	-	48.65	0.00	3,342.97
MW - 1	10/26/15	3391.62	-	48.65	0.00	3,342.97
MW - 1	11/09/15	3391.62	-	48.66	0.00	3,342.96
MW - 1	11/20/15	3391.62	-	48.49	0.00	3,343.13
MW - 1	11/25/15	3391.62	-	48.52	0.00	3,343.10
MW - 1	12/01/15	3391.62	-	48.54	0.00	3,343.08
MW - 1	12/09/15	3391.62	-	48.54	0.00	3,343.08
MW - 1	12/11/15	3391.62	-	48.34	0.00	3,343.28
MW - 1	12/15/15	3391.62	-	48.33	0.00	3,343.29
MW - 1	01/06/16	3391.62	-	48.32	0.00	3,343.30
MW - 1	01/11/16	3391.62	-	48.27	0.00	3,343.35
MW - 1	01/13/16	3391.62	-	48.06	0.00	3,343.56
MW - 1	01/28/16	3391.62	-	48.17	0.00	3,343.45
MW - 1	02/03/16	3391.62	-	48.12	0.00	3,343.50
MW - 1	02/10/16	3391.62	-	47.94	0.00	3,343.68
MW - 1	02/15/16	3391.62	-	48.01	0.00	3,343.61
MW - 1	02/17/16	3391.62	-	48.00	0.00	3,343.62
MW - 1	02/23/16	3391.62	-	47.94	0.00	3,343.68
MW - 1	03/08/16	3391.62	47.79	47.85	0.06	3,343.82
MW - 1	03/16/16	3391.62	47.82	47.86	0.04	3,343.79
MW - 1	03/18/16	3391.62	47.91	48.03	0.12	3,343.69
MW - 1	03/23/16	3391.62	47.85	47.88	0.03	3,343.77
MW - 1	03/29/16	3391.62	47.77	47.93	0.16	3,343.83
MW - 1	04/04/16	3391.62	47.84	48.06	0.22	3,343.75
MW - 1	04/08/16	3391.62	47.75	47.88	0.13	3,343.85

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	04/12/16	3391.62	47.85	47.96	0.11	3,343.75
MW - 1	04/21/16	3391.62	-	48.01	0.00	3,343.61
MW - 1	05/03/16	3391.62	47.99	48.11	0.12	3,343.61
MW - 1	05/12/16	3391.62	-	47.80	0.00	3,343.82
MW - 1	05/26/16	3391.62	47.66	47.69	0.03	3,343.96
MW - 1	06/09/16	3391.62	47.77	47.81	0.04	3,343.84
MW - 1	07/01/16	3391.62	47.96	48.00	0.04	3,343.65
MW - 1	07/20/16	3391.62	48.07	48.15	0.08	3,343.54
MW - 1	07/28/16	3391.62	47.92	47.98	0.06	3,343.69
MW - 1	08/04/16	3391.62	47.83	47.94	0.11	3,343.77
MW - 1	08/10/16	3391.62	47.83	47.96	0.13	3,343.77
MW - 1	08/16/16	3391.62	47.89	48.01	0.12	3,343.71
MW - 1	08/23/16	3391.62	47.87	48.00	0.13	3,343.73
MW - 1	09/12/16	3391.62	47.88	48.05	0.17	3,343.71
MW - 1	09/23/16	3391.62	47.86	48.03	0.17	3,343.73
MW - 1	09/28/16	3391.62	47.91	48.08	0.17	3,343.68
MW - 1	10/12/16	3391.62	47.82	48.00	0.18	3,343.77
MW - 1	10/17/16	3391.62	47.77	47.95	0.18	3,343.82
MW - 1	11/02/16	3391.62	47.79	48.02	0.23	3,343.80
MW - 1	11/09/16	3391.62	47.80	48.04	0.24	3,343.78
MW - 1	11/29/16	3391.62	47.68	47.99	0.31	3,343.89
MW - 1	12/09/16	3391.62	47.68	48.05	0.37	3,343.88
MW - 1	12/16/16	3391.62	47.53	47.83	0.30	3,344.05
MW - 1	12/21/16	3391.62	47.58	47.92	0.34	3,343.99
MW - 1	01/06/17	3391.62	47.59	47.98	0.39	3,343.97
MW - 1	01/13/17	3391.62	47.48	47.84	0.36	3,344.09
MW - 1	01/20/17	3391.62	47.41	47.77	0.36	3,344.16
MW - 1	01/26/17	3391.62	47.51	47.92	0.41	3,344.05
MW - 1	02/03/17	3391.62	47.52	47.94	0.42	3,344.04
MW - 1	02/07/17	3391.62	47.48	47.82	0.34	3,344.09
MW - 1	02/16/17	3391.62	47.40	47.80	0.40	3,344.16
MW - 1	02/20/17	3391.62	47.45	47.79	0.34	3,344.12
MW - 1	02/27/17	3391.62	47.40	47.60	0.20	3,344.19
MW - 1	03/14/17	3391.62	47.41	47.64	0.23	3,344.18
MW - 1	03/21/17	3391.62	47.42	47.50	0.08	3,344.19
MW - 1	03/30/17	3391.62	47.34	47.40	0.06	3,344.27
MW - 1	04/04/17	3391.62	47.33	47.38	0.05	3,344.28
MW - 1	04/10/17	3391.62	47.39	47.46	0.07	3,344.22
MW - 1	04/21/17	3391.62	47.32	47.35	0.03	3,344.30
MW - 1	04/25/17	3391.62	-	47.37	0.00	3,344.25
MW - 1	05/01/17	3391.62	-	47.45	0.00	3,344.17
MW - 1	05/09/17	3391.62	-	47.40	0.00	3,344.22
MW - 1	05/15/17	3391.62	-	47.34	0.00	3,344.28
MW - 1	05/18/17	3391.62	-	47.30	0.00	3,344.32

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	05/22/17	3391.62	-	47.29	0.00	3,344.33
MW - 1	06/05/17	3391.62	-	47.27	0.00	3,344.35
MW - 1	06/14/17	3391.62	-	47.36	0.00	3,344.26
MW - 1	06/20/17	3391.62	-	47.37	0.00	3,344.25
MW - 1	06/27/17	3391.62	-	47.29	0.00	3,344.33
MW - 1	07/03/17	3391.62	-	47.35	0.00	3,344.27
MW - 1	07/11/17	3391.62	-	47.27	0.00	3,344.35
MW - 1	07/20/17	3391.62	-	47.34	0.00	3,344.28
MW - 1	07/24/17	3391.62	-	47.28	0.00	3,344.34
MW - 1	08/03/17	3391.62	-	47.30	0.00	3,344.32
MW - 1	08/08/17	3391.62	-	47.28	0.00	3,344.34
MW - 1	08/17/17	3391.62	-	47.32	0.00	3,344.30
MW - 1	08/21/17	3391.62	-	47.29	0.00	3,344.33
MW - 1	08/29/17	3391.62	47.20	47.22	0.02	3,344.42
MW - 1	09/05/17	3391.62	-	47.31	0.00	3,344.31
MW - 1	09/12/17	3391.62	-	47.15	0.00	3,344.47
MW - 1	09/18/17	3391.62	-	47.16	0.00	3,344.46
MW - 1	10/06/17	3391.62	-	47.27	0.00	3,344.35
MW - 1	10/13/17	3391.62	-	47.25	0.00	3,344.37
MW - 1	10/18/17	3391.62	-	47.34	0.00	3,344.28
MW - 1	10/20/17	3391.62	-	47.25	0.00	3,344.37
MW - 1	10/26/17	3391.62	-	47.13	0.00	3,344.49
MW - 1	10/31/17	3391.62	-	47.21	0.00	3,344.41
MW - 1	11/07/17	3391.62	-	47.35	0.00	3,344.27
MW - 1	11/17/17	3391.62	-	47.10	0.00	3,344.52
MW - 1	12/01/17	3391.62	-	47.18	0.00	3,344.44
MW - 1	12/07/17	3391.62	-	47.15	0.00	3,344.47
MW - 1	12/12/17	3391.62	-	47.18	0.00	3,344.44
MW - 1	12/18/17	3391.62	-	47.06	0.00	3,344.56
MW - 1	12/27/17	3391.62	-	47.03	0.00	3,344.59
MW - 1	01/05/18	3391.62	-	47.04	0.00	3,344.58
MW - 1	01/10/18	3391.62	-	46.91	0.00	3,344.71
MW - 1	01/19/18	3391.62	-	47.05	0.00	3,344.57
MW - 1	01/23/18	3391.62	-	47.22	0.00	3,344.40
MW - 1	01/31/18	3391.62	-	47.12	0.00	3,344.50
MW - 1	02/09/18	3391.62	-	47.03	0.00	3,344.59
MW - 1	02/16/18	3391.62	-	47.11	0.00	3,344.51
MW - 1	02/22/18	3391.62	-	47.05	0.00	3,344.57
MW - 1	03/01/18	3391.62	-	47.08	0.00	3,344.54
MW - 1	03/05/18	3391.62	-	47.02	0.00	3,344.60
MW - 1	03/15/18	3391.62	-	46.97	0.00	3,344.65
MW - 1	03/23/18	3391.62	-	46.97	0.00	3,344.65
MW - 1	03/30/18	3391.62	-	47.03	0.00	3,344.59
MW - 1	04/04/18	3391.62	-	47.02	0.00	3,344.60

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	04/11/18	3391.62	-	47.00	0.00	3,344.62
MW - 1	04/20/18	3391.62	-	46.98	0.00	3,344.64
MW - 1	04/25/18	3391.62	-	47.01	0.00	3,344.61
MW - 1	05/23/18	3391.62	-	46.99	0.00	3,344.63
MW - 1	05/31/18	3391.62	-	47.00	0.00	3,344.62
MW - 1	06/15/18	3391.62	-	47.03	0.00	3,344.59
MW - 1	06/20/18	3391.62	-	47.05	0.00	3,344.57
MW - 1	06/27/18	3391.62	-	47.10	0.00	3,344.52
MW - 1	07/05/18	3391.62	-	47.10	0.00	3,344.52
MW - 1	07/09/18	3391.62	-	47.21	0.00	3,344.41
MW - 1	07/26/18	3391.62	-	47.15	0.00	3,344.47
MW - 1	07/31/18	3391.62	-	47.13	0.00	3,344.49
MW - 1	08/14/18	3391.62	-	47.12	0.00	3,344.50
MW - 1	08/29/18	3391.62	-	47.20	0.00	3,344.42
MW - 1	09/07/18	3391.62	-	47.20	0.00	3,344.42
MW - 1	09/19/18	3391.62	-	47.18	0.00	3,344.44
MW - 1	09/28/18	3391.62	-	47.20	0.00	3,344.42
MW - 1	10/04/18	3391.62	-	47.29	0.00	3,344.33
MW - 1	10/17/18	3391.62	-	47.35	0.00	3,344.27
MW - 1	11/09/18	3391.62	-	47.32	0.00	3,344.30
MW - 1	11/15/18	3391.62	-	47.18	0.00	3,344.44
MW - 1	11/29/18	3391.62	-	47.10	0.00	3,344.52
MW - 1	12/03/18	3391.62	-	47.20	0.00	3,344.42
MW - 1	12/13/18	3391.62	-	47.18	0.00	3,344.44
MW - 1	12/21/18	3391.62	-	47.07	0.00	3,344.55
MW - 1	12/28/18	3391.62	-	47.08	0.00	3,344.54
MW - 1	01/03/19	3391.62	-	47.11	0.00	3,344.51
MW - 1	01/07/19	3391.62	-	47.10	0.00	3,344.52
MW - 1	01/16/19	3391.62	-	47.09	0.00	3,344.53
MW - 1	01/21/19	3391.62	-	47.00	0.00	3,344.62
MW - 1	01/28/19	3391.62	-	47.23	0.00	3,344.39
MW - 1	02/08/19	3391.62	-	47.19	0.00	3,344.43
MW - 1	02/13/19	3391.62	-	47.09	0.00	3,344.53
MW - 1	02/19/19	3391.62	-	46.91	0.00	3,344.71
MW - 1	03/01/19	3391.62	-	47.04	0.00	3,344.58
MW - 1	03/05/19	3391.62	-	47.06	0.00	3,344.56
MW - 1	03/20/19	3391.62	-	47.03	0.00	3,344.59
MW - 1	03/27/19	3391.62	-	46.92	0.00	3,344.70
MW - 1	04/04/19	3391.62	-	47.00	0.00	3,344.62
MW - 1	04/09/19	3391.62	-	46.93	0.00	3,344.69
MW - 1	04/16/19	3391.62	-	46.91	0.00	3,344.71
MW - 1	04/23/19	3391.62	-	46.93	0.00	3,344.69
MW - 1	05/03/19	3391.62	-	46.93	0.00	3,344.69
MW - 1	05/10/19	3391.62	-	46.97	0.00	3,344.65

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	05/15/19	3391.62	-	46.81	0.00	3,344.81
MW - 1	05/23/19	3391.62	-	46.84	0.00	3,344.78
MW - 1	06/11/19	3391.62	-	46.86	0.00	3,344.76
MW - 1	06/20/19	3391.62	-	46.82	0.00	3,344.80
MW - 1	06/25/19	3391.62	-	46.84	0.00	3,344.78
MW - 1	07/03/19	3391.62	-	46.82	0.00	3,344.80
MW - 1	07/15/19	3391.62	-	46.80	0.00	3,344.82
MW - 1	07/31/19	3391.62	-	46.82	0.00	3,344.80
MW - 1	08/15/19	3391.62	-	46.81	0.00	3,344.81
MW - 1	09/06/19	3391.62	-	46.78	0.00	3,344.84
MW - 1	09/10/19	3391.62	-	46.23	0.00	3,345.39
MW - 1	09/18/19	3391.62	-	46.75	0.00	3,344.87
MW - 1	10/18/19	3391.62	-	46.65	0.00	3,344.97
MW - 1	11/01/19	3391.62	-	46.70	0.00	3,344.92
MW - 1	11/13/19	3391.62	-	46.54	0.00	3,345.08
MW - 1	11/25/19	3391.62	-	46.65	0.00	3,344.97
MW - 1	12/05/19	3391.62	-	46.69	0.00	3,344.93
MW - 1	12/12/19	3391.62	-	46.67	0.00	3,344.95
MW - 1	01/24/20	3391.62	-	46.60	0.00	3,345.02
MW - 1	01/31/20	3391.62	-	46.67	0.00	3,344.95
MW - 1	02/06/20	3391.62	-	46.54	0.00	3,345.08
MW - 1	02/21/20	3391.62	-	46.60	0.00	3,345.02
MW - 1	02/14/20	3391.62	-	46.58	0.00	3,345.04
MW - 1	02/25/20	3391.62	-	46.60	0.00	3,345.02
MW - 1	05/28/20	3391.62	-	46.48	0.00	3,345.14
MW - 1	06/15/20	3391.62	-	46.43	0.00	3,345.19
MW - 1	08/27/20	3391.62	-	46.55	0.00	3,345.07
MW - 1	09/10/20	3391.62	-	46.68	0.00	3,344.94
MW - 1	10/21/20	3391.62	-	46.62	0.00	3,345.00
MW - 1	11/02/20	3391.62	-	46.70	0.00	3,344.92
MW - 1	12/01/20	3391.62	-	46.54	0.00	3,345.08
MW - 1	01/06/21	3391.62	-	46.51	0.00	3,345.11
MW - 1	02/04/21	3391.62	-	46.58	0.00	3,345.04
MW - 1	02/12/21	3391.62	-	46.63	0.00	3,344.99
MW - 1	03/31/21	3391.62	-	46.52	0.00	3,345.10
MW - 1	04/13/21	3391.62	-	46.41	0.00	3,345.21
MW - 1	04/26/21	3391.62	-	46.32	0.00	3,345.30
MW - 1	05/11/21	3391.62	-	46.35	0.00	3,345.27
MW - 1	06/17/21	3391.62	-	46.33	0.00	3,345.29
MW - 1	07/12/21	3391.62	-	46.46	0.00	3,345.16
MW - 1	07/28/21	3391.62	-	46.55	0.00	3,345.07
MW - 1	08/10/21	3391.62	-	46.58	0.00	3,345.04
MW - 1	08/19/21	3391.62	-	46.59	0.00	3,345.03
MW - 1	09/14/21	3391.62	-	46.71	0.00	3,344.91

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	09/24/21	3391.62	-	46.70	0.00	3,344.92
MW - 1	10/18/21	3391.62	-	46.75	0.00	3,344.87
MW - 1	10/25/21	3391.62	-	46.74	0.00	3,344.88
MW - 1	11/30/21	3391.62	-	46.76	0.00	3,344.86
MW - 1	01/17/22	3391.62	-	46.74	0.00	3,344.88
MW - 1	03/02/22	3391.62	-	46.87	0.00	3,344.75
MW - 1	04/08/22	3391.62	-	46.90	0.00	3,344.72
MW - 1	05/25/22	3391.62	-	46.93	0.00	3,344.69
MW - 1	09/12/22	3391.62	-	47.33	0.00	3,344.29
MW - 1	11/30/22	3391.62	-	47.39	0.00	3,344.23
MW - 1	12/05/22	3391.62	-	47.36	0.00	3,344.26
MW - 1	02/21/23	3391.62	-	47.20	0.00	3,344.42
MW - 1	05/23/23	3391.62	-	47.19	0.00	3,344.43
MW - 1	08/03/23	3391.62	-	47.48	0.00	3,344.14
MW - 1	08/15/23	3391.62	-	47.54	0.00	3,344.08
MW - 1	11/15/23	3391.62	-	47.66	0.00	3,343.96
MW - 2	03/03/99	3390.85	46.33	49.33	3.00	3,344.07
MW - 2	05/12/99	3390.85	46.46	49.02	2.56	3,344.01
MW - 2	18/23/99	3390.85	46.65	49.38	2.73	3,343.79
MW - 2	11/29/99	3390.85	45.98	46.25	0.27	3,344.83
MW - 2	03/09/00	3390.85	46.68	48.40	1.72	3,343.91
MW - 2	05/11/00	3390.85	46.43	47.96	1.53	3,344.19
MW - 2	09/12/00	3390.85	46.31	47.77	1.46	3,344.32
MW - 2	12/14/00	3390.85	46.21	46.76	0.55	3,344.56
MW - 2	03/21/01	3390.85	46.68	48.40	1.72	3,343.91
MW - 2	05/30/01	3390.85	46.56	48.17	1.61	3,344.05
MW - 2	09/25/01	3390.85	46.74	48.59	1.85	3,343.83
MW - 2	11/17/01	3390.85	46.20	46.76	0.56	3,344.57
MW - 2	02/20/02	3390.85	46.31	47.42	1.11	3,344.37
MW - 2	05/20/02	3390.85	46.69	48.48	1.79	3,343.89
MW - 2	09/24/02	3390.85	47.33	49.90	2.57	3,343.13
MW - 2	10/29/02	3390.85	42.62	50.12	7.50	3,347.11
MW - 2	11/06/02	3390.85	48.32	49.97	1.65	3,342.28
MW - 2	11/13/02	3390.85	47.78	50.16	2.38	3,342.71
MW - 2	01/07/03	3390.85	47.67	50.20	2.53	3,342.80
MW - 2	01/13/03	3390.85	47.67	49.96	2.29	3,342.84
MW - 2	01/27/03	3390.85	48.23	48.26	0.03	3,342.62
MW - 2	02/06/03	3390.85	48.22	48.70	0.48	3,342.56
MW - 2	02/19/03	3390.85	48.25	49.92	1.67	3,342.35
MW - 2	03/05/03	3390.85	48.21	50.01	1.80	3,342.37
MW - 2	03/11/03	3390.85	47.81	48.42	0.61	3,342.95
MW - 2	03/19/03	3390.85	47.96	48.40	0.44	3,342.82
MW - 2	03/25/03	3390.85	47.53	48.31	0.78	3,343.20

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	04/02/03	3390.85	47.72	48.15	0.43	3,343.07
MW - 2	04/16/03	3390.85	47.66	48.76	1.10	3,343.03
MW - 2	04/23/03	3390.85	47.59	48.52	0.93	3,343.12
MW - 2	04/29/03	3390.85	47.60	48.63	1.03	3,343.10
MW - 2	05/08/03	3390.85	47.64	49.02	1.38	3,343.00
MW - 2	05/15/03	3390.85	47.80	49.54	1.74	3,342.79
MW - 2	05/20/03	3390.85	48.01	49.76	1.75	3,342.58
MW - 2	05/27/03	3390.85	48.44	49.51	1.07	3,342.25
MW - 2	06/03/03	3390.85	48.00	49.76	1.76	3,342.59
MW - 2	06/10/03	3390.85	48.13	50.10	1.97	3,342.42
MW - 2	06/25/03	3390.85	48.24	49.44	1.20	3,342.43
MW - 2	07/02/03	3390.85	48.27	50.41	2.14	3,342.26
MW - 2	07/07/03	3390.85	48.23	50.43	2.20	3,342.29
MW - 2	07/22/03	3390.85	sheen	48.19	0.00	3,342.66
MW - 2	07/30/03	3390.85	47.72	49.15	1.43	3,342.92
MW - 2	08/06/03	3390.85	47.69	48.32	0.63	3,343.07
MW - 2	08/13/03	3390.85	47.99	49.10	1.11	3,342.69
MW - 2	08/19/03	3390.85	47.86	49.50	1.64	3,342.74
MW - 2	08/20/03	3390.85	48.17	49.94	1.77	3,342.41
MW - 2	08/25/03	3390.85	48.27	50.28	2.01	3,342.28
MW - 2	09/08/03	3390.85	48.50	49.16	0.66	3,342.25
MW - 2	09/15/03	3390.85	48.55	48.91	0.36	3,342.25
MW - 2	09/24/03	3390.85	48.61	49.11	0.50	3,342.17
MW - 2	09/30/03	3390.85	48.65	49.60	0.95	3,342.06
MW - 2	10/07/03	3390.85	48.56	50.22	1.66	3,342.04
MW - 2	10/22/03	3390.85	48.50	50.28	1.78	3,342.08
MW - 2	10/27/03	3390.85	48.45	50.18	1.73	3,342.14
MW - 2	11/07/03	3390.85	48.56	50.28	1.72	3,342.03
MW - 2	11/10/03	3390.85	48.50	50.11	1.61	3,342.11
MW - 2	11/17/03	3390.85	47.98	49.27	1.29	3,342.68
MW - 2	12/08/03	3390.85	47.27	47.32	0.05	3,343.57
MW - 2	12/17/03	3390.85	47.95	49.29	1.34	3,342.70
MW - 2	12/22/03	3390.85	48.49	50.18	1.69	3,342.11
MW - 2	01/02/04	3390.85	46.81	46.83	0.02	3,344.04
MW - 2	01/06/04	3390.85	48.50	50.06	1.56	3,342.12
MW - 2	01/19/04	3390.85	47.28	47.30	0.02	3,343.57
MW - 2	01/26/04	3390.85	47.36	47.39	0.03	3,343.49
MW - 2	02/02/04	3390.85	47.38	47.41	0.03	3,343.47
MW - 2	02/09/04	3390.85	47.00	47.21	0.21	3,343.82
MW - 2	02/19/04	3390.85	47.04	47.05	0.01	3,343.81
MW - 2	02/23/04	3390.85	47.02	47.20	0.18	3,343.80
MW - 2	03/01/04	3390.85	46.99	47.18	0.19	3,343.83
MW - 2	03/10/04	3390.85	47.07	47.19	0.12	3,343.76
MW - 2	03/15/04	3390.85	sheen	47.55	0.00	3,343.30

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	03/23/04	3390.85	48.05	48.06	0.01	3,342.80
MW - 2	03/30/04	3390.85	48.17	48.26	0.09	3,342.67
MW - 2	04/12/04	3390.85	48.10	48.13	0.03	3,342.75
MW - 2	04/20/04	3390.85	sheen	47.58	0.00	3,343.27
MW - 2	05/03/04	3390.85	sheen	48.11	0.00	3,342.74
MW - 2	05/04/04	3390.85	sheen	48.11	0.00	3,342.74
MW - 2	06/09/04	3390.85	48.07	48.59	0.52	3,342.70
MW - 2	06/16/04	3390.85	48.08	48.54	0.46	3,342.70
MW - 2	06/23/04	3390.85	48.13	48.55	0.42	3,342.66
MW - 2	06/30/04	3390.85	48.10	48.51	0.41	3,342.69
MW - 2	07/13/04	3390.85	48.28	49.06	0.78	3,342.45
MW - 2	07/22/04	3390.85	48.44	49.36	0.92	3,342.27
MW - 2	08/23/04	3390.85	48.38	49.70	1.32	3,342.27
MW - 2	09/13/04	3390.85	48.36	49.97	1.61	3,342.25
MW - 2	09/22/04	3390.85	48.41	50.35	1.94	3,342.15
MW - 2	09/29/04	3390.85	48.30	49.80	1.50	3,342.33
MW - 2	10/04/04	3390.85	47.84	48.76	0.92	3,342.87
MW - 2	10/11/04	3390.85	47.74	48.45	0.71	3,343.00
MW - 2	10/19/04	3390.85	47.73	48.63	0.90	3,342.99
MW - 2	10/25/04	3390.85	47.79	48.59	0.80	3,342.94
MW - 2	11/01/04	3390.85	47.98	49.10	1.12	3,342.70
MW - 2	11/09/04	3390.85	48.01	48.96	0.95	3,342.70
MW - 2	11/17/04	3390.85	47.90	49.10	1.20	3,342.77
MW - 2	11/22/04	3390.85	48.03	48.87	0.84	3,342.69
MW - 2	11/29/04	3390.85	46.53	47.00	0.47	3,344.25
MW - 2	12/04/04	3390.85	47.22	47.40	0.18	3,343.60
MW - 2	12/13/04	3390.85	46.99	47.07	0.08	3,343.85
MW - 2	12/20/04	3390.85	47.03	47.12	0.09	3,343.81
MW - 2	12/30/04	3390.85	46.65	46.67	0.02	3,344.20
MW - 2	01/03/05	3390.85	sheen	46.59	0.00	3,344.26
MW - 2	01/10/05	3390.85	47.10	47.18	0.08	3,343.74
MW - 2	01/17/05	3390.85	sheen	46.76	0.00	3,344.09
MW - 2	01/24/05	3390.85	sheen	46.82	0.00	3,344.03
MW - 2	01/31/05	3390.85	sheen	46.89	0.00	3,343.96
MW - 2	02/07/05	3390.85	sheen	46.81	0.00	3,344.04
MW - 2	02/14/05	3390.85	sheen	46.93	0.00	3,343.92
MW - 2	02/21/05	3390.85	sheen	46.87	0.00	3,343.98
MW - 2	02/28/05	3390.85	sheen	46.90	0.00	3,343.95
MW - 2	03/07/05	3390.85	-	46.75	0.00	3,344.10
MW - 2	03/07/05	3390.85	sheen	46.75	0.00	3,344.10
MW - 2	03/16/05	3390.85	sheen	46.58	0.00	3,344.27
MW - 2	03/21/05	3390.85	sheen	46.52	0.00	3,344.33
MW - 2	03/28/05	3390.85	sheen	46.67	0.00	3,344.18
MW - 2	04/04/05	3390.85	sheen	46.66	0.00	3,344.19

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	04/13/05	3390.85	sheen	46.67	0.00	3,344.18
MW - 2	04/18/05	3390.85	sheen	46.64	0.00	3,344.21
MW - 2	05/23/05	3390.85	sheen	46.89	0.00	3,343.96
MW - 2	06/07/05	3390.85	-	46.67	0.00	3,344.18
MW - 2	06/21/05	3390.85	sheen	46.83	0.00	3,344.02
MW - 2	07/26/05	3390.85	sheen	46.69	0.00	3,344.16
MW - 2	08/25/05	3390.85	sheen	46.71	0.00	3,344.14
MW - 2	09/07/05	3390.85	-	46.68	0.00	3,344.17
MW - 2	09/26/05	3390.85	sheen	46.78	0.00	3,344.07
MW - 2	11/14/05	3390.85	sheen	46.51	0.00	3,344.34
MW - 2	12/14/05	3390.85	-	46.09	0.00	3,344.76
MW - 2	12/28/05	3390.85	sheen	45.81	0.00	3,345.04
MW - 2	01/18/06	3390.85	sheen	45.89	0.00	3,344.96
MW - 2	02/15/06	3390.85	sheen	45.71	0.00	3,345.14
MW - 2	03/06/06	3390.85	sheen	45.83	0.00	3,345.02
MW - 2	03/20/06	3390.85	sheen	45.90	0.00	3,344.95
MW - 2	04/13/06	3390.85	sheen	45.72	0.00	3,345.13
MW - 2	04/19/06	3390.85	sheen	45.81	0.00	3,345.04
MW - 2	05/25/06	3390.85	sheen	45.55	0.00	3,345.30
MW - 2	06/05/06	3390.85	sheen	45.52	0.00	3,345.33
MW - 2	09/11/06	3390.85	sheen	46.08	0.00	3,344.77
MW - 2	10/31/06	3390.85	sheen	46.30	0.00	3,344.55
MW - 2	11/16/06	3390.85	sheen	46.13	0.00	3,344.72
MW - 2	11/21/06	3390.85	sheen	46.97	0.00	3,343.88
MW - 2	01/26/07	3390.85	sheen	46.02	0.00	3,344.83
MW - 2	01/31/07	3390.85	sheen	45.91	0.00	3,344.94
MW - 2	02/15/07	3390.85	-	45.96	0.00	3,344.89
MW - 2	02/20/07	3390.85	sheen	45.94	0.00	3,344.91
MW - 2	05/15/07	3390.85	sheen	46.04	0.00	3,344.81
MW - 2	08/09/07	3390.85	sheen	45.82	0.00	3,345.03
MW - 2	10/01/07	3390.85	sheen	46.11	0.00	3,344.74
MW - 2	10/12/07	3390.85	sheen	46.11	0.00	3,344.74
MW - 2	11/13/07	3390.85	sheen	46.14	0.00	3,344.71
MW - 2	02/14/08	3390.85	-	46.40	0.00	3,344.45
MW - 2	04/18/08	3390.85	-	45.42	0.00	3,345.43
MW - 2	05/16/08	3390.85	-	45.67	0.00	3,345.18
MW - 2	07/15/08	3390.85	-	46.10	0.00	3,344.75
MW - 2	07/16/08	3390.85	-	46.18	0.00	3,344.67
MW - 2	08/12/08	3390.85	-	46.23	0.00	3,344.62
MW - 2	08/19/08	3390.85	-	46.21	0.00	3,344.64
MW - 2	10/09/08	3390.85	-	46.41	0.00	3,344.44
MW - 2	11/19/08	3390.85	-	46.29	0.00	3,344.56
MW - 2	12/17/08	3390.85	-	46.45	0.00	3,344.40
MW - 2	02/18/09	3390.85	-	45.66	0.00	3,345.19

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	03/03/09	3390.85	-	45.65	0.00	3,345.20
MW - 2	03/10/09	3390.85	-	45.83	0.00	3,345.02
MW - 2	03/18/09	3390.85	-	45.91	0.00	3,344.94
MW - 2	03/27/09	3390.85	-	45.92	0.00	3,344.93
MW - 2	04/07/09	3390.85	-	46.09	0.00	3,344.76
MW - 2	04/14/09	3390.85	-	46.12	0.00	3,344.73
MW - 2	04/28/09	3390.85	-	46.22	0.00	3,344.63
MW - 2	05/19/09	3390.85	-	46.32	0.00	3,344.53
MW - 2	05/27/09	3390.85	-	46.42	0.00	3,344.43
MW - 2	06/04/09	3390.85	-	46.41	0.00	3,344.44
MW - 2	06/12/09	3390.85	-	46.46	0.00	3,344.39
MW - 2	06/18/09	3390.85	-	46.52	0.00	3,344.33
MW - 2	06/30/09	3390.85	-	45.63	0.00	3,345.22
MW - 2	07/07/09	3390.85	-	46.52	0.00	3,344.33
MW - 2	07/14/09	3390.85	-	46.53	0.00	3,344.32
MW - 2	07/21/09	3390.85	-	46.58	0.00	3,344.27
MW - 2	07/28/09	3390.85	-	46.51	0.00	3,344.34
MW - 2	08/07/09	3390.85	-	46.53	0.00	3,344.32
MW - 2	08/13/09	3390.85	-	46.50	0.00	3,344.35
MW - 2	08/21/09	3390.85	-	46.53	0.00	3,344.32
MW - 2	08/27/09	3390.85	-	46.56	0.00	3,344.29
MW - 2	09/10/09	3390.85	-	46.56	0.00	3,344.29
MW - 2	09/18/09	3390.85	-	46.54	0.00	3,344.31
MW - 2	09/29/09	3390.85	-	46.53	0.00	3,344.32
MW - 2	10/06/09	3390.85	-	46.54	0.00	3,344.31
MW - 2	10/20/09	3390.85	-	46.55	0.00	3,344.30
MW - 2	10/27/09	3390.85	-	46.56	0.00	3,344.29
MW - 2	11/11/09	3390.85	-	46.61	0.00	3,344.24
MW - 2	11/13/09	3390.85	-	46.50	0.00	3,344.35
MW - 2	12/08/09	3390.85	-	46.53	0.00	3,344.32
MW - 2	12/22/09	3390.85	-	46.55	0.00	3,344.30
MW - 2	01/12/10	3390.85	-	46.60	0.00	3,344.25
MW - 2	01/22/10	3390.85	-	46.58	0.00	3,344.27
MW - 2	02/04/10	3390.85	-	46.68	0.00	3,344.17
MW - 2	03/03/10	3390.85	-	46.89	0.00	3,343.96
MW - 2	03/16/10	3390.85	-	46.90	0.00	3,343.95
MW - 2	04/15/10	3390.85	-	46.91	0.00	3,343.94
MW - 2	05/07/10	3390.85	-	46.87	0.00	3,343.98
MW - 2	05/28/10	3390.85	-	46.96	0.00	3,343.89
MW - 2	06/08/10	3390.85	-	46.90	0.00	3,343.95
MW - 2	06/25/10	3390.85	-	46.88	0.00	3,343.97
MW - 2	07/08/10	3390.85	-	46.86	0.00	3,343.99
MW - 2	07/28/10	3390.85	-	46.90	0.00	3,343.95
MW - 2	08/06/10	3390.85	-	46.88	0.00	3,343.97

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	08/31/10	3390.85	-	46.99	0.00	3,343.86
MW - 2	09/10/10	3390.85	-	46.99	0.00	3,343.86
MW - 2	09/24/10	3390.85	-	46.95	0.00	3,343.90
MW - 2	10/06/10	3390.85	-	46.96	0.00	3,343.89
MW - 2	10/26/10	3390.85	-	46.58	0.00	3,344.27
MW - 2	11/05/10	3390.85	-	46.90	0.00	3,343.95
MW - 2	12/17/10	3390.85	-	46.57	0.00	3,344.28
MW - 2	01/13/11	3390.85	sheen	46.97	0.00	3,343.88
MW - 2	02/11/11	3390.85	-	46.91	0.00	3,343.94
MW - 2	05/09/11	3390.85	-	46.90	0.00	3,343.95
MW - 2	05/20/11	3390.85	-	47.34	0.00	3,343.51
MW - 2	06/29/11	3390.85	-	47.39	0.00	3,343.46
MW - 2	07/05/11	3390.85	-	47.59	0.00	3,343.26
MW - 2	07/25/11	3390.85	-	47.61	0.00	3,343.24
MW - 2	08/05/11	3390.85	-	46.91	0.00	3,343.94
MW - 2	08/11/11	3390.85	-	47.65	0.00	3,343.20
MW - 2	08/24/11	3390.85	-	47.76	0.00	3,343.09
MW - 2	09/09/11	3390.85	-	47.84	0.00	3,343.01
MW - 2	09/23/11	3390.85	-	47.91	0.00	3,342.94
MW - 2	10/26/11	3390.85	-	47.88	0.00	3,342.97
MW - 2	11/17/11	3390.85	-	47.87	0.00	3,342.98
MW - 2	01/30/12	3390.85	-	47.89	0.00	3,342.96
MW - 2	02/28/12	3390.85	-	47.69	0.00	3,343.16
MW - 2	03/15/12	3390.85	-	47.59	0.00	3,343.26
MW - 2	03/28/12	3390.85	-	47.50	0.00	3,343.35
MW - 2	04/05/12	3390.85	-	47.53	0.00	3,343.32
MW - 2	04/23/12	3390.85	-	45.52	0.00	3,345.33
MW - 2	05/03/12	3390.85	-	47.65	0.00	3,343.20
MW - 2	06/28/12	3390.85	-	47.89	0.00	3,342.96
MW - 2	08/24/12	3390.85	48.08	48.25	0.17	3,342.74
MW - 2	10/12/12	3390.85	47.87	48.49	0.62	3,342.89
MW - 2	10/24/12	3390.85	47.77	48.21	0.44	3,343.01
MW - 2	11/15/12	3390.85	47.79	48.31	0.52	3,342.98
MW - 2	12/20/12	3390.85	47.75	48.41	0.66	3,343.00
MW - 2	01/14/13	3390.85	47.63	48.11	0.48	3,343.15
MW - 2	02/14/13	3390.85	47.61	48.11	0.50	3,343.17
MW - 2	03/29/13	3390.85	47.56	47.88	0.32	3,343.24
MW - 2	04/19/13	3390.85	47.55	47.94	0.39	3,343.24
MW - 2	04/30/13	3390.85	47.51	47.82	0.31	3,343.29
MW - 2	05/23/13	3390.85	47.55	48.11	0.56	3,343.22
MW - 2	05/28/13	3390.85	47.56	48.04	0.48	3,343.22
MW - 2	05/30/13	3390.85	47.56	48.06	0.50	3,343.22
MW - 2	06/06/13	3390.85	47.62	48.41	0.79	3,343.11
MW - 2	06/13/13	3390.85	47.63	48.47	0.84	3,343.09

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	06/19/13	3390.85	47.63	48.39	0.76	3,343.11
MW - 2	07/30/13	3390.85	47.80	49.08	1.28	3,342.86
MW - 2	08/06/13	3390.85	47.82	49.03	1.21	3,342.85
MW - 2	08/09/13	3390.85	47.86	49.17	1.31	3,342.79
MW - 2	08/30/13	3390.85	47.91	49.19	1.28	3,342.75
MW - 2	09/12/13	3390.85	47.97	49.17	1.20	3,342.70
MW - 2	10/03/13	3390.85	48.00	49.16	1.16	3,342.68
MW - 2	11/01/13	3390.85	48.09	49.37	1.28	3,342.57
MW - 2	11/07/13	3390.85	48.14	49.27	1.13	3,342.54
MW - 2	12/10/13	3390.85	48.04	49.23	1.19	3,342.63
MW - 2	01/01/14	3390.85	47.95	49.05	1.10	3,342.74
MW - 2	01/16/14	3390.85	48.28	49.02	0.74	3,342.46
MW - 2	01/23/14	3390.85	48.10	49.50	1.40	3,342.54
MW - 2	01/28/14	3390.85	48.15	49.32	1.17	3,342.52
MW - 2	02/11/14	3390.85	48.10	49.25	1.15	3,342.58
MW - 2	03/05/14	3390.85	48.08	49.42	1.34	3,342.57
MW - 2	03/13/14	3390.85	48.06	49.35	1.29	3,342.60
MW - 2	03/29/14	3390.85	48.01	49.30	1.29	3,342.65
MW - 2	04/08/14	3390.85	48.08	49.40	1.32	3,342.57
MW - 2	04/17/14	3390.85	48.08	49.37	1.29	3,342.58
MW - 2	04/25/14	3390.85	48.00	49.12	1.12	3,342.68
MW - 2	05/01/14	3390.85	48.02	49.10	1.08	3,342.67
MW - 2	05/08/14	3390.85	48.00	48.99	0.99	3,342.70
MW - 2	05/14/14	3390.85	48.00	48.95	0.95	3,342.71
MW - 2	05/23/14	3390.85	48.06	49.23	1.17	3,342.61
MW - 2	05/27/14	3390.85	48.06	49.09	1.03	3,342.64
MW - 2	05/29/14	3390.85	48.15	49.02	0.87	3,342.57
MW - 2	06/11/14	3390.85	48.12	49.28	1.16	3,342.56
MW - 2	06/05/14	3390.85	48.09	49.25	1.16	3,342.59
MW - 2	06/18/14	3390.85	48.14	49.35	1.21	3,342.53
MW - 2	06/26/14	3390.85	48.14	49.48	1.34	3,342.51
MW - 2	07/01/14	3390.85	48.25	49.43	1.18	3,342.42
MW - 2	07/10/14	3390.85	48.24	49.73	1.49	3,342.39
MW - 2	07/17/14	3390.85	48.24	49.85	1.61	3,342.37
MW - 2	07/23/14	3390.85	48.38	49.55	1.17	3,342.29
MW - 2	07/31/14	3390.85	48.40	49.36	0.96	3,342.31
MW - 2	08/06/14	3390.85	48.45	49.03	0.58	3,342.31
MW - 2	08/12/14	3390.85	48.50	49.13	0.63	3,342.26
MW - 2	08/21/14	3390.85	49.05	49.68	0.63	3,341.71
MW - 2	09/04/14	3390.85	48.57	49.43	0.86	3,342.15
MW - 2	10/02/14	3390.85	48.29	49.70	1.41	3,342.35
MW - 2	10/08/14	3390.85	48.29	49.31	1.02	3,342.41
MW - 2	10/14/14	3390.85	48.29	49.34	1.05	3,342.40
MW - 2	10/17/14	3390.85	48.34	49.19	0.85	3,342.38

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	10/23/14	3390.85	48.25	49.32	1.07	3,342.44
MW - 2	10/24/14	3390.85	48.25	49.32	1.07	3,342.44
MW - 2	10/28/14	3390.85	48.27	49.17	0.90	3,342.45
MW - 2	11/07/14	3390.85	48.15	49.27	1.12	3,342.53
MW - 2	11/14/14	3390.85	48.17	49.24	1.07	3,342.52
MW - 2	11/15/14	3390.85	48.13	49.14	1.01	3,342.57
MW - 2	12/04/14	3390.85	48.14	49.21	1.07	3,342.55
MW - 2	12/11/14	3390.85	48.12	49.19	1.07	3,342.57
MW - 2	12/18/14	3390.85	48.00	49.02	1.02	3,342.70
MW - 2	12/23/14	3390.85	48.11	49.17	1.06	3,342.58
MW - 2	01/07/15	3390.85	48.05	49.00	0.95	3,342.66
MW - 2	01/15/15	3390.85	47.96	49.08	1.12	3,342.72
MW - 2	01/28/15	3390.85	47.57	48.86	1.29	3,343.09
MW - 2	02/04/15	3390.85	47.83	48.48	0.65	3,342.92
MW - 2	02/13/15	3390.85	47.85	48.52	0.67	3,342.90
MW - 2	02/16/15	3390.85	47.83	48.43	0.60	3,342.93
MW - 2	02/17/15	3390.85	47.87	48.53	0.66	3,342.88
MW - 2	02/24/15	3390.85	47.82	48.36	0.54	3,342.95
MW - 2	03/10/15	3390.85	47.78	48.24	0.46	3,343.00
MW - 2	03/17/15	3390.85	47.76	48.22	0.46	3,343.02
MW - 2	03/18/15	3390.85	47.72	48.13	0.41	3,343.07
MW - 2	03/25/15	3390.85	47.71	48.07	0.36	3,343.09
MW - 2	04/07/15	3390.85	47.70	48.00	0.30	3,343.11
MW - 2	04/08/15	3390.85	47.62	47.85	0.23	3,343.20
MW - 2	04/21/15	3390.85	47.67	47.71	0.04	3,343.17
MW - 2	04/28/15	3390.85	48.14	49.14	1.00	3,342.56
MW - 2	05/06/15	3390.85	47.59	47.76	0.17	3,343.23
MW - 2	05/20/15	3390.85	-	47.54	0.00	3,343.31
MW - 2	05/28/15	3390.85	-	47.42	0.00	3,343.43
MW - 2	06/02/15	3390.85	-	47.46	0.00	3,343.39
MW - 2	06/09/15	3390.85	-	47.44	0.00	3,343.41
MW - 2	06/18/15	3390.85	-	47.52	0.00	3,343.33
MW - 2	06/30/15	3390.85	-	47.54	0.00	3,343.31
MW - 2	07/06/15	3390.85	-	47.54	0.00	3,343.31
MW - 2	07/09/15	3390.85	-	47.51	0.00	3,343.34
MW - 2	07/21/15	3390.85	-	47.50	0.00	3,343.35
MW - 2	07/28/15	3390.85	-	47.50	0.00	3,343.35
MW - 2	08/06/15	3390.85	48.17	49.14	0.97	3,342.53
MW - 2	08/11/15	3390.85	-	47.55	0.00	3,343.30
MW - 2	08/18/15	3390.85	-	47.54	0.00	3,343.31
MW - 2	08/26/15	3390.85	-	47.70	0.00	3,343.15
MW - 2	09/11/15	3390.85	-	47.71	0.00	3,343.14
MW - 2	09/17/15	3390.85	-	47.73	0.00	3,343.12
MW - 2	09/25/15	3390.85	47.86	47.87	0.01	3,342.99

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	09/30/15	3390.85	47.81	47.82	0.01	3,343.04
MW - 2	10/06/15	3390.85	47.80	47.81	0.01	3,343.05
MW - 2	10/09/15	3390.85	47.90	47.91	0.01	3,342.95
MW - 2	10/13/15	3390.85	47.89	47.90	0.01	3,342.96
MW - 2	10/15/15	3390.85	47.88	47.89	0.01	3,342.97
MW - 2	10/21/15	3390.85	48.78	48.89	0.11	3,342.05
MW - 2	10/26/15	3390.85	48.78	48.88	0.10	3,342.06
MW - 2	11/09/15	3390.85	47.88	47.92	0.04	3,342.96
MW - 2	11/20/15	3390.85	47.76	47.81	0.05	3,343.08
MW - 2	11/25/15	3390.85	47.94	47.95	0.01	3,342.91
MW - 2	12/01/15	3390.85	-	47.86	0.00	3,342.99
MW - 2	12/09/15	3390.85	-	47.87	0.00	3,342.98
MW - 2	12/11/15	3390.85	-	47.63	0.00	3,343.22
MW - 2	12/15/15	3390.85	-	48.11	0.00	3,342.74
MW - 2	01/06/16	3390.85	-	47.56	0.00	3,343.29
MW - 2	01/11/16	3390.85	-	47.48	0.00	3,343.37
MW - 2	01/13/16	3390.85	-	47.33	0.00	3,343.52
MW - 2	01/28/16	3390.85	-	47.50	0.00	3,343.35
MW - 2	02/03/16	3390.85	-	47.39	0.00	3,343.46
MW - 2	02/10/16	3390.85	-	47.37	0.00	3,343.48
MW - 2	02/15/16	3390.85	-	47.24	0.00	3,343.61
MW - 2	02/17/16	3390.85	-	47.29	0.00	3,343.56
MW - 2	02/23/16	3390.85	-	47.27	0.00	3,343.58
MW - 2	03/08/16	3390.85	-	47.22	0.00	3,343.63
MW - 2	03/16/16	3390.85	-	47.18	0.00	3,343.67
MW - 2	03/18/16	3390.85	-	47.30	0.00	3,343.55
MW - 2	03/23/16	3390.85	-	47.13	0.00	3,343.72
MW - 2	03/29/16	3390.85	-	47.09	0.00	3,343.76
MW - 2	04/04/16	3390.85	-	47.23	0.00	3,343.62
MW - 2	04/08/16	3390.85	-	47.15	0.00	3,343.70
MW - 2	04/12/16	3390.85	-	47.30	0.00	3,343.55
MW - 2	05/03/16	3390.85	-	47.42	0.00	3,343.43
MW - 2	05/12/16	3390.85	-	47.15	0.00	3,343.70
MW - 2	05/26/16	3390.85	-	47.10	0.00	3,343.75
MW - 2	06/09/16	3390.85	-	47.16	0.00	3,343.69
MW - 2	07/01/16	3390.85	-	47.20	0.00	3,343.65
MW - 2	07/20/16	3390.85	-	47.39	0.00	3,343.46
MW - 2	07/28/16	3390.85	-	47.26	0.00	3,343.59
MW - 2	08/04/16	3390.85	-	47.24	0.00	3,343.61
MW - 2	08/10/16	3390.85	-	47.33	0.00	3,343.52
MW - 2	08/16/16	3390.85	-	47.34	0.00	3,343.51
MW - 2	08/23/16	3390.85	-	47.32	0.00	3,343.53
MW - 2	09/12/16	3390.85	-	47.30	0.00	3,343.55
MW - 2	09/23/16	3390.85	-	47.29	0.00	3,343.56

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	09/28/16	3390.85	-	47.31	0.00	3,343.54
MW - 2	10/12/16	3390.85	-	47.23	0.00	3,343.62
MW - 2	10/17/16	3390.85	-	47.17	0.00	3,343.68
MW - 2	11/02/16	3390.85	-	47.21	0.00	3,343.64
MW - 2	11/09/16	3390.85	-	47.22	0.00	3,343.63
MW - 2	11/29/16	3390.85	-	47.06	0.00	3,343.79
MW - 2	12/16/16	3390.85	-	46.94	0.00	3,343.91
MW - 2	12/21/16	3390.85	-	47.03	0.00	3,343.82
MW - 2	01/13/17	3390.85	-	46.89	0.00	3,343.96
MW - 2	01/20/17	3390.85	-	46.83	0.00	3,344.02
MW - 2	01/26/17	3390.85	-	46.93	0.00	3,343.92
MW - 2	02/07/17	3390.85	-	46.88	0.00	3,343.97
MW - 2	02/20/17	3390.85	-	46.83	0.00	3,344.02
MW - 2	02/27/17	3390.85	-	46.81	0.00	3,344.04
MW - 2	03/30/17	3390.85	-	46.70	0.00	3,344.15
MW - 2	04/04/17	3390.85	-	46.70	0.00	3,344.15
MW - 2	04/21/17	3390.85	-	46.68	0.00	3,344.17
MW - 2	05/18/17	3390.85	-	46.65	0.00	3,344.20
MW - 2	07/20/17	3390.85	-	47.63	0.00	3,343.22
MW - 2	08/29/17	3390.85	-	46.54	0.00	3,344.31
MW - 2	10/13/17	3390.85	-	46.44	0.00	3,344.41
MW - 2	10/20/17	3390.85	-	46.44	0.00	3,344.41
MW - 2	11/07/17	3390.85	-	46.48	0.00	3,344.37
MW - 2	01/31/18	3390.85	-	46.29	0.00	3,344.56
MW - 2	02/22/18	3390.85	-	46.37	0.00	3,344.48
MW - 2	03/15/18	3390.85	-	46.42	0.00	3,344.43
MW - 2	04/20/18	3390.85	-	46.39	0.00	3,344.46
MW - 2	05/23/18	3390.85	-	46.42	0.00	3,344.43
MW - 2	06/27/18	3390.85	-	46.45	0.00	3,344.40
MW - 2	07/31/18	3390.85	-	46.65	0.00	3,344.20
MW - 2	08/14/18	3390.85	-	46.49	0.00	3,344.36
MW - 2	08/29/18	3390.85	-	46.58	0.00	3,344.27
MW - 2	09/07/18	3390.85	-	46.57	0.00	3,344.28
MW - 2	09/28/18	3390.85	-	46.57	0.00	3,344.28
MW - 2	10/04/18	3390.85	-	46.61	0.00	3,344.24
MW - 2	10/17/18	3390.85	-	46.68	0.00	3,344.17
MW - 2	11/09/18	3390.85	-	46.71	0.00	3,344.14
MW - 2	11/15/18	3390.85	-	46.60	0.00	3,344.25
MW - 2	11/29/18	3390.85	-	46.42	0.00	3,344.43
MW - 2	12/03/18	3390.85	-	46.49	0.00	3,344.36
MW - 2	12/13/18	3390.85	-	46.50	0.00	3,344.35
MW - 2	12/21/18	3390.85	-	46.45	0.00	3,344.40
MW - 2	12/28/18	3390.85	-	46.52	0.00	3,344.33
MW - 2	01/03/19	3390.85	-	46.47	0.00	3,344.38

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	01/07/19	3390.85	-	46.43	0.00	3,344.42
MW - 2	01/16/19	3390.85	-	46.49	0.00	3,344.36
MW - 2	01/21/19	3390.85	-	46.36	0.00	3,344.49
MW - 2	01/28/19	3390.85	-	46.42	0.00	3,344.43
MW - 2	02/08/19	3390.85	-	46.46	0.00	3,344.39
MW - 2	02/13/19	3390.85	-	46.32	0.00	3,344.53
MW - 2	02/19/19	3390.85	-	46.28	0.00	3,344.57
MW - 2	03/01/19	3390.85	-	46.40	0.00	3,344.45
MW - 2	03/05/19	3390.85	-	46.44	0.00	3,344.41
MW - 2	03/20/19	3390.85	-	46.49	0.00	3,344.36
MW - 2	03/27/19	3390.85	-	46.33	0.00	3,344.52
MW - 2	04/04/19	3390.85	-	46.42	0.00	3,344.43
MW - 2	04/09/19	3390.85	-	46.29	0.00	3,344.56
MW - 2	04/16/19	3390.85	-	46.35	0.00	3,344.50
MW - 2	04/23/19	3390.85	-	46.38	0.00	3,344.47
MW - 2	05/03/19	3390.85	-	46.42	0.00	3,344.43
MW - 2	05/10/19	3390.85	-	46.35	0.00	3,344.50
MW - 2	05/23/19	3390.85	-	46.20	0.00	3,344.65
MW - 2	06/11/19	3390.85	-	46.21	0.00	3,344.64
MW - 2	06/20/19	3390.85	-	46.16	0.00	3,344.69
MW - 2	06/25/19	3390.85	-	46.19	0.00	3,344.66
MW - 2	07/03/19	3390.85	-	46.16	0.00	3,344.69
MW - 2	07/15/19	3390.85	-	46.14	0.00	3,344.71
MW - 2	07/31/19	3390.85	-	46.17	0.00	3,344.68
MW - 2	08/07/19	3390.85	-	46.27	0.00	3,344.58
MW - 2	08/15/19	3390.85	-	46.14	0.00	3,344.71
MW - 2	08/23/19	3390.85	-	46.17	0.00	3,344.68
MW - 2	09/06/19	3390.85	-	46.12	0.00	3,344.73
MW - 2	09/10/19	3390.85	-	46.09	0.00	3,344.76
MW - 2	09/18/19	3390.85	-	46.08	0.00	3,344.77
MW - 2	10/18/19	3390.85	-	45.98	0.00	3,344.87
MW - 2	11/01/19	3390.85	-	46.08	0.00	3,344.77
MW - 2	11/13/19	3390.85	-	45.91	0.00	3,344.94
MW - 2	11/25/19	3390.85	-	46.64	0.00	3,344.21
MW - 2	12/05/19	3390.85	-	46.05	0.00	3,344.80
MW - 2	12/12/19	3390.85	-	45.93	0.00	3,344.92
MW - 2	12/19/19	3390.85	-	45.95	0.00	3,344.90
MW - 2	12/27/19	3390.85	-	45.92	0.00	3,344.93
MW - 2	01/16/20	3390.85	-	45.98	0.00	3,344.87
MW - 2	01/24/20	3390.85	-	45.93	0.00	3,344.92
MW - 2	02/06/20	3390.85	-	45.88	0.00	3,344.97
MW - 2	02/14/20	3390.85	-	45.90	0.00	3,344.95
MW - 2	02/21/20	3390.85	-	45.97	0.00	3,344.88
MW - 2	02/25/20	3390.85	-	45.94	0.00	3,344.91

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	05/28/20	3390.85	-	45.82	0.00	3,345.03
MW - 2	06/15/20	3390.85	-	45.82	0.00	3,345.03
MW - 2	07/01/20	3390.85	-	45.82	0.00	3,345.03
MW - 2	07/29/20	3390.85	-	46.00	0.00	3,344.85
MW - 2	08/20/20	3390.85	-	46.05	0.00	3,344.80
MW - 2	08/27/20	3390.85	-	46.06	0.00	3,344.79
MW - 2	09/10/20	3390.85	-	46.12	0.00	3,344.73
MW - 2	10/21/20	3390.85	-	46.12	0.00	3,344.73
MW - 2	11/02/20	3390.85	-	46.06	0.00	3,344.79
MW - 2	12/01/20	3390.85	-	45.84	0.00	3,345.01
MW - 2	12/07/20	3390.85	-	45.97	0.00	3,344.88
MW - 2	01/06/21	3390.85	-	45.88	0.00	3,344.97
MW - 2	02/04/21	3390.85	-	45.92	0.00	3,344.93
MW - 2	02/12/21	3390.85	-	45.91	0.00	3,344.94
MW - 2	03/31/21	3390.85	-	45.85	0.00	3,345.00
MW - 2	04/13/21	3390.85	-	45.73	0.00	3,345.12
MW - 2	04/26/21	3390.85	-	45.66	0.00	3,345.19
MW - 2	05/11/21	3390.85	-	45.67	0.00	3,345.18
MW - 2	06/17/21	3390.85	-	45.72	0.00	3,345.13
MW - 2	07/12/21	3390.85	-	45.84	0.00	3,345.01
MW - 2	07/28/21	3390.85	-	45.97	0.00	3,344.88
MW - 2	08/10/21	3390.85	-	45.89	0.00	3,344.96
MW - 2	08/19/21	3390.85	-	45.97	0.00	3,344.88
MW - 2	09/14/21	3390.85	-	46.06	0.00	3,344.79
MW - 2	09/24/21	3390.85	-	46.10	0.00	3,344.75
MW - 2	10/18/21	3390.85	-	46.13	0.00	3,344.72
MW - 2	10/25/21	3390.85	-	46.13	0.00	3,344.72
MW - 2	11/04/21	3390.85	-	46.18	0.00	3,344.67
MW - 2	11/30/21	3390.85	-	46.13	0.00	3,344.72
MW - 2	12/27/21	3390.85	-	46.11	0.00	3,344.74
MW - 2	01/03/22	3390.85	-	46.23	0.00	3,344.62
MW - 2	01/17/22	3390.85	-	46.17	0.00	3,344.68
MW - 2	02/11/22	3390.85	-	46.14	0.00	3,344.71
MW - 2	03/02/22	3390.85	-	46.23	0.00	3,344.62
MW - 2	03/24/22	3390.85	-	46.24	0.00	3,344.61
MW - 2	04/08/22	3390.85	-	46.30	0.00	3,344.55
MW - 2	04/22/22	3390.85	-	46.22	0.00	3,344.63
MW - 2	05/06/22	3390.85	-	46.29	0.00	3,344.56
MW - 2	05/25/22	3390.85	-	46.22	0.00	3,344.63
MW - 2	06/20/22	3390.85	-	46.40	0.00	3,344.45
MW - 2	07/11/22	3390.85	-	46.52	0.00	3,344.33
MW - 2	08/19/22	3390.85	-	46.60	0.00	3,344.25
MW - 2	09/12/22	3390.85	-	46.65	0.00	3,344.20
MW - 2	09/21/22	3390.85	-	46.69	0.00	3,344.16

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	10/05/22	3390.85	-	46.77	0.00	3,344.08
MW - 2	11/22/22	3390.85	-	46.76	0.00	3,344.09
MW - 2	11/30/22	3390.85	-	46.75	0.00	3,344.10
MW - 2	12/05/22	3390.85	-	46.70	0.00	3,344.15
MW - 2	01/04/23	3390.85	-	46.79	0.00	3,344.06
MW - 2	02/21/23	3390.85	-	46.60	0.00	3,344.25
MW - 2	03/22/23	3390.85	-	46.65	0.00	3,344.20
MW - 2	04/14/23	3390.85	46.50	46.92	0.42	3,344.29
MW - 2	05/22/23	3390.85	-	46.78	0.00	3,344.07
MW - 2	05/23/23	3390.85	-	46.78	0.00	3,344.07
MW - 2	06/28/23	3390.85	-	46.75	0.00	3,344.10
MW - 2	07/14/23	3390.85	-	46.80	0.00	3,344.05
MW - 2	08/03/23	3390.85	-	46.97	0.00	3,343.88
MW - 2	08/15/23	3390.85	-	46.94	0.00	3,343.91
MW - 2	09/12/23	3390.85	47.07	47.12	0.05	3,343.77
MW - 2	11/15/23	3390.85	47.04	47.10	0.06	3,343.80
MW - 2	11/17/23	3390.85	47.04	47.10	0.06	3,343.80
MW - 3	02/03/99	3391.08	-	47.09	0.00	3,343.99
MW - 3	05/12/99	3391.08	-	47.06	0.00	3,344.02
MW - 3	08/23/99	3391.08	-	47.24	0.00	3,343.84
MW - 3	11/29/99	3391.08	-	46.18	0.00	3,344.90
MW - 3	03/09/00	3391.08	-	47.17	0.00	3,343.91
MW - 3	05/11/00	3391.08	-	46.95	0.00	3,344.13
MW - 3	09/12/00	3391.08	-	46.89	0.00	3,344.19
MW - 3	12/14/00	3391.08	-	46.55	0.00	3,344.53
MW - 3	03/21/01	3391.08	-	46.18	0.00	3,344.90
MW - 3	05/30/01	3391.08	-	46.90	0.00	3,344.18
MW - 3	06/21/01	3391.08	-	47.12	0.00	3,343.96
MW - 3	09/25/01	3391.08	-	47.12	0.00	3,343.96
MW - 3	11/17/01	3391.08	-	46.83	0.00	3,344.25
MW - 3	02/20/02	3391.08	-	46.69	0.00	3,344.39
MW - 3	05/20/02	3391.08	-	47.11	0.00	3,343.97
MW - 3	09/24/02	3391.08	-	47.88	0.00	3,343.20
MW - 3	10/29/02	3391.08	-	48.13	0.00	3,342.95
MW - 3	11/13/02	3391.08	-	48.20	0.00	3,342.88
MW - 3	02/06/03	3391.08	-	48.22	0.00	3,342.86
MW - 3	05/08/03	3391.08	-	47.94	0.00	3,343.14
MW - 3	08/19/03	3391.08	-	48.20	0.00	3,342.88
MW - 3	11/07/03	3391.08	-	48.54	0.00	3,342.54
MW - 3	02/09/04	3391.08	-	47.22	0.00	3,343.86
MW - 3	05/04/04	3391.08	-	47.94	0.00	3,343.14
MW - 3	08/23/04	3391.08	-	48.66	0.00	3,342.42
MW - 3	12/04/04	3391.08	-	47.39	0.00	3,343.69

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	03/07/05	3391.08	-	46.78	0.00	3,344.30
MW - 3	06/07/05	3391.08	-	46.79	0.00	3,344.29
MW - 3	09/07/05	3391.08	-	46.78	0.00	3,344.30
MW - 3	12/14/05	3391.08	-	46.25	0.00	3,344.83
MW - 3	03/06/06	3391.08	-	45.96	0.00	3,345.12
MW - 3	06/05/06	3391.08	-	45.65	0.00	3,345.43
MW - 3	09/11/06	3391.08	-	46.16	0.00	3,344.92
MW - 3	11/21/06	3391.08	-	46.25	0.00	3,344.83
MW - 3	02/20/07	3391.08	-	46.06	0.00	3,345.02
MW - 3	05/15/07	3391.08	-	46.25	0.00	3,344.83
MW - 3	08/09/07	3391.08	-	45.99	0.00	3,345.09
MW - 3	11/13/07	3391.08	-	46.21	0.00	3,344.87
MW - 3	02/14/08	3391.08	-	43.34	0.00	3,347.74
MW - 3	05/16/08	3391.08	-	45.76	0.00	3,345.32
MW - 3	08/19/08	3391.08	-	46.32	0.00	3,344.76
MW - 3	10/09/08	3391.08	-	46.48	0.00	3,344.60
MW - 3	10/23/08	3391.08	-	46.54	0.00	3,344.54
MW - 3	10/28/08	3391.08	-	46.51	0.00	3,344.57
MW - 3	11/19/08	3391.08	-	46.44	0.00	3,344.64
MW - 3	11/24/08	3391.08	-	46.99	0.00	3,344.09
MW - 3	02/18/09	3391.08	-	45.79	0.00	3,345.29
MW - 3	05/19/09	3391.08	-	46.48	0.00	3,344.60
MW - 3	07/07/09	3391.08	-	46.64	0.00	3,344.44
MW - 3	07/14/09	3391.08	-	46.66	0.00	3,344.42
MW - 3	07/28/09	3391.08	-	46.65	0.00	3,344.43
MW - 3	08/07/09	3391.08	-	46.66	0.00	3,344.42
MW - 3	08/13/09	3391.08	-	46.64	0.00	3,344.44
MW - 3	09/10/09	3391.08	-	46.72	0.00	3,344.36
MW - 3	09/18/09	3391.08	-	46.76	0.00	3,344.32
MW - 3	09/29/09	3391.08	-	46.66	0.00	3,344.42
MW - 3	10/06/09	3391.08	-	46.68	0.00	3,344.40
MW - 3	10/20/09	3391.08	-	46.69	0.00	3,344.39
MW - 3	10/27/09	3391.08	-	46.68	0.00	3,344.40
MW - 3	11/11/09	3391.08	-	46.76	0.00	3,344.32
MW - 3	12/22/09	3391.08	-	46.76	0.00	3,344.32
MW - 3	01/12/10	3391.08	-	46.72	0.00	3,344.36
MW - 3	02/04/10	3391.08	-	46.78	0.00	3,344.30
MW - 3	03/03/10	3391.08	-	46.99	0.00	3,344.09
MW - 3	04/15/10	3391.08	-	47.09	0.00	3,343.99
MW - 3	05/07/10	3391.08	-	47.11	0.00	3,343.97
MW - 3	08/06/10	3391.08	-	47.12	0.00	3,343.96
MW - 3	11/05/10	3391.08	-	47.14	0.00	3,343.94
MW - 3	02/11/11	3391.08	-	47.14	0.00	3,343.94
MW - 3	05/09/11	3391.08	-	47.16	0.00	3,343.92

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	08/05/11	3391.08	-	47.20	0.00	3,343.88
MW - 3	11/17/11	3391.08	-	47.98	0.00	3,343.10
MW - 3	02/28/12	3391.08	-	47.77	0.00	3,343.31
MW - 3	05/03/12	3391.08	-	47.75	0.00	3,343.33
MW - 3	08/24/12	3391.08	-	48.09	0.00	3,342.99
MW - 3	11/15/12	3391.08	-	47.92	0.00	3,343.16
MW - 3	02/14/13	3391.08	-	47.80	0.00	3,343.28
MW - 3	05/28/13	3391.08	-	47.75	0.00	3,343.33
MW - 3	08/06/13	3391.08	-	48.08	0.00	3,343.00
MW - 3	11/07/13	3391.08	-	48.41	0.00	3,342.67
MW - 3	03/05/14	3391.08	-	48.39	0.00	3,342.69
MW - 3	05/29/14	3391.08	-	48.38	0.00	3,342.70
MW - 3	07/23/14	3391.08	-	48.65	0.00	3,342.43
MW - 3	08/12/14	3391.08	-	48.66	0.00	3,342.42
MW - 3	10/28/14	3391.08	-	48.49	0.00	3,342.59
MW - 3	11/15/14	3391.08	-	48.38	0.00	3,342.70
MW - 3	02/16/15	3391.08	-	48.04	0.00	3,343.04
MW - 3	03/18/15	3391.08	-	47.93	0.00	3,343.15
MW - 3	04/08/15	3391.08	-	47.78	0.00	3,343.30
MW - 3	05/28/15	3391.08	-	47.59	0.00	3,343.49
MW - 3	07/09/15	3391.08	-	47.57	0.00	3,343.51
MW - 3	08/26/15	3391.08	-	47.74	0.00	3,343.34
MW - 3	09/11/15	3391.08	-	47.85	0.00	3,343.23
MW - 3	09/25/15	3391.08	-	47.94	0.00	3,343.14
MW - 3	10/09/15	3391.08	-	48.01	0.00	3,343.07
MW - 3	10/15/15	3391.08	-	47.88	0.00	3,343.20
MW - 3	11/20/15	3391.08	-	47.89	0.00	3,343.19
MW - 3	12/11/15	3391.08	-	47.75	0.00	3,343.33
MW - 3	01/13/16	3391.08	-	47.63	0.00	3,343.45
MW - 3	02/17/16	3391.08	-	47.43	0.00	3,343.65
MW - 3	03/18/16	3391.08	-	47.37	0.00	3,343.71
MW - 3	04/08/16	3391.08	-	47.30	0.00	3,343.78
MW - 3	04/12/16	3391.08	-	47.34	0.00	3,343.74
MW - 3	05/03/16	3391.08	-	47.27	0.00	3,343.81
MW - 3	05/26/16	3391.08	-	47.19	0.00	3,343.89
MW - 3	06/09/16	3391.08	-	47.29	0.00	3,343.79
MW - 3	07/01/16	3391.08	-	47.27	0.00	3,343.81
MW - 3	07/20/16	3391.08	-	47.43	0.00	3,343.65
MW - 3	08/04/16	3391.08	-	47.36	0.00	3,343.72
MW - 3	09/28/16	3391.08	-	47.47	0.00	3,343.61
MW - 3	11/29/16	3391.08	-	47.21	0.00	3,343.87
MW - 3	12/16/16	3391.08	-	47.09	0.00	3,343.99
MW - 3	01/26/17	3391.08	-	47.07	0.00	3,344.01
MW - 3	02/27/17	3391.08	-	46.94	0.00	3,344.14

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	03/30/17	3391.08	-	46.89	0.00	3,344.19
MW - 3	04/21/17	3391.08	-	46.84	0.00	3,344.24
MW - 3	05/18/17	3391.08	-	46.79	0.00	3,344.29
MW - 3	07/20/17	3391.08	-	46.79	0.00	3,344.29
MW - 3	08/29/17	3391.08	-	46.75	0.00	3,344.33
MW - 3	10/13/17	3391.08	-	46.63	0.00	3,344.45
MW - 3	10/20/17	3391.08	-	46.63	0.00	3,344.45
MW - 3	11/07/17	3391.08	-	46.63	0.00	3,344.45
MW - 3	01/31/18	3391.08	-	46.42	0.00	3,344.66
MW - 3	02/22/18	3391.08	-	46.49	0.00	3,344.59
MW - 3	03/15/18	3391.08	-	46.42	0.00	3,344.66
MW - 3	04/20/18	3391.08	-	46.42	0.00	3,344.66
MW - 3	05/22/18	3391.08	-	46.41	0.00	3,344.67
MW - 3	06/27/18	3391.08	-	46.50	0.00	3,344.58
MW - 3	07/31/18	3391.08	-	46.64	0.00	3,344.44
MW - 3	08/29/18	3391.08	-	46.68	0.00	3,344.40
MW - 3	09/28/18	3391.08	-	46.69	0.00	3,344.39
MW - 3	11/29/18	3391.08	-	46.56	0.00	3,344.52
MW - 3	12/13/18	3391.08	-	46.60	0.00	3,344.48
MW - 3	01/03/19	3391.08	-	46.51	0.00	3,344.57
MW - 3	03/05/19	3391.08	-	46.52	0.00	3,344.56
MW - 3	03/20/19	3391.08	-	46.48	0.00	3,344.60
MW - 3	04/04/19	3391.08	-	46.41	0.00	3,344.67
MW - 3	06/11/19	3391.08	-	46.31	0.00	3,344.77
MW - 3	07/15/19	3391.08	-	42.27	0.00	3,348.81
MW - 3	08/15/19	3391.08	-	46.26	0.00	3,344.82
MW - 3	11/25/19	3391.08	-	46.04	0.00	3,345.04
MW - 3	12/12/19	3391.08	-	46.08	0.00	3,345.00
MW - 3	01/24/20	3391.08	-	46.05	0.00	3,345.03
MW - 3	02/25/20	3391.08	-	46.07	0.00	3,345.01
MW - 3	05/28/20	3391.08	-	45.95	0.00	3,345.13
MW - 3	06/15/20	3391.08	-	45.93	0.00	3,345.15
MW - 3	08/27/20	3391.08	-	46.03	0.00	3,345.05
MW - 3	09/10/20	3391.08	-	46.14	0.00	3,344.94
MW - 3	10/21/20	3391.08	-	46.10	0.00	3,344.98
MW - 3	12/01/20	3391.08	-	45.99	0.00	3,345.09
MW - 3	01/06/21	3391.08	-	46.05	0.00	3,345.03
MW - 3	02/04/21	3391.08	-	46.04	0.00	3,345.04
MW - 3	04/26/21	3391.08	-	45.77	0.00	3,345.31
MW - 3	06/17/21	3391.08	-	45.83	0.00	3,345.25
MW - 3	07/28/21	3391.08	-	45.99	0.00	3,345.09
MW - 3	08/19/21	3391.08	-	46.03	0.00	3,345.05
MW - 3	09/24/21	3391.08	-	46.14	0.00	3,344.94
MW - 3	10/18/21	3391.08	-	46.20	0.00	3,344.88

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	11/30/21	3391.08	-	46.22	0.00	3,344.86
MW - 3	03/02/22	3391.08	-	46.25	0.00	3,344.83
MW - 3	04/08/22	3391.08	-	46.34	0.00	3,344.74
MW - 3	05/26/22	3391.08	-	46.36	0.00	3,344.72
MW - 3	09/12/22	3391.08	-	46.80	0.00	3,344.28
MW - 3	11/29/22	3391.08	-	46.73	0.00	3,344.35
MW - 3	02/21/23	3391.08	-	46.74	0.00	3,344.34
MW - 3	05/23/23	3391.08	-	46.66	0.00	3,344.42
MW - 3	08/03/23	3391.08	-	47.02	0.00	3,344.06
MW - 3	08/15/23	3391.08	-	47.01	0.00	3,344.07
MW - 3	11/16/23	3391.08	-	47.16	0.00	3,343.92
MW - 4	02/03/99	3390.81	-	47.01	0.00	3,343.80
MW - 4	05/12/99	3390.81	-	46.91	0.00	3,343.90
MW - 4	08/23/99	3390.81	-	47.16	0.00	3,343.65
MW - 4	11/29/99	3390.81	-	46.03	0.00	3,344.78
MW - 4	03/09/00	3390.81	-	46.96	0.00	3,343.85
MW - 4	05/11/00	3390.81	-	46.80	0.00	3,344.01
MW - 4	09/12/00	3390.81	-	46.75	0.00	3,344.06
MW - 4	12/14/00	3390.81	-	46.33	0.00	3,344.48
MW - 4	03/21/01	3390.81	-	46.00	0.00	3,344.81
MW - 4	05/30/01	3390.81	-	46.70	0.00	3,344.11
MW - 4	06/21/01	3390.81	-	47.01	0.00	3,343.80
MW - 4	09/25/01	3390.81	-	47.02	0.00	3,343.79
MW - 4	11/17/01	3390.81	-	46.63	0.00	3,344.18
MW - 4	02/20/02	3390.81	-	47.47	0.00	3,343.34
MW - 4	05/20/02	3390.81	-	46.96	0.00	3,343.85
MW - 4	09/24/02	3390.81	-	48.78	0.00	3,342.03
MW - 4	10/29/02	3390.81	-	48.08	0.00	3,342.73
MW - 4	11/13/02	3390.81	-	48.18	0.00	3,342.63
MW - 4	02/06/03	3390.81	-	48.15	0.00	3,342.66
MW - 4	05/08/03	3390.81	-	47.82	0.00	3,342.99
MW - 4	08/19/03	3390.81	-	48.14	0.00	3,342.67
MW - 4	11/07/03	3390.81	-	48.43	0.00	3,342.38
MW - 4	02/09/04	3390.81	-	47.06	0.00	3,343.75
MW - 4	05/04/04	3390.81	-	47.82	0.00	3,342.99
MW - 4	08/23/04	3390.81	-	48.66	0.00	3,342.15
MW - 4	09/22/04	3390.81	sheen	48.76	0.00	3,342.05
MW - 4	09/29/04	3390.81	sheen	48.70	0.00	3,342.11
MW - 4	10/04/04	3390.81	sheen	48.10	0.00	3,342.71
MW - 4	10/11/04	3390.81	sheen	47.92	0.00	3,342.89
MW - 4	10/19/04	3390.81	sheen	48.01	0.00	3,342.80
MW - 4	10/25/04	3390.81	sheen	48.12	0.00	3,342.69
MW - 4	11/01/04	3390.81	sheen	48.16	0.00	3,342.65

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	11/09/04	3390.81	sheen	48.10	0.00	3,342.71
MW - 4	11/17/04	3390.81	sheen	48.16	0.00	3,342.65
MW - 4	11/22/04	3390.81	sheen	48.19	0.00	3,342.62
MW - 4	11/29/04	3390.81	sheen	47.63	0.00	3,343.18
MW - 4	12/04/04	3390.81	-	47.26	0.00	3,343.55
MW - 4	12/13/04	3390.81	sheen	46.80	0.00	3,344.01
MW - 4	12/20/05	3390.81	sheen	46.77	0.00	3,344.04
MW - 4	12/30/04	3390.81	sheen	46.50	0.00	3,344.31
MW - 4	01/03/05	3390.81	sheen	46.54	0.00	3,344.27
MW - 4	01/10/05	3390.81	sheen	46.66	0.00	3,344.15
MW - 4	01/17/05	3390.81	sheen	46.78	0.00	3,344.03
MW - 4	01/24/05	3390.81	sheen	46.82	0.00	3,343.99
MW - 4	01/31/05	3390.81	sheen	46.92	0.00	3,343.89
MW - 4	02/07/05	3390.81	sheen	46.88	0.00	3,343.93
MW - 4	02/14/05	3390.81	sheen	46.89	0.00	3,343.92
MW - 4	02/21/05	3390.81	sheen	46.92	0.00	3,343.89
MW - 4	02/28/05	3390.81	sheen	46.96	0.00	3,343.85
MW - 4	03/07/05	3390.81	-	46.60	0.00	3,344.21
MW - 4	03/07/05	3390.81	sheen	46.60	0.00	3,344.21
MW - 4	03/16/05	3390.81	sheen	46.89	0.00	3,343.92
MW - 4	03/21/05	3390.81	sheen	46.54	0.00	3,344.27
MW - 4	03/28/05	3390.81	sheen	46.66	0.00	3,344.15
MW - 4	04/04/05	3390.81	sheen	46.63	0.00	3,344.18
MW - 4	04/13/05	3390.81	sheen	46.65	0.00	3,344.16
MW - 4	04/18/05	3390.81	-	46.63	0.00	3,344.18
MW - 4	05/23/05	3390.81	sheen	46.93	0.00	3,343.88
MW - 4	06/07/05	3390.81	-	46.70	0.00	3,344.11
MW - 4	06/21/05	3390.81	sheen	46.90	0.00	3,343.91
MW - 4	07/26/05	3390.81	sheen	46.68	0.00	3,344.13
MW - 4	08/25/05	3390.81	sheen	46.69	0.00	3,344.12
MW - 4	09/07/05	3390.81	sheen	46.73	0.00	3,344.08
MW - 4	09/26/05	3390.81	sheen	46.88	0.00	3,343.93
MONITOR WELL WAS DAMAGED DURING BACKFILLING OPERATIONS						
MW - 4	11/14/05		sheen	46.49	0.00	
MONITOR WELL WAS REPAIRED & RESURVEYED - NOTE CHANGE IN ELEVATION						
MW - 4	-	3390.94	-	-	-	-
MW - 4	12/14/05	3390.94	COULD NOT SAMPLE - OBSTRUCTED			
MW - 4	12/28/05	3390.94	DRY	43.40		3,347.54
MW - 4	01/18/06	3390.94	DRY			
MW - 4	02/15/06	3390.94	DRY			
MW - 4	03/06/06	PLUGGED & ABANDONED				
MW - 5	11/29/99	3391.53	-	46.55	0.00	3,344.98
MW - 5	03/09/00	3391.53	-	47.51	0.00	3,344.02

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	05/11/00	3391.53	-	47.35	0.00	3,344.18
MW - 5	09/12/00	3391.53	-	47.25	0.00	3,344.28
MW - 5	12/14/00	3391.53	-	46.94	0.00	3,344.59
MW - 5	03/21/01	3391.53	-	46.55	0.00	3,344.98
MW - 5	05/30/01	3391.53	-	47.29	0.00	3,344.24
MW - 5	06/21/01	3391.53	-	47.45	0.00	3,344.08
MW - 5	09/25/01	3391.53	-	47.37	0.00	3,344.16
MW - 5	11/17/01	3391.53	-	47.20	0.00	3,344.33
MW - 5	02/20/02	3391.53	-	47.06	0.00	3,344.47
MW - 5	05/20/02	3391.53	-	47.47	0.00	3,344.06
MW - 5	09/24/02	3391.53	-	48.16	0.00	3,343.37
MW - 5	10/29/02	3391.53	-	48.36	0.00	3,343.17
MW - 5	11/13/02	3391.53	-	48.45	0.00	3,343.08
MW - 5	02/06/03	3391.53	-	48.44	0.00	3,343.09
MW - 5	05/08/03	3391.53	-	48.21	0.00	3,343.32
MW - 5	08/19/03	3391.53	-	48.42	0.00	3,343.11
MW - 5	11/07/03	3391.53	-	48.82	0.00	3,342.71
MW - 5	02/09/04	3391.53	-	47.56	0.00	3,343.97
MW - 5	05/04/04	3391.53	-	48.17	0.00	3,343.36
MW - 5	08/23/04	3391.53	-	48.89	0.00	3,342.64
MW - 5	12/04/04	3391.53	-	47.82	0.00	3,343.71
MW - 5	03/07/05	3391.53	-	47.14	0.00	3,344.39
MW - 5	06/07/05	3391.53	-	47.07	0.00	3,344.46
MW - 5	09/07/05	3391.53	-	47.05	0.00	3,344.48
MW - 5	12/14/05	3391.53	-	46.60	0.00	3,344.93
MW - 5	06/05/06	3391.53	-	46.01	0.00	3,345.52
MW - 5	09/11/06	3391.53	-	46.47	0.00	3,345.06
MW - 5	11/21/06	3391.53	-	46.63	0.00	3,344.90
MW - 5	02/20/07	3391.53	-	46.35	0.00	3,345.18
MW - 5	05/15/07	3391.53	-	46.50	0.00	3,345.03
MW - 5	08/09/07	3391.53	-	46.27	0.00	3,345.26
MW - 5	11/13/07	3391.53	-	46.39	0.00	3,345.14
MW - 5	02/14/08	3391.53	-	44.55	0.00	3,346.98
MW - 5	05/16/08	3391.53	-	46.04	0.00	3,345.49
MW - 5	08/19/08	3391.53	-	46.53	0.00	3,345.00
MW - 5	11/19/08	3391.53	-	46.55	0.00	3,344.98
MW - 5	02/18/09	3391.53	-	46.01	0.00	3,345.52
MW - 5	05/19/09	3391.53	-	46.61	0.00	3,344.92
MW - 5	08/13/09	3391.53	-	46.83	0.00	3,344.70
MW - 5	11/11/09	3391.53	-	46.89	0.00	3,344.64
MW - 5	01/12/10	3391.53	-	46.87	0.00	3,344.66
MW - 5	02/04/10	3391.53	-	46.93	0.00	3,344.60
MW - 5	05/07/10	3391.53	-	46.92	0.00	3,344.61
MW - 5	08/06/10	3391.53	-	46.92	0.00	3,344.61

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	11/05/10	3391.53	-	46.94	0.00	3,344.59
MW - 5	02/11/11	3391.53	-	46.96	0.00	3,344.57
MW - 5	05/09/11	3391.53	-	46.95	0.00	3,344.58
MW - 5	08/05/11	3391.53	-	46.97	0.00	3,344.56
MW - 5	11/17/11	3391.53	-	48.10	0.00	3,343.43
MW - 5	02/28/12	3391.53	-	47.92	0.00	3,343.61
MW - 5	05/03/12	3391.53	-	47.88	0.00	3,343.65
MW - 5	08/24/12	3391.53	-	48.21	0.00	3,343.32
MW - 5	11/15/12	3391.53	-	48.14	0.00	3,343.39
MW - 5	02/14/13	3391.53	-	47.98	0.00	3,343.55
MW - 5	05/28/13	3391.53	-	47.90	0.00	3,343.63
MW - 5	08/06/13	3391.53	-	48.22	0.00	3,343.31
MW - 5	11/07/13	3391.53	-	48.56	0.00	3,342.97
MW - 5	03/05/14	3391.53	-	48.50	0.00	3,343.03
MW - 5	05/29/14	3391.53	-	48.51	0.00	3,343.02
MW - 5	07/23/14	3391.53	-	48.76	0.00	3,342.77
MW - 5	08/12/14	3391.53	-	48.80	0.00	3,342.73
MW - 5	10/28/14	3391.53	-	48.67	0.00	3,342.86
MW - 5	11/15/14	3391.53	-	48.54	0.00	3,342.99
MW - 5	02/16/15	3391.53	-	48.21	0.00	3,343.32
MW - 5	03/18/15	3391.53	-	48.07	0.00	3,343.46
MW - 5	04/08/15	3391.53	-	47.94	0.00	3,343.59
MW - 5	05/28/15	3391.53	-	47.75	0.00	3,343.78
MW - 5	07/09/15	3391.53	-	47.72	0.00	3,343.81
MW - 5	08/26/15	3391.53	-	47.90	0.00	3,343.63
MW - 5	09/11/15	3391.53	-	47.99	0.00	3,343.54
MW - 5	09/25/15	3391.53	-	48.07	0.00	3,343.46
MW - 5	10/09/15	3391.53	-	48.15	0.00	3,343.38
MW - 5	10/15/15	3391.53	-	48.04	0.00	3,343.49
MW - 5	11/20/15	3391.53	-	48.04	0.00	3,343.49
MW - 5	12/11/15	3391.53	-	47.91	0.00	3,343.62
MW - 5	01/13/16	3391.53	-	47.74	0.00	3,343.79
MW - 5	02/17/16	3391.53	-	47.58	0.00	3,343.95
MW - 5	03/18/16	3391.53	-	47.52	0.00	3,344.01
MW - 5	04/08/16	3391.53	-	47.45	0.00	3,344.08
MW - 5	04/12/16	3391.53	-	47.49	0.00	3,344.04
MW - 5	05/03/16	3391.53	-	47.40	0.00	3,344.13
MW - 5	05/26/16	3391.53	-	47.34	0.00	3,344.19
MW - 5	06/09/16	3391.53	-	47.45	0.00	3,344.08
MW - 5	07/01/16	3391.53	-	47.43	0.00	3,344.10
MW - 5	07/20/16	3391.53	-	47.59	0.00	3,343.94
MW - 5	08/04/16	3391.53	-	47.53	0.00	3,344.00
MW - 5	09/28/16	3391.53	-	47.61	0.00	3,343.92
MW - 5	11/29/16	3391.53	-	47.38	0.00	3,344.15

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	12/16/16	3391.53	-	47.27	0.00	3,344.26
MW - 5	01/26/17	3391.53	-	47.28	0.00	3,344.25
MW - 5	02/27/17	3391.53	-	47.11	0.00	3,344.42
MW - 5	03/30/17	3391.53	-	47.07	0.00	3,344.46
MW - 5	04/21/17	3391.53	-	47.02	0.00	3,344.51
MW - 5	05/18/17	3391.53	-	46.98	0.00	3,344.55
MW - 5	07/20/17	3391.53	-	46.97	0.00	3,344.56
MW - 5	08/29/17	3391.53	-	46.92	0.00	3,344.61
MW - 5	10/13/17	3391.53	-	46.82	0.00	3,344.71
MW - 5	10/20/17	3391.53	-	46.82	0.00	3,344.71
MW - 5	11/07/17	3391.53	-	46.83	0.00	3,344.70
MW - 5	01/31/18	3391.53	-	46.62	0.00	3,344.91
MW - 5	02/22/18	3391.53	-	46.68	0.00	3,344.85
MW - 5	03/15/18	3391.53	-	46.62	0.00	3,344.91
MW - 5	04/20/18	3391.53	-	46.63	0.00	3,344.90
MW - 5	05/22/18	3391.53	-	46.61	0.00	3,344.92
MW - 5	06/27/18	3391.53	-	46.70	0.00	3,344.83
MW - 5	07/31/18	3391.53	-	46.83	0.00	3,344.70
MW - 5	08/29/18	3391.53	-	46.87	0.00	3,344.66
MW - 5	11/29/18	3391.53	-	46.74	0.00	3,344.79
MW - 5	12/13/18	3391.53	-	46.80	0.00	3,344.73
MW - 5	09/28/18	3391.53	-	46.87	0.00	3,344.66
MW - 5	01/03/19	3391.53	-	46.70	0.00	3,344.83
MW - 5	03/05/19	3391.53	-	46.71	0.00	3,344.82
MW - 5	03/20/19	3391.53	-	46.67	0.00	3,344.86
MW - 5	04/04/19	3391.53	-	46.54	0.00	3,344.99
MW - 5	06/11/19	3391.53	-	46.50	0.00	3,345.03
MW - 5	07/15/19	3391.53	-	46.45	0.00	3,345.08
MW - 5	08/15/19	3391.53	-	46.45	0.00	3,345.08
MW - 5	11/25/19	3391.53	-	46.22	0.00	3,345.31
MW - 5	12/12/19	3391.53	-	46.28	0.00	3,345.25
MW - 5	01/24/20	3391.53	-	46.24	0.00	3,345.29
MW - 5	02/25/20	3391.53	-	46.27	0.00	3,345.26
MW - 5	05/28/20	3391.53	-	46.14	0.00	3,345.39
MW - 5	06/15/20	3391.53	-	46.12	0.00	3,345.41
MW - 5	08/27/20	3391.53	-	46.22	0.00	3,345.31
MW - 5	09/10/20	3391.53	-	46.34	0.00	3,345.19
MW - 5	10/21/20	3391.53	-	46.29	0.00	3,345.24
MW - 5	12/01/20	3391.53	-	46.19	0.00	3,345.34
MW - 5	01/06/21	3391.53	-	46.25	0.00	3,345.28
MW - 5	02/04/21	3391.53	-	46.24	0.00	3,345.29
MW - 5	04/26/21	3391.53	-	45.96	0.00	3,345.57
MW - 5	06/16/21	3391.53	-	46.03	0.00	3,345.50
MW - 5	07/28/21	3391.53	-	46.18	0.00	3,345.35

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	08/19/21	3391.53	-	46.22	0.00	3,345.31
MW - 5	09/24/21	3391.53	-	46.33	0.00	3,345.20
MW - 5	10/18/21	3391.53	-	46.36	0.00	3,345.17
MW - 5	11/30/21	3391.53	-	46.11	0.00	3,345.42
MW - 5	01/17/22	3391.53	-	46.38	0.00	3,345.15
MW - 5	03/02/22	3391.53	-	46.45	0.00	3,345.08
MW - 5	04/08/22	3391.53	-	46.55	0.00	3,344.98
MW - 5	05/26/22	3391.53	-	46.56	0.00	3,344.97
MW - 5	09/12/22	3391.53	-	46.95	0.00	3,344.58
MW - 5	11/29/22	3391.53	-	46.91	0.00	3,344.62
MW - 5	02/21/23	3391.53	-	46.94	0.00	3,344.59
MW - 5	05/23/23	3391.53	-	46.95	0.00	3,344.58
MW - 5	08/03/23	3391.53	-	47.14	0.00	3,344.39
MW - 5	08/15/23	3391.53	-	47.23	0.00	3,344.30
MW - 5	11/16/23	3391.53	-	47.33	0.00	3,344.20
MW - 6	11/29/99	3391.14	-	46.45	0.00	3,344.69
MW - 6	03/09/00	3391.14	-	47.36	0.00	3,343.78
MW - 6	05/11/00	3391.14	-	47.21	0.00	3,343.93
MW - 6	09/12/00	3391.14	-	47.14	0.00	3,344.00
MW - 6	12/14/00	3391.14	-	46.71	0.00	3,344.43
MW - 6	03/21/01	3391.14	-	46.40	0.00	3,344.74
MW - 6	05/30/01	3391.14	-	47.05	0.00	3,344.09
MW - 6	06/21/01	3391.14	-	47.46	0.00	3,343.68
MW - 6	09/25/01	3391.14	-	47.59	0.00	3,343.55
MW - 6	11/17/01	3391.14	-	47.15	0.00	3,343.99
MW - 6	02/20/02	3391.14	-	46.88	0.00	3,344.26
MW - 6	05/20/02	3391.14	-	47.48	0.00	3,343.66
MW - 6	09/24/02	3391.14	-	48.38	0.00	3,342.76
MW - 6	10/29/02	3391.14	-	48.65	0.00	3,342.49
MW - 6	11/13/02	3391.14	-	48.78	0.00	3,342.36
MW - 6	02/06/03	3391.14	-	48.70	0.00	3,342.44
MW - 6	05/08/03	3391.14	-	48.42	0.00	3,342.72
MW - 6	08/19/03	3391.14	-	48.68	0.00	3,342.46
MW - 6	11/07/03	3391.14	-	48.92	0.00	3,342.22
MW - 6	12/04/04	3391.14	-	47.55	0.00	3,343.59
MW - 6	03/07/05	3391.14	-	47.05	0.00	3,344.09
MW - 6	06/07/05	3391.14	-	47.20	0.00	3,343.94
MW - 6	09/07/05	3391.14	-	47.28	0.00	3,343.86
MW - 6	12/14/05	3391.14	-	46.51	0.00	3,344.63
MW - 6	06/05/06	3391.14	-	45.99	0.00	3,345.15
MW - 6	09/11/06	3391.14	-	46.62	0.00	3,344.52
MW - 6	11/21/06	3391.14	-	46.68	0.00	3,344.46
MW - 6	02/20/07	3391.14	-	46.54	0.00	3,344.60

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 6	05/15/07	3391.14	-	46.77	0.00	3,344.37
MW - 6	06/21/07	3391.14	-	46.74	0.00	3,344.40
MW - 6	08/09/07	3391.14	-	46.46	0.00	3,344.68
MW - 6	11/13/07	3391.14	-	46.74	0.00	3,344.40
MW - 6	02/14/08	3391.14	-	46.91	0.00	3,344.23
MW - 6	05/16/08	3391.14	-	46.33	0.00	3,344.81
MW - 6	08/19/08	3391.14	-	46.89	0.00	3,344.25
MW - 6	11/19/08	3391.14	-	46.98	0.00	3,344.16
MW - 6	02/18/09	3391.14	-	45.17	0.00	3,345.97
MW - 6	05/19/09	3391.14	-	47.02	0.00	3,344.12
MW - 6	08/13/09	3391.14	-	47.20	0.00	3,343.94
MW - 6	11/11/09	3391.14	-	47.26	0.00	3,343.88
MW - 6	01/12/10	3391.14	-	47.27	0.00	3,343.87
MW - 6	02/04/10	3391.14	-	47.39	0.00	3,343.75
MW - 6	05/07/10	3391.14	-	47.33	0.00	3,343.81
MW - 6	08/06/10	3391.14	-	47.33	0.00	3,343.81
MW - 6	11/05/10	3391.14	-	47.33	0.00	3,343.81
MW - 6	02/11/11	3391.14	-	47.32	0.00	3,343.82
MW - 6	05/09/11	3391.14	-	47.32	0.00	3,343.82
MW - 6	08/05/11	3391.14	-	47.30	0.00	3,343.84
MW - 6	11/17/11	3391.14	-	48.68	0.00	3,342.46
MW - 6	02/28/12	3391.14	-	48.38	0.00	3,342.76
MW - 6	05/03/12	3391.14	-	48.41	0.00	3,342.73
MW - 6	08/24/12	3391.14	-	48.68	0.00	3,342.46
MW - 6	11/15/12	3391.14	-	48.61	0.00	3,342.53
MW - 6	02/14/13	3391.14	-	48.48	0.00	3,342.66
MW - 6	05/28/13	3391.14	-	48.42	0.00	3,342.72
MW - 6	08/06/13	3391.14	-	48.79	0.00	3,342.35
MW - 6	11/07/13	3391.14	-	49.12	0.00	3,342.02
MW - 6	03/05/14	3391.14	-	49.15	0.00	3,341.99
MW - 6	05/29/14	3391.14	-	49.17	0.00	3,341.97
MW - 6	07/23/14	3391.14	-	49.43	0.00	3,341.71
MW - 6	08/12/14	3391.14	-	49.46	0.00	3,341.68
MW - 6	10/28/14	3391.14	-	49.24	0.00	3,341.90
MW - 6	11/15/14	3391.14	-	49.12	0.00	3,342.02
MW - 6	02/16/15	3391.14	-	48.77	0.00	3,342.37
MW - 6	03/18/15	3391.14	-	48.67	0.00	3,342.47
MW - 6	04/08/15	3391.14	-	48.54	0.00	3,342.60
MW - 6	05/28/15	3391.14	-	48.31	0.00	3,342.83
MW - 6	07/09/15	3391.14	-	48.27	0.00	3,342.87
MW - 6	08/26/15	3391.14	-	48.45	0.00	3,342.69
MW - 6	09/11/15	3391.14	-	48.56	0.00	3,342.58
MW - 6	09/25/15	3391.14	-	48.67	0.00	3,342.47
MW - 6	10/09/15	3391.14	-	48.71	0.00	3,342.43

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 6	10/15/15	3391.14	-	48.64	0.00	3,342.50
MW - 6	11/20/15	3391.14	-	48.62	0.00	3,342.52
MW - 6	12/11/15	3391.14	-	48.48	0.00	3,342.66
MW - 6	01/13/16	3391.14	-	48.28	0.00	3,342.86
MW - 6	02/17/16	3391.14	-	48.10	0.00	3,343.04
MW - 6	03/18/16	3391.14	-	48.07	0.00	3,343.07
MW - 6	04/08/16	3391.14	-	48.02	0.00	3,343.12
MW - 6	04/12/16	3391.14	-	48.06	0.00	3,343.08
MW - 6	05/03/16	3391.14	-	47.97	0.00	3,343.17
MW - 6	05/26/16	3391.14	-	47.95	0.00	3,343.19
MW - 6	06/09/16	3391.14	-	48.03	0.00	3,343.11
MW - 6	07/01/16	3391.14	-	48.01	0.00	3,343.13
MW - 6	07/20/16	3391.14	-	48.09	0.00	3,343.05
MW - 6	08/04/16	3391.14	-	48.09	0.00	3,343.05
MW - 6	09/28/16	3391.14	-	48.16	0.00	3,342.98
MW - 6	11/29/16	3391.14	-	47.89	0.00	3,343.25
MW - 6	12/16/16	3391.14	-	47.80	0.00	3,343.34
MW - 6	01/26/17	3391.14	-	47.77	0.00	3,343.37
MW - 6	02/27/17	3391.14	-	47.60	0.00	3,343.54
MW - 6	03/30/17	3391.14	-	47.57	0.00	3,343.57
MW - 6	04/21/17	3391.14	-	47.50	0.00	3,343.64
MW - 6	05/18/17	3391.14	-	47.47	0.00	3,343.67
MW - 6	07/20/17	3391.14	-	47.45	0.00	3,343.69
MW - 6	08/29/17	3391.14	-	47.37	0.00	3,343.77
MW - 6	10/13/17	3391.14	-	47.28	0.00	3,343.86
MW - 6	10/20/17	3391.14	-	47.28	0.00	3,343.86
MW - 6	11/07/17	3391.14	-	47.28	0.00	3,343.86
MW - 6	01/31/18	3391.14	-	47.08	0.00	3,344.06
MW - 6	02/22/18	3391.14	-	47.14	0.00	3,344.00
MW - 6	03/15/18	3391.14	-	47.09	0.00	3,344.05
MW - 6	04/20/18	3391.14	-	47.09	0.00	3,344.05
MW - 6	05/23/18	3391.14	-	47.08	0.00	3,344.06
MW - 6	06/27/18	3391.14	-	47.17	0.00	3,343.97
MW - 6	07/31/18	3391.14	-	47.31	0.00	3,343.83
MW - 6	08/29/18	3391.14	-	47.36	0.00	3,343.78
MW - 6	09/28/18	3391.14	-	47.35	0.00	3,343.79
MW - 6	11/29/18	3391.14	-	47.23	0.00	3,343.91
MW - 6	12/13/18	3391.14	-	47.27	0.00	3,343.87
MW - 6	01/03/19	3391.14	-	47.17	0.00	3,343.97
MW - 6	03/05/19	3391.14	-	47.16	0.00	3,343.98
MW - 6	03/20/19	3391.14	-	47.11	0.00	3,344.03
MW - 6	04/04/19	3391.14	-	47.04	0.00	3,344.10
MW - 6	06/11/19	3391.14	-	46.96	0.00	3,344.18
MW - 6	07/15/19	3391.14	-	46.91	0.00	3,344.23

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW- 6	08/15/19	3391.14	-	46.91	0.00	3,344.23
MW- 6	11/25/19	3391.14	-	46.67	0.00	3,344.47
MW- 6	12/12/19	3391.14	-	46.72	0.00	3,344.42
MW- 6	01/24/20	3391.14	-	46.69	0.00	3,344.45
MW- 6	02/25/20	3391.14	-	46.73	0.00	3,344.41
MW- 6	05/28/20	3391.14	-	46.59	0.00	3,344.55
MW- 6	06/15/20	3391.14	-	46.58	0.00	3,344.56
MW- 6	08/27/20	3391.14	-	46.71	0.00	3,344.43
MW- 6	09/10/20	3392.14	-	46.84	0.00	3,345.30
MW- 6	10/21/20	3392.14	-	46.79	0.00	3,345.35
MW- 6	12/01/20	3392.14	-	47.64	0.00	3,344.50
MW- 6	01/06/21	3391.14	-	46.71	0.00	3,344.43
MW- 6	02/04/21	3391.14	-	46.70	0.00	3,344.44
MW- 6	04/26/21	3391.14	-	46.43	0.00	3,344.71
MW- 6	06/17/21	3391.14	-	46.50	0.00	3,344.64
MW- 6	07/28/21	3391.14	-	46.68	0.00	3,344.46
MW- 6	08/19/21	3391.14	-	46.73	0.00	3,344.41
MW- 6	09/24/21	3391.14	-	46.84	0.00	3,344.30
MW- 6	10/18/21	3391.14	-	46.87	0.00	3,344.27
MW- 6	11/30/21	3391.14	-	46.91	0.00	3,344.23
MW- 6	01/17/22	3391.14	-	46.88	0.00	3,344.26
MW- 6	03/02/22	3391.14	-	46.93	0.00	3,344.21
MW- 6	04/08/22	3391.14	-	47.02	0.00	3,344.12
MW- 6	05/26/22	3391.14	-	47.05	0.00	3,344.09
MW- 6	09/12/22	3391.14	-	47.41	0.00	3,343.73
MW- 6	11/29/22	3391.14	-	47.44	0.00	3,343.70
MW- 6	02/21/23	3391.14	-	47.42	0.00	3,343.72
MW- 6	05/23/23	3391.14	-	47.33	0.00	3,343.81
MW- 6	08/03/23	3391.14	-	47.65	0.00	3,343.49
MW- 6	08/15/23	3391.14	-	47.75	0.00	3,343.39
MW- 6	11/16/23	3391.14	-	47.83	0.00	3,343.31
MW - 7	11/29/99	3391.21	-	46.52	0.00	3,344.69
MW - 7	03/09/00	3391.21	-	47.41	0.00	3,343.80
MW - 7	05/11/00	3391.21	-	47.31	0.00	3,343.90
MW - 7	09/12/00	3391.21	-	47.23	0.00	3,343.98
MW - 7	12/14/00	3391.21	-	46.75	0.00	3,344.46
MW - 7	03/21/01	3391.21	-	46.49	0.00	3,344.72
MW - 7	05/30/01	3391.21	-	47.12	0.00	3,344.09
MW - 7	06/21/01	3391.21	-	47.52	0.00	3,343.69
MW - 7	09/25/01	3391.21	-	47.48	0.00	3,343.73
MW - 7	11/17/01	3391.21	-	47.08	0.00	3,344.13
MW - 7	02/20/02	3391.21	-	46.82	0.00	3,344.39
MW - 7	05/20/02	3391.21	-	47.44	0.00	3,343.77

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	09/24/02	3391.21	-	48.32	0.00	3,342.89
MW - 7	10/29/02	3391.21	-	48.59	0.00	3,342.62
MW - 7	11/13/02	3391.21	-	48.70	0.00	3,342.51
MW - 7	02/06/03	3391.21	-	48.70	0.00	3,342.51
MW - 7	05/08/03	3391.21	-	48.38	0.00	3,342.83
MW - 7	08/19/03	3391.21	-	48.63	0.00	3,342.58
MW - 7	11/07/03	3391.21	-	48.87	0.00	3,342.34
MW - 7	02/09/04	3391.21	-	47.46	0.00	3,343.75
MW - 7	05/04/04	3391.21	-	48.28	0.00	3,342.93
MW - 7	08/23/04	3391.21	-	49.19	0.00	3,342.02
MW - 7	12/04/04	3391.21	-	47.54	0.00	3,343.67
MW - 7	03/07/05	3391.21	-	47.00	0.00	3,344.21
MW - 7	06/07/05	3391.21	-	47.14	0.00	3,344.07
MW - 7	09/07/05	3391.21	-	47.22	0.00	3,343.99
MW - 7	12/14/05	3391.21	-	46.48	0.00	3,344.73
MW - 7	06/05/06	3391.21	-	45.98	0.00	3,345.23
MW - 7	09/11/06	3391.21	-	46.58	0.00	3,344.63
MW - 7	11/21/06	3391.21	-	46.61	0.00	3,344.60
MW - 7	02/20/07	3391.21	-	46.48	0.00	3,344.73
MW - 7	05/15/07	3391.21	-	46.69	0.00	3,344.52
MW - 7	06/21/07	3391.21	-	46.71	0.00	3,344.50
MW - 7	08/09/07	3391.21	-	46.39	0.00	3,344.82
MW - 7	11/13/07	3391.21	-	46.64	0.00	3,344.57
MW - 7	02/14/08	3391.21	-	46.86	0.00	3,344.35
MW - 7	05/16/08	3391.21	-	46.26	0.00	3,344.95
MW - 7	08/19/08	3391.21	-	46.81	0.00	3,344.40
MW - 7	11/19/08	3391.21	-	46.87	0.00	3,344.34
MW - 7	02/18/09	3391.21	-	46.12	0.00	3,345.09
MW - 7	05/19/09	3391.21	-	46.93	0.00	3,344.28
MW - 7	08/13/09	3391.21	-	47.11	0.00	3,344.10
MW - 7	11/11/09	3391.21	-	47.17	0.00	3,344.04
MW - 7	01/12/10	3391.21	-	47.19	0.00	3,344.02
MW - 7	02/04/10	3391.21	-	47.30	0.00	3,343.91
MW - 7	05/07/10	3391.21	-	47.28	0.00	3,343.93
MW - 7	08/06/10	3391.21	-	47.29	0.00	3,343.92
MW - 7	11/05/10	3391.21	-	47.28	0.00	3,343.93
MW - 7	02/11/11	3391.21	-	47.28	0.00	3,343.93
MW - 7	05/09/11	3391.21	-	47.26	0.00	3,343.95
MW - 7	08/05/11	3391.21	-	47.29	0.00	3,343.92
MW - 7	11/17/11	3391.21	-	48.58	0.00	3,342.63
MW - 7	02/28/12	3391.21	-	48.30	0.00	3,342.91
MW - 7	05/03/12	3391.21	-	48.32	0.00	3,342.89
MW - 7	08/24/12	3391.21	-	48.59	0.00	3,342.62
MW - 7	11/15/12	3391.21	-	48.52	0.00	3,342.69

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	02/14/13	3391.21	-	48.36	0.00	3,342.85
MW - 7	05/28/13	3391.21	-	48.32	0.00	3,342.89
MW - 7	08/06/13	3391.21	-	48.69	0.00	3,342.52
MW - 7	11/07/13	3391.21	-	49.04	0.00	3,342.17
MW - 7	03/05/14	3391.21	-	49.04	0.00	3,342.17
MW - 7	05/29/14	3391.21	-	49.07	0.00	3,342.14
MW - 7	07/23/14	3391.21	-	49.32	0.00	3,341.89
MW - 7	08/12/14	3391.21	-	49.36	0.00	3,341.85
MW - 7	10/28/14	3391.21	-	49.14	0.00	3,342.07
MW - 7	11/15/14	3391.21	-	49.02	0.00	3,342.19
MW - 7	02/16/15	3391.21	-	48.66	0.00	3,342.55
MW - 7	03/18/15	3391.21	-	48.54	0.00	3,342.67
MW - 7	04/08/15	3391.21	-	48.42	0.00	3,342.79
MW - 7	05/28/15	3391.21	-	48.19	0.00	3,343.02
MW - 7	07/09/15	3391.21	-	48.16	0.00	3,343.05
MW - 7	08/26/15	3391.21	-	48.35	0.00	3,342.86
MW - 7	09/11/15	3391.21	-	48.45	0.00	3,342.76
MW - 7	09/25/15	3391.21	-	48.56	0.00	3,342.65
MW - 7	10/09/15	3391.21	-	48.61	0.00	3,342.60
MW - 7	10/15/15	3391.21	-	48.55	0.00	3,342.66
MW - 7	11/20/15	3391.21	-	48.52	0.00	3,342.69
MW - 7	12/11/15	3391.21	-	48.36	0.00	3,342.85
MW - 7	01/13/16	3391.21	-	48.16	0.00	3,343.05
MW - 7	02/17/16	3391.21	-	47.97	0.00	3,343.24
MW - 7	03/18/16	3391.21	-	47.94	0.00	3,343.27
MW - 7	04/08/16	3391.21	-	47.88	0.00	3,343.33
MW - 7	04/12/16	3391.21	-	47.94	0.00	3,343.27
MW - 7	05/03/16	3391.21	-	47.83	0.00	3,343.38
MW - 7	05/26/16	3391.21	-	47.83	0.00	3,343.38
MW - 7	06/09/16	3391.21	-	47.90	0.00	3,343.31
MW - 7	07/01/16	3391.21	-	47.88	0.00	3,343.33
MW - 7	07/20/16	3391.21	-	47.97	0.00	3,343.24
MW - 7	08/04/16	3391.21	-	47.98	0.00	3,343.23
MW - 7	09/28/16	3391.21	-	48.05	0.00	3,343.16
MW - 7	11/29/16	3391.21	-	47.78	0.00	3,343.43
MW - 7	12/16/16	3391.21	-	47.66	0.00	3,343.55
MW - 7	01/26/17	3391.21	-	47.63	0.00	3,343.58
MW - 7	02/27/17	3391.21	-	47.51	0.00	3,343.70
MW - 7	03/30/17	3391.21	-	47.45	0.00	3,343.76
MW - 7	04/21/17	3391.21	-	47.38	0.00	3,343.83
MW - 7	05/18/17	3391.21	-	47.36	0.00	3,343.85
MW - 7	07/20/17	3391.21	-	47.33	0.00	3,343.88
MW - 7	08/29/17	3391.21	-	47.25	0.00	3,343.96
MW - 7	10/13/17	3391.21	-	47.16	0.00	3,344.05

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	10/20/17	3391.21	-	47.16	0.00	3,344.05
MW - 7	11/07/17	3391.21	-	47.16	0.00	3,344.05
MW - 7	01/31/18	3391.21	-	47.96	0.00	3,343.25
MW - 7	02/22/18	3391.21	-	47.02	0.00	3,344.19
MW - 7	03/15/18	3391.21	-	46.97	0.00	3,344.24
MW - 7	04/20/18	3391.21	-	46.97	0.00	3,344.24
MW - 7	05/22/18	3391.21	-	46.97	0.00	3,344.24
MW - 7	06/27/18	3391.21	-	47.07	0.00	3,344.14
MW - 7	07/31/18	3391.21	-	47.20	0.00	3,344.01
MW - 7	08/29/18	3391.21	-	47.26	0.00	3,343.95
MW - 7	09/28/18	3391.21	-	47.26	0.00	3,343.95
MW - 7	11/29/18	3391.21	-	47.12	0.00	3,344.09
MW - 7	12/13/18	3391.21	-	47.16	0.00	3,344.05
MW - 7	01/03/19	3391.21	-	47.06	0.00	3,344.15
MW - 7	03/05/19	3391.21	-	47.05	0.00	3,344.16
MW - 7	03/20/19	3391.21	-	47.00	0.00	3,344.21
MW - 7	04/04/19	3391.21	-	46.94	0.00	3,344.27
MW - 7	06/11/19	3391.21	-	46.85	0.00	3,344.36
MW - 7	07/15/19	3391.21	-	46.80	0.00	3,344.41
MW - 7	08/15/19	3391.21	-	46.80	0.00	3,344.41
MW - 7	11/25/19	3391.21	-	46.55	0.00	3,344.66
MW - 7	12/12/19	3391.21	-	46.60	0.00	3,344.61
MW - 7	01/24/20	3391.21	-	46.58	0.00	3,344.63
MW - 7	02/25/20	3391.21	-	46.61	0.00	3,344.60
MW - 7	05/28/20	3391.21	-	46.47	0.00	3,344.74
MW - 7	06/15/20	3391.21	-	46.45	0.00	3,344.76
MW - 7	08/27/20	3391.21	-	46.61	0.00	3,344.60
MW - 7	09/10/20	3391.21	-	46.74	0.00	3,344.47
MW - 7	10/21/20	3391.21	-	46.68	0.00	3,344.53
MW - 7	12/01/20	3391.21	-	46.54	0.00	3,344.67
MW - 7	01/06/21	3391.21	-	46.61	0.00	3,344.60
MW - 7	02/04/21	3391.21	-	46.59	0.00	3,344.62
MW - 7	04/26/21	3391.21	-	46.31	0.00	3,344.90
MW - 7	06/16/21	3391.21	-	46.39	0.00	3,344.82
MW - 7	07/28/21	3391.21	-	46.57	0.00	3,344.64
MW - 7	08/19/21	3391.21	-	46.63	0.00	3,344.58
MW - 7	09/24/21	3391.21	-	46.74	0.00	3,344.47
MW - 7	10/18/21	3391.21	-	46.78	0.00	3,344.43
MW - 7	11/30/21	3391.21	-	46.81	0.00	3,344.40
MW - 7	01/17/22	3391.21	-	46.78	0.00	3,344.43
MW - 7	03/02/22	3391.21	-	46.84	0.00	3,344.37
MW - 7	04/08/22	3391.21	-	46.92	0.00	3,344.29
MW - 7	05/25/22	3391.21	-	46.94	0.00	3,344.27
MW - 7	09/12/22	3391.21	-	47.35	0.00	3,343.86

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	11/28/22	3391.21	-	47.35	0.00	3,343.86
MW - 7	02/20/23	3391.21	-	47.30	0.00	3,343.91
MW - 7	05/23/23	3391.21	-	47.26	0.00	3,343.95
MW - 7	08/03/23	3391.21	-	47.59	0.00	3,343.62
MW - 7	08/14/23	3391.21	-	47.65	0.00	3,343.56
MW - 7	11/15/23	3391.21	-	47.76	0.00	3,343.45
MW - 8	11/29/99	3391.14	-	46.42	0.00	3,344.72
MW - 8	03/09/00	3391.14	-	47.37	0.00	3,343.77
MW - 8	05/11/00	3391.14	-	47.20	0.00	3,343.94
MW - 8	09/12/00	3391.14	-	47.11	0.00	3,344.03
MW - 8	12/14/00	3391.14	-	46.75	0.00	3,344.39
MW - 8	03/21/01	3391.14	-	46.38	0.00	3,344.76
MW - 8	05/30/01	3391.14	-	47.16	0.00	3,343.98
MW - 8	06/21/01	3391.14	-	47.42	0.00	3,343.72
MW - 8	09/25/01	3391.14	-	47.50	0.00	3,343.64
MW - 8	11/17/01	3391.14	-	47.05	0.00	3,344.09
MW - 8	02/20/02	3391.14	-	46.80	0.00	3,344.34
MW - 8	05/20/02	3391.14	-	47.38	0.00	3,343.76
MW - 8	09/24/02	3391.14	-	48.29	0.00	3,342.85
MW - 8	10/29/02	3391.14	-	48.58	0.00	3,342.56
MW - 8	11/13/02	3391.14	-	48.69	0.00	3,342.45
MW - 8	02/06/03	3391.14	-	48.68	0.00	3,342.46
MW - 8	05/08/03	3391.14	-	48.33	0.00	3,342.81
MW - 8	08/19/03	3391.14	-	48.58	0.00	3,342.56
MW - 8	11/07/03	3391.14	-	48.84	0.00	3,342.30
MW - 8	02/09/04	3391.14	-	47.46	0.00	3,343.68
MW - 8	05/04/04	3391.14	-	48.25	0.00	3,342.89
MW - 8	08/23/04	3391.14	-	49.15	0.00	3,341.99
MW - 8	12/04/04	3391.14	-	47.50	0.00	3,343.64
MW - 8	03/07/05	3391.14	-	46.97	0.00	3,344.17
MW - 8	06/07/05	3391.14	-	47.12	0.00	3,344.02
MW - 8	09/07/05	3391.14	-	47.19	0.00	3,343.95
MW - 8	12/14/05	3391.14	-	46.47	0.00	3,344.67
MW - 8	06/05/06	3391.14	-	47.89	0.00	3,343.25
MW - 8	09/11/06	3391.14	-	46.54	0.00	3,344.60
MW - 8	11/21/06	3391.14	-	46.63	0.00	3,344.51
MW - 8	02/20/07	3391.14	-	46.44	0.00	3,344.70
MW - 8	05/15/07	3391.14	-	46.69	0.00	3,344.45
MW - 8	08/09/07	3391.14	-	46.40	0.00	3,344.74
MW - 8	11/13/07	3391.14	-	46.67	0.00	3,344.47
MW - 8	02/14/08	3391.14	-	46.84	0.00	3,344.30
MW - 8	05/16/08	3391.14	-	46.23	0.00	3,344.91
MW - 8	08/19/08	3391.14	-	46.81	0.00	3,344.33

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 8	11/19/08	3391.14	-	46.91	0.00	3,344.23
MW - 8	02/18/09	3391.14	-	46.09	0.00	3,345.05
MW - 8	05/19/09	3391.14	-	46.93	0.00	3,344.21
MW - 8	08/13/09	3391.14	-	47.13	0.00	3,344.01
MW - 8	11/11/09	3391.14	-	47.20	0.00	3,343.94
MW - 8	01/12/10	3391.14	-	47.18	0.00	3,343.96
MW - 8	02/04/10	3391.14	-	47.31	0.00	3,343.83
MW - 8	05/07/10	3391.14	-	47.43	0.00	3,343.71
MW - 8	08/06/10	3391.14	-	47.42	0.00	3,343.72
MW - 8	11/05/10	3391.14	-	47.41	0.00	3,343.73
MW - 8	02/11/11	3391.14	-	47.40	0.00	3,343.74
MW - 8	05/09/11	3391.14	-	47.38	0.00	3,343.76
MW - 8	08/05/11	3391.14	-	47.39	0.00	3,343.75
MW - 8	11/17/11	3391.14	-	48.58	0.00	3,342.56
MW - 8	02/28/12	3391.14	-	48.32	0.00	3,342.82
MW - 8	05/03/12	3391.14	-	48.35	0.00	3,342.79
MW - 8	08/24/12	3391.14	-	48.61	0.00	3,342.53
MW - 8	11/15/12	3391.14	-	48.53	0.00	3,342.61
MW - 8	02/14/13	3391.14	-	48.39	0.00	3,342.75
MW - 8	05/28/13	3391.14	-	48.34	0.00	3,342.80
MW - 8	08/06/13	3391.14	-	48.11	0.00	3,343.03
MW - 8	11/07/13	3391.14	-	49.06	0.00	3,342.08
MW - 8	03/05/14	3391.14	-	49.09	0.00	3,342.05
MW - 8	05/29/14	3391.14	-	49.10	0.00	3,342.04
MW - 8	07/23/14	3391.14	-	49.36	0.00	3,341.78
MW - 8	08/12/14	3391.14	-	49.37	0.00	3,341.77
MW - 8	10/28/14	3391.14	-	49.17	0.00	3,341.97
MW - 8	11/15/14	3391.14	-	49.06	0.00	3,342.08
MW - 8	02/16/15	3391.14	-	48.70	0.00	3,342.44
MW - 8	03/18/15	3391.14	-	48.60	0.00	3,342.54
MW - 8	04/08/15	3391.14	-	48.48	0.00	3,342.66
MW - 8	05/28/15	3391.14	-	48.24	0.00	3,342.90
MW - 8	07/09/15	3391.14	-	48.21	0.00	3,342.93
MW - 8	08/26/15	3391.14	-	48.38	0.00	3,342.76
MW - 8	09/11/15	3391.14	-	48.48	0.00	3,342.66
MW - 8	09/25/15	3391.14	-	48.60	0.00	3,342.54
MW - 8	10/09/15	3391.14	-	48.65	0.00	3,342.49
MW - 8	10/15/15	3391.14	-	48.58	0.00	3,342.56
MW - 8	11/20/15	3391.14	-	48.56	0.00	3,342.58
MW - 8	12/11/15	3391.14	-	48.41	0.00	3,342.73
MW - 8	01/13/16	3391.14	-	48.21	0.00	3,342.93
MW - 8	02/17/16	3391.14	-	48.05	0.00	3,343.09
MW - 8	03/18/16	3391.14	-	48.03	0.00	3,343.11
MW - 8	04/08/16	3391.14	-	47.98	0.00	3,343.16

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 8	04/12/16	3391.14	-	48.02	0.00	3,343.12
MW - 8	05/03/16	3391.14	-	47.92	0.00	3,343.22
MW - 8	05/26/16	3391.14	-	47.88	0.00	3,343.26
MW - 8	06/09/16	3391.14	-	47.92	0.00	3,343.22
MW - 8	07/01/16	3391.14	-	47.94	0.00	3,343.20
MW - 8	07/20/16	3391.14	-	48.01	0.00	3,343.13
MW - 8	08/04/16	3391.14	-	48.02	0.00	3,343.12
MW - 8	09/28/16	3391.14	-	48.09	0.00	3,343.05
MW - 8	11/29/16	3391.14	-	47.82	0.00	3,343.32
MW - 8	12/16/16	3391.14	-	47.72	0.00	3,343.42
MW - 8	01/26/17	3391.14	-	47.70	0.00	3,343.44
MW - 8	02/27/17	3391.14	-	47.55	0.00	3,343.59
MW - 8	03/30/17	3391.14	-	47.51	0.00	3,343.63
MW - 8	04/21/17	3391.14	-	47.44	0.00	3,343.70
MW - 8	05/18/17	3391.14	-	47.40	0.00	3,343.74
MW - 8	07/20/17	3391.14	-	47.39	0.00	3,343.75
MW - 8	08/29/17	3391.14	-	47.31	0.00	3,343.83
MW - 8	10/13/17	3391.14	-	47.22	0.00	3,343.92
MW - 8	10/20/17	3391.14	-	47.22	0.00	3,343.92
MW - 8	11/07/17	3391.14	-	47.22	0.00	3,343.92
MW - 8	01/31/18	3391.14	-	47.01	0.00	3,344.13
MW - 8	02/22/18	3391.14	-	47.08	0.00	3,344.06
MW - 8	03/15/18	3391.14	-	47.02	0.00	3,344.12
MW - 8	04/20/18	3391.14	-	47.02	0.00	3,344.12
MW - 8	05/23/18	3391.14	-	47.00	0.00	3,344.14
MW - 8	06/27/18	3391.14	-	47.09	0.00	3,344.05
MW - 8	07/31/18	3391.14	-	47.23	0.00	3,343.91
MW - 8	08/29/18	3391.14	-	47.28	0.00	3,343.86
MW - 8	09/28/18	3391.14	-	47.27	0.00	3,343.87
MW - 8	11/29/18	3391.14	-	47.14	0.00	3,344.00
MW - 8	12/13/18	3391.14	-	47.19	0.00	3,343.95
MW - 8	01/03/19	3391.14	-	47.10	0.00	3,344.04
MW - 8	03/05/19	3391.14	-	47.09	0.00	3,344.05
MW - 8	03/20/19	3391.14	-	47.04	0.00	3,344.10
MW - 8	04/04/19	3391.14	-	46.98	0.00	3,344.16
MW - 8	06/11/19	3391.14	-	46.88	0.00	3,344.26
MW - 8	07/15/19	3391.14	-	46.84	0.00	3,344.30
MW - 8	08/15/19	3391.14	-	46.85	0.00	3,344.29
MW - 8	11/25/19	3391.14	-	46.59	0.00	3,344.55
MW - 8	12/12/19	3391.14	-	46.64	0.00	3,344.50
MW - 8	01/24/20	3391.14	-	46.61	0.00	3,344.53
MW - 8	02/25/20	3391.14	-	46.64	0.00	3,344.50
MW - 8	05/28/20	3391.14	-	46.52	0.00	3,344.62
MW - 8	06/15/20	3391.14	-	46.50	0.00	3,344.64

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 8	08/27/20	3391.14	-	46.62	0.00	3,344.52
MW - 8	09/10/20	3391.14	-	46.74	0.00	3,344.40
MW - 8	10/21/20	3391.14	-	46.70	0.00	3,344.44
MW - 8	12/01/20	3391.14	-	46.57	0.00	3,344.57
MW - 8	01/06/21	3391.14	-	46.63	0.00	3,344.51
MW - 8	02/04/21	3391.14	-	46.62	0.00	3,344.52
MW - 8	04/26/21	3391.14	-	46.37	0.00	3,344.77
MW - 8	06/17/21	3391.14	-	46.53	0.00	3,344.61
MW - 8	07/28/21	3391.14	-	46.59	0.00	3,344.55
MW - 8	08/19/21	3391.14	-	46.64	0.00	3,344.50
MW - 8	09/24/21	3391.14	-	46.74	0.00	3,344.40
MW - 8	10/18/21	3391.14	-	46.78	0.00	3,344.36
MW - 8	11/30/21	3391.14	-	46.82	0.00	3,344.32
MW - 8	01/17/22	3391.14	-	46.80	0.00	3,344.34
MW - 8	03/02/22	3391.14	-	46.86	0.00	3,344.28
MW - 8	04/08/22	3391.14	-	46.93	0.00	3,344.21
MW - 8	05/25/22	3391.14	-	46.95	0.00	3,344.19
MW - 8	09/12/22	3391.14	-	47.35	0.00	3,343.79
MW - 8	11/28/22	3391.14	-	47.35	0.00	3,343.79
MW - 8	02/20/23	3391.14	-	47.30	0.00	3,343.84
MW - 8	05/23/23	3391.14	-	47.28	0.00	3,343.86
MW - 8	08/03/23	3391.14	-	47.58	0.00	3,343.56
MW - 8	08/14/23	3391.14	-	47.63	0.00	3,343.51
MW - 8	11/15/23	3391.14	-	47.76	0.00	3,343.38
MW - 9	11/29/99	3391.47	-	46.65	0.00	3,344.82
MW - 9	03/09/00	3391.47	-	47.56	0.00	3,343.91
MW - 9	05/11/00	3391.47	-	47.44	0.00	3,344.03
MW - 9	09/12/00	3391.47	-	47.38	0.00	3,344.09
MW - 9	12/14/00	3391.47	-	46.86	0.00	3,344.61
MW - 9	03/21/01	3391.47	-	46.61	0.00	3,344.86
MW - 9	05/30/01	3391.47	-	47.33	0.00	3,344.14
MW - 9	06/21/01	3391.47	-	47.50	0.00	3,343.97
MW - 9	09/25/01	3391.47	-	47.55	0.00	3,343.92
MW - 9	11/17/01	3391.47	-	47.21	0.00	3,344.26
MW - 9	02/20/02	3391.47	-	47.03	0.00	3,344.44
MW - 9	05/20/02	3391.47	-	47.58	0.00	3,343.89
MW - 9	09/24/02	3391.47	48.27	48.88	0.61	3,343.11
MW - 9	10/29/02	3391.47	48.48	49.18	0.70	3,342.89
MW - 9	11/06/02	3391.47	48.62	49.06	0.44	3,342.78
MW - 9	11/13/02	3391.47	48.95	49.08	0.13	3,342.50
MW - 9	01/07/03	3391.47	sheen	48.69	0.00	3,342.78
MW - 9	01/13/03	3391.47	sheen	48.67	0.00	3,342.80
MW - 9	01/27/03	3391.47	48.80	48.83	0.03	3,342.67

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	02/06/03	3391.47	48.90	49.00	0.10	3,342.56
MW - 9	03/11/03	3391.47	sheen	48.57	0.00	3,342.90
MW - 9	03/19/03	3391.47	sheen	48.29	0.00	3,343.18
MW - 9	04/02/03	3391.47	sheen	48.27	0.00	3,343.20
MW - 9	04/16/03	3391.47	sheen	48.45	0.00	3,343.02
MW - 9	04/23/03	3391.47	sheen	48.31	0.00	3,343.16
MW - 9	04/29/03	3391.47	sheen	48.35	0.00	3,343.12
MW - 9	05/08/03	3391.47	sheen	48.44	0.00	3,343.03
MW - 9	05/15/03	3391.47	sheen	48.74	0.00	3,342.73
MW - 9	05/20/03	3391.47	sheen	48.91	0.00	3,342.56
MW - 9	05/27/03	3391.47	sheen	48.99	0.00	3,342.48
MW - 9	06/03/03	3391.47	48.84	48.85	0.01	3,342.63
MW - 9	06/10/03	3391.47	49.10	49.12	0.02	3,342.37
MW - 9	06/25/03	3391.47	49.14	49.19	0.05	3,342.32
MW - 9	07/02/03	3391.47	49.19	49.21	0.02	3,342.28
MW - 9	07/07/03	3391.47	49.18	49.19	0.01	3,342.29
MW - 9	07/22/03	3391.47	sheen	48.81	0.00	3,342.66
MW - 9	07/30/03	3391.47	sheen	48.57	0.00	3,342.90
MW - 9	08/06/03	3391.47	sheen	48.53	0.00	3,342.94
MW - 9	08/13/03	3391.47	sheen	48.97	0.00	3,342.50
MW - 9	08/19/03	3391.47	sheen	48.69	0.00	3,342.78
MW - 9	08/20/03	3391.47	sheen	49.09	0.00	3,342.38
MW - 9	08/25/03	3391.47	sheen	49.17	0.00	3,342.30
MW - 9	09/08/03	3391.47	sheen	49.58	0.00	3,341.89
MW - 9	09/15/03	3391.47	sheen	49.55	0.00	3,341.92
MW - 9	09/24/03	3391.47	sheen	49.90	0.00	3,341.57
MW - 9	09/30/03	3391.47	sheen	49.51	0.00	3,341.96
MW - 9	10/07/03	3391.47	sheen	49.70	0.00	3,341.77
MW - 9	10/22/03	3391.47	sheen	49.40	0.00	3,342.07
MW - 9	10/27/03	3391.47	sheen	49.31	0.00	3,342.16
MW - 9	11/07/03	3391.47	49.70	49.71	0.01	3,341.77
MW - 9	11/10/03	3391.47	sheen	49.52	0.00	3,341.95
MW - 9	11/17/03	3391.47	sheen	48.82	0.00	3,342.65
MW - 9	12/08/03	3391.47	sheen	48.13	0.00	3,343.34
MW - 9	12/17/03	3391.47	sheen	48.81	0.00	3,342.66
MW - 9	12/22/03	3391.47	49.62	49.63	0.01	3,341.85
MW - 9	01/02/04	3391.47	sheen	47.55	0.00	3,343.92
MW - 9	01/06/04	3391.47	sheen	49.61	0.00	3,341.86
MW - 9	01/19/04	3391.47	sheen	48.05	0.00	3,343.42
MW - 9	01/26/04	3391.47	sheen	48.10	0.00	3,343.37
MW - 9	02/02/04	3391.47	sheen	48.04	0.00	3,343.43
MW - 9	02/09/04	3391.47	sheen	47.63	0.00	3,343.84
MW - 9	02/19/04	3391.47	sheen	47.75	0.00	3,343.72
MW - 9	02/23/04	3391.47	sheen	47.65	0.00	3,343.82

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	03/01/04	3391.47	sheen	47.61	0.00	3,343.86
MW - 9	03/10/04	3391.47	sheen	47.64	0.00	3,343.83
MW - 9	03/15/04	3391.47	sheen	48.20	0.00	3,343.27
MW - 9	03/23/04	3391.47	sheen	48.61	0.00	3,342.86
MW - 9	03/30/04	3391.47	sheen	48.22	0.00	3,343.25
MW - 9	04/12/04	3391.47	sheen	48.76	0.00	3,342.71
MW - 9	04/20/04	3391.47	sheen	48.31	0.00	3,343.16
MW - 9	05/03/04	3391.47	sheen	48.75	0.00	3,342.72
MW - 9	05/04/04	3391.47	sheen	48.75	0.00	3,342.72
MW - 9	06/09/04	3391.47	sheen	48.71	0.00	3,342.76
MW - 9	06/16/04	3391.47	sheen	48.74	0.00	3,342.73
MW - 9	06/23/04	3391.47	sheen	48.78	0.00	3,342.69
MW - 9	06/30/04	3391.47	sheen	48.14	0.00	3,343.33
MW - 9	07/13/04	3391.47	sheen	48.97	0.00	3,342.50
MW - 9	07/22/04	3391.47	sheen	49.07	0.00	3,342.40
MW - 9	08/23/04	3391.47	-	49.26	0.00	3,342.21
MW - 9	12/04/04	3391.47	-	48.73	0.00	3,342.74
MW - 9	03/07/05	3391.47	-	47.25	0.00	3,344.22
MW - 9	06/07/05	3391.47	sheen	47.23	0.00	3,344.24
MW - 9	09/07/05	3391.47	sheen	47.23	0.00	3,344.24
MW - 9	12/14/05	3391.47	-	46.65	0.00	3,344.82
MW - 9	03/06/06	3391.47	sheen	46.43	0.00	3,345.04
MW - 9	04/13/06	3391.47	sheen	46.25	0.00	3,345.22
MW - 9	04/19/06	3391.47	sheen	46.40	0.00	3,345.07
MW - 9	05/25/06	3391.47	sheen	46.17	0.00	3,345.30
MW - 9	06/05/06	3391.47	-	46.12	0.00	3,345.35
MW - 9	09/11/06	3391.47	-	46.66	0.00	3,344.81
MW - 9	10/31/06	3391.47	sheen	46.88	0.00	3,344.59
MW - 9	11/16/06	3391.47	sheen	46.69	0.00	3,344.78
MW - 9	11/21/06	3391.47	sheen	46.68	0.00	3,344.79
MW - 9	01/26/07	3391.47	sheen	46.58	0.00	3,344.89
MW - 9	01/31/07	3391.47	sheen	46.47	0.00	3,345.00
MW - 9	02/15/07	3391.47	-	46.54	0.00	3,344.93
MW - 9	02/20/07	3391.47	-	46.49	0.00	3,344.98
MW - 9	05/15/07	3391.47	-	46.66	0.00	3,344.81
MW - 9	08/09/07	3391.47	-	46.40	0.00	3,345.07
MW - 9	11/13/07	3391.47	-	46.61	0.00	3,344.86
MW - 9	02/14/08	3391.47	-	46.73	0.00	3,344.74
MW - 9	05/16/08	3391.47	-	46.25	0.00	3,345.22
MW - 9	08/19/08	3391.47	-	46.76	0.00	3,344.71
MW - 9	10/09/08	3391.47	-	46.93	0.00	3,344.54
MW - 9	10/23/08	3391.47	-	46.89	0.00	3,344.58
MW - 9	10/28/08	3391.47	-	46.88	0.00	3,344.59
MW - 9	11/19/08	3391.47	-	46.83	0.00	3,344.64

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	12/29/08	3391.47	-	-	-	-
MW - 9	02/18/09	3391.47	-	46.15	0.00	3,345.32
MW - 9	03/03/09	3391.47	-	46.28	0.00	3,345.19
MW - 9	03/10/09	3391.47	-	46.38	0.00	3,345.09
MW - 9	03/18/09	3391.47	-	46.44	0.00	3,345.03
MW - 9	03/27/09	3391.47	-	46.45	0.00	3,345.02
MW - 9	04/07/09	3391.47	-	46.62	0.00	3,344.85
MW - 9	04/14/09	3391.47	-	46.64	0.00	3,344.83
MW - 9	04/28/09	3391.47	-	46.77	0.00	3,344.70
MW - 9	05/19/09	3391.47	-	46.89	0.00	3,344.58
MW - 9	06/18/09	3391.47	-	47.09	0.00	3,344.38
MW - 9	06/30/09	3391.47	-	46.26	0.00	3,345.21
MW - 9	07/07/09	3391.47	-	47.09	0.00	3,344.38
MW - 9	07/14/09	3391.47	-	47.10	0.00	3,344.37
MW - 9	07/28/09	3391.47	-	47.12	0.00	3,344.35
MW - 9	08/07/09	3391.47	-	47.14	0.00	3,344.33
MW - 9	08/13/09	3391.47	-	47.05	0.00	3,344.42
MW - 9	09/10/09	3391.47	-	47.10	0.00	3,344.37
MW - 9	09/18/09	3391.47	-	47.17	0.00	3,344.30
MW - 9	09/29/09	3391.47	-	47.14	0.00	3,344.33
MW - 9	10/06/09	3391.47	-	47.13	0.00	3,344.34
MW - 9	10/20/09	3391.47	-	47.11	0.00	3,344.36
MW - 9	10/27/09	3391.47	-	47.10	0.00	3,344.37
MW - 9	11/11/09	3391.47	-	47.16	0.00	3,344.31
MW - 9	12/22/09	3391.47	-	47.09	0.00	3,344.38
MW - 9	01/12/10	3391.47	-	47.11	0.00	3,344.36
MW - 9	02/04/10	3391.47	-	47.24	0.00	3,344.23
MW - 9	03/03/10	3391.47	-	47.44	0.00	3,344.03
MW - 9	04/15/10	3391.47	-	47.48	0.00	3,343.99
MW - 9	05/07/10	3391.47	-	47.32	0.00	3,344.15
MW - 9	06/25/10	3391.47	-	47.45	0.00	3,344.02
MW - 9	08/06/10	3391.47	-	47.31	0.00	3,344.16
MW - 9	11/05/10	3391.47	-	47.30	0.00	3,344.17
MW - 9	02/11/11	3391.47	-	47.33	0.00	3,344.14
MW - 9	05/09/11	3391.47	-	47.30	0.00	3,344.17
MW - 9	08/05/11	3391.47	-	47.30	0.00	3,344.17
MW - 9	11/17/11	3391.47	-	48.53	0.00	3,342.94
MW - 9	02/28/12	3391.47	-	48.26	0.00	3,343.21
MW - 9	05/03/12	3391.47	-	48.23	0.00	3,343.24
MW - 9	08/24/12	3391.47	-	48.58	0.00	3,342.89
MW - 9	11/15/12	3391.47	-	48.39	0.00	3,343.08
MW - 9	01/14/13	3391.47	-	48.27	0.00	3,343.20
MW - 9	02/14/13	3391.47	-	48.23	0.00	3,343.24
MW - 9	03/29/13	3391.47	-	48.17	0.00	3,343.30

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	04/19/13	3391.47	-	48.19	0.00	3,343.28
MW - 9	04/30/13	3391.47	-	48.14	0.00	3,343.33
MW - 9	05/23/13	3391.47	-	48.24	0.00	3,343.23
MW - 9	05/28/13	3391.47	-	48.20	0.00	3,343.27
MW - 9	05/30/13	3391.47	-	48.21	0.00	3,343.26
MW - 9	06/06/13	3391.47	-	48.32	0.00	3,343.15
MW - 9	06/13/13	3391.47	-	48.35	0.00	3,343.12
MW - 9	06/19/13	3391.47	-	48.31	0.00	3,343.16
MW - 9	07/30/13	3391.47	-	48.58	0.00	3,342.89
MW - 9	08/06/13	3391.47	-	48.54	0.00	3,342.93
MW - 9	08/09/13	3391.47	-	48.63	0.00	3,342.84
MW - 9	08/30/13	3391.47	-	48.69	0.00	3,342.78
MW - 9	09/12/13	3391.47	-	48.73	0.00	3,342.74
MW - 9	10/03/13	3391.47	-	48.74	0.00	3,342.73
MW - 9	11/01/13	3391.47	-	48.85	0.00	3,342.62
MW - 9	11/07/13	3391.47	-	48.87	0.00	3,342.60
MW - 9	12/10/13	3391.47	-	48.80	0.00	3,342.67
MW - 9	01/01/14	3391.47	-	48.70	0.00	3,342.77
MW - 9	01/16/14	3391.47	-	48.75	0.00	3,342.72
MW - 9	01/23/14	3391.47	-	48.88	0.00	3,342.59
MW - 9	01/28/14	3391.47	-	48.90	0.00	3,342.57
MW - 9	02/11/14	3391.47	-	48.86	0.00	3,342.61
MW - 9	03/05/14	3391.47	-	48.82	0.00	3,342.65
MW - 9	03/13/14	3391.47	-	48.84	0.00	3,342.63
MW - 9	03/29/14	3391.47	-	48.79	0.00	3,342.68
MW - 9	04/08/14	3391.47	-	48.85	0.00	3,342.62
MW - 9	04/17/14	3391.47	-	48.81	0.00	3,342.66
MW - 9	04/25/14	3391.47	-	48.73	0.00	3,342.74
MW - 9	05/08/14	3391.47	-	48.72	0.00	3,342.75
MW - 9	05/14/14	3391.47	-	48.70	0.00	3,342.77
MW - 9	05/27/14	3391.47	-	48.81	0.00	3,342.66
MW - 9	05/29/14	3391.47	-	48.82	0.00	3,342.65
MW - 9	06/18/14	3391.47	-	48.77	0.00	3,342.70
MW - 9	07/23/14	3391.47	-	49.10	0.00	3,342.37
MW - 9	08/12/14	3391.47	-	49.13	0.00	3,342.34
MW - 9	10/28/14	3391.47	-	48.97	0.00	3,342.50
MW - 9	11/15/14	3391.47	-	48.85	0.00	3,342.62
MW - 9	02/16/15	3391.47	-	48.49	0.00	3,342.98
MW - 9	03/18/15	3391.47	-	48.34	0.00	3,343.13
MW - 9	04/08/15	3391.47	-	48.22	0.00	3,343.25
MW - 9	05/28/15	3391.47	-	48.00	0.00	3,343.47
MW - 9	07/09/15	3391.47	-	47.99	0.00	3,343.48
MW - 9	08/26/15	3391.47	-	48.18	0.00	3,343.29
MW - 9	09/11/15	3391.47	-	48.26	0.00	3,343.21

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	09/25/15	3391.47	-	48.38	0.00	3,343.09
MW - 9	10/09/15	3391.47	-	48.42	0.00	3,343.05
MW - 9	10/15/15	3391.47	-	48.38	0.00	3,343.09
MW - 9	11/20/15	3391.47	-	48.34	0.00	3,343.13
MW - 9	12/11/15	3391.47	-	48.18	0.00	3,343.29
MW - 9	01/13/16	3391.47	-	48.00	0.00	3,343.47
MW - 9	02/17/16	3391.47	-	47.79	0.00	3,343.68
MW - 9	03/18/16	3391.47	-	47.72	0.00	3,343.75
MW - 9	04/08/16	3391.47	-	47.69	0.00	3,343.78
MW - 9	04/12/16	3391.47	-	47.73	0.00	3,343.74
MW - 9	05/03/16	3391.47	-	47.64	0.00	3,343.83
MW - 9	05/26/16	3391.47	-	47.62	0.00	3,343.85
MW - 9	06/09/16	3391.47	-	47.72	0.00	3,343.75
MW - 9	07/01/16	3391.47	-	47.72	0.00	3,343.75
MW - 9	07/20/16	3391.47	-	47.81	0.00	3,343.66
MW - 9	08/04/16	3391.47	-	47.81	0.00	3,343.66
MW - 9	09/28/16	3391.47	-	47.89	0.00	3,343.58
MW - 9	11/29/16	3391.47	-	47.62	0.00	3,343.85
MW - 9	12/16/16	3391.47	-	47.55	0.00	3,343.92
MW - 9	01/26/17	3391.47	-	47.50	0.00	3,343.97
MW - 9	02/27/17	3391.47	-	47.36	0.00	3,344.11
MW - 9	03/30/17	3391.47	-	47.31	0.00	3,344.16
MW - 9	04/21/17	3391.47	-	47.25	0.00	3,344.22
MW - 9	05/18/17	3391.47	-	47.21	0.00	3,344.26
MW - 9	08/29/17	3391.47	-	47.12	0.00	3,344.35
MW - 9	10/13/17	3391.47	-	47.03	0.00	3,344.44
MW - 9	10/20/17	3391.47	-	47.03	0.00	3,344.44
MW - 9	11/07/17	3391.47	-	47.03	0.00	3,344.44
MW - 9	01/31/18	3391.47	-	46.85	0.00	3,344.62
MW - 9	02/22/18	3391.47	-	46.90	0.00	3,344.57
MW - 9	03/15/18	3391.47	-	46.85	0.00	3,344.62
MW - 9	04/20/18	3391.47	-	46.85	0.00	3,344.62
MW - 9	05/22/18	3391.47	-	46.85	0.00	3,344.62
MW - 9	06/27/18	3391.47	-	46.94	0.00	3,344.53
MW - 9	07/31/18	3391.47	-	47.07	0.00	3,344.40
MW - 9	08/29/18	3391.47	-	47.14	0.00	3,344.33
MW - 9	09/28/18	3391.47	-	47.13	0.00	3,344.34
MW - 9	11/29/18	3391.47	-	47.02	0.00	3,344.45
MW - 9	12/13/18	3391.47	-	47.05	0.00	3,344.42
MW - 9	01/03/19	3391.47	-	46.95	0.00	3,344.52
MW - 9	03/05/19	3391.47	-	46.92	0.00	3,344.55
MW - 9	03/20/19	3391.47	-	46.88	0.00	3,344.59
MW - 9	04/04/19	3391.47	-	46.81	0.00	3,344.66
MW - 9	06/11/19	3391.47	-	46.73	0.00	3,344.74

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	07/15/19	3391.47	-	46.70	0.00	3,344.77
MW - 9	08/15/19	3391.47	-	46.68	0.00	3,344.79
MW - 9	11/25/19	3391.47	-	46.43	0.00	3,345.04
MW - 9	12/12/19	3391.47	-	46.48	0.00	3,344.99
MW - 9	01/24/20	3391.47	-	46.46	0.00	3,345.01
MW - 9	02/25/20	3391.47	-	46.49	0.00	3,344.98
MW - 9	05/28/20	3391.47	-	46.34	0.00	3,345.13
MW - 9	06/15/20	3391.47	-	46.35	0.00	3,345.12
MW - 9	08/27/20	3391.47	-	46.47	0.00	3,345.00
MW - 9	09/10/20	3391.47	-	46.58	0.00	3,344.89
MW - 9	10/21/20	3391.47	-	46.55	0.00	3,344.92
MW - 9	12/01/20	3391.47	-	46.44	0.00	3,345.03
MW - 9	01/06/21	3391.47	-	46.49	0.00	3,344.98
MW - 9	02/04/21	3391.47	-	46.48	0.00	3,344.99
MW - 9	04/26/21	3391.47	-	46.19	0.00	3,345.28
MW - 9	06/16/21	3391.47	-	46.27	0.00	3,345.20
MW - 9	07/28/21	3391.47	-	46.44	0.00	3,345.03
MW - 9	08/19/21	3391.47	-	46.51	0.00	3,344.96
MW - 9	09/24/21	3391.47	-	46.61	0.00	3,344.86
MW - 9	10/18/21	3391.47	-	46.65	0.00	3,344.82
MW - 9	11/30/21	3391.47	-	46.66	0.00	3,344.81
MW - 9	01/17/22	3391.47	-	46.66	0.00	3,344.81
MW - 9	03/02/22	3391.47	-	46.74	0.00	3,344.73
MW - 9	04/08/22	3391.47	-	46.80	0.00	3,344.67
MW - 9	05/25/22	3391.47	-	46.82	0.00	3,344.65
MW - 9	09/12/22	3391.47	-	47.24	0.00	3,344.23
MW - 9	11/28/22	3391.47	-	47.23	0.00	3,344.24
MW - 9	02/20/23	3391.47	-	47.19	0.00	3,344.28
MW - 9	05/23/23	3391.47	-	47.18	0.00	3,344.29
MW - 9	08/03/23	3391.47	-	47.47	0.00	3,344.00
MW - 9	08/14/23	3391.47	-	47.58	0.00	3,343.89
MW - 9	11/15/23	3391.47	-	47.65	0.00	3,343.82
MW - 10	11/29/99	3391.26	46.26	47.23	0.97	3,344.85
MW - 10	03/09/00	3391.26	47.17	48.59	1.42	3,343.88
MW - 10	05/11/00	3391.26	46.67	47.69	1.02	3,344.44
MW - 10	09/12/00	3391.26	46.86	47.51	0.65	3,344.30
MW - 10	12/14/00	3391.26	46.61	47.51	0.90	3,344.52
MW - 10	03/21/01	3391.26	47.17	48.59	1.42	3,343.88
MW - 10	05/30/01	3391.26	46.99	48.40	1.41	3,344.06
MW - 10	09/25/01	3391.26	47.18	49.57	2.39	3,343.72
MW - 10	11/17/01	3391.26	46.61	47.51	0.90	3,344.52
MW - 10	02/20/02	3391.26	46.76	47.88	1.12	3,344.33
MW - 10	05/20/02	3391.26	47.44	47.61	0.17	3,343.79

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	09/24/02	3391.26	47.81	50.60	2.79	3,343.03
MW - 10	10/29/02	3391.26	48.01	50.77	2.76	3,342.84
MW - 10	11/06/02	3391.26	48.61	50.06	1.45	3,342.43
MW - 10	01/07/03	3391.26	48.52	48.55	0.03	3,342.74
MW - 10	01/13/03	3391.26	48.46	48.50	0.04	3,342.79
MW - 10	01/27/03	3391.26	48.30	50.03	1.73	3,342.70
MW - 10	02/06/03	3391.26	48.42	49.98	1.56	3,342.61
MW - 10	02/19/03	3391.26	48.25	49.92	1.67	3,342.76
MW - 10	03/05/03	3391.26	48.49	50.79	2.30	3,342.43
MW - 10	03/11/03	3391.26	48.00	48.75	0.75	3,343.15
MW - 10	03/19/03	3391.26	48.05	48.72	0.67	3,343.11
MW - 10	03/25/03	3391.26	46.14	47.92	1.78	3,344.85
MW - 10	04/02/03	3391.26	sheen	48.28	0.00	3,342.98
MW - 10	04/16/03	3391.26	sheen	48.32	0.00	3,342.94
MW - 10	04/23/03	3391.26	48.14	48.22	0.08	3,343.11
MW - 10	04/29/03	3391.26	48.13	48.41	0.28	3,343.09
MW - 10	05/08/03	3391.26	48.12	49.31	1.19	3,342.96
MW - 10	05/15/03	3391.26	48.24	49.84	1.60	3,342.78
MW - 10	05/20/03	3391.26	48.41	50.26	1.85	3,342.57
MW - 10	05/27/03	3391.26	48.53	49.42	0.89	3,342.60
MW - 10	06/03/03	3391.26	48.38	50.59	2.21	3,342.55
MW - 10	06/10/03	3391.26	48.67	50.07	1.40	3,342.38
MW - 10	06/25/03	3391.26	48.69	50.94	2.25	3,342.23
MW - 10	07/02/03	3391.26	48.82	51.06	2.24	3,342.10
MW - 10	07/07/03	3391.26	48.90	50.02	1.12	3,342.19
MW - 10	07/22/03	3391.26	48.59	48.97	0.38	3,342.61
MW - 10	07/30/03	3391.26	48.15	49.41	1.26	3,342.92
MW - 10	08/06/03	3391.26	48.30	48.49	0.19	3,342.93
MW - 10	08/13/03	3391.26	48.49	49.27	0.78	3,342.65
MW - 10	08/19/03	3391.26	48.43	49.26	0.83	3,342.71
MW - 10	08/20/03	3391.26	48.78	49.69	0.91	3,342.34
MW - 10	08/25/03	3391.26	48.87	50.05	1.18	3,342.21
MW - 10	09/08/03	3391.26	49.12	49.82	0.70	3,342.04
MW - 10	09/15/03	3391.26	49.10	49.91	0.81	3,342.04
MW - 10	09/24/03	3391.26	49.34	49.78	0.44	3,341.85
MW - 10	09/30/03	3391.26	49.10	50.45	1.35	3,341.96
MW - 10	10/07/03	3391.26	49.17	50.82	1.65	3,341.84
MW - 10	10/22/03	3391.26	49.00	50.74	1.74	3,342.00
MW - 10	10/27/03	3391.26	40.98	50.66	9.68	3,348.83
MW - 10	11/07/03	3391.26	49.14	50.78	1.64	3,341.87
MW - 10	11/10/03	3391.26	49.08	50.58	1.50	3,341.96
MW - 10	11/17/03	3391.26	48.49	49.49	1.00	3,342.62
MW - 10	12/08/03	3391.26	47.23	47.71	0.48	3,343.96
MW - 10	12/17/03	3391.26	48.47	49.53	1.06	3,342.63

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	12/22/03	3391.26	49.11	50.86	1.75	3,341.89
MW - 10	01/02/04	3391.26	47.25	47.26	0.01	3,344.01
MW - 10	01/06/04	3391.26	49.14	50.74	1.60	3,341.88
MW - 10	01/19/04	3391.26	-	47.81	0.00	3,343.45
MW - 10	01/26/04	3391.26	47.89	47.90	0.01	3,343.37
MW - 10	02/02/04	3391.26	47.87	47.87	0.00	3,343.39
MW - 10	02/09/04	3391.26	47.51	47.63	0.12	3,343.73
MW - 10	02/19/04	3391.26	47.60	47.60	0.00	3,343.66
MW - 10	02/23/04	3391.26	47.52	47.65	0.13	3,343.72
MW - 10	03/01/04	3391.26	47.50	47.61	0.11	3,343.74
MW - 10	03/10/04	3391.26	47.53	47.62	0.09	3,343.72
MW - 10	03/15/04	3391.26	-	48.87	0.00	3,342.39
MW - 10	03/23/04	3391.26	-	48.63	0.00	3,342.63
MW - 10	03/30/04	3391.26	48.69	48.70	0.01	3,342.57
MW - 10	04/12/04	3391.26	-	48.65	0.00	3,342.61
MW - 10	04/20/04	3391.26	-	48.08	0.00	3,343.18
MW - 10	05/03/04	3391.26	48.50	48.51	0.01	3,342.76
MW - 10	05/04/04	3391.26	-	48.51	0.00	3,342.75
MW - 10	06/09/04	3391.26	48.58	48.62	0.04	3,342.67
MW - 10	06/16/04	3391.26	48.59	48.61	0.02	3,342.67
MW - 10	06/23/04	3391.26	48.62	48.63	0.01	3,342.64
MW - 10	06/30/04	3391.26	48.57	48.58	0.01	3,342.69
MW - 10	07/13/04	3391.26	48.81	48.89	0.08	3,342.44
MW - 10	07/22/04	3391.26	48.93	49.10	0.17	3,342.30
MW - 10	08/23/04	3391.26	49.11	49.13	0.02	3,342.15
MW - 10	09/22/04	3391.26	sheen	49.25	0.00	3,342.01
MW - 10	09/29/04	3391.26	sheen	49.12	0.00	3,342.14
MW - 10	10/04/04	3391.26	sheen	48.45	0.00	3,342.81
MW - 10	10/11/04	3391.26	sheen	48.30	0.00	3,342.96
MW - 10	10/19/04	3391.26	sheen	48.35	0.00	3,342.91
MW - 10	10/25/04	3391.26	sheen	48.37	0.00	3,342.89
MW - 10	11/01/04	3391.26	sheen	48.58	0.00	3,342.68
MW - 10	11/09/04	3391.26	sheen	48.55	0.00	3,342.71
MW - 10	11/17/04	3391.26	sheen	48.89	0.00	3,342.37
MW - 10	11/22/04	3391.26	sheen	48.90	0.00	3,342.36
MW - 10	11/29/04	3391.26	48.02	48.19	0.17	3,343.21
MW - 10	12/04/04	3391.26	47.58	47.60	0.02	3,343.68
MW - 10	12/13/04	3391.26	sheen	47.34	0.00	3,343.92
MW - 10	12/20/04	3391.26	sheen	47.25	0.00	3,344.01
MW - 10	12/30/04	3391.26	sheen	46.96	0.00	3,344.30
MW - 10	01/03/05	3391.26	sheen	46.97	0.00	3,344.29
MW - 10	01/10/05	3391.26	sheen	47.17	0.00	3,344.09
MW - 10	01/17/05	3391.26	sheen	47.19	0.00	3,344.07
MW - 10	01/24/05	3391.26	sheen	47.22	0.00	3,344.04

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	01/31/05	3391.26	sheen	47.32	0.00	3,343.94
MW - 10	02/07/05	3391.26	sheen	47.26	0.00	3,344.00
MW - 10	02/14/05	3391.26	sheen	47.30	0.00	3,343.96
MW - 10	02/21/05	3391.26	sheen	47.31	0.00	3,343.95
MW - 10	02/28/05	3391.26	sheen	47.33	0.00	3,343.93
MW - 10	03/07/05	3391.26	-	47.17	0.00	3,344.09
MW - 10	03/07/05	3391.26	sheen	47.17	0.00	3,344.09
MW - 10	03/16/05	3391.26	sheen	47.00	0.00	3,344.26
MW - 10	03/21/05	3391.26	sheen	46.94	0.00	3,344.32
MW - 10	03/28/05	3391.26	sheen	47.07	0.00	3,344.19
MW - 10	04/04/05	3391.26	sheen	46.10	0.00	3,345.16
MW - 10	04/13/05	3391.26	sheen	46.13	0.00	3,345.13
MW - 10	04/18/05	3391.26	sheen	47.02	0.00	3,344.24
MW - 10	05/23/05	3391.26	sheen	47.30	0.00	3,343.96
MW - 10	06/07/05	3391.26	sheen	47.11	0.00	3,344.15
MW - 10	06/21/05	3391.26	sheen	47.27	0.00	3,343.99
MW - 10	07/26/05	3391.26	sheen	47.04	0.00	3,344.22
MW - 10	08/25/05	3391.26	sheen	47.14	0.00	3,344.12
MW - 10	09/07/05	3391.26	-	47.18	0.00	3,344.08
MW - 10	09/26/05	3391.26	sheen	47.25	0.00	3,344.01
MW - 10	11/14/05	3391.26	sheen	46.95	0.00	3,344.31
MW - 10	12/14/05	3391.26	-	46.52	0.00	3,344.74
MW - 10	01/01/00	3391.26	sheen	46.22	0.00	3,345.04
MW - 10	01/18/06	3391.26	sheen	46.33	0.00	3,344.93
MW - 10	02/15/06	3391.26	sheen	46.15	0.00	3,345.11
MW - 10	03/06/06	3391.26	sheen	46.27	0.00	3,344.99
MW - 10	03/20/06	3391.26	sheen	46.35	0.00	3,344.91
MW - 10	04/13/06	3391.26	sheen	46.13	0.00	3,345.13
MW - 10	04/19/06	3391.26	sheen	46.24	0.00	3,345.02
MW - 10	05/25/06	3391.26	sheen	45.98	0.00	3,345.28
MW - 10	06/05/06	3391.26	sheen	45.95	0.00	3,345.31
MW - 10	09/11/06	3391.26	sheen	46.49	0.00	3,344.77
MW - 10	10/31/06	3391.26	sheen	46.75	0.00	3,344.51
MW - 10	11/16/06	3391.26	sheen	46.58	0.00	3,344.68
MW - 10	11/21/06	3391.26	sheen	46.55	0.00	3,344.71
MW - 10	01/26/07	3391.26	sheen	46.45	0.00	3,344.81
MW - 10	01/31/07	3391.26	sheen	46.34	0.00	3,344.92
MW - 10	02/15/07	3391.26	-	46.39	0.00	3,344.87
MW - 10	02/20/07	3391.26	-	46.40	0.00	3,344.86
MW - 10	05/15/07	3391.26	sheen	46.61	0.00	3,344.65
MW - 10	08/09/07	3391.26	sheen	46.28	0.00	3,344.98
MW - 10	10/01/07	3391.26	sheen	46.58	0.00	3,344.68
MW - 10	10/12/07	3391.26	sheen	46.55	0.00	3,344.71
MW - 10	11/13/07	3391.26	sheen	46.62	0.00	3,344.64

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	02/14/08	3391.26	-	46.79	0.00	3,344.47
MW - 10	04/18/08	3391.26	-	45.88	0.00	3,345.38
MW - 10	05/16/08	3391.26	-	46.12	0.00	3,345.14
MW - 10	07/15/08	3391.26	-	46.56	0.00	3,344.70
MW - 10	07/16/08	3391.26	-	46.62	0.00	3,344.64
MW - 10	08/12/08	3391.26	-	46.65	0.00	3,344.61
MW - 10	08/19/08	3391.26	-	46.71	0.00	3,344.55
MW - 10	10/09/08	3391.26	-	46.90	0.00	3,344.36
MW - 10	10/23/08	3391.26	-	46.88	0.00	3,344.38
MW - 10	10/28/08	3391.26	-	46.84	0.00	3,344.42
MW - 10	11/19/08	3391.26	-	46.25	0.00	3,345.01
MW - 10	11/24/08	3391.26	-	47.10	0.00	3,344.16
MW - 10	12/17/08	3391.26	-	46.92	0.00	3,344.34
MW - 10	02/18/09	3391.26	-	46.17	0.00	3,345.09
MW - 10	03/03/09	3391.26	-	46.11	0.00	3,345.15
MW - 10	03/10/09	3391.26	-	46.29	0.00	3,344.97
MW - 10	03/18/09	3391.26	-	46.38	0.00	3,344.88
MW - 10	03/27/09	3391.26	-	46.44	0.00	3,344.82
MW - 10	04/07/09	3391.26	-	46.54	0.00	3,344.72
MW - 10	04/14/09	3391.26	-	45.59	0.00	3,345.67
MW - 10	04/28/09	3391.26	-	46.68	0.00	3,344.58
MW - 10	05/19/09	3391.26	-	46.78	0.00	3,344.48
MW - 10	05/27/09	3391.26	-	46.86	0.00	3,344.40
MW - 10	06/04/09	3391.26	-	46.87	0.00	3,344.39
MW - 10	06/12/09	3391.26	-	46.93	0.00	3,344.33
MW - 10	06/18/09	3391.26	-	46.96	0.00	3,344.30
MW - 10	06/30/09	3391.26	-	46.13	0.00	3,345.13
MW - 10	07/07/09	3391.26	-	47.02	0.00	3,344.24
MW - 10	07/14/09	3391.26	-	47.04	0.00	3,344.22
MW - 10	07/21/09	3391.26	-	47.05	0.00	3,344.21
MW - 10	07/28/09	3391.26	-	47.04	0.00	3,344.22
MW - 10	08/07/09	3391.26	-	47.05	0.00	3,344.21
MW - 10	08/13/09	3391.26	-	47.01	0.00	3,344.25
MW - 10	08/21/09	3391.26	-	47.04	0.00	3,344.22
MW - 10	08/27/09	3391.26	-	47.08	0.00	3,344.18
MW - 10	09/10/09	3391.26	-	47.06	0.00	3,344.20
MW - 10	09/18/09	3391.26	-	47.09	0.00	3,344.17
MW - 10	09/29/09	3391.26	-	47.05	0.00	3,344.21
MW - 10	10/06/09	3391.26	-	47.07	0.00	3,344.19
MW - 10	10/20/09	3391.26	-	47.10	0.00	3,344.16
MW - 10	10/27/09	3391.26	-	47.11	0.00	3,344.15
MW - 10	11/11/09	3391.26	-	47.11	0.00	3,344.15
MW - 10	11/13/09	3391.26	-	47.00	0.00	3,344.26
MW - 10	12/08/09	3391.26	-	46.95	0.00	3,344.31

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	12/22/09	3391.26	-	47.11	0.00	3,344.15
MW - 10	01/12/10	3391.26	-	47.13	0.00	3,344.13
MW - 10	01/22/10	3391.26	-	47.06	0.00	3,344.20
MW - 10	02/04/10	3391.26	-	47.13	0.00	3,344.13
MW - 10	03/03/10	3391.26	sheen	47.33	0.00	3,343.93
MW - 10	03/16/10	3391.26	sheen	47.42	0.00	3,343.84
MW - 10	04/15/10	3391.26	sheen	47.43	0.00	3,343.83
MW - 10	05/07/10	3391.26	sheen	47.41	0.00	3,343.85
MW - 10	05/28/10	3391.26	sheen	47.43	0.00	3,343.83
MW - 10	06/08/10	3391.26	sheen	47.38	0.00	3,343.88
MW - 10	06/25/10	3391.26	-	47.36	0.00	3,343.90
MW - 10	07/08/10	3391.26	sheen	47.35	0.00	3,343.91
MW - 10	07/28/10	3391.26	sheen	47.37	0.00	3,343.89
MW - 10	08/06/10	3391.26	-	47.41	0.00	3,343.85
MW - 10	08/31/10	3391.26	sheen	47.44	0.00	3,343.82
MW - 10	09/10/10	3391.26	sheen	47.49	0.00	3,343.77
MW - 10	09/24/10	3391.26	sheen	47.37	0.00	3,343.89
MW - 10	10/06/10	3391.26	sheen	47.35	0.00	3,343.91
MW - 10	10/26/10	3391.26	-	47.06	0.00	3,344.20
MW - 10	11/05/10	3391.26	-	47.45	0.00	3,343.81
MW - 10	12/17/10	3391.26	-	47.07	0.00	3,344.19
MW - 10	01/13/11	3391.26	-	47.43	0.00	3,343.83
MW - 10	02/11/11	3391.26	-	47.45	0.00	3,343.81
MW - 10	05/09/11	3391.26	-	47.47	0.00	3,343.79
MW - 10	05/20/11	3391.26	-	47.84	0.00	3,343.42
MW - 10	06/29/11	3391.26	-	47.93	0.00	3,343.33
MW - 10	07/05/11	3391.26	-	48.01	0.00	3,343.25
MW - 10	07/25/11	3391.26	-	48.11	0.00	3,343.15
MW - 10	08/05/11	3391.26	-	47.50	0.00	3,343.76
MW - 10	08/11/11	3391.26	-	48.24	0.00	3,343.02
MW - 10	08/24/11	3391.26	-	48.30	0.00	3,342.96
MW - 10	09/09/11	3391.26	-	48.34	0.00	3,342.92
MW - 10	09/23/11	3391.26	-	48.41	0.00	3,342.85
MW - 10	11/17/11	3391.26	-	48.44	0.00	3,342.82
MW - 10	01/30/12	3391.26	48.35	48.75	0.40	3,342.85
MW - 10	02/28/12	3391.26	48.05	48.70	0.65	3,343.11
MW - 10	03/15/12	3391.26	48.13	48.64	0.51	3,343.05
MW - 10	03/28/12	3391.26	48.15	48.48	0.33	3,343.06
MW - 10	04/05/12	3391.26	47.96	48.40	0.44	3,343.23
MW - 10	04/23/12	3391.26	47.94	48.60	0.66	3,343.22
MW - 10	05/03/12	3391.26	48.13	49.38	1.25	3,342.94
MW - 10	06/28/12	3391.26	48.21	49.84	1.63	3,342.81
MW - 10	08/24/12	3391.26	48.30	48.95	0.65	3,342.86
MW - 10	10/12/12	3391.26	48.22	50.05	1.83	3,342.77

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	10/24/12	3391.26	48.14	49.57	1.43	3,342.91
MW - 10	11/15/12	3391.26	48.14	49.76	1.62	3,342.88
MW - 10	12/20/12	3391.26	48.11	49.86	1.75	3,342.89
MW - 10	01/14/13	3391.26	47.97	49.60	1.63	3,343.05
MW - 10	02/14/13	3391.26	47.94	49.73	1.79	3,343.05
MW - 10	03/29/13	3391.26	47.89	49.61	1.72	3,343.11
MW - 10	04/19/13	3391.26	47.89	49.59	1.70	3,343.12
MW - 10	04/30/13	3391.26	47.86	49.39	1.53	3,343.17
MW - 10	05/23/13	3391.26	47.89	49.72	1.83	3,343.10
MW - 10	05/28/13	3391.26	47.98	49.38	1.40	3,343.07
MW - 10	05/30/13	3391.26	47.92	49.43	1.51	3,343.11
MW - 10	06/06/13	3391.26	48.01	49.72	1.71	3,342.99
MW - 10	06/13/13	3391.26	48.04	49.66	1.62	3,342.98
MW - 10	06/19/13	3391.26	48.03	49.54	1.51	3,343.00
MW - 10	07/30/13	3391.26	48.15	50.59	2.44	3,342.74
MW - 10	08/06/13	3391.26	48.17	50.49	2.32	3,342.74
MW - 10	08/09/13	3391.26	48.22	50.61	2.39	3,342.68
MW - 10	08/30/13	3391.26	48.27	50.63	2.36	3,342.64
MW - 10	09/12/13	3391.26	48.38	50.43	2.05	3,342.57
MW - 10	10/03/13	3391.26	48.38	50.43	2.05	3,342.57
MW - 10	11/01/13	3391.26	48.48	50.74	2.26	3,342.44
MW - 10	11/07/13	3391.26	48.60	50.18	1.58	3,342.42
MW - 10	12/10/13	3391.26	48.41	49.60	1.19	3,342.67
MW - 10	01/01/14	3391.26	48.43	49.91	1.48	3,342.61
MW - 10	01/16/14	3391.26	48.48	50.32	1.84	3,342.50
MW - 10	01/23/14	3391.26	48.48	50.52	2.04	3,342.47
MW - 10	01/28/14	3391.26	48.65	50.13	1.48	3,342.39
MW - 10	02/11/14	3391.26	48.67	49.72	1.05	3,342.43
MW - 10	03/05/14	3391.26	48.59	50.27	1.68	3,342.42
MW - 10	03/13/14	3391.26	48.55	50.35	1.80	3,342.44
MW - 10	03/29/14	3391.26	48.57	49.99	1.42	3,342.48
MW - 10	04/08/14	3391.26	48.67	49.89	1.22	3,342.41
MW - 10	04/17/14	3391.26	48.68	49.85	1.17	3,342.40
MW - 10	04/25/14	3391.26	48.60	49.49	0.89	3,342.53
MW - 10	05/01/14	3391.26	48.66	49.30	0.64	3,342.50
MW - 10	05/08/14	3391.26	48.62	49.37	0.75	3,342.53
MW - 10	05/14/14	3391.26	48.63	49.35	0.72	3,342.52
MW - 10	05/23/14	3391.26	48.70	49.48	0.78	3,342.44
MW - 10	05/27/14	3391.26	48.80	49.23	0.43	3,342.40
MW - 10	05/29/14	3391.26	48.81	49.23	0.42	3,342.39
MW - 10	06/11/14	3391.26	48.79	49.36	0.57	3,342.38
MW - 10	06/05/14	3391.26	48.74	49.36	0.62	3,342.43
MW - 10	06/18/14	3391.26	48.78	49.45	0.67	3,342.38
MW - 10	06/26/14	3391.26	48.81	49.38	0.57	3,342.36

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	07/01/14	3391.26	48.43	49.42	0.99	3,342.68
MW - 10	07/10/14	3391.26	48.93	49.63	0.70	3,342.23
MW - 10	07/17/14	3391.26	48.91	49.75	0.84	3,342.22
MW - 10	07/23/14	3391.26	49.07	49.65	0.58	3,342.10
MW - 10	07/31/14	3391.26	49.02	49.65	0.63	3,342.15
MW - 10	08/06/14	3391.26	49.02	49.49	0.47	3,342.17
MW - 10	08/12/14	3391.26	49.09	49.53	0.44	3,342.10
MW - 10	08/21/14	3391.26	49.05	49.68	0.63	3,342.12
MW - 10	09/04/14	3391.26	49.08	49.78	0.70	3,342.08
MW - 10	10/02/14	3391.26	48.94	49.78	0.84	3,342.19
MW - 10	10/08/14	3391.26	48.91	49.46	0.55	3,342.27
MW - 10	10/14/14	3391.26	48.93	49.43	0.50	3,342.26
MW - 10	10/17/14	3391.26	48.97	49.42	0.45	3,342.22
MW - 10	10/23/14	3391.26	48.91	49.40	0.49	3,342.28
MW - 10	10/24/14	3391.26	48.91	49.40	0.49	3,342.28
MW - 10	10/28/14	3391.26	48.90	49.27	0.37	3,342.30
MW - 10	11/07/14	3391.26	48.81	49.26	0.45	3,342.38
MW - 10	11/14/14	3391.26	48.83	49.23	0.40	3,342.37
MW - 10	11/15/14	3391.26	48.78	49.21	0.43	3,342.42
MW - 10	12/04/14	3391.26	48.14	49.22	1.08	3,342.96
MW - 10	12/11/14	3391.26	48.85	49.21	0.36	3,342.36
MW - 10	12/18/14	3391.26	48.59	49.44	0.85	3,342.54
MW - 10	12/23/14	3391.26	48.86	49.19	0.33	3,342.35
MW - 10	01/07/15	3391.26	48.70	49.35	0.65	3,342.46
MW - 10	01/15/15	3391.26	48.57	49.21	0.64	3,342.59
MW - 10	01/28/15	3391.26	48.42	49.22	0.80	3,342.72
MW - 10	02/04/15	3391.26	48.38	49.23	0.85	3,342.75
MW - 10	02/13/15	3391.26	48.37	49.19	0.82	3,342.77
MW - 10	02/16/15	3391.26	48.36	49.28	0.92	3,342.76
MW - 10	02/17/15	3391.26	48.39	49.30	0.91	3,342.73
MW - 10	02/24/15	3391.26	48.37	49.07	0.70	3,342.79
MW - 10	03/10/15	3391.26	48.31	49.09	0.78	3,342.83
MW - 10	03/17/15	3391.26	48.30	49.01	0.71	3,342.85
MW - 10	03/18/15	3391.26	48.25	48.94	0.69	3,342.91
MW - 10	03/25/15	3391.26	48.23	48.92	0.69	3,342.93
MW - 10	04/07/15	3391.26	48.22	48.91	0.69	3,342.94
MW - 10	04/08/15	3391.26	48.13	48.76	0.63	3,343.04
MW - 10	04/21/15	3391.26	-	48.26	0.00	3,343.00
MW - 10	04/28/15	3391.26	48.89	49.13	0.24	3,342.33
MW - 10	05/06/15	3391.26	48.20	48.32	0.12	3,343.04
MW - 10	05/20/15	3391.26	48.08	48.37	0.29	3,343.14
MW - 10	05/28/15	3391.26	48.04	48.34	0.30	3,343.18
MW - 10	06/02/15	3391.26	47.99	48.27	0.28	3,343.23
MW - 10	06/09/15	3391.26	47.93	48.24	0.31	3,343.28

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	06/18/15	3391.26	48.12	48.19	0.07	3,343.13
MW - 10	06/30/15	3391.26	48.24	48.27	0.03	3,343.02
MW - 10	07/06/15	3391.26	48.36	48.37	0.01	3,342.90
MW - 10	07/09/15	3391.26	48.27	48.30	0.03	3,342.99
MW - 10	07/21/15	3391.26	-	48.10	0.00	3,343.16
MW - 10	07/28/15	3391.26	48.07	48.08	0.01	3,343.19
MW - 10	08/06/15	3391.26	48.83	49.12	0.29	3,342.39
MW - 10	08/11/15	3391.26	48.10	48.13	0.03	3,343.16
MW - 10	08/18/15	3391.26	48.04	48.05	0.01	3,343.22
MW - 10	08/26/15	3391.26	48.18	48.30	0.12	3,343.06
MW - 10	09/11/15	3391.26	48.25	48.37	0.12	3,342.99
MW - 10	09/17/15	3391.26	48.28	48.42	0.14	3,342.96
MW - 10	09/25/15	3391.26	48.38	48.44	0.06	3,342.87
MW - 10	09/30/15	3391.26	48.36	48.51	0.15	3,342.88
MW - 10	10/06/15	3391.26	48.34	48.44	0.10	3,342.91
MW - 10	10/09/15	3391.26	48.50	48.58	0.08	3,342.75
MW - 10	10/13/15	3391.26	48.46	48.57	0.11	3,342.78
MW - 10	10/15/15	3391.26	48.72	48.83	0.11	3,342.52
MW - 10	10/21/15	3391.26	48.37	48.48	0.11	3,342.87
MW - 10	10/26/15	3391.26	48.36	48.49	0.13	3,342.88
MW - 10	11/09/15	3391.26	48.50	48.52	0.02	3,342.76
MW - 10	11/20/15	3391.26	48.32	48.33	0.01	3,342.94
MW - 10	11/25/15	3391.26	-	48.57	0.00	3,342.69
MW - 10	12/01/15	3391.26	-	48.52	0.00	3,342.74
MW - 10	12/09/15	3391.26	-	48.55	0.00	3,342.71
MW - 10	12/11/15	3391.26	48.21	48.33	0.12	3,343.03
MW - 10	12/15/15	3391.26	-	47.43	0.00	3,343.83
MW - 10	01/06/16	3391.26	-	48.24	0.00	3,343.02
MW - 10	01/11/16	3391.26	48.33	48.34	0.01	3,342.93
MW - 10	01/13/16	3391.26	-	48.20	0.00	3,343.06
MW - 10	01/28/16	3391.26	48.10	48.12	0.02	3,343.16
MW - 10	02/03/16	3391.26	47.94	47.95	0.01	3,343.32
MW - 10	02/10/16	3391.26	47.96	47.97	0.01	3,343.30
MW - 10	02/15/16	3391.26	47.79	47.80	0.01	3,343.47
MW - 10	02/17/16	3391.26	47.87	47.88	0.01	3,343.39
MW - 10	02/23/16	3391.26	47.81	47.82	0.01	3,343.45
MW - 10	03/08/16	3391.26	47.79	47.80	0.01	3,343.47
MW - 10	03/16/16	3391.26	47.74	47.75	0.01	3,343.52
MW - 10	03/18/16	3391.26	-	47.86	0.00	3,343.40
MW - 10	03/23/16	3391.26	47.69	47.70	0.01	3,343.57
MW - 10	03/29/16	3391.26	47.67	47.70	0.03	3,343.59
MW - 10	04/04/16	3391.26	47.90	47.91	0.01	3,343.36
MW - 10	04/08/16	3391.26	47.70	47.78	0.08	3,343.55
MW - 10	04/12/16	3391.26	47.75	47.76	0.01	3,343.51

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	05/03/16	3391.26	47.93	47.94	0.01	3,343.33
MW - 10	05/12/16	3391.26	-	47.73	0.00	3,343.53
MW - 10	05/26/16	3391.26	47.61	47.69	0.08	3,343.64
MW - 10	06/09/16	3391.26	47.78	47.95	0.17	3,343.45
MW - 10	07/01/16	3391.26	47.79	47.86	0.07	3,343.46
MW - 10	07/20/16	3391.26	-	47.97	0.00	3,343.29
MW - 10	07/28/16	3391.26	47.90	47.91	0.01	3,343.36
MW - 10	08/04/16	3391.26	-	47.77	0.00	3,343.49
MW - 10	08/10/16	3391.26	47.84	47.86	0.02	3,343.42
MW - 10	08/16/16	3391.26	47.89	47.91	0.02	3,343.37
MW - 10	08/23/16	3391.26	47.89	47.90	0.01	3,343.37
MW - 10	09/12/16	3391.26	47.82	48.02	0.20	3,343.41
MW - 10	09/23/16	3391.26	47.81	48.01	0.20	3,343.42
MW - 10	09/28/16	3391.26	47.82	48.13	0.31	3,343.39
MW - 10	10/12/16	3391.26	47.77	47.97	0.20	3,343.46
MW - 10	10/17/16	3391.26	47.66	47.94	0.28	3,343.56
MW - 10	11/02/16	3391.26	47.71	48.00	0.29	3,343.51
MW - 10	11/09/16	3391.26	47.71	48.01	0.30	3,343.51
MW - 10	11/29/16	3391.26	47.72	47.84	0.12	3,343.52
MW - 10	12/16/16	3391.26	47.60	47.61	0.01	3,343.66
MW - 10	01/26/17	3391.26	47.49	47.50	0.01	3,343.77
MW - 10	02/27/17	3391.26	47.41	47.51	0.10	3,343.84
MW - 10	03/30/17	3391.26	47.36	47.43	0.07	3,343.89
MW - 10	04/04/17	3391.26	47.34	47.41	0.07	3,343.91
MW - 10	04/21/17	3391.26	47.23	47.26	0.03	3,344.03
MW - 10	05/18/17	3391.26	47.27	47.30	0.03	3,343.99
MW - 10	07/20/17	3391.26	47.20	47.25	0.05	3,344.05
MW - 10	08/29/17	3391.26	47.10	47.12	0.02	3,344.16
MW - 10	10/13/17	3391.26	47.06	47.09	0.03	3,344.20
MW - 10	10/20/17	3391.26	47.06	47.09	0.03	3,344.20
MW - 10	11/07/17	3391.26	47.08	47.10	0.02	3,344.18
MW - 10	01/31/18	3391.26	-	46.86	0.00	3,344.40
MW - 10	02/22/18	3391.26	46.86	46.91	0.05	3,344.39
MW - 10	03/15/18	3391.26	46.80	46.84	0.04	3,344.45
MW - 10	03/23/18	3391.26	46.83	46.88	0.05	3,344.42
MW - 10	04/11/18	3391.26	-	46.81	0.00	3,344.45
MW - 10	04/20/18	3391.26	-	46.81	0.00	3,344.45
MW - 10	05/23/18	3391.26	-	46.78	0.00	3,344.48
MW - 10	06/27/18	3391.26	46.88	46.90	0.02	3,344.38
MW - 10	07/31/18	3391.26	47.04	47.05	0.01	3,344.22
MW - 10	08/14/18	3391.26	-	46.98	0.00	3,344.28
MW - 10	08/29/18	3391.26	47.08	47.10	0.02	3,344.18
MW - 10	09/07/18	3391.26	47.09	47.10	0.01	3,344.17
MW - 10	09/19/18	3391.26	47.05	47.08	0.03	3,344.21

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	09/28/18	3391.26	-	47.17	0.00	3,344.09
MW - 10	10/04/18	3391.26	-	47.29	0.00	3,343.97
MW - 10	10/17/18	3391.26	-	47.17	0.00	3,344.09
MW - 10	11/09/18	3391.26	-	47.22	0.00	3,344.04
MW - 10	11/15/18	3391.26	-	47.11	0.00	3,344.15
MW - 10	11/29/18	3391.26	-	46.96	0.00	3,344.30
MW - 10	12/03/18	3391.26	-	47.09	0.00	3,344.17
MW - 10	12/13/18	3391.26	-	47.08	0.00	3,344.18
MW - 10	12/21/18	3391.26	-	47.05	0.00	3,344.21
MW - 10	12/28/18	3391.26	-	47.03	0.00	3,344.23
MW - 10	01/03/19	3391.26	-	47.02	0.00	3,344.24
MW - 10	01/07/19	3391.26	-	46.93	0.00	3,344.33
MW - 10	01/16/19	3391.26	-	46.88	0.00	3,344.38
MW - 10	01/21/19	3391.26	-	46.78	0.00	3,344.48
MW - 10	01/28/19	3391.26	-	46.95	0.00	3,344.31
MW - 10	02/08/19	3391.26	-	47.10	0.00	3,344.16
MW - 10	02/13/19	3391.26	-	46.91	0.00	3,344.35
MW - 10	02/19/19	3391.26	-	46.80	0.00	3,344.46
MW - 10	03/01/19	3391.26	-	46.86	0.00	3,344.40
MW - 10	03/05/19	3391.26	-	46.89	0.00	3,344.37
MW - 10	03/20/19	3391.26	-	46.94	0.00	3,344.32
MW - 10	03/27/19	3391.26	-	46.92	0.00	3,344.34
MW - 10	04/04/19	3391.26	-	46.85	0.00	3,344.41
MW - 10	04/09/19	3391.26	-	46.78	0.00	3,344.48
MW - 10	04/16/19	3391.26	-	46.79	0.00	3,344.47
MW - 10	04/23/19	3391.26	-	46.84	0.00	3,344.42
MW - 10	05/03/19	3391.26	-	46.73	0.00	3,344.53
MW - 10	05/10/19	3391.26	-	46.83	0.00	3,344.43
MW - 10	05/23/19	3391.26	-	46.70	0.00	3,344.56
MW - 10	06/11/19	3391.26	-	46.69	0.00	3,344.57
MW - 10	06/20/19	3391.26	-	46.66	0.00	3,344.60
MW - 10	06/25/19	3391.26	-	46.69	0.00	3,344.57
MW - 10	07/03/19	3391.26	-	46.67	0.00	3,344.59
MW - 10	07/15/19	3391.26	-	47.64	0.00	3,343.62
MW - 10	07/31/19	3391.26	-	46.66	0.00	3,344.60
MW - 10	08/07/19	3391.26	-	46.65	0.00	3,344.61
MW - 10	08/15/19	3391.26	-	46.64	0.00	3,344.62
MW - 10	08/23/19	3391.26	-	46.62	0.00	3,344.64
MW - 10	09/06/19	3391.26	-	46.62	0.00	3,344.64
MW - 10	09/10/19	3391.26	-	46.61	0.00	3,344.65
MW - 10	09/18/19	3391.26	-	46.59	0.00	3,344.67
MW - 10	10/18/19	3391.26	-	46.48	0.00	3,344.78
MW - 10	11/01/19	3391.26	-	46.55	0.00	3,344.71
MW - 10	11/13/19	3391.26	-	46.40	0.00	3,344.86

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	11/25/19	3391.26	-	46.44	0.00	3,344.82
MW - 10	12/05/19	3391.26	-	46.49	0.00	3,344.77
MW - 10	12/12/19	3391.26	-	46.42	0.00	3,344.84
MW - 10	12/19/19	3391.26	-	46.45	0.00	3,344.81
MW - 10	01/16/20	3391.26	-	46.47	0.00	3,344.79
MW - 10	01/24/20	3391.26	-	46.43	0.00	3,344.83
MW - 10	02/06/20	3391.26	-	46.36	0.00	3,344.90
MW - 10	02/14/20	3391.26	-	46.42	0.00	3,344.84
MW - 10	02/21/20	3391.26	-	46.45	0.00	3,344.81
MW - 10	02/25/20	3391.26	-	46.43	0.00	3,344.83
MW - 10	05/28/20	3391.26	-	46.33	0.00	3,344.93
MW - 10	06/15/20	3391.26	-	46.27	0.00	3,344.99
MW - 10	07/02/20	3391.26	-	46.34	0.00	3,344.92
MW - 10	07/29/20	3391.26	-	46.44	0.00	3,344.82
MW - 10	08/20/20	3391.26	-	46.50	0.00	3,344.76
MW - 10	08/27/20	3391.26	-	46.52	0.00	3,344.74
MW - 10	09/10/20	3391.26	-	46.62	0.00	3,344.64
MW - 10	10/21/20	3391.26	-	46.54	0.00	3,344.72
MW - 10	11/02/20	3391.26	-	46.54	0.00	3,344.72
MW - 10	12/01/20	3391.26	-	46.36	0.00	3,344.90
MW - 10	12/07/20	3391.26	-	46.45	0.00	3,344.81
MW - 10	01/06/21	3391.26	-	46.38	0.00	3,344.88
MW - 10	02/04/21	3391.26	-	46.41	0.00	3,344.85
MW - 10	02/12/21	3391.26	-	46.42	0.00	3,344.84
MW - 10	03/31/21	3391.26	-	46.33	0.00	3,344.93
MW - 10	04/13/21	3391.26	-	46.22	0.00	3,345.04
MW - 10	04/26/21	3391.26	-	46.13	0.00	3,345.13
MW - 10	05/11/21	3391.26	-	46.17	0.00	3,345.09
MW - 10	06/17/21	3391.26	-	46.19	0.00	3,345.07
MW - 10	07/12/21	3391.26	-	46.32	0.00	3,344.94
MW - 10	07/28/21	3391.26	-	46.39	0.00	3,344.87
MW - 10	08/10/21	3391.26	-	46.44	0.00	3,344.82
MW - 10	07/28/21	3391.26	-	46.39	0.00	3,344.87
MW - 10	08/19/21	3391.26	-	46.45	0.00	3,344.81
MW - 10	09/14/21	3391.26	-	46.52	0.00	3,344.74
MW - 10	09/24/21	3391.26	-	46.57	0.00	3,344.69
MW - 10	10/18/21	3391.26	-	46.60	0.00	3,344.66
MW - 10	10/25/21	3391.26	-	46.64	0.00	3,344.62
MW - 10	11/04/21	3391.26	-	46.75	0.00	3,344.51
MW - 10	11/30/21	3391.26	-	46.73	0.00	3,344.53
MW - 10	12/27/21	3391.26	-	46.61	0.00	3,344.65
MW - 10	01/03/22	3391.26	-	46.77	0.00	3,344.49
MW - 10	01/17/22	3391.26	-	46.65	0.00	3,344.61
MW - 10	02/11/22	3391.26	-	46.63	0.00	3,344.63

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	03/02/22	3391.26	-	46.65	0.00	3,344.61
MW - 10	03/24/22	3391.26	-	46.70	0.00	3,344.56
MW - 10	04/08/22	3391.26	-	46.81	0.00	3,344.45
MW - 10	04/22/22	3391.26	-	46.68	0.00	3,344.58
MW - 10	05/06/22	3391.26	-	46.71	0.00	3,344.55
MW - 10	05/26/22	3391.26	-	46.75	0.00	3,344.51
MW - 10	06/20/22	3391.26	-	46.86	0.00	3,344.40
MW - 10	07/11/22	3391.26	-	46.96	0.00	3,344.30
MW - 10	08/19/22	3391.26	-	47.10	0.00	3,344.16
MW - 10	09/12/22	3391.26	-	47.11	0.00	3,344.15
MW - 10	09/21/22	3391.26	-	47.22	0.00	3,344.04
MW - 10	10/05/22	3391.26	-	47.23	0.00	3,344.03
MW - 10	11/22/22	3391.26	-	47.26	0.00	3,344.00
MW - 10	11/28/22	3391.26	-	47.15	0.00	3,344.11
MW - 10	12/05/22	3391.26	-	47.23	0.00	3,344.03
MW - 10	01/04/23	3391.26	-	47.33	0.00	3,343.93
MW - 10	02/21/23	3391.26	-	47.10	0.00	3,344.16
MW - 10	03/22/23	3391.26	-	47.17	0.00	3,344.09
MW - 10	04/14/23	3391.26	-	47.10	0.00	3,344.16
MW - 10	05/22/23	3391.26	-	47.10	0.00	3,344.16
MW - 10	05/23/23	3391.26	-	47.10	0.00	3,344.16
MW - 10	06/28/23	3391.26	-	47.22	0.00	3,344.04
MW - 10	07/14/23	3391.26	-	47.28	0.00	3,343.98
MW - 10	08/03/23	3391.26	-	47.59	0.00	3,343.67
MW - 10	08/15/23	3391.26	-	47.47	0.00	3,343.79
MW - 10	09/12/23	3391.26	47.51	47.53	0.02	3,343.75
MW - 10	11/16/23	3391.26	47.50	47.51	0.01	3,343.76
MW - 10	11/17/23	3391.26	47.50	47.51	0.01	3,343.76
MW - 11	12/04/04	3390.73	-	47.14	0.00	3,343.59
MW - 11	12/10/04	3390.73	-	46.84	0.00	3,343.89
MW - 11	03/07/05	3390.73	-	46.95	0.00	3,343.78
MW - 11	06/07/05	3390.73	-	46.62	0.00	3,344.11
MW - 11	09/07/05	3390.73	46.65	46.66	0.01	3,344.08
MW - 11	09/26/05	3390.73	sheen	46.78	0.00	3,343.95
MW - 11	12/14/05	3390.73	-	46.00	0.00	3,344.73
MW - 11	03/06/06	3390.73	-	45.83	0.00	3,344.90
MW - 11	04/13/06	3390.73	-	45.72	0.00	3,345.01
MW - 11	06/05/06	3390.73	-	45.01	0.00	3,345.72
MW - 11	09/11/06	3390.73	-	46.07	0.00	3,344.66
MW - 11	11/21/06	3390.73	-	46.08	0.00	3,344.65
MW - 11	02/20/07	3390.73	-	45.93	0.00	3,344.80
MW - 11	05/15/07	3390.73	-	46.11	0.00	3,344.62
MW - 11	08/09/07	3390.73	-	45.82	0.00	3,344.91

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 11	11/13/07	3390.73	-	46.06	0.00	3,344.67
MW - 11	02/14/08	3390.73	-	46.23	0.00	3,344.50
MW - 11	05/16/08	3390.73	-	45.71	0.00	3,345.02
MW - 11	08/19/08	3390.73	-	46.24	0.00	3,344.49
MW - 11	11/20/08	3390.73	-	46.28	0.00	3,344.45
MW - 11	02/18/09	3390.73	-	45.46	0.00	3,345.27
MW - 11	05/19/09	3390.73	-	46.34	0.00	3,344.39
MW - 11	08/13/09	3390.73	-	46.54	0.00	3,344.19
MW - 11	11/11/09	3390.73	-	46.58	0.00	3,344.15
MW - 11	01/12/10	3390.73	-	46.56	0.00	3,344.17
MW - 11	02/04/10	3390.73	-	46.69	0.00	3,344.04
MW - 11	05/07/10	3390.73	-	46.66	0.00	3,344.07
MW - 11	08/06/10	3390.73	-	46.66	0.00	3,344.07
MW - 11	11/05/10	3390.73	-	46.67	0.00	3,344.06
MW - 11	02/11/11	3390.73	-	46.75	0.00	3,343.98
MW - 11	05/09/11	3390.73	-	46.75	0.00	3,343.98
MW - 11	08/05/11	3390.73	-	46.73	0.00	3,344.00
MW - 11	11/17/11	3390.73	-	47.98	0.00	3,342.75
MW - 11	02/28/12	3390.73	-	47.69	0.00	3,343.04
MW - 11	05/03/12	3390.73	-	47.70	0.00	3,343.03
MW - 11	08/24/12	3390.73	-	48.01	0.00	3,342.72
MW - 11	11/15/12	3390.73	-	47.91	0.00	3,342.82
MW - 11	02/14/13	3390.73	-	47.75	0.00	3,342.98
MW - 11	05/28/13	3390.73	-	47.73	0.00	3,343.00
MW - 11	08/06/13	3390.73	-	48.09	0.00	3,342.64
MW - 11	11/07/13	3390.73	-	48.41	0.00	3,342.32
MW - 11	03/05/14	3390.73	-	48.40	0.00	3,342.33
MW - 11	05/29/14	3390.73	-	48.42	0.00	3,342.31
MW - 11	07/23/14	3390.73	-	48.68	0.00	3,342.05
MW - 11	08/12/14	3390.73	-	48.73	0.00	3,342.00
MW - 11	10/28/14	3390.73	-	48.51	0.00	3,342.22
MW - 11	11/15/14	3390.73	-	48.38	0.00	3,342.35
MW - 11	02/16/15	3390.73	-	48.02	0.00	3,342.71
MW - 11	03/18/15	3390.73	-	47.89	0.00	3,342.84
MW - 11	04/08/15	3390.73	-	47.77	0.00	3,342.96
MW - 11	05/28/15	3390.73	-	47.53	0.00	3,343.20
MW - 11	07/09/15	3390.73	-	47.53	0.00	3,343.20
MW - 11	08/26/15	3390.73	-	47.72	0.00	3,343.01
MW - 11	09/11/15	3390.73	-	47.82	0.00	3,342.91
MW - 11	09/25/15	3390.73	-	47.92	0.00	3,342.81
MW - 11	10/09/15	3390.73	-	47.97	0.00	3,342.76
MW - 11	10/15/15	3390.73	-	47.91	0.00	3,342.82
MW - 11	11/20/15	3390.73	-	47.88	0.00	3,342.85
MW - 11	12/11/15	3390.73	-	47.72	0.00	3,343.01

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 11	01/13/16	3390.73	-	47.52	0.00	3,343.21
MW - 11	02/17/16	3390.73	-	47.32	0.00	3,343.41
MW - 11	03/18/16	3390.73	-	47.26	0.00	3,343.47
MW - 11	04/08/16	3390.73	-	47.22	0.00	3,343.51
MW - 11	04/12/16	3390.73	-	47.28	0.00	3,343.45
MW - 11	05/03/16	3390.73	-	47.18	0.00	3,343.55
MW - 11	05/26/16	3390.73	-	47.16	0.00	3,343.57
MW - 11	06/09/16	3390.73	-	47.25	0.00	3,343.48
MW - 11	07/01/16	3390.73	-	47.23	0.00	3,343.50
MW - 11	07/20/16	3390.73	-	47.33	0.00	3,343.40
MW - 11	08/04/16	3390.73	-	47.34	0.00	3,343.39
MW - 11	09/28/16	3390.73	-	47.42	0.00	3,343.31
MW - 11	11/29/16	3390.73	-	47.14	0.00	3,343.59
MW - 11	12/16/16	3390.73	-	47.04	0.00	3,343.69
MW - 11	01/26/17	3390.73	-	47.02	0.00	3,343.71
MW - 11	02/27/17	3390.73	-	46.87	0.00	3,343.86
MW - 11	03/30/17	3390.73	-	46.82	0.00	3,343.91
MW - 11	04/21/17	3390.73	-	47.76	0.00	3,342.97
MW - 11	05/18/17	3390.73	-	46.73	0.00	3,344.00
MW - 11	07/20/17	3390.73	-	46.72	0.00	3,344.01
MW - 11	08/29/17	3390.73	-	46.63	0.00	3,344.10
MW - 11	10/13/17	3390.73	-	47.53	0.00	3,343.20
MW - 11	10/20/17	3390.73	-	47.53	0.00	3,343.20
MW - 11	11/07/17	3390.73	-	46.54	0.00	3,344.19
MW - 11	01/31/18	3390.73	-	46.35	0.00	3,344.38
MW - 11	02/22/18	3390.73	-	46.41	0.00	3,344.32
MW - 11	03/15/18	3390.73	-	46.36	0.00	3,344.37
MW - 11	04/20/18	3390.73	-	46.36	0.00	3,344.37
MW - 11	05/23/18	3390.73	-	46.36	0.00	3,344.37
MW - 11	06/27/18	3390.73	-	46.46	0.00	3,344.27
MW - 11	07/31/18	3390.73	-	46.59	0.00	3,344.14
MW - 11	08/29/18	3390.73	-	46.65	0.00	3,344.08
MW - 11	09/28/18	3390.73	-	46.65	0.00	3,344.08
MW - 11	11/29/18	3390.73	-	46.50	0.00	3,344.23
MW - 11	12/13/18	3390.73	-	46.54	0.00	3,344.19
MW - 11	01/03/19	3390.73	-	46.44	0.00	3,344.29
MW - 11	03/05/19	3390.73	-	46.43	0.00	3,344.30
MW - 11	03/20/19	3390.73	-	46.38	0.00	3,344.35
MW - 11	04/04/19	3390.73	-	46.31	0.00	3,344.42
MW - 11	06/11/19	3390.73	-	46.24	0.00	3,344.49
MW - 11	07/15/19	3390.73	-	46.19	0.00	3,344.54
MW - 11	08/15/19	3390.73	-	46.18	0.00	3,344.55
MW - 11	11/25/19	3390.73	-	45.94	0.00	3,344.79

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 11	12/12/19	3390.73	-	45.98	0.00	3,344.75
MW - 11	01/24/20	3390.73	-	45.96	0.00	3,344.77
MW - 11	02/25/20	3390.73	-	46.00	0.00	3,344.73
MW - 11	05/28/20	3390.73	-	45.85	0.00	3,344.88
MW - 11	06/15/20	3390.73	-	45.85	0.00	3,344.88
MW - 11	08/27/20	3390.73	-	45.99	0.00	3,344.74
MW - 11	09/10/20	3390.73	-	46.10	0.00	3,344.63
MW - 11	10/21/20	3390.73	-	46.07	0.00	3,344.66
MW - 11	12/01/20	3390.73	-	45.94	0.00	3,344.79
MW - 11	01/06/21	3390.73	-	45.99	0.00	3,344.74
MW - 11	02/04/21	3390.73	-	45.98	0.00	3,344.75
MW - 11	04/26/21	3390.73	-	45.69	0.00	3,345.04
MW - 11	06/16/21	3390.73	-	45.78	0.00	3,344.95
MW - 11	07/28/21	3390.73	-	45.96	0.00	3,344.77
MW - 11	08/19/21	3390.73	-	46.03	0.00	3,344.70
MW - 11	09/24/21	3390.73	-	46.13	0.00	3,344.60
MW - 11	10/18/21	3390.73	-	46.17	0.00	3,344.56
MW - 11	11/30/21	3390.73	-	46.19	0.00	3,344.54
MW - 11	01/17/22	3390.73	-	46.17	0.00	3,344.56
MW - 11	03/02/22	3390.73	-	46.23	0.00	3,344.50
MW - 11	04/08/22	3390.73	-	46.31	0.00	3,344.42
MW - 11	05/25/22	3390.73	-	46.34	0.00	3,344.39
MW - 11	09/12/22	3390.73	-	46.75	0.00	3,343.98
MW - 11	11/28/22	3390.73	-	46.76	0.00	3,343.97
MW - 11	05/23/23	3390.73	-	46.71	0.00	3,344.02
MW - 11	08/03/23	3390.73	-	47.02	0.00	3,343.71
MW - 11	08/14/23	3390.73	-	47.10	0.00	3,343.63
MW - 11	11/15/23	3390.73	-	47.19	0.00	3,343.54
MW - 12	03/05/14	3391.57	-	49.06	0.00	3,342.51
MW - 12	04/17/14	3391.57	-	49.06	0.00	3,342.51
MW - 12	04/25/14	3391.57	-	48.97	0.00	3,342.60
MW - 12	05/01/14	3391.57	-	48.98	0.00	3,342.59
MW - 12	05/08/14	3391.57	-	48.97	0.00	3,342.60
MW - 12	05/14/14	3391.57	-	48.96	0.00	3,342.61
MW - 12	05/23/14	3391.57	-	49.09	0.00	3,342.48
MW - 12	05/27/14	3391.57	-	49.04	0.00	3,342.53
MW - 12	05/29/14	3391.57	-	49.03	0.00	3,342.54
MW - 12	06/11/14	3391.57	-	49.09	0.00	3,342.48
MW - 12	06/05/14	3391.57	-	49.08	0.00	3,342.49
MW - 12	06/18/14	3391.57	-	49.02	0.00	3,342.55
MW - 12	06/26/14	3391.57	-	49.16	0.00	3,342.41
MW - 12	07/01/14	3391.57	-	49.23	0.00	3,342.34

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 12	07/10/14	3391.57	-	49.28	0.00	3,342.29
MW - 12	07/17/14	3391.57	-	49.29	0.00	3,342.28
MW - 12	07/23/14	3391.57	-	49.32	0.00	3,342.25
MW - 12	07/31/14	3391.57	-	49.38	0.00	3,342.19
MW - 12	08/06/14	3391.57	-	49.34	0.00	3,342.23
MW - 12	08/12/14	3391.57	-	49.38	0.00	3,342.19
MW - 12	08/21/14	3391.57	-	49.38	0.00	3,342.19
MW - 12	09/04/14	3391.57	-	49.39	0.00	3,342.18
MW - 12	10/02/14	3391.57	-	49.31	0.00	3,342.26
MW - 12	10/08/14	3391.57	-	49.23	0.00	3,342.34
MW - 12	10/14/14	3391.57	-	49.25	0.00	3,342.32
MW - 12	10/17/14	3391.57	-	49.22	0.00	3,342.35
MW - 12	10/23/14	3391.57	-	49.20	0.00	3,342.37
MW - 12	10/28/14	3391.57	-	49.17	0.00	3,342.40
MW - 12	11/07/14	3391.57	-	49.04	0.00	3,342.53
MW - 12	11/14/14	3391.57	-	49.10	0.00	3,342.47
MW - 12	11/15/14	3391.57	-	49.06	0.00	3,342.51
MW - 12	12/04/14	3391.57	-	48.97	0.00	3,342.60
MW - 12	12/11/14	3391.57	-	48.95	0.00	3,342.62
MW - 12	12/18/14	3391.57	-	48.95	0.00	3,342.62
MW - 12	12/23/14	3391.57	-	48.93	0.00	3,342.64
MW - 12	01/07/15	3391.57	-	48.99	0.00	3,342.58
MW - 12	01/15/15	3391.57	-	48.85	0.00	3,342.72
MW - 12	01/28/15	3391.57	-	48.73	0.00	3,342.84
MW - 12	02/04/15	3391.57	-	48.70	0.00	3,342.87
MW - 12	02/13/15	3391.57	-	48.72	0.00	3,342.85
MW - 12	02/16/15	3391.57	-	48.71	0.00	3,342.86
MW - 12	02/17/15	3391.57	-	48.75	0.00	3,342.82
MW - 12	02/24/15	3391.57	-	48.68	0.00	3,342.89
MW - 12	03/10/15	3391.57	-	48.62	0.00	3,342.95
MW - 12	03/17/15	3391.57	-	48.61	0.00	3,342.96
MW - 12	03/18/15	3391.57	-	48.57	0.00	3,343.00
MW - 12	03/25/15	3391.57	-	48.54	0.00	3,343.03
MW - 12	04/07/15	3391.57	-	48.54	0.00	3,343.03
MW - 12	04/08/15	3391.57	-	48.44	0.00	3,343.13
MW - 12	04/21/15	3391.57	-	48.45	0.00	3,343.12
MW - 12	04/28/15	3391.57	-	48.91	0.00	3,342.66
MW - 12	05/06/15	3391.57	-	48.33	0.00	3,343.24
MW - 12	05/20/15	3391.57	-	48.32	0.00	3,343.25
MW - 12	05/28/15	3391.57	-	48.21	0.00	3,343.36
MW - 12	06/09/15	3391.57	-	48.21	0.00	3,343.36
MW - 12	06/18/15	3391.57	-	48.21	0.00	3,343.36
MW - 12	06/30/15	3391.57	-	48.29	0.00	3,343.28

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 12	07/06/15	3391.57	-	48.25	0.00	3,343.32
MW - 12	07/09/15	3391.57	-	48.26	0.00	3,343.31
MW - 12	07/28/15	3391.57	-	48.26	0.00	3,343.31
MW - 12	08/06/15	3391.57	-	48.91	0.00	3,342.66
MW - 12	08/26/15	3391.57	-	48.41	0.00	3,343.16
MW - 12	09/09/15	3391.57	-	48.53	0.00	3,343.04
MW - 12	09/11/15	3391.57	-	48.53	0.00	3,343.04
MW - 12	09/17/15	3391.57	-	48.53	0.00	3,343.04
MW - 12	09/25/15	3391.57	-	48.60	0.00	3,342.97
MW - 12	09/30/15	3391.57	-	48.51	0.00	3,343.06
MW - 12	10/09/15	3391.57	-	48.65	0.00	3,342.92
MW - 12	10/13/15	3391.57	-	48.58	0.00	3,342.99
MW - 12	10/15/15	3391.57	-	48.58	0.00	3,342.99
MW - 12	10/21/15	3391.57	-	48.60	0.00	3,342.97
MW - 12	10/26/15	3391.57	-	48.62	0.00	3,342.95
MW - 12	11/09/15	3391.57	-	48.61	0.00	3,342.96
MW - 12	11/20/15	3391.57	-	48.54	0.00	3,343.03
MW - 12	11/25/15	3391.57	-	48.52	0.00	3,343.05
MW - 12	12/01/15	3391.57	-	48.52	0.00	3,343.05
MW - 12	12/09/15	3391.57	-	48.53	0.00	3,343.04
MW - 12	12/11/15	3391.57	-	48.40	0.00	3,343.17
MW - 12	12/15/15	3391.57	-	48.35	0.00	3,343.22
MW - 12	01/06/16	3391.57	-	48.29	0.00	3,343.28
MW - 12	01/11/16	3391.57	-	48.28	0.00	3,343.29
MW - 12	01/13/16	3391.57	-	48.08	0.00	3,343.49
MW - 12	01/28/16	3391.57	-	48.17	0.00	3,343.40
MW - 12	02/03/16	3391.57	-	48.17	0.00	3,343.40
MW - 12	02/10/16	3391.57	-	48.08	0.00	3,343.49
MW - 12	02/15/16	3391.57	-	48.04	0.00	3,343.53
MW - 12	02/17/16	3391.57	-	48.01	0.00	3,343.56
MW - 12	02/23/16	3391.57	-	48.07	0.00	3,343.50
MW - 12	03/08/16	3391.57	-	47.92	0.00	3,343.65
MW - 12	03/16/16	3391.57	-	47.90	0.00	3,343.67
MW - 12	03/18/16	3391.57	-	47.99	0.00	3,343.58
MW - 12	03/23/16	3391.57	-	47.88	0.00	3,343.69
MW - 12	03/29/16	3391.57	-	47.86	0.00	3,343.71
MW - 12	04/04/16	3391.57	-	47.94	0.00	3,343.63
MW - 12	04/08/16	3391.57	-	47.91	0.00	3,343.66
MW - 12	04/12/16	3391.57	-	47.96	0.00	3,343.61
MW - 12	04/21/16	3391.57	-	47.96	0.00	3,343.61
MW - 12	05/03/16	3391.57	-	48.18	0.00	3,343.39
MW - 12	05/12/16	3391.57	-	47.95	0.00	3,343.62
MW - 12	05/26/16	3391.57	-	47.84	0.00	3,343.73

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 12	06/09/16	3391.57	-	47.96	0.00	3,343.61
MW - 12	07/01/16	3391.57	-	47.94	0.00	3,343.63
MW - 12	07/20/16	3391.57	-	48.05	0.00	3,343.52
MW - 12	07/28/16	3391.57	-	47.99	0.00	3,343.58
MW - 12	08/04/16	3391.57	-	48.03	0.00	3,343.54
MW - 12	08/10/16	3391.57	-	48.02	0.00	3,343.55
MW - 12	08/16/16	3391.57	-	48.07	0.00	3,343.50
MW - 12	08/23/16	3391.57	-	48.06	0.00	3,343.51
MW - 12	09/12/16	3391.57	-	48.09	0.00	3,343.48
MW - 12	09/23/16	3391.57	-	48.10	0.00	3,343.47
MW - 12	09/28/16	3391.57	-	48.10	0.00	3,343.47
MW - 12	10/12/16	3391.57	-	48.06	0.00	3,343.51
MW - 12	10/17/16	3391.57	-	47.97	0.00	3,343.60
MW - 12	11/02/16	3391.57	-	48.01	0.00	3,343.56
MW - 12	11/09/16	3391.57	-	48.02	0.00	3,343.55
MW - 12	11/29/16	3391.57	-	47.82	0.00	3,343.75
MW - 12	12/16/16	3391.57	-	47.71	0.00	3,343.86
MW - 12	12/21/16	3391.57	-	47.80	0.00	3,343.77
MW - 12	01/06/17	3391.57	-	47.75	0.00	3,343.82
MW - 12	01/13/17	3391.57	-	47.69	0.00	3,343.88
MW - 12	01/20/17	3391.57	-	47.63	0.00	3,343.94
MW - 12	01/26/17	3391.57	-	47.73	0.00	3,343.84
MW - 12	02/03/17	3391.57	-	47.69	0.00	3,343.88
MW - 12	02/07/17	3391.57	-	47.68	0.00	3,343.89
MW - 12	02/16/17	3391.57	-	47.58	0.00	3,343.99
MW - 12	02/20/17	3391.57	-	47.65	0.00	3,343.92
MW - 12	02/27/17	3391.57	-	47.56	0.00	3,344.01
MW - 12	03/14/17	3391.57	-	47.55	0.00	3,344.02
MW - 12	03/21/17	3391.57	-	47.55	0.00	3,344.02
MW - 12	03/30/17	3391.57	-	47.51	0.00	3,344.06
MW - 12	04/04/17	3391.57	-	47.49	0.00	3,344.08
MW - 12	04/10/17	3391.57	-	47.51	0.00	3,344.06
MW - 12	04/21/17	3391.57	-	47.46	0.00	3,344.11
MW - 12	04/25/17	3391.57	-	47.40	0.00	3,344.17
MW - 12	05/01/17	3391.57	-	47.47	0.00	3,344.10
MW - 12	05/09/17	3391.57	-	47.46	0.00	3,344.11
MW - 12	05/15/17	3391.57	-	47.43	0.00	3,344.14
MW - 12	05/18/17	3391.57	-	47.43	0.00	3,344.14
MW - 12	05/22/17	3391.57	-	47.42	0.00	3,344.15
MW - 12	06/05/17	3391.57	-	47.43	0.00	3,344.14
MW - 12	06/14/17	3391.57	-	47.42	0.00	3,344.15
MW - 12	06/20/17	3391.57	-	47.42	0.00	3,344.15
MW - 12	06/27/17	3391.57	-	47.36	0.00	3,344.21

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 12	07/03/17	3391.57	-	47.39	0.00	3,344.18
MW - 12	07/11/17	3391.57	-	47.37	0.00	3,344.20
MW - 12	07/20/17	3391.57	-	47.41	0.00	3,344.16
MW - 12	07/24/17	3391.57	-	47.41	0.00	3,344.16
MW - 12	08/03/17	3391.57	-	47.40	0.00	3,344.17
MW - 12	08/08/17	3391.57	-	47.38	0.00	3,344.19
MW - 12	08/17/17	3391.57	-	47.38	0.00	3,344.19
MW - 12	08/21/17	3391.57	-	47.37	0.00	3,344.20
MW - 12	08/29/17	3391.57	-	47.33	0.00	3,344.24
MW - 12	09/05/17	3391.57	-	47.33	0.00	3,344.24
MW - 12	09/12/17	3391.57	-	47.26	0.00	3,344.31
MW - 12	09/18/17	3391.57	-	47.27	0.00	3,344.30
MW - 12	10/06/17	3391.57	-	47.25	0.00	3,344.32
MW - 12	10/13/17	3391.57	-	47.23	0.00	3,344.34
MW - 12	10/18/17	3391.57	-	47.23	0.00	3,344.34
MW - 12	10/20/17	3391.57	-	47.23	0.00	3,344.34
MW - 12	10/26/17	3391.57	-	47.19	0.00	3,344.38
MW - 12	10/31/17	3391.57	-	47.18	0.00	3,344.39
MW - 12	11/07/17	3391.57	-	47.24	0.00	3,344.33
MW - 12	11/17/17	3391.57	-	47.16	0.00	3,344.41
MW - 12	12/01/17	3391.57	-	47.16	0.00	3,344.41
MW - 12	12/07/17	3391.57	-	47.19	0.00	3,344.38
MW - 12	12/12/17	3391.57	-	47.23	0.00	3,344.34
MW - 12	12/18/17	3391.57	-	47.14	0.00	3,344.43
MW - 12	01/05/18	3391.57	-	47.15	0.00	3,344.42
MW - 12	01/19/18	3391.57	-	47.12	0.00	3,344.45
MW - 12	01/23/18	3391.57	-	47.13	0.00	3,344.44
MW - 12	01/31/18	3391.57	-	47.04	0.00	3,344.53
MW - 12	02/09/18	3391.57	-	47.07	0.00	3,344.50
MW - 12	02/16/18	3391.57	-	47.17	0.00	3,344.40
MW - 12	02/22/18	3391.57	-	47.09	0.00	3,344.48
MW - 12	03/01/18	3391.57	-	47.17	0.00	3,344.40
MW - 12	03/15/18	3391.57	-	47.05	0.00	3,344.52
MW - 12	03/23/18	3391.57	-	47.08	0.00	3,344.49
MW - 12	03/30/18	3391.57	-	47.09	0.00	3,344.48
MW - 12	04/04/18	3391.57	-	47.16	0.00	3,344.41
MW - 12	04/11/18	3391.57	-	47.03	0.00	3,344.54
MW - 12	04/20/18	3391.57	-	47.05	0.00	3,344.52
MW - 12	04/25/18	3391.57	-	47.08	0.00	3,344.49
MW - 12	05/02/18	3391.57	-	47.01	0.00	3,344.56
MW - 12	05/23/18	3391.57	-	47.05	0.00	3,344.52
MW - 12	05/31/18	3391.57	-	47.05	0.00	3,344.52
MW - 12	06/15/18	3391.57	-	47.09	0.00	3,344.48

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 12	06/20/18	3391.57	-	47.10	0.00	3,344.47
MW - 12	06/27/18	3391.57	-	47.15	0.00	3,344.42
MW - 12	07/05/18	3391.57	-	47.19	0.00	3,344.38
MW - 12	07/09/18	3391.57	-	47.21	0.00	3,344.36
MW - 12	07/26/18	3391.57	-	47.22	0.00	3,344.35
MW - 12	07/31/18	3391.57	-	47.29	0.00	3,344.28
MW - 12	08/29/18	3391.57	-	47.34	0.00	3,344.23
MW - 12	09/19/18	3391.57	-	47.31	0.00	3,344.26
MW - 12	09/28/18	3391.57	-	47.32	0.00	3,344.25
MW - 12	10/17/18	3391.57	-	47.43	0.00	3,344.14
MW - 12	11/29/18	3391.57	-	47.22	0.00	3,344.35
MW - 12	12/03/18	3391.57	-	47.25	0.00	3,344.32
MW - 12	12/13/18	3391.57	-	47.24	0.00	3,344.33
MW - 12	12/21/18	3391.57	-	47.11	0.00	3,344.46
MW - 12	12/28/18	3391.57	-	47.18	0.00	3,344.39
MW - 12	01/03/19	3391.57	-	47.13	0.00	3,344.44
MW - 12	01/07/19	3391.57	-	47.13	0.00	3,344.44
MW - 12	01/16/19	3391.57	-	47.09	0.00	3,344.48
MW - 12	01/21/19	3391.57	-	47.03	0.00	3,344.54
MW - 12	01/28/19	3391.57	-	47.13	0.00	3,344.44
MW - 12	02/19/19	3391.57	-	47.02	0.00	3,344.55
MW - 12	03/01/19	3391.57	-	47.03	0.00	3,344.54
MW - 12	03/05/19	3391.57	-	47.12	0.00	3,344.45
MW - 12	03/20/19	3391.57	-	47.08	0.00	3,344.49
MW - 12	04/04/19	3391.57	-	47.02	0.00	3,344.55
MW - 12	04/09/19	3391.57	-	46.96	0.00	3,344.61
MW - 12	04/16/19	3391.57	-	46.96	0.00	3,344.61
MW - 12	04/23/19	3391.57	-	46.94	0.00	3,344.63
MW - 12	05/10/19	3391.57	-	46.98	0.00	3,344.59
MW - 12	05/23/19	3391.57	-	46.94	0.00	3,344.63
MW - 12	06/11/19	3391.57	-	46.91	0.00	3,344.66
MW - 12	06/20/19	3391.57	-	46.90	0.00	3,344.67
MW - 12	06/25/19	3391.57	-	46.93	0.00	3,344.64
MW - 12	07/03/19	3391.57	-	46.91	0.00	3,344.66
MW - 12	07/15/19	3391.57	-	46.91	0.00	3,344.66
MW - 12	07/31/19	3391.57	-	46.90	0.00	3,344.67
MW - 12	08/15/19	3391.57	-	46.88	0.00	3,344.69
MW - 12	09/06/19	3391.57	-	46.88	0.00	3,344.69
MW - 12	09/18/19	3391.57	-	46.80	0.00	3,344.77
MW - 12	11/13/19	3391.57	-	46.64	0.00	3,344.93
MW - 12	11/25/19	3391.57	-	46.64	0.00	3,344.93
MW - 12	12/05/19	3391.57	-	46.71	0.00	3,344.86
MW - 12	12/12/19	3391.57	-	46.68	0.00	3,344.89

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 12	01/24/20	3391.57	-	46.65	0.00	3,344.92
MW - 12	02/21/20	3391.57	-	46.68	0.00	3,344.89
MW - 12	01/02/00	3391.57	-	46.68	0.00	3,344.89
MW - 12	02/14/20	3391.57	-	46.65	0.00	3,344.92
MW - 12	02/25/20	3391.57	-	46.69	0.00	3,344.88
MW - 12	05/28/20	3391.57	-	46.55	0.00	3,345.02
MW - 12	06/15/20	3391.57	-	46.55	0.00	3,345.02
MW - 12	08/27/20	3391.57	-	46.68	0.00	3,344.89
MW - 12	09/10/20	3391.57	-	46.79	0.00	3,344.78
MW - 12	10/21/20	3391.57	-	46.75	0.00	3,344.82
MW - 12	11/02/20	3391.57	-	46.81	0.00	3,344.76
MW - 12	12/01/20	3391.57	-	46.62	0.00	3,344.95
MW - 12	01/06/21	3391.57	-	46.69	0.00	3,344.88
MW - 12	02/04/21	3391.57	-	46.69	0.00	3,344.88
MW - 12	02/12/21	3391.57	-	46.72	0.00	3,344.85
MW - 12	04/13/21	3391.57	-	46.48	0.00	3,345.09
MW - 12	04/26/21	3391.57	-	46.38	0.00	3,345.19
MW - 12	06/17/21	3391.57	-	46.47	0.00	3,345.10
MW - 12	07/28/21	3391.57	-	46.64	0.00	3,344.93
MW - 12	08/19/21	3391.57	-	46.70	0.00	3,344.87
MW - 12	09/24/21	3391.57	-	46.80	0.00	3,344.77
MW - 12	10/18/21	3391.57	-	46.84	0.00	3,344.73
MW - 12	10/25/21	3391.57	-	46.87	0.00	3,344.70
MW - 12	11/30/21	3391.57	-	46.87	0.00	3,344.70
MW - 12	01/17/22	3391.57	-	46.84	0.00	3,344.73
MW - 12	03/02/22	3391.57	-	46.90	0.00	3,344.67
MW - 12	05/26/22	3391.57	-	47.01	0.00	3,344.56
MW - 12	09/12/22	3391.57	-	47.41	0.00	3,344.16
MW - 12	11/29/22	3391.57	-	47.40	0.00	3,344.17
MW - 12	02/21/23	3391.57	-	47.40	0.00	3,344.17
MW - 12	05/23/23	3391.57	-	47.26	0.00	3,344.31
MW - 12	08/03/23	3391.57	-	47.64	0.00	3,343.93
MW - 12	08/15/23	3391.57	-	47.71	0.00	3,343.86
MW - 12	11/16/23	3391.57	-	47.82	0.00	3,343.75
MW - 13	03/05/14	3391.89	49.21	49.55	0.34	3,342.63
MW - 13	03/13/14	3391.89	49.14	49.69	0.55	3,342.67
MW - 13	03/29/14	3391.89	49.10	49.72	0.62	3,342.70
MW - 13	04/08/14	3391.89	49.16	49.87	0.71	3,342.62
MW - 13	04/17/14	3391.89	49.13	49.94	0.81	3,342.64
MW - 13	04/25/14	3391.89	49.01	49.85	0.84	3,342.75
MW - 13	05/01/14	3391.89	49.17	49.33	0.16	3,342.70
MW - 13	05/08/14	3391.89	49.11	49.25	0.14	3,342.76

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 13	05/14/14	3391.89	49.07	49.29	0.22	3,342.79
MW - 13	05/23/14	3391.89	49.19	49.39	0.20	3,342.67
MW - 13	05/27/14	3391.89	49.20	49.25	0.05	3,342.68
MW - 13	05/29/14	3391.89	49.23	49.33	0.10	3,342.65
MW - 13	06/11/14	3391.89	49.22	49.54	0.32	3,342.62
MW - 13	06/05/14	3391.89	49.20	49.46	0.26	3,342.65
MW - 13	06/18/14	3391.89	49.20	49.65	0.45	3,342.62
MW - 13	06/26/14	3391.89	49.22	49.82	0.60	3,342.58
MW - 13	07/01/14	3391.89	49.38	49.60	0.22	3,342.48
MW - 13	07/10/14	3391.89	49.36	49.75	0.39	3,342.47
MW - 13	07/17/14	3391.89	49.35	49.91	0.56	3,342.46
MW - 13	07/23/14	3391.89	49.50	49.75	0.25	3,342.35
MW - 13	07/31/14	3391.89	49.48	49.85	0.37	3,342.35
MW - 13	08/06/14	3391.89	49.47	49.73	0.26	3,342.38
MW - 13	08/12/14	3391.89	49.52	49.80	0.28	3,342.33
MW - 13	08/21/14	3391.89	49.50	49.94	0.44	3,342.32
MW - 13	09/04/14	3391.89	48.49	50.08	1.59	3,343.16
MW - 13	10/02/14	3391.89	49.39	49.98	0.59	3,342.41
MW - 13	10/08/14	3391.89	49.40	49.49	0.09	3,342.48
MW - 13	10/14/14	3391.89	49.42	49.48	0.06	3,342.46
MW - 13	10/17/14	3391.89	49.43	49.49	0.06	3,342.45
MW - 13	10/23/14	3391.89	49.37	49.53	0.16	3,342.50
MW - 13	10/24/14	3391.89	49.37	49.53	0.16	3,342.50
MW - 13	10/28/14	3391.89	49.36	49.44	0.08	3,342.52
MW - 13	11/07/14	3391.89	49.26	49.60	0.34	3,342.58
MW - 13	11/14/14	3391.89	49.30	49.44	0.14	3,342.57
MW - 13	11/15/14	3391.89	49.21	49.40	0.19	3,342.65
MW - 13	12/04/14	3391.89	49.28	49.42	0.14	3,342.59
MW - 13	12/11/14	3391.89	49.31	49.42	0.11	3,342.56
MW - 13	12/18/14	3391.89	48.99	49.86	0.87	3,342.77
MW - 13	12/23/14	3391.89	49.29	49.40	0.11	3,342.58
MW - 13	01/07/15	3391.89	49.19	49.36	0.17	3,342.67
MW - 13	01/15/15	3391.89	49.06	49.18	0.12	3,342.81
MW - 13	01/28/15	3391.89	48.93	49.03	0.10	3,342.95
MW - 13	02/04/15	3391.89	48.90	49.02	0.12	3,342.97
MW - 13	02/13/15	3391.89	48.92	48.97	0.05	3,342.96
MW - 13	02/16/15	3391.89	48.90	48.94	0.04	3,342.98
MW - 13	02/17/15	3391.89	48.93	49.02	0.09	3,342.95
MW - 13	02/24/15	3391.89	48.89	48.95	0.06	3,342.99
MW - 13	03/10/15	3391.89	48.82	48.87	0.05	3,343.06
MW - 13	03/17/15	3391.89	48.81	48.88	0.07	3,343.07
MW - 13	03/18/15	3391.89	48.76	48.83	0.07	3,343.12
MW - 13	03/25/15	3391.89	48.73	48.80	0.07	3,343.15

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 13	04/07/15	3391.89	48.71	48.81	0.10	3,343.17
MW - 13	04/08/15	3391.89	48.63	48.68	0.05	3,343.25
MW - 13	04/21/15	3391.89	48.68	48.76	0.08	3,343.20
MW - 13	04/28/15	3391.89	49.32	49.40	0.08	3,342.56
MW - 13	05/06/15	3391.89	48.87	48.92	0.05	3,343.01
MW - 13	05/20/15	3391.89	48.52	48.62	0.10	3,343.36
MW - 13	05/28/15	3391.89	48.47	48.54	0.07	3,343.41
MW - 13	06/02/15	3391.89	48.44	48.52	0.08	3,343.44
MW - 13	06/09/15	3391.89	48.41	48.50	0.09	3,343.47
MW - 13	06/18/15	3391.89	47.80	47.85	0.05	3,344.08
MW - 13	06/30/15	3391.89	48.60	48.66	0.06	3,343.28
MW - 13	07/06/15	3391.89	48.82	48.86	0.04	3,343.06
MW - 13	07/09/15	3391.89	48.80	48.83	0.03	3,343.09
MW - 13	07/21/15	3391.89	48.57	48.61	0.04	3,343.31
MW - 13	07/28/15	3391.89	48.50	48.55	0.05	3,343.38
MW - 13	08/06/15	3391.89	49.31	49.39	0.08	3,342.57
MW - 13	08/11/15	3391.89	48.57	48.62	0.05	3,343.31
MW - 13	08/18/15	3391.89	48.59	48.60	0.01	3,343.30
MW - 13	08/26/15	3391.89	48.73	48.76	0.03	3,343.16
MW - 13	09/11/15	3391.89	48.70	48.75	0.05	3,343.18
MW - 13	09/17/15	3391.89	48.70	48.76	0.06	3,343.18
MW - 13	09/25/15	3391.89	48.78	48.86	0.08	3,343.10
MW - 13	09/30/15	3391.89	48.78	48.88	0.10	3,343.10
MW - 13	10/06/15	3391.89	48.77	48.84	0.07	3,343.11
MW - 13	10/09/15	3391.89	48.83	48.92	0.09	3,343.05
MW - 13	10/13/15	3391.89	48.72	48.83	0.11	3,343.15
MW - 13	10/15/15	3391.89	48.46	48.56	0.10	3,343.42
MW - 13	10/21/15	3391.89	48.77	48.88	0.11	3,343.10
MW - 13	10/26/15	3391.89	48.75	48.86	0.11	3,343.12
MW - 13	11/09/15	3391.89	48.72	48.87	0.15	3,343.15
MW - 13	11/20/15	3391.89	48.72	48.91	0.19	3,343.14
MW - 13	11/25/15	3391.89	48.68	48.90	0.22	3,343.18
MW - 13	12/01/15	3391.89	48.68	48.90	0.22	3,343.18
MW - 13	12/09/15	3391.89	48.68	48.90	0.22	3,343.18
MW - 13	12/11/15	3391.89	48.58	48.78	0.20	3,343.28
MW - 13	12/15/15	3391.89	48.56	48.76	0.20	3,343.30
MW - 13	01/06/16	3391.89	48.40	48.61	0.21	3,343.46
MW - 13	01/11/16	3391.89	48.42	48.63	0.21	3,343.44
MW - 13	01/13/16	3391.89	48.40	48.61	0.21	3,343.46
MW - 13	01/28/16	3391.89	48.33	48.53	0.20	3,343.53
MW - 13	02/03/16	3391.89	48.32	48.55	0.23	3,343.54
MW - 13	02/10/16	3391.89	48.25	48.45	0.20	3,343.61
MW - 13	02/15/16	3391.89	48.17	48.37	0.20	3,343.69

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 13	02/17/16	3391.89	48.19	48.39	0.20	3,343.67
MW - 13	02/23/16	3391.89	48.19	48.39	0.20	3,343.67
MW - 13	03/08/16	3391.89	48.07	48.25	0.18	3,343.79
MW - 13	03/16/16	3391.89	48.06	48.25	0.19	3,343.80
MW - 13	03/18/16	3391.89	48.16	48.36	0.20	3,343.70
MW - 13	03/23/16	3391.89	48.05	48.24	0.19	3,343.81
MW - 13	03/29/16	3391.89	41.03	41.21	0.18	3,350.83
MW - 13	04/04/16	3391.89	48.30	48.90	0.60	3,343.50
MW - 13	04/08/16	3391.89	48.08	48.28	0.20	3,343.78
MW - 13	04/12/16	3391.89	48.10	48.41	0.31	3,343.74
MW - 13	05/03/16	3391.89	48.32	48.55	0.23	3,343.54
MW - 13	05/12/16	3391.89	48.10	48.33	0.23	3,343.76
MW - 13	05/26/16	3391.89	48.01	48.19	0.18	3,343.85
MW - 13	06/09/16	3391.89	48.07	48.29	0.22	3,343.79
MW - 13	07/01/16	3391.89	48.04	48.27	0.23	3,343.82
MW - 13	07/20/16	3391.89	48.16	48.40	0.24	3,343.69
MW - 13	07/28/16	3391.89	48.11	48.38	0.27	3,343.74
MW - 13	08/04/16	3391.89	48.20	48.43	0.23	3,343.66
MW - 13	08/10/16	3391.89	48.17	48.42	0.25	3,343.68
MW - 13	08/16/16	3391.89	48.22	48.47	0.25	3,343.63
MW - 13	08/23/16	3391.89	48.20	48.46	0.26	3,343.65
MW - 13	09/12/16	3391.89	48.23	48.47	0.24	3,343.62
MW - 13	09/23/16	3391.89	48.21	48.46	0.25	3,343.64
MW - 13	09/28/16	3391.89	48.26	48.50	0.24	3,343.59
MW - 13	10/12/16	3391.89	48.18	48.39	0.21	3,343.68
MW - 13	10/17/16	3391.89	48.13	48.30	0.17	3,343.73
MW - 13	11/02/16	3391.89	48.13	48.31	0.18	3,343.73
MW - 13	11/09/16	3391.89	48.15	48.32	0.17	3,343.71
MW - 13	11/29/16	3391.89	48.03	48.20	0.17	3,343.83
MW - 13	12/16/16	3391.89	47.89	48.04	0.15	3,343.98
MW - 13	12/21/16	3391.89	48.00	48.13	0.13	3,343.87
MW - 13	01/13/17	3391.89	47.87	48.04	0.17	3,343.99
MW - 13	01/20/17	3391.89	47.80	47.97	0.17	3,344.06
MW - 13	01/26/17	3391.89	47.90	48.09	0.19	3,343.96
MW - 13	02/07/17	3391.89	47.86	48.00	0.14	3,344.01
MW - 13	02/20/17	3391.89	47.81	47.95	0.14	3,344.06
MW - 13	02/27/17	3391.89	47.79	47.94	0.15	3,344.08
MW - 13	03/30/17	3391.89	47.69	47.84	0.15	3,344.18
MW - 13	04/04/17	3391.89	47.68	47.83	0.15	3,344.19
MW - 13	04/21/17	3391.89	47.66	47.81	0.15	3,344.21
MW - 13	05/18/17	3391.89	47.63	47.76	0.13	3,344.24
MW - 13	07/20/17	3391.89	47.60	47.76	0.16	3,344.27
MW - 13	08/29/17	3391.89	47.52	47.67	0.15	3,344.35

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 13	10/13/17	3391.89	47.45	47.59	0.14	3,344.42
MW - 13	10/20/17	3391.89	47.45	47.59	0.14	3,344.42
MW - 13	10/31/17	3391.89	47.39	47.52	0.13	3,344.48
MW - 13	11/07/17	3391.89	47.47	47.57	0.10	3,344.41
MW - 13	12/18/17	3391.89	47.37	47.42	0.05	3,344.51
MW - 13	01/05/18	3391.89	47.38	47.43	0.05	3,344.50
MW - 13	01/31/18	3391.89	47.27	47.31	0.04	3,344.61
MW - 13	02/22/18	3391.89	47.34	47.38	0.04	3,344.54
MW - 13	03/15/18	3391.89	47.29	47.35	0.06	3,344.59
MW - 13	03/23/18	3391.89	47.32	47.37	0.05	3,344.56
MW - 13	04/11/18	3391.89	47.32	47.36	0.04	3,344.56
MW - 13	04/20/18	3391.89	47.29	47.30	0.01	3,344.60
MW - 13	04/25/18	3391.89	47.32	47.34	0.02	3,344.57
MW - 13	05/02/18	3391.89	47.25	47.27	0.02	3,344.64
MW - 13	05/10/18	3391.89	47.22	47.24	0.02	3,344.67
MW - 13	05/23/18	3391.89	47.27	47.28	0.01	3,344.62
MW - 13	05/31/18	3391.89	47.28	47.30	0.02	3,344.61
MW - 13	06/15/18	3391.89	-	47.52	0.00	3,344.37
MW - 13	06/20/18	3391.89	-	47.72	0.00	3,344.17
MW - 13	06/27/18	3391.89	-	47.50	0.00	3,344.39
MW - 13	07/05/18	3391.89	-	47.49	0.00	3,344.40
MW - 13	07/09/18	3391.89	-	47.58	0.00	3,344.31
MW - 13	07/26/18	3391.89	-	47.57	0.00	3,344.32
MW - 13	07/31/18	3391.89	-	47.73	0.00	3,344.16
MW - 13	08/14/18	3391.89	-	47.48	0.00	3,344.41
MW - 13	08/29/18	3391.89	-	47.57	0.00	3,344.32
MW - 13	09/07/18	3391.89	-	47.56	0.00	3,344.33
MW - 13	09/28/18	3391.89	-	47.57	0.00	3,344.32
MW - 13	10/04/18	3391.89	-	47.61	0.00	3,344.28
MW - 13	10/17/18	3391.89	-	47.75	0.00	3,344.14
MW - 13	11/09/18	3391.89	-	47.72	0.00	3,344.17
MW - 13	11/15/18	3391.89	-	47.61	0.00	3,344.28
MW - 13	11/19/18	3391.89	-	47.65	0.00	3,344.24
MW - 13	11/29/18	3391.89	-	47.61	0.00	3,344.28
MW - 13	12/03/18	3391.89	-	47.69	0.00	3,344.20
MW - 13	12/13/18	3391.89	-	47.50	0.00	3,344.39
MW - 13	12/21/18	3391.89	-	47.45	0.00	3,344.44
MW - 13	12/28/18	3391.89	-	47.58	0.00	3,344.31
MW - 13	01/03/19	3391.89	-	47.71	0.00	3,344.18
MW - 13	01/07/19	3391.89	-	47.58	0.00	3,344.31
MW - 13	01/16/19	3391.89	-	47.71	0.00	3,344.18
MW - 13	01/21/19	3391.89	-	47.45	0.00	3,344.44
MW - 13	01/28/19	3391.89	-	47.67	0.00	3,344.22

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 13	02/08/19	3391.89	-	47.57	0.00	3,344.32
MW - 13	02/13/19	3391.89	-	47.41	0.00	3,344.48
MW - 13	02/19/19	3391.89	-	47.31	0.00	3,344.58
MW - 13	03/01/19	3391.89	-	47.55	0.00	3,344.34
MW - 13	03/05/19	3391.89	-	47.48	0.00	3,344.41
MW - 13	03/20/19	3391.89	-	47.86	0.00	3,344.03
MW - 13	03/27/19	3391.89	-	47.40	0.00	3,344.49
MW - 13	04/04/19	3391.89	-	47.56	0.00	3,344.33
MW - 13	04/09/19	3391.89	-	47.36	0.00	3,344.53
MW - 13	04/16/19	3391.89	-	47.47	0.00	3,344.42
MW - 13	04/23/19	3391.89	-	47.36	0.00	3,344.53
MW - 13	05/03/19	3391.89	-	47.26	0.00	3,344.63
MW - 13	05/10/19	3391.89	-	47.49	0.00	3,344.40
MW - 13	05/23/19	3391.89	-	47.20	0.00	3,344.69
MW - 13	06/11/19	3391.89	-	47.20	0.00	3,344.69
MW - 13	06/20/19	3391.89	-	47.25	0.00	3,344.64
MW - 13	06/25/19	3391.89	-	47.28	0.00	3,344.61
MW - 13	07/03/19	3391.89	-	47.39	0.00	3,344.50
MW - 13	07/15/19	3391.89	-	47.61	0.00	3,344.28
MW - 13	07/31/19	3391.89	-	47.60	0.00	3,344.29
MW - 13	08/07/19	3391.89	-	47.31	0.00	3,344.58
MW - 13	08/15/19	3391.89	-	47.22	0.00	3,344.67
MW - 13	08/23/19	3391.89	-	47.27	0.00	3,344.62
MW - 13	09/06/19	3391.89	-	47.25	0.00	3,344.64
MW - 13	09/10/19	3391.89	-	47.25	0.00	3,344.64
MW - 13	09/18/19	3391.89	-	47.16	0.00	3,344.73
MW - 13	10/18/19	3391.89	-	47.08	0.00	3,344.81
MW - 13	10/24/19	3391.89	-	47.08	0.00	3,344.81
MW - 13	11/01/19	3391.89	-	47.42	0.00	3,344.47
MW - 13	11/13/19	3391.89	-	47.05	0.00	3,344.84
MW - 13	11/25/19	3391.89	-	46.96	0.00	3,344.93
MW - 13	12/05/19	3391.89	-	47.02	0.00	3,344.87
MW - 13	12/12/19	3391.89	-	46.94	0.00	3,344.95
MW - 13	12/27/19	3391.89	-	46.91	0.00	3,344.98
MW - 13	01/06/20	3391.89	-	46.98	0.00	3,344.91
MW - 13	01/16/20	3391.89	-	46.98	0.00	3,344.91
MW - 13	01/24/20	3391.89	-	46.97	0.00	3,344.92
MW - 13	01/31/20	3391.89	-	47.05	0.00	3,344.84
MW - 13	02/06/20	3391.89	-	46.88	0.00	3,345.01
MW - 13	02/14/20	3391.89	-	46.91	0.00	3,344.98
MW - 13	02/21/20	3391.89	-	46.95	0.00	3,344.94
MW - 13	02/25/20	3391.89	-	46.94	0.00	3,344.95
MW - 13	05/28/20	3391.89	-	46.83	0.00	3,345.06

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 13	06/15/20	3391.89	-	46.81	0.00	3,345.08
MW - 13	07/02/20	3391.89	-	46.84	0.00	3,345.05
MW - 13	07/29/20	3391.89	-	46.98	0.00	3,344.91
MW - 13	08/20/20	3391.89	-	47.06	0.00	3,344.83
MW - 13	08/27/20	3391.89	-	47.06	0.00	3,344.83
MW - 13	09/10/20	3391.89	-	47.20	0.00	3,344.69
MW - 13	10/21/20	3391.89	-	47.12	0.00	3,344.77
MW - 13	11/02/20	3391.89	-	47.06	0.00	3,344.83
MW - 13	12/01/20	3391.89	-	46.90	0.00	3,344.99
MW - 13	12/07/20	3391.89	-	46.97	0.00	3,344.92
MW - 13	01/06/21	3391.89	-	46.88	0.00	3,345.01
MW - 13	02/04/21	3391.89	-	46.92	0.00	3,344.97
MW - 13	02/12/21	3391.89	-	46.91	0.00	3,344.98
MW - 13	03/31/21	3391.89	-	46.80	0.00	3,345.09
MW - 13	04/13/21	3391.89	-	46.71	0.00	3,345.18
MW - 13	04/26/21	3391.89	-	46.70	0.00	3,345.19
MW - 13	05/11/21	3391.89	-	46.68	0.00	3,345.21
MW - 13	06/17/21	3391.89	-	46.71	0.00	3,345.18
MW - 13	07/12/21	3391.89	-	46.83	0.00	3,345.06
MW - 13	07/28/21	3391.89	-	46.90	0.00	3,344.99
MW - 13	08/10/21	3391.89	-	46.96	0.00	3,344.93
MW - 13	08/19/21	3391.89	-	46.98	0.00	3,344.91
MW - 13	09/14/21	3391.89	-	47.07	0.00	3,344.82
MW - 13	09/24/21	3391.89	-	47.09	0.00	3,344.80
MW - 13	10/18/21	3391.89	-	47.13	0.00	3,344.76
MW - 13	10/25/21	3391.89	-	47.16	0.00	3,344.73
MW - 13	11/04/21	3391.89	-	47.19	0.00	3,344.70
MW - 13	11/30/21	3391.89	-	47.15	0.00	3,344.74
MW - 13	12/27/21	3391.89	-	47.11	0.00	3,344.78
MW - 13	01/03/22	3391.89	-	47.22	0.00	3,344.67
MW - 13	01/17/22	3391.89	-	47.16	0.00	3,344.73
MW - 13	02/11/22	3391.89	-	47.15	0.00	3,344.74
MW - 13	03/02/22	3391.89	-	47.21	0.00	3,344.68
MW - 13	03/24/22	3391.89	-	47.19	0.00	3,344.70
MW - 13	04/08/22	3391.89	-	47.39	0.00	3,344.50
MW - 13	04/22/22	3391.89	-	47.19	0.00	3,344.70
MW - 13	05/06/22	3391.89	-	47.25	0.00	3,344.64
MW - 13	05/26/22	3391.89	-	47.24	0.00	3,344.65
MW - 13	06/20/22	3391.89	47.34	47.35	0.01	3,344.55
MW - 13	07/11/22	3391.89	-	47.42	0.00	3,344.47
MW - 13	08/19/22	3391.89	-	47.68	0.00	3,344.21
MW - 13	09/12/22	3391.89	-	47.69	0.00	3,344.20
MW - 13	09/21/22	3391.89	-	47.71	0.00	3,344.18

TABLE 4

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, LP
TNM 98-05A
LEA COUNTY, NEW MEXICO

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 13	10/05/22	3391.89	-	47.80	0.00	3,344.09
MW - 13	11/22/22	3391.89	-	47.75	0.00	3,344.14
MW - 13	11/29/22	3391.89	-	47.77	0.00	3,344.12
MW - 13	12/05/22	3391.89	-	47.70	0.00	3,344.19
MW - 13	01/04/23	3391.89	-	47.82	0.00	3,344.07
MW - 13	02/21/23	3391.89	-	47.68	0.00	3,344.21
MW - 13	03/22/23	3391.89	-	47.77	0.00	3,344.12
MW - 13	04/14/23	3391.89	-	47.63	0.00	3,344.26
MW - 13	05/22/23	3391.89	-	47.65	0.00	3,344.24
MW - 13	05/23/23	3391.89	-	47.65	0.00	3,344.24
MW - 13	06/28/23	3391.89	-	47.78	0.00	3,344.11
MW - 13	07/14/23	3391.89	-	47.90	0.00	3,343.99
MW - 13	08/03/23	3391.89	-	47.86	0.00	3,344.03
MW - 13	08/15/23	3391.89	-	47.93	0.00	3,343.96
MW - 13	09/12/23	3391.89	-	48.22	0.00	3,343.67
MW - 13	11/16/23	3391.89	-	48.15	0.00	3,343.74
MW - 13	11/17/23	3391.89	-	48.15	0.00	3,343.74

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 1	02/09/04	4.090	0.020	1.470	0.547	
MW - 1	05/04/04	5.470	0.058	1.540	0.353	
MW - 1	12/04/04	16.20	0.590	1.500	1.560	
MW - 1	03/07/05	16.90	<0.1	1.500	0.644	
MW - 1	06/07/05	15.60	<0.2	1.910	0.807	
MW - 1	09/07/05	9.550	<0.2	1.600	0.553	
MW - 1	12/14/05	Not Sampled				
MW - 1	01/12/06	1.000	0.242	0.774	0.534	
MW - 1	03/06/06	9.960	<0.1	2.240	1.640	
MW - 1	06/05/06	7.080	<0.2	1.660	1.220	
MW - 1	09/11/06	7.860	0.076	2.420	1.440	
MW - 1	11/21/06	6.170	<0.1	1.320	1.200	
MW - 1	02/20/07	3.000	0.125	0.993	0.493	
MW - 1	05/15/07	4.010	<0.100	1.580	0.681	
MW - 1	08/09/07	3.770	<0.100	1.280	0.471	
MW - 1	11/13/07	5.550	0.149	2.200	0.560	
MW - 1	02/14/08	3.480	0.151	1.310	0.699	
MW - 1	06/05/08	3.620	0.122	0.984	0.179	
MW - 1	08/19/08	4.290	0.199	1.250	0.391	
MW - 1	11/19/08	3.820	0.135	0.128	0.471	
MW - 1	02/18/09	2.420	<0.001	0.511	<0.1	
MW - 1	05/19/09	0.640	<0.001	1.460	2.000	
MW - 1	08/13/09	2.940	<0.100	0.888	<0.100	
MW - 1	11/11/09	2.880	<0.100	1.210	0.762	
MW - 1	02/04/10	2.300	<0.100	0.156	<0.100	
MW - 1	05/07/10	2.940	<0.100	0.657	<0.100	
MW - 1	08/06/10	2.760	<0.050	0.390	0.118	
MW - 1	11/05/10	2.250	<0.0500	0.435	<0.0500	
MW - 1	02/11/11	2.380	<0.0500	0.529	<0.0500	
MW - 1	05/09/11	2.940	<0.0500	0.669	<0.0500	
MW - 1	08/05/11	3.530	<0.0500	1.010	1.130	
MW - 1	11/17/11	2.980	<0.020	1.300	0.092	
MW - 1	02/28/12	3.200	<0.100	1.410	<0.100	
MW - 1	05/03/12	2.340	<0.02	0.996	0.303	
MW - 1	08/24/12	1.640	<0.05	0.149	<0.150	
MW - 1	11/15/12	1.58	0.0128	0.526	0.0665	
MW - 1	02/14/13	1.84	<0.0200	0.0993	0.0993	
MW - 1	05/28/13	0.86	<0.0100	0.2160	<0.01	
MW - 1	08/06/13	1.26	0.0118	0.2660	0.0686	
MW - 1	11/07/13	1.40	<0.0500	0.1900	<0.150	
MW - 1	03/05/14	1.22	<0.0500	0.0969	<0.150	
MW - 1	08/13/14	0.722	<0.0500	<0.0500	<0.0500	

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 1	08/13/14	0.722	<0.0500	<0.0500	<0.0500	
MW - 1	11/15/14	0.500	<0.0500	0.170	0.345	
MW - 1	02/16/15	0.261	<0.0500	<0.0500	<0.0500	
MW - 1	05/28/15	0.458	<0.0500	<0.0500	<0.0500	
MW - 1	08/26/15	0.382	<0.00100	0.0216	0.0255	
MW - 1	11/20/15	0.391	0.00240	0.0283	0.0395	
MW - 1	02/17/16	0.203	<0.0500	0.177	0.343	
MW - 1	05/26/16	Not Sampled Due to PSH in Well				
MW - 1	08/04/16	Not Sampled Due to PSH in Well				
MW - 1	11/29/16	Not Sampled Due to PSH in Well				
MW - 1	02/27/17	Not Sampled Due to PSH in Well				
MW - 1	05/18/17	1.39	0.0495	1.13	1.601	
MW - 1	08/29/17	Not Sampled Due to PSH in Well				
MW - 1	11/07/17	0.394	0.00346	0.0646	0.0681	
MW - 1	02/22/18	0.470	0.0275	0.0631	0.0862	
MW - 1	05/23/18	0.259	<0.0100	0.207	0.1757	
MW - 1	08/29/18	0.322	<0.0100	0.0405	0.0298	
MW - 1	11/29/18	0.238	<0.0100	0.0154	<0.0200	
MW - 1	03/05/19	0.252	0.00504	0.0348	0.02966	
MW - 1	06/11/19	0.251	<0.00500	<0.00500	<0.0100	
MW - 1	08/15/19	0.153	<0.00100	0.00984	0.01770	
MW - 1	11/25/19	0.110	0.00150	0.0114	0.00669	
MW - 1	02/25/20	0.113	0.00206	0.00742	0.01623	
MW - 1	06/15/20	0.104	0.00280	0.0126	0.01287	
MW - 1	08/27/20	0.0912	0.00249	0.00566	0.00780	
MW - 1	12/01/20	0.120	0.0137	0.00118	<0.00200	
MW - 1	02/04/21	0.0794	0.00871	0.00187	0.00456	
MW - 1	06/17/21	0.0440	0.00185	<0.00100	<0.00200	
MW - 1	09/24/21	0.0582	<0.00100	<0.00100	<0.00200	
MW - 1	12/02/21	0.0355	<0.00100	<0.00100	<0.00200	
MW - 1	03/02/22	0.0255	0.00136	<0.00100	<0.00200	
MW - 1	05/25/22	0.0282	0.00600	0.00470	0.02280	
MW - 1	09/14/22	0.0315	0.00142	0.00130	0.00443	
MW - 1	11/30/22	0.0343	0.00649	0.00703	0.02595	
MW - 1	02/22/23	0.0279	0.00686	0.00422	0.0239	
MW - 1	05/23/23	0.0176	0.00301	0.00231	0.00211	
MW - 1	08/15/23	0.0104	0.00521	<0.00100	0.0138	
MW - 1	11/15/23	0.00413	0.00184	0.00904	0.00592	
MW - 2	05/04/04	7.280	0.525	0.884	0.553	
MW - 2	03/07/05	6.020	1.510	1.170	1.270	
MW - 2	06/07/05	3.960	0.371	1.340	1.130	

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030					
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62		
MW - 2	09/07/05	4.670	0.283	1.210	1.040		
MW - 2	12/14/05	0.969	0.327	0.699	0.423		
MW - 2	03/06/06	6.280	2.260	2.120	3.060		
MW - 2	06/05/06	4.350	1.660	1.690	1.920		
MW - 2	09/11/06	4.190	0.250	1.260	1.250		
MW - 2	11/21/06	6.340	<0.1	1.380	1.140		
MW - 2	02/20/07	5.740	2.100	1.640	2.060		
MW - 2	05/15/07	4.640	0.361	1.750	1.520		
MW - 2	08/09/07	4.990	0.271	1.280	0.980		
MW - 2	11/13/07	8.740	0.735	0.626	2.830		
MW - 2	02/14/08	4.090	0.575	3.900	3.640		
MW - 2	05/16/08	5.690	0.665	2.190	1.960		
MW - 2	08/19/08	3.470	0.117	1.370	0.946		
MW - 2	11/19/08	1.630	<0.100	0.788	0.504		
MW - 2	02/18/09	0.958	<0.100	0.238	0.100		
MW - 2	05/19/09	2.340	<0.100	1.080	1.500		
MW - 2	08/13/09	1.370	<0.100	0.841	1.040		
MW - 2	11/11/09	0.693	<0.100	0.303	0.174		
MW - 2	02/04/10	0.385	<0.100	0.217	<0.100		
MW - 2	05/07/10	1.210	<0.200	0.494	<0.200		
MW - 2	08/06/10	0.554	<0.050	0.447	0.281		
MW - 2	11/05/10	0.743	<0.0500	0.409	0.480		
MW - 2	02/11/11	0.577	<0.0500	<0.0500	<0.0500		
MW - 2	05/09/11	0.687	<0.0500	<0.0500	<0.0500		
MW - 2	08/05/11	0.494	<0.0500	<0.0500	<0.0500		
MW - 2	11/17/11	0.289	<0.005	0.092	0.0498		
MW - 2	02/28/12	1.230	<0.200	<0.200	<0.200		
MW - 2	05/03/12	0.447	<0.005	0.119	<0.0100		
MW - 2	08/24/12	Not Sampled Due to PSH in Well					
MW - 2	11/15/12	Not Sampled Due to PSH in Well					
MW - 2	02/14/13	Not Sampled Due to PSH in Well					
MW - 2	05/28/13	Not Sampled Due to PSH in Well					
MW - 2	08/06/13	Not Sampled Due to PSH in Well					
MW - 2	11/07/13	Not Sampled Due to PSH in Well					
MW - 2	03/05/14	Not Sampled Due to PSH in Well					
MW - 2	05/29/14	Not Sampled Due to PSH in Well					
MW - 2	08/13/14	Not Sampled Due to PSH in Well					
MW - 2	11/15/14	Not Sampled Due to PSH in Well					
MW - 2	02/16/15	Not Sampled Due to PSH in Well					
MW - 2	05/28/15	0.485	<0.0500	0.928	0.882		
MW - 2	08/26/15	0.385	<0.0500	0.617	0.486		
MW - 2	11/20/15	Not Sampled Due to PSH in Well					

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 2	02/17/16	0.316	<0.0500	0.448	0.314	
MW - 2	05/26/16	0.238	<0.00100	0.236	0.180	
MW - 2	08/04/16	0.483	<0.0500	0.266	0.208	
MW - 2	11/29/16	0.103	<0.00200	0.0511	0.0443	
MW - 2	02/27/17	0.304	<0.100	0.263	0.231	
MW - 2	05/18/17	0.567	<0.0100	0.314	0.259	
MW - 2	08/29/17	0.438	0.0296	0.231	0.173	
MW - 2	11/07/17	0.309	0.00479	0.140	0.0965	
MW - 2	02/22/18	0.181	0.0159	0.130	0.09757	
MW - 2	05/23/18	0.204	<0.0100	0.115	0.0929	
MW - 2	08/29/18	0.303	<0.0500	0.108	<0.100	
MW - 2	11/29/18	0.0408	<0.0500	0.0544	<0.100	
MW - 2	03/05/19	0.153	0.00411	0.140	0.09842	
MW - 2	06/11/19	0.158	<0.00500	0.0522	0.0577	
MW - 2	08/15/19	0.0807	0.00169	0.0438	0.03782	
MW - 2	11/25/19	0.154	0.00282	0.0486	0.05295	
MW - 2	02/25/20	0.108	0.00615	0.0560	0.06565	
MW - 2	06/15/20	0.118	0.00611	0.0422	0.05950	
MW - 2	08/27/20	0.174	0.00732	0.0327	0.05230	
MW - 2	12/01/20	0.172	0.0112	0.0122	0.0177	
MW - 2	02/04/21	0.115	0.00898	0.0264	0.0410	
MW - 2	06/17/21	0.100	0.00376	0.0120	0.0320	
MW - 2	09/24/21	0.562	0.0426	0.0602	0.2499	
MW - 2	12/01/21	0.0614	0.00171	0.00313	0.00712	
MW - 2	03/02/22	0.173	0.00564	0.00818	0.03942	
MW - 2	05/25/22	0.130	0.00651	0.0102	0.04424	
MW - 2	09/14/22	0.124	0.00685	0.00855	0.0464	
MW - 2	11/30/22	0.136	0.0266	0.01870	0.1457	
MW - 2	02/22/23	0.0807	0.0126	0.0147	0.0567	
MW - 2	05/23/23	0.868	0.249	0.902	2.107	
MW - 2	08/15/23	0.171	0.0447	0.316	0.963	
MW - 2	11/15/23	Not Sampled Due to PSH in Well				
MW - 3	03/09/00	0.0150	0.0120	0.0020	0.0020	
MW - 3	05/11/00	0.0560	0.0480	0.0060	0.0040	
MW - 3	09/12/00	0.0560	0.0480	0.0060	0.0050	
MW - 3	12/14/00	0.0130	0.0140	0.0020	0.0020	
MW - 3	03/21/01	0.0730	0.0740	0.0110	0.0090	
MW - 3	05/30/01	0.0690	<0.005	<0.005	<0.005	
MW - 3	09/25/01	0.0080	0.0070	0.0010	0.0010	
MW - 3	11/17/01	0.0020	0.0030	<0.001	0.0010	
MW - 3	02/20/02	0.0220	0.0250	0.0040	0.0030	

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 3	05/20/02	0.0400	0.0413	0.0078	0.0060	
MW - 3	09/24/02	0.0400	0.0300	0.0070	0.0050	
MW - 3	11/13/02	0.0450	0.0420	0.0060	0.0050	
MW - 3	02/06/03	0.0040	0.0070	0.0020	0.0010	
MW - 3	05/08/03	0.0050	0.0080	0.0020	0.0010	
MW - 3	08/19/03	0.0050	0.0040	<0.001	<0.001	
MW - 3	11/07/03	<0.001	<0.001	<0.001	<0.002	
MW - 3	02/09/04	0.0070	0.0090	0.0020	<0.002	
MW - 3	05/04/04	0.0020	0.0010	<0.001	<0.002	
MW - 3	08/23/04	<0.001	0.0010	<0.001	<0.002	
MW - 3	12/04/04	<0.001	0.0010	<0.001	<0.001	
MW - 3	03/07/05	<0.001	<0.001	<0.001	<0.001	
MW - 3	06/07/05	0.0064	<0.001	<0.001	<0.001	
MW - 3	09/07/05	0.0057	<0.001	<0.001	0.0010	
MW - 3	12/14/05	<0.005	<0.005	<0.005	<0.005	
MW - 3	03/06/06	<0.001	<0.001	<0.001	<0.001	
MW - 3	06/05/06	0.0012	<0.001	<0.001	<0.001	
MW - 3	09/11/06	<0.001	<0.001	<0.001	<0.001	
MW - 3	11/21/06	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 3	05/15/07	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/09/07	<0.001	<0.001	<0.001	<0.001	
MW - 3	11/13/07	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/14/08	<0.001	<0.001	<0.001	<0.001	
MW - 3	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/19/08	<0.001	<0.001	<0.001	0.0024	
MW - 3	11/19/08	<0.001	<0.001	<0.001	0.0024	
MW - 3	02/18/09	<0.001	<0.001	<0.001	<0.001	
MW - 3	05/19/09	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/13/09	<0.001	<0.001	<0.001	<0.001	
MW - 3	11/11/09	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	05/07/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/06/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	11/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 3	05/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/05/11	<0.001	<0.001	<0.001	<0.001	
MW - 3	11/17/11	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/28/12	<0.001	<0.001	<0.001	<0.001	
MW - 3	05/03/12	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/24/12	<0.001	<0.001	<0.001	<0.003	

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 3	11/15/12	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/14/13	Not Sampled on Current Sample Schedule				
MW - 3	05/28/13	Not Sampled on Current Sample Schedule				
MW - 3	08/06/13	Not Sampled on Current Sample Schedule				
MW - 3	11/07/13	<0.001	<0.001	<0.001	<0.00300	
MW - 3	03/05/14	Not Sampled on Current Sample Schedule				
MW - 3	05/29/14	Not Sampled on Current Sample Schedule				
MW - 3	08/12/14	Not Sampled on Current Sample Schedule				
MW - 3	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/16/15	Not Sampled on Current Sample Schedule				
MW - 3	05/28/15	Not Sampled on Current Sample Schedule				
MW - 3	08/26/15	Not Sampled on Current Sample Schedule				
MW - 3	11/20/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/17/16	Not Sampled on Current Sample Schedule				
MW - 3	05/26/16	Not Sampled on Current Sample Schedule				
MW - 3	08/04/16	Not Sampled on Current Sample Schedule				
MW - 3	11/29/16	<0.00200	<0.00200	<0.00200	<0.00200	
MW - 3	02/27/17	Not Sampled on Current Sample Schedule				
MW - 3	05/18/17	Not Sampled on Current Sample Schedule				
MW - 3	08/29/17	Not Sampled on Current Sample Schedule				
MW - 3	11/07/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 3	02/22/18	Not Sampled on Current Sample Schedule				
MW - 3	05/23/18	Not Sampled on Current Sample Schedule				
MW - 3	08/29/18	Not Sampled on Current Sample Schedule				
MW - 3	11/29/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 3	03/05/19	Not Sampled on Current Sample Schedule				
MW - 3	06/11/19	Not Sampled on Current Sample Schedule				
MW - 3	08/15/19	Not Sampled on Current Sample Schedule				
MW - 3	11/25/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 3	02/25/20	Not Sampled on Current Sample Schedule				
MW - 3	06/15/20	Not Sampled on Current Sample Schedule				
MW - 3	08/27/20	Not Sampled on Current Sample Schedule				
MW - 3	12/01/20	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 3	02/04/21	Not Sampled on Current Sample Schedule				
MW - 3	06/17/21	Not Sampled on Current Sample Schedule				
MW - 3	09/24/21	Not Sampled on Current Sample Schedule				
MW - 3	12/01/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 3	03/02/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 3	05/26/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 3	09/13/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 3	11/29/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 3	02/21/23	<0.00100	<0.00100	<0.00100	<0.00200	

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030					
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62		
MW - 3	05/23/23	<0.00100	<0.00100	0.00390	0.01244		
MW - 3	08/15/23	<0.00100	<0.00100	<0.00100	<0.00200		
MW - 3	11/16/23	<0.00100	<0.00100	<0.00100	<0.00200		
MW - 4	03/09/00	0.1520	0.0660	0.0190	0.0120		
MW - 4	05/11/00	0.2850	0.1100	0.0320	0.0140		
MW - 4	09/12/00	0.2690	0.0680	0.0260	0.0060		
MW - 4	12/14/00	0.2460	0.0210	0.0090	0.0080		
MW - 4	03/21/01	0.1890	0.0860	0.0200	0.0110		
MW - 4	05/30/01	0.1070	<0.005	0.0188	<0.005		
MW - 4	09/25/01	0.4630	0.0280	0.0090	0.0100		
MW - 4	11/17/01	0.3350	0.0200	0.0070	0.0070		
MW - 4	02/20/02	1.0900	0.0460	0.0110	0.0080		
MW - 4	05/20/02	0.9190	0.0414	0.0080	0.0160		
MW - 4	09/24/02	0.1170	0.0200	0.0030	0.0030		
MW - 4	11/13/02	0.0820	0.0730	0.0100	0.0110		
MW - 4	02/06/03	0.0020	0.0040	<0.001	0.0010		
MW - 4	05/08/03	0.0160	0.0020	<0.001	<0.001		
MW - 4	08/19/03	0.0310	0.0020	<0.001	<0.001		
MW - 4	11/07/03	0.0040	<0.001	<0.001	0.0030		
MW - 4	02/09/04	0.3700	0.0030	0.0050	0.0040		
MW - 4	05/04/04	0.0130	<0.001	<0.001	<0.002		
MW - 4	08/23/04	<0.001	<0.001	<0.001	<0.002		
MW - 4	12/04/04	0.0058	<0.001	<0.001	<0.001		
MW - 4	03/07/05	<0.001	<0.001	<0.001	<0.001		
MW - 4	06/07/05	0.0821	0.0023	<0.001	0.0019		
MW - 4	09/07/05	0.0704	0.0045	0.0014	0.0024		
MW - 4	12/14/05	Not Sampled - Well Damged					
MW - 4	03/06/06	Plugged and Abandoned					
MW - 5	03/09/00	0.0010	0.0010	<0.001	0.0010		
MW - 5	05/11/00	<0.001	<0.001	<0.001	<0.001		
MW - 5	09/12/00	<0.001	<0.001	<0.001	<0.001		
MW - 5	12/14/00	<0.001	<0.001	<0.001	<0.001		
MW - 5	03/21/01	<0.001	<0.001	<0.001	<0.001		
MW - 5	05/30/01	<0.005	<0.005	<0.005	<0.005		
MW - 5	09/25/01	<0.001	<0.001	<0.001	<0.001		
MW - 5	11/17/01	<0.001	<0.001	<0.001	<0.001		
MW - 5	02/20/02	<0.001	<0.001	<0.001	<0.001		
MW - 5	05/20/02	<0.001	<0.001	<0.001	<0.001		
MW - 5	09/24/02	0.0030	<0.001	<0.001	<0.001		
MW - 5	11/13/02	0.0020	0.0010	<0.001	<0.001		

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 5	02/06/03	<0.001	<0.001	<0.001	<0.001	
MW - 5	05/08/03	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/19/03	<0.001	<0.001	<0.001	<0.001	
MW - 5	11/07/03	<0.001	<0.001	<0.001	<0.002	
MW - 5	02/09/04	<0.001	<0.001	<0.001	<0.002	
MW - 5	12/04/04	<0.001	<0.001	<0.001	<0.001	
MW - 5	03/07/05	Not Sampled on Current Sample Schedule				
MW - 5	06/07/05	Not Sampled on Current Sample Schedule				
MW - 5	09/07/05	Not Sampled on Current Sample Schedule				
MW - 5	12/14/05	<0.005	<0.005	<0.005	<0.005	
MW - 5	03/06/06	Not Sampled on Current Sample Schedule				
MW - 5	06/05/06	Not Sampled on Current Sample Schedule				
MW - 5	09/11/06	Not Sampled on Current Sample Schedule				
MW - 5	11/21/06	0.0011	<0.001	0.0014	<0.001	
MW - 5	02/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 5	05/15/07	Not Sampled on Current Sample Schedule				
MW - 5	08/09/07	Not Sampled on Current Sample Schedule				
MW - 5	11/13/07	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/14/08	Not Sampled on Current Sample Schedule				
MW - 5	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/19/08	Not Sampled on Current Sample Schedule				
MW - 5	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/18/09	Not Sampled on Current Sample Schedule				
MW - 5	05/19/09	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/13/09	Not Sampled on Current Sample Schedule				
MW - 5	11/11/09	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/04/10	Not Sampled on Current Sample Schedule				
MW - 5	05/07/10	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/06/10	Not Sampled on Current Sample Schedule				
MW - 5	11/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/11/11	Not Sampled on Current Sample Schedule				
MW - 5	05/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/05/11	Not Sampled on Current Sample Schedule				
MW - 5	11/17/11	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/28/12	Not Sampled on Current Sample Schedule				
MW - 5	05/03/12	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/24/12	Not Sampled on Current Sample Schedule				
MW - 5	11/15/12	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/14/13	Not Sampled on Current Sample Schedule				
MW - 5	05/28/13	Not Sampled on Current Sample Schedule				
MW - 5	08/06/13	Not Sampled on Current Sample Schedule				
MW - 5	11/07/13	<0.001	<0.001	<0.001	<0.00300	

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 5	03/05/14	Not Sampled on Current Sample Schedule				
MW - 5	05/29/14	Not Sampled on Current Sample Schedule				
MW - 5	08/13/14	Not Sampled on Current Sample Schedule				
MW - 5	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/16/15	Not Sampled on Current Sample Schedule				
MW - 5	05/28/15	Not Sampled on Current Sample Schedule				
MW - 5	08/26/15	Not Sampled on Current Sample Schedule				
MW - 5	11/20/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/17/16	Not Sampled on Current Sample Schedule				
MW - 5	05/26/16	Not Sampled on Current Sample Schedule				
MW - 5	08/04/16	Not Sampled on Current Sample Schedule				
MW - 5	11/29/16	<0.00200	<0.00200	<0.00200	<0.00200	
MW - 5	02/27/17	Not Sampled on Current Sample Schedule				
MW - 5	05/18/17	Not Sampled on Current Sample Schedule				
MW - 5	08/29/17	Not Sampled on Current Sample Schedule				
MW - 5	11/07/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 5	02/22/18	Not Sampled on Current Sample Schedule				
MW - 5	05/23/18	Not Sampled on Current Sample Schedule				
MW - 5	08/29/18	Not Sampled on Current Sample Schedule				
MW - 5	11/29/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 5	03/05/19	Not Sampled on Current Sample Schedule				
MW - 5	06/11/19	Not Sampled on Current Sample Schedule				
MW - 5	08/15/19	Not Sampled on Current Sample Schedule				
MW - 5	11/25/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 5	02/25/20	Not Sampled on Current Sample Schedule				
MW - 5	06/15/20	Not Sampled on Current Sample Schedule				
MW - 5	08/27/20	Not Sampled on Current Sample Schedule				
MW - 5	12/01/20	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 5	02/04/21	Not Sampled on Current Sample Schedule				
MW - 5	06/17/21	Not Sampled on Current Sample Schedule				
MW - 5	09/24/21	Not Sampled on Current Sample Schedule				
MW - 5	12/02/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 5	03/02/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 5	05/26/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 5	09/13/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 5	11/29/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 5	02/21/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 5	05/23/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 5	08/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 5	11/16/23	<0.00100	<0.00100	<0.00100	<0.00200	

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 6	03/09/00	<0.001	<0.001	<0.001	<0.001	
MW - 6	05/11/00	<0.001	<0.001	<0.001	<0.001	
MW - 6	09/12/00	<0.001	<0.001	<0.001	<0.001	
MW - 6	12/14/00	<0.001	<0.001	<0.001	<0.001	
MW - 6	03/21/01	<0.001	<0.001	<0.001	<0.001	
MW - 6	05/30/01	<0.005	<0.005	<0.005	<0.005	
MW - 6	09/25/01	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/17/01	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/20/02	0.0010	<0.001	<0.001	<0.001	
MW - 6	05/20/02	<0.001	<0.001	<0.001	<0.001	
MW - 6	09/24/02	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/13/02	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/06/03	<0.001	<0.001	<0.001	<0.001	
MW - 6	05/08/03	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/19/03	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/07/03	<0.001	<0.001	<0.001	<0.002	
MW - 6	02/09/04	<0.001	<0.001	<0.001	<0.002	
MW - 6	12/04/04	<0.001	<0.001	<0.001	<0.001	
MW - 6	03/07/05	Not Sampled on Current Sample Schedule				
MW - 6	06/07/05	<0.001	<0.001	<0.001	<0.001	
MW - 6	09/07/05	Not Sampled on Current Sample Schedule				
MW - 6	12/14/05	<0.005	<0.005	<0.005	<0.005	
MW - 6	03/06/06	Not Sampled on Current Sample Schedule				
MW - 6	06/05/06	<0.001	<0.001	<0.001	<0.001	
MW - 6	09/11/06	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/21/06	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 6	06/21/07	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/09/07	Not Sampled on Current Sample Schedule				
MW - 6	11/13/07	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/14/08	Not Sampled on Current Sample Schedule				
MW - 6	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/19/08	Not Sampled on Current Sample Schedule				
MW - 6	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/18/09	Not Sampled on Current Sample Schedule				
MW - 6	05/19/09	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/13/09	Not Sampled on Current Sample Schedule				
MW - 6	11/11/09	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/04/10	Not Sampled on Current Sample Schedule				
MW - 6	05/07/10	<0.001	<0.001	<0.001	<0.001	

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 6	08/06/10	Not Sampled on Current Sample Schedule				
MW - 6	11/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/11/11	Not Sampled on Current Sample Schedule				
MW - 6	05/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/05/11	Not Sampled on Current Sample Schedule				
MW - 6	11/17/11	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/28/12	Not Sampled on Current Sample Schedule				
MW - 6	05/03/12	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/24/12	Not Sampled on Current Sample Schedule				
MW - 6	11/15/12	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/14/13	<0.001	<0.001	<0.001	<0.001	
MW - 6	05/28/13	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/06/13	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/07/13	<0.001	<0.001	<0.001	<0.00300	
MW - 6	03/05/14	<0.001	<0.001	<0.001	<0.00300	
MW - 6	05/29/14	<0.001	<0.001	<0.001	<0.00300	
MW - 6	08/12/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	02/16/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	05/28/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	08/26/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	11/20/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	02/17/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	05/26/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	08/04/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	11/29/16	<0.00200	<0.00200	<0.00200	<0.00200	
MW - 6	02/27/17	<0.00200	<0.00200	<0.00200	<0.00200	
MW - 6	05/18/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 6	08/29/17	<0.00200	<0.00200	<0.00200	<0.002	
MW - 6	11/07/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 6	02/22/18	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 6	05/23/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 6	08/29/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 6	11/29/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 6	03/05/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	06/11/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	08/15/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	11/25/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	02/25/20	<0.00100	<0.00100	0.00110	0.00360	
MW - 6	06/15/20	Not Sampled on Current Sample Schedule				
MW - 6	08/27/20	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	12/01/20	Not Sampled on Current Sample Schedule				

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 6	02/04/21	Not Sampled on Current Sample Schedule				
MW - 6	06/17/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	09/24/21	Not Sampled on Current Sample Schedule				
MW - 6	12/02/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	03/02/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	05/26/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	09/13/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	11/29/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	02/21/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	05/23/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	08/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	11/16/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 7	03/09/00	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/11/00	<0.001	<0.001	<0.001	<0.001	
MW - 7	09/12/00	<0.001	<0.001	<0.001	<0.001	
MW - 7	12/14/00	<0.001	<0.001	<0.001	<0.001	
MW - 7	03/21/01	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/30/01	<0.005	<0.005	<0.005	<0.005	
MW - 7	09/25/01	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/17/01	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/20/02	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/20/02	<0.001	<0.001	<0.001	<0.001	
MW - 7	09/24/02	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/13/02	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/06/03	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/08/03	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/19/03	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/07/03	<0.001	<0.001	<0.001	<0.002	
MW - 7	02/09/04	<0.001	<0.001	<0.001	<0.002	
MW - 7	12/04/04	<0.001	<0.001	<0.001	<0.001	
MW - 7	03/07/05	Not Sampled on Current Sample Schedule				
MW - 7	06/07/05	<0.001	<0.001	<0.001	<0.001	
MW - 7	09/07/05	Not Sampled on Current Sample Schedule				
MW - 7	12/14/05	<0.005	<0.005	<0.005	<0.005	
MW - 7	03/06/06	Not Sampled on Current Sample Schedule				
MW - 7	06/05/06	<0.001	<0.001	<0.001	<0.001	
MW - 7	09/11/06	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/21/06	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 7	06/21/07	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/09/07	Not Sampled on Current Sample Schedule				

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 7	11/13/07	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/14/08	Not Sampled on Current Sample Schedule				
MW - 7	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/19/08	Not Sampled on Current Sample Schedule				
MW - 7	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/18/09	Not Sampled on Current Sample Schedule				
MW - 7	05/19/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/13/09	Not Sampled on Current Sample Schedule				
MW - 7	11/11/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/04/10	Not Sampled on Current Sample Schedule				
MW - 7	05/07/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/06/10	Not Sampled on Current Sample Schedule				
MW - 7	11/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/11/11	Not Sampled on Current Sample Schedule				
MW - 7	05/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/05/11	Not Sampled on Current Sample Schedule				
MW - 7	11/17/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/28/12	Not Sampled on Current Sample Schedule				
MW - 7	05/03/12	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/24/12	Not Sampled on Current Sample Schedule				
MW - 7	11/15/12	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/14/13	Not Sampled on Current Sample Schedule				
MW - 7	05/28/13	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/06/13	Not Sampled on Current Sample Schedule				
MW - 7	11/07/13	<0.001	<0.001	<0.001	<0.00300	
MW - 7	03/05/14	Not Sampled on Current Sample Schedule				
MW - 7	05/29/14	<0.001	<0.001	<0.001	<0.00100	
MW - 7	08/12/14	Not Sampled on Current Sample Schedule				
MW - 7	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/16/15	Not Sampled on Current Sample Schedule				
MW - 7	05/28/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	08/26/15	Not Sampled on Current Sample Schedule				
MW - 7	11/20/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/17/16	Not Sampled on Current Sample Schedule				
MW - 7	05/26/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	08/04/16	Not Sampled on Current Sample Schedule				
MW - 7	11/29/16	<0.00200	<0.00200	<0.00200	<0.00200	
MW - 7	02/27/17	Not Sampled on Current Sample Schedule				
MW - 7	05/18/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 7	08/29/17	Not Sampled on Current Sample Schedule				
MW - 7	11/07/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 7	02/22/18	Not Sampled on Current Sample Schedule				

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 7	05/22/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 7	08/29/18	Not Sampled on Current Sample Schedule				
MW - 7	11/29/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 7	03/05/19	Not Sampled on Current Sample Schedule				
MW - 7	06/11/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 7	08/15/19	Not Sampled on Current Sample Schedule				
MW - 7	11/25/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 7	02/25/20	Not Sampled on Current Sample Schedule				
MW - 7	06/15/20	Not Sampled on Current Sample Schedule				
MW - 7	08/27/20	Not Sampled on Current Sample Schedule				
MW - 7	12/01/20	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 7	02/04/21	Not Sampled on Current Sample Schedule				
MW - 7	06/17/21	Not Sampled on Current Sample Schedule				
MW - 7	09/24/21	Not Sampled on Current Sample Schedule				
MW - 7	12/01/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 7	03/02/22	Not Sampled on Current Sample Schedule				
MW - 7	05/25/22	Not Sampled on Current Sample Schedule				
MW - 7	09/14/22	0.00210	0.00361	0.00133	0.00707	
MW - 7	11/29/22	Not Sampled on Current Sample Schedule				
MW - 7	02/21/23	Not Sampled on Current Sample Schedule				
MW - 7	05/23/23	Not Sampled on Current Sample Schedule				
MW - 7	08/15/23	Not Sampled on Current Sample Schedule				
MW - 7	11/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 8	03/09/00	0.0010	<0.001	0.0010	<0.001	
MW - 8	05/11/00	<0.001	<0.001	<0.001	<0.001	
MW - 8	09/12/00	<0.001	<0.001	<0.001	<0.001	
MW - 8	12/14/00	<0.001	<0.001	<0.001	<0.001	
MW - 8	03/21/01	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/30/01	<0.005	<0.005	<0.005	<0.005	
MW - 8	09/25/01	0.0010	<0.001	<0.001	<0.001	
MW - 8	11/17/01	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/20/02	0.0050	<0.001	0.0020	<0.001	
MW - 8	05/20/02	<0.001	<0.001	<0.001	<0.001	
MW - 8	09/24/02	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/13/02	0.0020	<0.001	<0.001	<0.001	
MW - 8	02/06/03	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/08/03	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/19/03	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/07/03	<0.001	<0.001	<0.001	<0.002	
MW - 8	02/09/04	<0.001	<0.001	<0.001	<0.002	
MW - 8	12/04/04	<0.001	<0.001	<0.001	<0.001	

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 8	03/07/05	Not Sampled on Current Sample Schedule				
MW - 8	06/07/05	Not Sampled on Current Sample Schedule				
MW - 8	09/07/05	Not Sampled on Current Sample Schedule				
MW - 8	12/14/05	<0.005	<0.005	<0.005	<0.005	
MW - 8	03/06/06	Not Sampled on Current Sample Schedule				
MW - 8	06/05/06	Not Sampled on Current Sample Schedule				
MW - 8	09/11/06	Not Sampled on Current Sample Schedule				
MW - 8	11/21/06	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 8	06/21/07	Not Sampled on Current Sample Schedule				
MW - 8	08/09/07	Not Sampled on Current Sample Schedule				
MW - 8	11/13/07	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/14/08	Not Sampled on Current Sample Schedule				
MW - 8	05/16/08	Not Sampled on Current Sample Schedule				
MW - 8	08/19/08	Not Sampled on Current Sample Schedule				
MW - 8	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/18/09	Not Sampled on Current Sample Schedule				
MW - 8	05/19/09	Not Sampled on Current Sample Schedule				
MW - 8	08/13/09	Not Sampled on Current Sample Schedule				
MW - 8	11/11/09	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/04/10	Not Sampled on Current Sample Schedule				
MW - 8	05/07/10	Not Sampled on Current Sample Schedule				
MW - 8	08/06/10	Not Sampled on Current Sample Schedule				
MW - 8	11/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/11/11	Not Sampled on Current Sample Schedule				
MW - 8	05/09/11	Not Sampled on Current Sample Schedule				
MW - 8	08/05/11	Not Sampled on Current Sample Schedule				
MW - 8	11/17/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/28/12	Not Sampled on Current Sample Schedule				
MW - 8	05/03/12	Not Sampled on Current Sample Schedule				
MW - 8	11/15/12	Not Sampled on Current Sample Schedule				
MW - 8	11/15/12	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/14/13	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/28/13	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/06/13	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/07/13	<0.001	<0.001	<0.001	<0.00300	
MW - 8	03/05/14	<0.001	<0.001	<0.001	<0.00300	
MW - 8	05/29/14	<0.001	<0.001	<0.001	<0.00300	
MW - 8	08/12/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	02/16/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	05/28/15	<0.00100	<0.00100	<0.00100	<0.00100	

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 8	08/26/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	11/20/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	02/17/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	05/26/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	08/04/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	11/29/16	<0.00200	<0.00200	<0.00200	<0.00200	
MW - 8	02/27/17	<0.00200	<0.00200	<0.00200	<0.00200	
MW - 8	05/18/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 8	08/29/17	<0.00200	<0.00200	<0.00200	<0.002	
MW - 8	11/07/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 8	02/22/18	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 8	05/23/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 8	08/29/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 8	11/29/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 8	03/05/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 8	06/11/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 8	08/15/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 8	11/25/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 8	02/25/20	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 8	06/15/20	Not Sampled on Current Sample Schedule				
MW - 8	08/27/20	Not Sampled on Current Sample Schedule				
MW - 8	12/01/20	Not Sampled on Current Sample Schedule				
MW - 8	02/04/21	Not Sampled on Current Sample Schedule				
MW - 8	06/17/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 8	09/24/21	Not Sampled on Current Sample Schedule				
MW - 8	12/01/21	Not Sampled on Current Sample Schedule				
MW - 8	03/02/22	Not Sampled on Current Sample Schedule				
MW - 8	05/25/22	Not Sampled on Current Sample Schedule				
MW - 8	09/14/22	0.00564	0.0162	0.00702	0.02884	
MW - 8	11/29/22	Not Sampled on Current Sample Schedule				
MW - 8	02/21/23	Not Sampled on Current Sample Schedule				
MW - 8	05/23/23	Not Sampled on Current Sample Schedule				
MW - 8	08/15/23	Not Sampled on Current Sample Schedule				
MW - 8	11/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 9	03/09/00	0.0290	0.0090	0.0280	0.0210	
MW - 9	05/11/00	0.0560	0.0340	0.0080	0.0090	
MW - 9	09/12/00	0.2320	0.0310	0.0060	0.0040	
MW - 9	12/14/00	0.0300	0.0150	0.0030	0.0020	
MW - 9	03/21/01	0.1580	0.0810	0.0160	0.0120	
MW - 9	05/30/01	0.5320	<0.005	<0.005	<0.005	
MW - 9	09/25/01	0.4900	0.2120	0.1610	0.0290	

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 9	11/17/01	0.0140	0.0470	0.0250	0.0080	
MW - 9	02/20/02	0.1580	0.0420	0.0460	0.0110	
MW - 9	05/08/03	0.4460	0.1880	0.3690	0.3920	
MW - 9	08/19/03	0.0600	0.0050	0.0430	0.0690	
MW - 9	11/07/03	0.0760	0.0010	0.0030	0.0080	
MW - 9	02/09/04	0.0150	0.0130	0.0090	0.0200	
MW - 9	05/04/04	0.3030	0.0110	0.0570	0.0390	
MW - 9	08/23/04	0.0486	<0.001	0.0056	<0.002	
MW - 9	12/04/04	0.0048	<0.001	0.0022	0.0031	
MW - 9	03/07/05	0.0163	<0.005	0.0243	0.0545	
MW - 9	06/07/05	0.0499	0.0183	0.0856	0.1500	
MW - 9	09/07/05	0.0123	0.0073	0.0454	0.0625	
MW - 9	12/14/05	<0.005	<0.005	0.0186	0.0149	
MW - 9	03/06/06	0.0173	0.0390	0.1940	0.2470	
MW - 9	06/05/06	0.0330	<0.005	0.2450	0.3690	
MW - 9	09/11/06	0.0073	<0.001	0.0981	0.1340	
MW - 9	11/21/06	0.0128	<0.001	0.0539	0.0192	
MW - 9	02/20/07	0.0056	<0.001	0.0333	0.0356	
MW - 9	05/15/07	<0.001	<0.001	0.0194	0.0164	
MW - 9	08/09/07	0.0047	<0.001	0.0215	0.0206	
MW - 9	11/13/07	0.0250	0.0092	0.0845	0.1020	
MW - 9	02/14/08	0.0030	<0.001	0.0152	0.0167	
MW - 9	05/16/08	0.0093	<0.001	0.0285	0.0271	
MW - 9	08/19/08	0.0020	<0.001	0.0064	0.0069	
MW - 9	11/19/08	0.0058	<0.001	0.0367	0.0300	
MW - 9	02/18/09	<0.001	<0.001	<0.001	0.0040	
MW - 9	05/19/09	0.0078	<0.001	0.0201	0.0306	
MW - 9	08/13/09	<0.001	<0.001	0.0201	0.0230	
MW - 9	11/11/09	<0.001	<0.001	0.0193	0.0166	
MW - 9	02/04/10	<0.001	<0.001	0.0100	0.0067	
MW - 9	05/07/10	<0.001	<0.001	0.0095	0.0098	
MW - 9	08/06/10	<0.001	<0.001	0.0076	0.0107	
MW - 9	11/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/05/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/17/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/28/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/03/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/24/12	0.1030	0.0961	0.0914	0.2710	
MW - 9	11/15/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/14/13	Not Sampled on Current Sample Schedule				

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 9	05/28/13	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/06/13	Not Sampled on Current Sample Schedule				
MW - 9	11/07/13	<0.001	<0.001	<0.001	<0.00300	
MW - 9	03/05/14	Not Sampled on Current Sample Schedule				
MW - 9	05/29/14	<0.001	<0.001	<0.001	<0.00300	
MW - 9	08/12/14	Not Sampled on Current Sample Schedule				
MW - 9	11/12/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 9	02/16/15	Not Sampled on Current Sample Schedule				
MW - 9	05/28/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 9	08/26/15	Not Sampled on Current Sample Schedule				
MW - 9	11/20/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 9	02/17/16	Not Sampled on Current Sample Schedule				
MW - 9	05/26/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 9	08/04/16	Not Sampled on Current Sample Schedule				
MW - 9	11/29/16	<0.00200	<0.00200	<0.00200	<0.00200	
MW - 9	02/27/17	Not Sampled on Current Sample Schedule				
MW - 9	05/18/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 9	08/29/17	Not Sampled on Current Sample Schedule				
MW - 9	11/07/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 9	02/22/18	Not Sampled on Current Sample Schedule				
MW - 9	05/22/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 9	08/29/18	Not Sampled on Current Sample Schedule				
MW - 9	11/29/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 9	03/05/19	Not Sampled on Current Sample Schedule				
MW - 9	06/11/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 9	08/15/19	Not Sampled on Current Sample Schedule				
MW - 9	11/25/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 9	02/25/20	Not Sampled on Current Sample Schedule				
MW - 9	06/15/20	Not Sampled on Current Sample Schedule				
MW - 9	08/27/20	Not Sampled on Current Sample Schedule				
MW - 9	12/01/20	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 9	02/04/21	Not Sampled on Current Sample Schedule				
MW - 9	06/17/21	Not Sampled on Current Sample Schedule				
MW - 9	09/24/21	Not Sampled on Current Sample Schedule				
MW - 9	12/01/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 9	03/02/22	Not Sampled on Current Sample Schedule				
MW - 9	05/25/22	Not Sampled on Current Sample Schedule				
MW - 9	09/14/22	0.00129	0.00204	<0.00100	0.00221	
MW - 9	11/29/22	Not Sampled on Current Sample Schedule				
MW - 9	02/21/23	Not Sampled on Current Sample Schedule				
MW - 9	05/23/23	Not Sampled on Current Sample Schedule				
MW - 9	08/15/23	Not Sampled on Current Sample Schedule				

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 9	11/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 10	05/04/04	4.230	0.1990	0.888	0.779	
MW - 10	03/07/05	5.690	0.4910	0.984	0.908	
MW - 10	06/07/05	4.350	0.0618	0.510	0.264	
MW - 10	09/07/05	5.630	<0.2	1.790	1.180	
MW - 10	12/14/05	2.320	<0.05	<0.05	0.168	
MW - 10	03/06/06	4.930	0.3510	1.390	1.400	
MW - 10	06/05/06	2.050	0.0457	0.792	0.460	
MW - 10	09/11/06	5.450	0.1050	1.420	1.070	
MW - 10	11/21/06	6.560	<0.1	1.420	1.190	
MW - 10	02/20/07	5.400	<0.1	1.290	1.130	
MW - 10	05/15/07	6.810	<0.100	3.230	2.180	
MW - 10	08/09/07	7.190	<0.100	1.470	0.894	
MW - 10	11/13/07	13.500	<0.100	2.890	1.500	
MW - 10	02/14/08	6.990	<0.100	1.760	0.995	
MW - 10	05/16/08	4.720	<0.0500	0.896	0.327	
MW - 10	08/19/08	7.890	<0.100	1.940	1.020	
MW - 10	11/19/08	6.220	<0.100	1.420	1.000	
MW - 10	02/18/09	6.320	<0.001	1.070	0.271	
MW - 10	05/19/09	6.000	<0.100	1.700	1.740	
MW - 10	08/13/09	6.820	<0.100	1.690	1.400	
MW - 10	11/11/09	6.560	<0.100	1.750	0.748	
MW - 10	02/04/10	5.490	<0.100	1.070	0.218	
MW - 10	05/07/10	6.080	<0.100	1.130	0.700	
MW - 10	08/06/10	8.450	<0.050	1.180	0.397	
MW - 10	11/05/10	5.400	<0.0500	1.140	0.641	
MW - 10	02/11/11	7.760	<0.0500	1.500	1.250	
MW - 10	05/09/11	9.730	<0.0500	1.590	0.984	
MW - 10	08/05/11	9.420	<0.0500	1.470	0.973	
MW - 10	11/17/11	5.680	<0.0500	0.630	<0.050	
MW - 10	02/28/12	Not Sampled due to PSH in Well				
MW - 10	05/03/12	Not Sampled due to PSH in Well				
MW - 10	08/24/12	Not Sampled due to PSH in Well				
MW - 10	11/15/12	Not Sampled due to PSH in Well				
MW - 10	02/14/13	Not Sampled due to PSH in Well				
MW - 10	05/28/13	Not Sampled due to PSH in Well				
MW - 10	08/06/13	Not Sampled due to PSH in Well				
MW - 10	11/07/13	Not Sampled due to PSH in Well				
MW - 10	03/05/14	Not Sampled due to PSH in Well				
MW - 10	05/29/14	Not Sampled due to PSH in Well				
MW - 10	08/12/14	Not Sampled due to PSH in Well				

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 10	11/15/14	Not Sampled due to PSH in Well				
MW - 10	02/16/15	Not Sampled due to PSH in Well				
MW - 10	05/28/15	Not Sampled due to PSH in Well				
MW - 10	08/26/15	Not Sampled due to PSH in Well				
MW - 10	11/20/15	Not Sampled due to PSH in Well				
MW - 10	02/17/16	Not Sampled due to PSH in Well				
MW - 10	05/26/16	Not Sampled due to PSH in Well				
MW - 10	08/04/16	0.440	<0.0500	0.155	0.206	
MW - 10	11/29/16	Not Sampled due to PSH in Well				
MW - 10	02/27/17	Not Sampled due to PSH in Well				
MW - 10	05/18/17	Not Sampled due to PSH in Well				
MW - 10	08/29/17	Not Sampled due to PSH in Well				
MW - 10	11/07/17	Not Sampled due to PSH in Well				
MW - 10	02/22/18	Not Sampled due to PSH in Well				
MW - 10	05/23/18	0.312	<0.0100	0.167	0.2113	
MW - 10	08/29/18	Not Sampled due to PSH in Well				
MW - 10	11/29/18	0.497	<0.0500	0.124	0.120	
MW - 10	03/05/19	0.175	0.00379	0.0976	0.1184	
MW - 10	06/11/19	0.0775	0.00715	0.0268	0.0254	
MW - 10	08/15/19	0.363	0.00515	0.0826	0.08345	
MW - 10	11/25/19	0.0952	0.00147	0.0368	0.04469	
MW - 10	02/25/20	0.268	0.0280	0.142	0.2791	
MW - 10	06/15/20	0.447	0.0634	0.153	0.3602	
MW - 10	08/27/20	0.422	0.0374	0.101	0.2226	
MW - 10	12/01/20	0.455	0.0546	0.0345	0.10255	
MW - 10	02/04/21	0.329	0.0347	0.0922	0.1911	
MW - 10	06/17/21	0.524	0.0360	0.0850	0.3500	
MW - 10	09/24/21	0.181	0.0158	0.0213	0.09605	
MW - 10	12/02/21	0.0732	0.00269	0.00252	0.00745	
MW - 10	03/02/22	0.0480	0.00200	0.00146	0.00712	
MW - 10	05/26/22	0.0302	<0.00100	<0.00100	0.00409	
MW - 10	09/13/22	0.0414	<0.00100	0.00122	0.00540	
MW - 10	11/29/22	0.0314	0.00174	0.00273	0.00569	
MW - 10	02/21/23	0.0879	0.00383	0.00615	0.01682	
MW - 10	05/23/23	0.0454	0.00325	0.00362	0.01033	
MW - 10	08/15/23	0.132	0.00243	0.00374	0.02602	
MW - 10	11/16/23	0.0213	0.00203	0.00154	0.00537	
MW - 11	12/10/04	<0.001	<0.001	<0.001	<0.001	
MW - 11	03/07/05	<0.001	<0.001	<0.001	<0.001	
MW - 11	06/07/05	<0.001	<0.001	<0.001	<0.001	
MW - 11	09/07/05	Not Sampled				

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 11	12/14/05	<0.005	<0.005	<0.005	<0.005	
MW - 11	03/06/06	<0.001	<0.001	<0.001	<0.001	
MW - 11	06/05/06	<0.001	<0.001	<0.001	<0.001	
MW - 11	09/11/06	<0.001	<0.001	<0.001	<0.001	
MW - 11	11/21/06	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 11	05/15/07	<0.001	<0.001	<0.001	<0.001	
MW - 11	08/09/07	<0.001	<0.001	<0.001	<0.001	
MW - 11	11/13/07	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/14/08	<0.001	<0.001	<0.001	<0.001	
MW - 11	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW - 11	08/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 11	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/18/09	<0.001	<0.001	<0.001	<0.001	
MW - 11	05/19/09	<0.001	0.0096	0.0108	0.0338	
MW - 11	08/13/09	<0.001	<0.001	<0.001	<0.001	
MW - 11	11/11/09	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 11	05/07/10	<0.001	<0.001	<0.001	<0.001	
MW - 11	08/06/10	<0.001	<0.001	<0.001	<0.001	
MW - 11	11/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/11/11	<0.001	<0.001	<0.001	0.0215	
MW - 11	05/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 11	08/05/11	<0.001	<0.001	<0.001	<0.001	
MW - 11	11/17/11	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/28/12	<0.001	<0.001	<0.001	<0.001	
MW - 11	05/03/12	<0.001	<0.001	<0.001	<0.001	
MW - 11	08/24/12	<0.001	<0.001	<0.001	<0.003	
MW - 11	11/15/12	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/14/13	Not Sampled on Current Sample Schedule				
MW - 11	05/28/13	<0.001	<0.001	<0.001	<0.001	
MW - 11	08/06/13	Not Sampled on Current Sample Schedule				
MW - 11	11/07/13	<0.001	<0.001	<0.001	<0.00300	
MW - 11	02/10/14	Not Sampled on Current Sample Schedule				
MW - 11	05/29/14	<0.001	<0.001	<0.001	<0.00300	
MW - 11	08/12/14	Not Sampled on Current Sample Schedule				
MW - 11	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	02/16/15	Not Sampled on Current Sample Schedule				
MW - 11	05/28/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	08/26/15	Not Sampled on Current Sample Schedule				
MW - 11	11/20/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	02/17/16	Not Sampled on Current Sample Schedule				

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW - 11	05/26/16	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	08/04/16	Not Sampled on Current Sample Schedule				
MW - 11	11/29/16	<0.00200	<0.00200	<0.00200	<0.00200	
MW - 11	02/27/17	Not Sampled on Current Sample Schedule				
MW - 11	05/18/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 11	08/29/17	Not Sampled on Current Sample Schedule				
MW - 11	11/07/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 11	02/22/18	Not Sampled on Current Sample Schedule				
MW - 11	05/23/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 11	08/29/18	Not Sampled on Current Sample Schedule				
MW - 11	11/29/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 11	03/05/19	Not Sampled on Current Sample Schedule				
MW - 11	06/11/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 11	08/15/19	Not Sampled on Current Sample Schedule				
MW - 11	11/25/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 11	02/25/20	Not Sampled on Current Sample Schedule				
MW - 11	06/15/20	Not Sampled on Current Sample Schedule				
MW - 11	08/27/20	Not Sampled on Current Sample Schedule				
MW - 11	12/01/20	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 11	02/04/21	Not Sampled on Current Sample Schedule				
MW - 11	06/17/21	Not Sampled on Current Sample Schedule				
MW - 11	09/24/21	Not Sampled on Current Sample Schedule				
MW - 11	12/01/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 11	03/02/22	Not Sampled on Current Sample Schedule				
MW - 11	05/25/22	Not Sampled on Current Sample Schedule				
MW - 11	09/14/22	<0.00100	0.00150	<0.00100	<0.00200	
MW - 11	11/29/22	Not Sampled on Current Sample Schedule				
MW - 11	02/21/23	Not Sampled on Current Sample Schedule				
MW - 11	05/23/23	Not Sampled on Current Sample Schedule				
MW - 11	08/15/23	Not Sampled on Current Sample Schedule				
MW - 11	11/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW-12	03/06/14	0.0219	<0.00100	0.0259	0.0458	
MW-12	05/29/14	0.0166	<0.00100	0.00960	<0.00300	
MW-12	08/12/14	0.0513	<0.00100	<0.00100	<0.00100	
MW-12	11/15/14	0.214	<0.0500	<0.0500	<0.0500	
MW-12	02/16/15	0.0160	<0.00100	<0.00100	<0.00100	
MW-12	05/28/15	0.00900	<0.00100	0.00140	0.0018	
MW-12	08/26/15	0.0103	<0.00100	0.00310	0.00280	
MW-12	11/20/15	0.00670	<0.00100	<0.00100	0.00200	
MW-12	02/17/16	0.00630	<0.00100	<0.00100	<0.00100	
MW-12	05/26/16	0.0144	<0.00100	0.00210	0.00670	

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

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LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW-12	08/04/16	0.0152	<0.00100	0.00450	0.00560	
MW-12	11/29/16	0.0124	<0.00200	<0.00200	<0.00200	
MW-12	02/27/17	0.0195	<0.00200	0.00395	0.00243	
MW-12	05/18/17	0.0223	<0.00200	<0.00200	<0.00400	
MW-12	08/29/17	0.0176	<0.00200	<0.00200	<0.002	
MW-12	11/07/17	0.0133	<0.00200	<0.00200	<0.00400	
MW-12	02/22/18	0.00427	<0.00200	<0.00200	<0.00400	
MW-12	05/23/18	0.0129	<0.0100	<0.00500	<0.0200	
MW-12	08/29/18	0.00286	<0.0100	<0.00500	<0.0200	
MW-12	11/29/18	0.00675	<0.0100	<0.00500	<0.0200	
MW-12	03/05/19	0.00500	<0.00100	<0.00100	<0.00200	
MW-12	06/11/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW-12	08/15/19	0.00278	<0.00100	<0.00100	<0.00200	
MW-12	11/25/19	0.00364	<0.00100	<0.00100	<0.00200	
MW-12	02/25/20	0.00286	<0.00100	<0.00100	<0.00200	
MW-12	06/15/20	0.00108	<0.00200	<0.00200	<0.00300	
MW-12	08/27/20	0.00340	<0.00100	<0.00100	<0.00200	
MW-12	12/01/20	0.00168	<0.00100	<0.00100	<0.00200	
MW-12	02/04/21	0.00279	<0.00200	<0.00100	<0.00200	
MW-12	06/17/21	0.00111	<0.00100	<0.00100	<0.00200	
MW-12	09/24/21	0.00214	<0.00100	<0.00100	<0.00200	
MW-12	12/02/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW-12	03/02/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW-12	05/26/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW-12	09/13/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW-12	11/29/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW-12	02/21/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW-12	05/23/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW-12	08/15/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW-12	11/16/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW-13	02/07/14	Installed				
MW-13	03/06/14	Not Sampled due to PSH in Well				
MW-13	05/29/14	Not Sampled due to PSH in Well				
MW-13	08/12/14	Not Sampled due to PSH in Well				
MW-13	11/15/14	Not Sampled due to PSH in Well				
MW-13	02/16/15	Not Sampled due to PSH in Well				
MW-13	05/28/15	Not Sampled due to PSH in Well				
MW-13	08/26/15	Not Sampled due to PSH in Well				
MW-13	11/20/15	Not Sampled due to PSH in Well				
MW-13	02/17/16	Not Sampled due to PSH in Well				
MW-13	05/26/16	Not Sampled due to PSH in Well				

TABLE 5

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM 98-05 A
LEA COUNTY, NEW MEXICO
NMOCD Reference #AP-12

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.01	0.75	0.75	0.62	
MW-13	08/04/16	Not Sampled due to PSH in Well				
MW-13	11/29/16	Not Sampled due to PSH in Well				
MW-13	02/27/17	Not Sampled due to PSH in Well				
MW-13	05/18/17	Not Sampled due to PSH in Well				
MW-13	08/29/17	Not Sampled due to PSH in Well				
MW-13	11/07/17	Not Sampled due to PSH in Well				
MW-13	02/22/18	Not Sampled due to PSH in Well				
MW-13	05/23/18	Not Sampled due to PSH in Well				
MW-13	08/29/18	2.92	<0.100	0.516	0.558	
MW-13	11/29/18	1.03	<0.0500	0.0960	0.115	
MW-13	03/05/19	0.351	0.00821	0.0814	0.09602	
MW-13	06/11/19	0.120	<0.0200	0.0906	0.1256	
MW-13	08/15/19	1.84	0.0102	0.380	0.5005	
MW-13	11/25/19	1.62	0.00208	0.0735	0.1001	
MW-13	02/25/20	2.12	0.0207	0.549	0.6338	
MW-13	06/15/20	2.23	0.0417	0.579	0.6741	
MW-13	08/27/20	2.23	0.0173	0.155	0.1826	
MW-13	12/01/20	2.54	0.0856	0.1150	0.1353	
MW-13	02/04/21	1.05	0.0604	0.307	0.3890	
MW-13	06/17/21	5.13	0.0127	0.359	0.3883	
MW-13	09/24/21	5.99	0.0198	0.724	0.7357	
MW-13	12/02/21	3.86	0.00159	0.0477	0.02151	
MW-13	03/02/22	7.04	0.0154	0.101	0.0548	
MW-13	05/26/22	1.95	0.00132	0.0166	0.01269	
MW-13	09/13/22	3.23	0.00160	0.0220	0.01211	
MW-13	11/29/22	1.75	0.00396	0.0117	0.01456	
MW-13	02/21/23	2.80	0.00643	0.0515	0.02431	
MW-13	05/23/23	5.02	0.00280	0.0243	0.01417	
MW-13	08/15/23	2.78	0.00152	0.0158	0.00551	
MW-13	11/16/23	2.97	0.00253	0.0269	0.0221	

TABLE 6

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 98-05A

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER AP-12

All water concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		---	---	0.001 mg/L	0.0001 mg/L	0.0007 mg/L	0.001 mg/L	---	0.001 mg/L	0.0002 mg/L	0.0003 mg/L	0.001 mg/L	0.001 mg/L	0.0004 mg/L	0.001 mg/L	0.001 mg/L	0.03 mg/L			---
MW-1	11/19/08	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.00193	<0.000917	<0.000917	0.0104	<0.000917	0.014	<0.000917	0.047	0.0806	0.0587	0.0152
MW-1	11/11/09	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.0110	<0.000917	0.0257	0.0706	0.0474	0.0103
MW-1	11/05/10	<0.00188	<0.00188	<0.00188	<0.00188	<0.00188	<0.00188	<0.00188	<0.00188	<0.00188	<0.00188	<0.00188	0.0114	<0.00188	0.0250	<0.00188	0.0407	0.138	0.0768	0.0219
MW-1	12/16/11	<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	0.0132	<0.000185	0.0116	0.0343	0.0171	0.0144
MW-1	11/15/12	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	0.0236	<0.000189	0.0354	0.101	0.0632	0.0286
MW-1	11/07/13	<0.000200	0.213	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.494	0.112	0.388	<0.000200	0.610	1.21	0.0632	21.4
MW-1	11/15/14	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-1	11/20/15	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-1	11/29/16	Not Sampled Due to the Presence of PSH.																		
MW-1	11/07/17	0.00243	0.00172	0.000872	0.00106	<0.000167	<0.000167	<0.000167	<0.000167	0.000216	<0.000167	0.000321	0.00945	<0.000167	0.00938	0.000846	0.0138			0.0179
MW-1	11/29/18	0.00014	0.00016	0.00036	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	0.00051	<0.00011	0.00040	<0.00011	0.00307			0.00075
MW-1	11/25/19	0.00062	0.00074	0.0013	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0024	<0.00010	0.00040	0.0036	<0.00010	0.0060	0.00069	0.017			0.0062
MW-1	12/01/20	0.00019	0.00027	0.00012	0.00017	0.00020	0.00019	0.00019	0.00017	0.00052	0.00020	0.00026	0.00092	0.00023	0.0011	0.00020	0.00463			0.0026
MW-1	12/01/21	Not Sampled																		
MW-1	12/05/22	<0.010	0.011	0.014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.071	<0.010	0.11	<0.010	0.504			-
MW-1	11/15/23	0.00055	0.00069	0.00061	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	0.0013	<0.00011	0.0028	<0.00011	0.0095			-
MW-2	11/19/08	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	0.00525	<0.000922	0.00739	<0.000922	0.0163	0.0252	0.0335	0.00806
MW-2	11/11/09	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	0.0114	<0.000922	0.0488	0.0930	0.0735	0.0116
MW-2	11/05/10	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	0.00106	<0.000186	0.00238	<0.000186	0.00139	0.00528	0.000936	0.00168
MW-2	12/16/11	<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	0.00346	<0.000185	0.00324	0.00714	0.00306	0.00263
MW-2	11/15/12	Not Sampled Due to the Presence of PSH.																		
MW-2	11/07/13	Not Sampled Due to the Presence of PSH.																		
MW-2	11/15/14	Not Sampled Due to the Presence of PSH.																		
MW-2	11/20/15	Not Sampled Due to the Presence of PSH.																		
MW-2	11/29/16	0.00136	0.000935	0.00586	<0.000481	<0.000481	<0.000481	<0.000481	<0.000481	0.000918	<0.000481	<0.000481	0.000714	<0.000481	0.00554	<0.000481	0.0112			0.00483
MW-2	11/07/17	Not Sampled																		
MW-2	11/29/18	0.00020	0.00024	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	0.00097	<0.00011	0.00079	<0.00011	0.0076			0.0015
MW-2	11/25/19	0.00048	0.00057	0.00043	0.00024	<0.000098	<0.000098	<0.000098	<0.000098	0.00094	<0.000098	0.00026	0.0037	<0.000098	0.0053	0.00035	0.0325			0.0069
MW-2	12/01/20	0.00013	<0.00010	0.00010	0.00010	0.00019	0.00015	0.00020	0.00016	0.00021	0.00019	0.00012	0.00068	0.00027	0.00070	<0.00010	0.00772			0.0019

TABLE 6

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 98-05A

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER AP-12

All water concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		---	---	0.001 mg/L	0.0001 mg/L	0.0007 mg/L	0.001 mg/L	---	0.001 mg/L	0.0002 mg/L	0.0003 mg/L	0.001 mg/L	0.001 mg/L	0.0004 mg/L	0.001 mg/L	0.001 mg/L	0.03 mg/L			----
MW-2	12/01/21	0.00093	<0.00010	0.00015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00022	<0.00010	0.00017	0.00084	<0.00010	0.00060	0.00018	0.00321			0.0020
MW-2	12/05/22	<0.00010	0.00093	0.0014	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0012	<0.00010	0.0038	<0.00010	0.00284			-
MW-3	11/19/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00022	<0.000184	<0.000184	<0.000184
MW-3	11/11/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
MW-3	11/05/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/07/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/20/15	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/29/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/07/17	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/29/18	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/25/19	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	12/01/20	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	12/01/21	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
MW-3	11/29/22	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/19/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	
MW-5	11/11/09	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	
MW-5	11/05/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/07/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/20/15	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/29/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/07/17	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/29/18	Not Sampled as part of Quarterly Monitoring Event.																		

TABLE 6

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 98-05A

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER AP-12

All water concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		---	---	0.001 mg/L	0.0001 mg/L	0.0007 mg/L	0.001 mg/L	---	0.001 mg/L	0.0002 mg/L	0.0003 mg/L	0.001 mg/L	0.001 mg/L	0.0004 mg/L	0.001 mg/L	0.001 mg/L	0.03 mg/L			---
MW-5	11/25/19	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	12/01/20	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	12/02/21	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/29/22	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	11/19/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	
MW-6	11/11/09	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	
MW-6	11/05/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	11/07/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	11/20/15	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	11/29/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	11/07/17	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	11/29/18	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	11/25/19	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	12/01/20	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	12/02/21	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	11/29/22	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/19/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	
MW-7	11/11/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
MW-7	11/05/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/07/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/20/15	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/29/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/07/17	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/29/18	Not Sampled as part of Quarterly Monitoring Event.																		

TABLE 6

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 98-05A

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER AP-12

All water concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		---	---	0.001 mg/L	0.0001 mg/L	0.0007 mg/L	0.001 mg/L	---	0.001 mg/L	0.0002 mg/L	0.0003 mg/L	0.001 mg/L	0.001 mg/L	0.0004 mg/L	0.001 mg/L	0.001 mg/L	0.03 mg/L		---	
MW-7	11/25/19	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	12/01/20	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	12/01/21	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/28/22	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/19/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
MW-8	11/11/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
MW-8	11/05/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/07/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/20/15	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/29/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/07/17	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/29/18	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/25/19	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	12/01/20	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	12/01/21	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/28/22	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	11/19/08	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	0.00427	<0.000935	0.00553	<0.000935	0.00202	0.00876	0.00297	0.00586
MW-9	11/11/09	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	0.00358	<0.000922	<0.000922	<0.000922	<0.000922	
MW-9	11/05/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	12/16/11	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	
MW-9	11/15/12	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	
MW-9	11/07/13	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	
MW-9	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	11/20/15	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	11/29/16	Not Sampled as part of Quarterly Monitoring Event.																		

TABLE 6

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 98-05A

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER AP-12

All water concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		---	---	0.001 mg/L	0.0001 mg/L	0.0007 mg/L	0.001 mg/L	---	0.001 mg/L	0.0002 mg/L	0.0003 mg/L	0.001 mg/L	0.001 mg/L	0.0004 mg/L	0.001 mg/L	0.001 mg/L	0.03 mg/L			---
MW-9	11/07/17	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	11/29/18	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	11/25/19	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	12/01/20	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	12/01/21	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	11/29/22	Not Sampled as part of Quarterly Monitoring Event.																		
MW-10	11/19/08	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	0.050	<0.00367	0.0652	<0.00367	0.175	0.412	0.380	0.0765
MW-10	11/11/09	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	0.0101	<0.000922	0.0474	0.0934	0.0713	0.0125
MW-10	11/05/10	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	0.00495	<0.000188	0.00732	<0.000188	0.0358	0.0569	0.041	0.00602
MW-10	12/16/11	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.0151	<0.000184	0.0652	0.0901	0.0815	0.0200
MW-10	11/15/12	Not Sampled due to the presence of PSH																		
MW-10	11/07/13	Not Sampled due to the presence of PSH																		
MW-10	11/15/14	Not Sampled due to the presence of PSH																		
MW-10	11/20/15	Not Sampled due to the presence of PSH																		
MW-10	11/29/16	Not Sampled due to the presence of PSH																		
MW-10	11/07/17	Not Sampled due to the presence of PSH																		
MW-10	11/29/18	0.00037	0.00027	0.00013	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	0.0021	<0.00012	0.0017	<0.00012	0.389			0.0040
MW-10	11/25/19	0.00059	0.0012	0.0011	0.00013	<0.000098	<0.000098	<0.000098	<0.000098	0.0013	<0.000098	0.00027	0.0082	<0.000098	0.012	0.00044	0.184			0.016
MW-10	12/01/20	0.00023	0.00036	0.00023	<0.000099	0.00013	0.00016	0.00017	0.00015	0.00045	0.00019	0.00037	0.0021	0.00018	0.0038	0.00019	0.094			0.0048
MW-10	12/02/21	0.0011	0.00035	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0011	<0.00010	0.0013	<0.00010	0.0183			0.0026
MW-10	11/28/22	0.00045	0.00054	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0030	<0.00010	0.0059	<0.00010	0.0248			-
MW-10	11/16/23	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0018	<0.00010	0.00098	<0.00010	0.009			-
MW-11	11/19/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	
MW-11	11/11/09	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	
MW-11	11/05/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	11/07/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		

TABLE 6

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 98-05A

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER AP-12

All water concentrations are reported in mg/L.

SAMPLE LOCATION		SAMPLE DATE	EPA SW846-8270C, 3510																		
			Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene		1-Methylnaphthalene	2-Methylnaphthalene
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.					0.001 mg/L	0.0001 mg/L	0.0007 mg/L	0.001 mg/L		0.001 mg/L	0.0002 mg/L	0.0003 mg/L	0.001 mg/L	0.001 mg/L	0.0004 mg/L	0.001 mg/L	0.001 mg/L	0.03 mg/L			
MW-11	11/20/15	Not Sampled as part of Quarterly Monitoring Event.																			
MW-11	11/29/16	Not Sampled as part of Quarterly Monitoring Event.																			
MW-11	11/07/17	Not Sampled as part of Quarterly Monitoring Event.																			
MW-11	11/29/18	Not Sampled as part of Quarterly Monitoring Event.																			
MW-11	11/25/19	Not Sampled as part of Quarterly Monitoring Event.																			
MW-11	12/01/20	Not Sampled as part of Quarterly Monitoring Event.																			
MW-11	12/01/21	Not Sampled as part of Quarterly Monitoring Event.																			
MW-11	11/28/22	Not Sampled as part of Quarterly Monitoring Event.																			
MW-12	03/05/14	<0.00465	<0.00465	<0.00465	<0.00465	<0.00465	<0.00465	<0.00465	<0.00465	<0.00465	<0.00465	<0.00465	<0.00465	<0.00465	<0.00465	<0.00465	0.00956	0.0153	0.0105	<0.00465	
MW-12	11/15/14	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	
MW-12	11/20/15	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	
MW-12	11/20/15	Not Sampled as part of Quarterly Monitoring Event.																			
MW-12	11/29/16	Not Sampled as part of Quarterly Monitoring Event.																			
MW-12	11/07/17	Not Sampled as part of Quarterly Monitoring Event.																			
MW-12	11/29/18	Not Sampled as part of Quarterly Monitoring Event.																			
MW-12	11/25/19	Not Sampled as part of Quarterly Monitoring Event.																			
MW-12	12/01/20	Not Sampled as part of Quarterly Monitoring Event.																			
MW-12	12/02/21	Not Sampled as part of Quarterly Monitoring Event.																			
MW-12	11/29/22	Not Sampled as part of Quarterly Monitoring Event.																			
MW-13	03/05/14	Not Sampled Due to the Presence of PSH.																			
MW-13	11/15/14	Not Sampled Due to the Presence of PSH.																			
MW-13	11/20/15	Not Sampled Due to the Presence of PSH.																			
MW-13	11/29/16	Not Sampled Due to the Presence of PSH.																			
MW-13	11/07/17	Not Sampled Due to the Presence of PSH.																			
MW-13	11/29/18	0.00018	<0.00011	0.00061	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	0.00096	<0.00011	0.00069	<0.00011	0.0098			0.0015	
MW-13	11/25/19	0.00018	0.00026	0.00021	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	0.00022	<0.000098	<0.000098	0.00017	<0.000098	0.00021	0.00010	0.0291			0.0027	
MW-13	12/01/20	0.00013	0.00022	0.00022	0.00014	0.00019	0.00015	0.00021	0.00013	0.00029	0.00020	0.00028	0.00012	0.00030	0.00033	0.00023	0.064			0.0026	
MW-13	12/02/21	Not Sampled																			
MW-13	11/29/22	0.00080	0.0010	0.0012	0.0011	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00048	<0.00010	0.00081	<0.00010	0.026			-	
MW-13	11/16/23	0.00022	<0.00010	0.00059	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00014	<0.00010	0.00052	<0.00010	0.0296			-	

TABLE 6

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 98-05A

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER AP-12

All water concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		---	---	0.001 mg/L	0.0001 mg/L	0.0007 mg/L	0.001 mg/L	---	0.001 mg/L	0.0002 mg/L	0.0003 mg/L	0.001 mg/L	0.001 mg/L	0.0004 mg/L	0.001 mg/L	0.001 mg/L	0.03 mg/L			---

TABLE 7

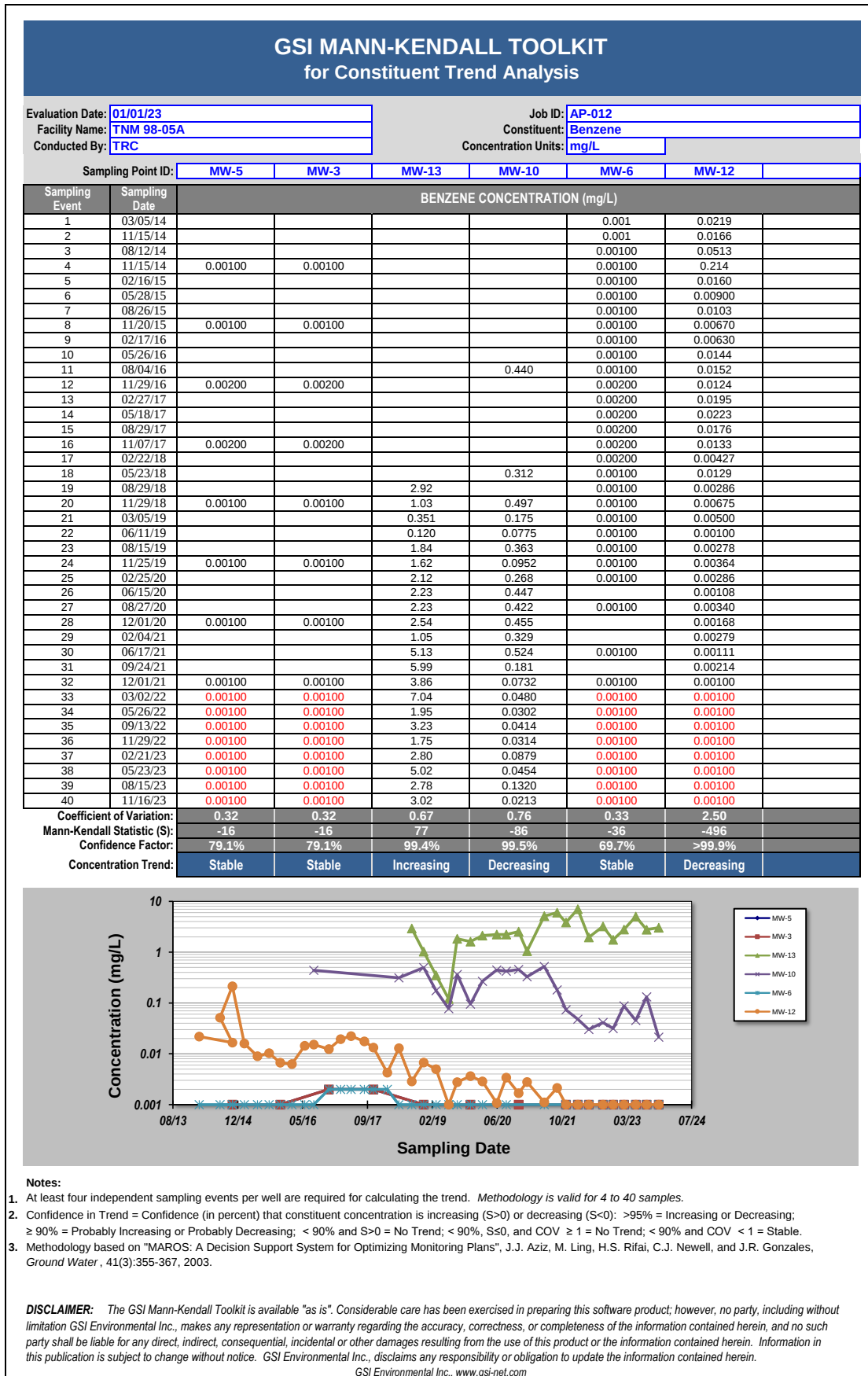


TABLE 8

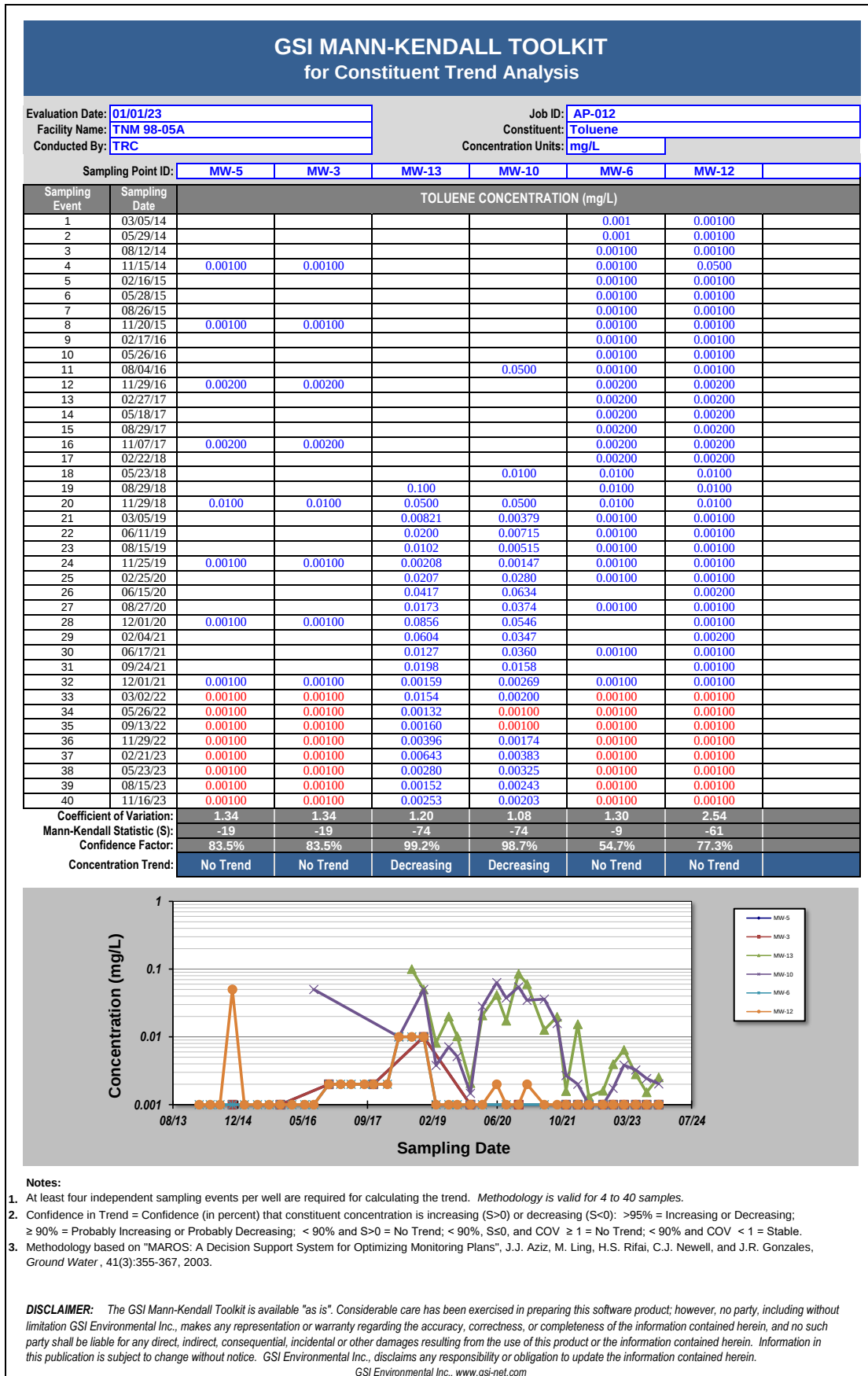


TABLE 9

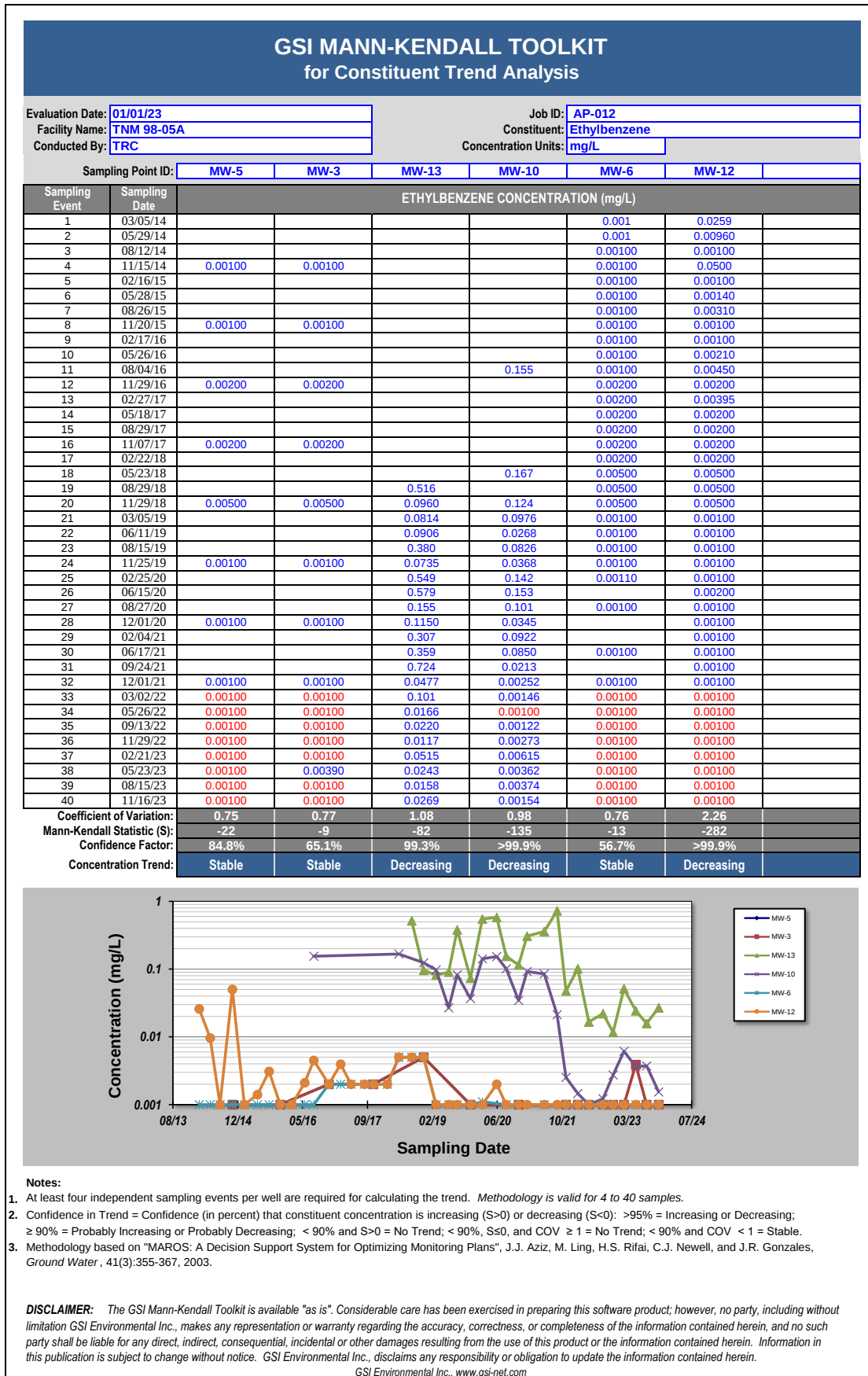


TABLE 10

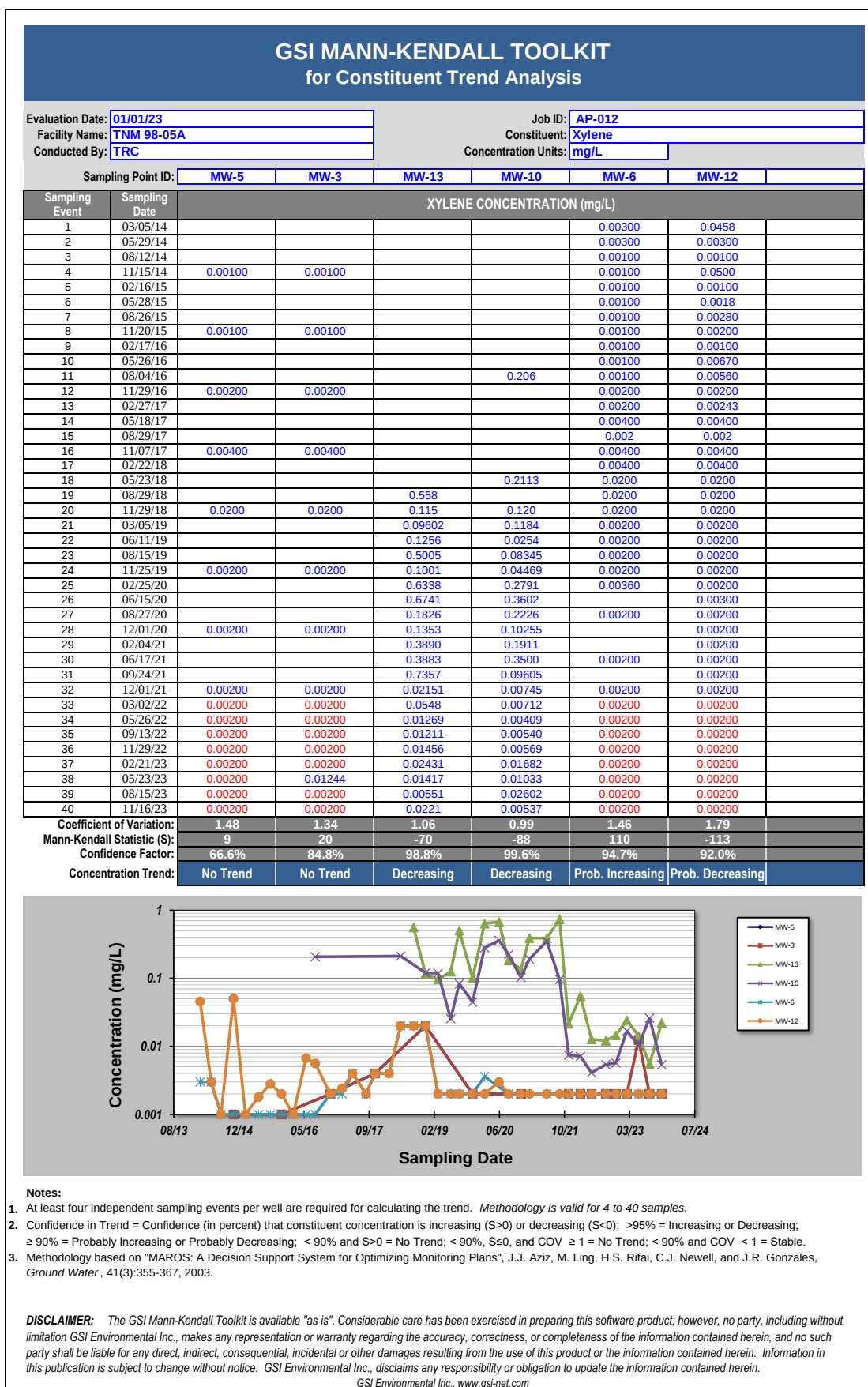
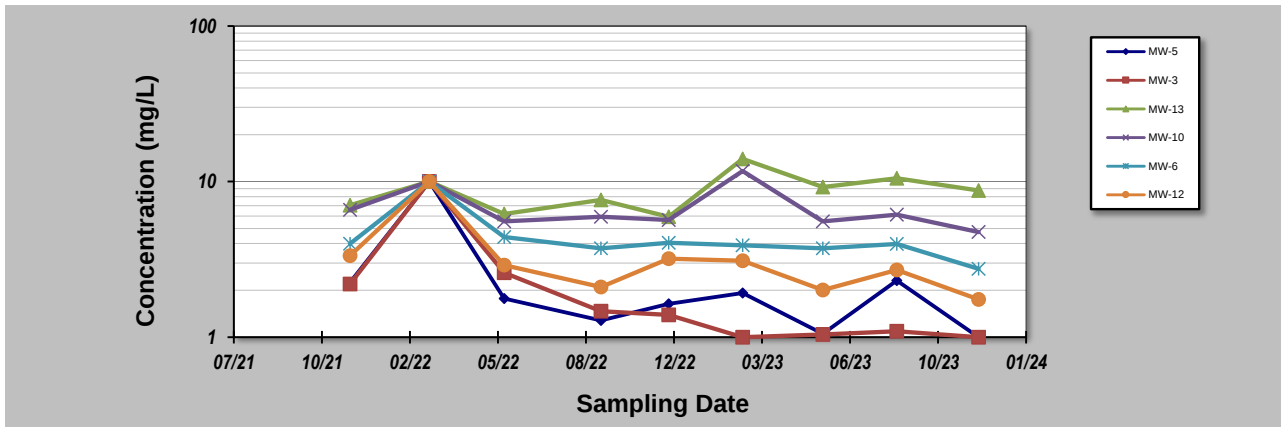


TABLE 11

GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date:	01/01/22	Job ID:	AP-012					
Facility Name:	TNM 98-05A	Constituent:	Total Organic Carbon (TOC)					
Conducted By:	TRC	Concentration Units:	mg/L					
Sampling Point ID:	MW-5	MW-3	MW-13	MW-10	MW-6	MW-12		
Sampling Event	Sampling Date	TOTAL ORGANIC CARBON (TOC) CONCENTRATION (mg/L)						
1	12/02/21	2.25	2.20	7.05	6.58	3.99	3.34	
2	03/02/22	10.0	10.0	10.0	10.0	10.0	10.0	
3	05/26/22	1.77	2.60	6.20	5.56	4.41	2.91	
4	09/13/22	1.28	1.47	7.62	5.95	3.72	2.10	
5	11/29/22	1.64	1.39	5.94	5.66	4.05	3.20	
6	02/21/23	1.92	1.00	14.0	11.7	3.89	3.10	
7	05/23/23	1.05	1.04	9.22	5.55	3.72	2.01	
8	08/15/23	2.31	1.09	10.5	6.14	3.98	2.70	
9	11/16/23	1.00	1.00	8.78	4.74	2.75	1.75	
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Coefficient of Variation:	1.09	1.20	0.29	0.34	0.47	0.73		
Mann-Kendall Statistic (S):	-14	-25	8	-12	-19	-22		
Confidence Factor:	91.0%	99.6%	76.2%	87.0%	97.0%	98.8%		
Concentration Trend:	Prob. Decreasing	Decreasing	No Trend	Stable	Decreasing	Decreasing		

**Notes:**

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $>95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

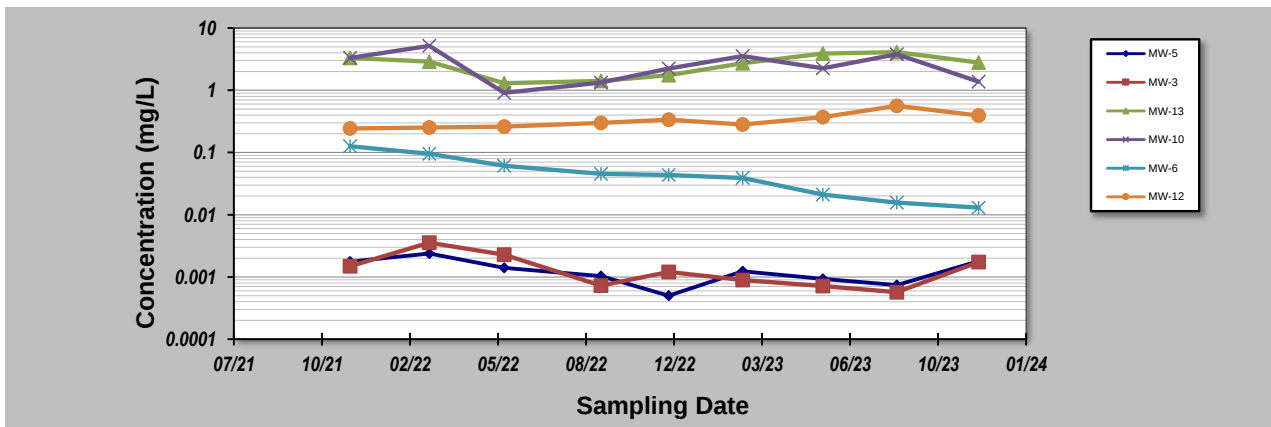
DISCLAIMER: The GSI Mann-Kendall Toolkit is available "as is". Considerable care has been exercised in preparing this software product; however, no party, including without limitation GSI Environmental Inc., makes any representation or warranty regarding the accuracy, correctness, or completeness of the information contained herein, and no such party shall be liable for any direct, indirect, consequential, incidental or other damages resulting from the use of this product or the information contained herein. Information in this publication is subject to change without notice. GSI Environmental Inc., disclaims any responsibility or obligation to update the information contained herein.

GSI Environmental Inc., www.gsi-net.com

TABLE 12

GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date:	01/01/23	Job ID:	AP-012					
Facility Name:	TNM 98-05A	Constituent:	Dissolved Methane (RSK-175)					
Conducted By:	TRC	Concentration Units:	mg/L					
Sampling Point ID:	MW-5	MW-3	MW-13	MW-10	MW-6	MW-12		
Sampling Event	Sampling Date	DISSOLVED METHANE (RSK-175) CONCENTRATION (mg/L)						
1	12/02/21	0.00177	0.00149	3.32	3.31	0.126	0.243	
2	03/02/22	0.00238	0.00355	2.89	5.18	0.0955	0.251	
3	05/26/22	0.00140	0.00228	1.30	0.909	0.0613	0.260	
4	09/13/22	0.00103	0.000729	1.41	1.33	0.0455	0.299	
5	11/29/22	0.0005	0.00120	1.75	2.24	0.0435	0.336	
6	02/21/23	0.00123	0.000893	2.72	3.53	0.0391	0.281	
7	05/23/23	0.000931	0.000716	3.89	2.25	0.0211	0.371	
8	08/15/23	0.000742	0.000570	4.10	3.78	0.0156	0.563	
9	11/16/23	0.00180	0.00174	2.78	1.38	0.0130	0.391	
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Coefficient of Variation:	0.45	0.66	0.38	0.53	0.74	0.30		
Mann-Kendall Statistic (S):	-12	-16	10	2	-36	30		
Confidence Factor:	87.0%	94.0%	82.1%	54.0%	>99.9%	100.0%		
Concentration Trend:	Stable	Prob. Decreasing	No Trend	No Trend	Decreasing	Increasing		



Notes:

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $>95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

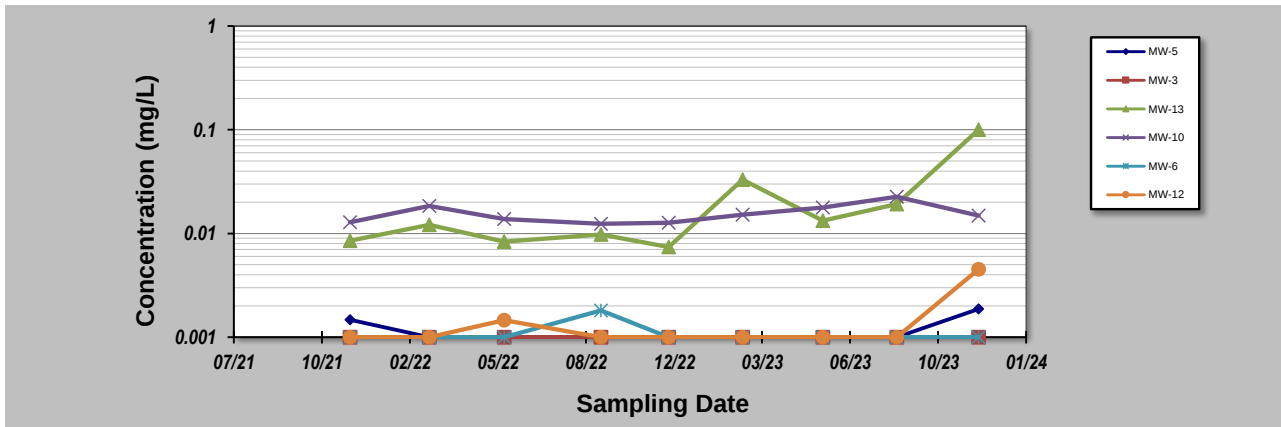
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TABLE 13

GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date:	01/01/23	Job ID:	AP-012					
Facility Name:	TNM 98-05A	Constituent:	Dissolved Ethane (RSK-175)					
Conducted By:	TRC	Concentration Units:	mg/L					
Sampling Point ID:	MW-5	MW-3	MW-13	MW-10	MW-6	MW-12		
Sampling Event	Sampling Date	DISSOLVED ETHANE (RSK-175) CONCENTRATION (mg/L)						
1	12/02/21	0.00147	0.00100	0.00851	0.0128	0.00100	0.00100	
2	03/02/22	0.00100	0.00100	0.0121	0.0184	0.00100	0.00100	
3	05/26/22	0.00100	0.00100	0.00835	0.0138	0.00100	0.00146	
4	09/13/22	0.00100	0.00100	0.00978	0.0124	0.00181	0.00100	
5	11/29/22	0.00100	0.00100	0.00740	0.0127	0.00100	0.00100	
6	02/21/23	0.00100	0.00100	0.0330	0.0152	0.00100	0.00100	
7	05/23/23	0.00100	0.00100	0.0133	0.0178	0.00100	0.00100	
8	08/15/23	0.00100	0.00100	0.0192	0.0226	0.00100	0.00100	
9	11/16/23	0.00187	0.00100	0.100	0.0149	0.00100	0.00452	
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Coefficient of Variation:	0.27	0.00	1.27	0.22	0.25	0.81		
Mann-Kendall Statistic (S):	1	0	18	10	-2	5		
Confidence Factor:	50.0%	46.0%	96.2%	82.1%	54.0%	65.7%		
Concentration Trend:	No Trend	Stable	Increasing	No Trend	Stable	No Trend		



Notes:

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

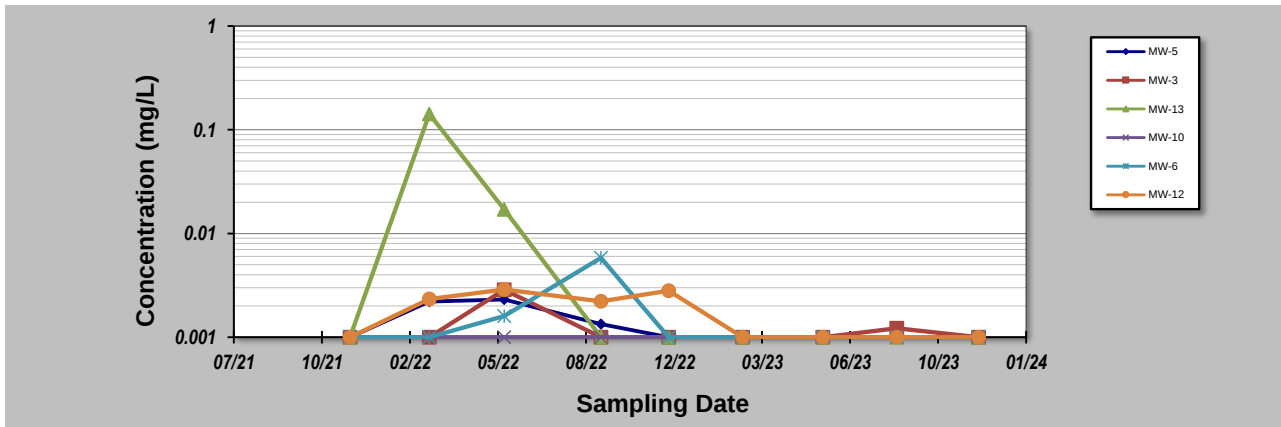
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TABLE 14

GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date:	01/01/23	Job ID:	AP-012					
Facility Name:	TNM 98-05A	Constituent:	Dissolved Ethene (RSK-175)					
Conducted By:	TRC	Concentration Units:	mg/L					
Sampling Point ID:	MW-5	MW-3	MW-13	MW-10	MW-6	MW-12		
Sampling Event	Sampling Date	DISSOLVED ETHENE (RSK-175) CONCENTRATION (mg/L)						
1	12/02/21	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	
2	03/02/22	0.00221	0.00100	0.142	0.00100	0.00100	0.00234	
3	05/26/22	0.00231	0.00287	0.0171	0.00100	0.00160	0.00288	
4	09/13/22	0.00134	0.00100	0.00100	0.00100	0.00582	0.00222	
5	11/29/22	0.00100	0.00100	0.00100	0.00100	0.00100	0.00281	
6	02/21/23	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	
7	05/23/23	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	
8	08/15/23	0.00100	0.00122	0.00100	0.00100	0.00100	0.00100	
9	11/16/23	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	
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Coefficient of Variation:	0.41	0.50	2.53	0.00	0.99	0.50		
Mann-Kendall Statistic (S):	-13	1	-11	0	-5	-12		
Confidence Factor:	89.0%	50.0%	84.6%	46.0%	65.7%	87.0%		
Concentration Trend:	Stable	No Trend	No Trend	Stable	Stable	Stable		

**Notes:**

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

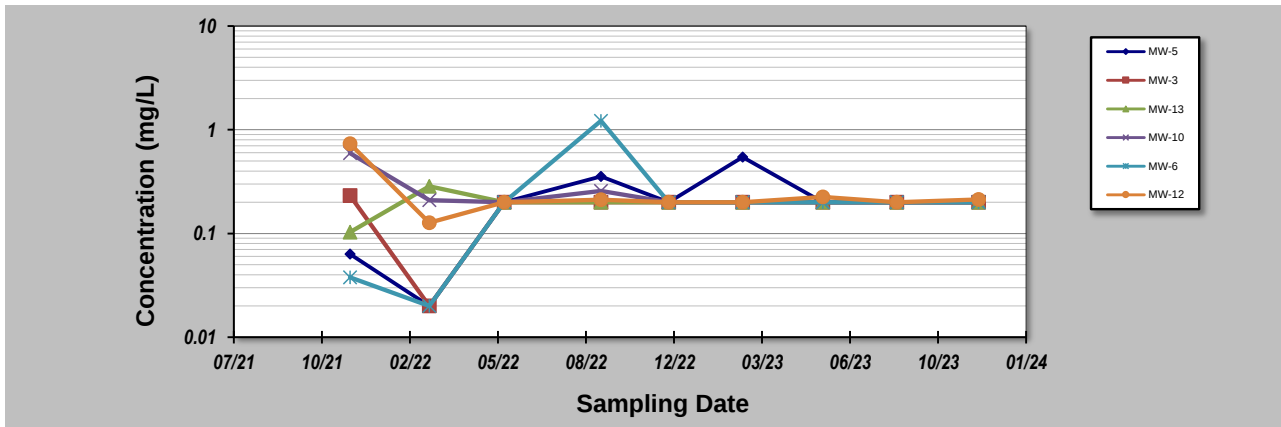
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TABLE 15

GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date:	01/01/23	Job ID:	AP-012					
Facility Name:	TNM 98-05A	Constituent:	Dissolved Iron (filtered)					
Conducted By:	TRC	Concentration Units:	mg/L					
Sampling Point ID:	MW-5	MW-3	MW-13	MW-10	MW-6	MW-12		
Sampling Event	Sampling Date	DISSOLVED IRON (FILTERED) CONCENTRATION (mg/L)						
1	12/02/21	0.0632	0.232	0.103	0.595	0.0377	0.732	
2	03/02/22	0.0200	0.0200	0.285	0.209	0.0200	0.127	
3	05/26/22	0.200	0.200	0.200	0.200	0.200	0.200	
4	09/13/22	0.355	0.200	0.200	0.257	1.22	0.212	
5	11/29/22	0.200	0.200	0.200	0.200	0.200	0.200	
6	02/21/23	0.545	0.200	0.200	0.200	0.200	0.200	
7	05/23/23	0.200	0.200	0.200	0.200	0.200	0.225	
8	08/15/23	0.200	0.200	0.200	0.200	0.200	0.200	
9	11/16/23	0.200	0.200	0.200	0.200	0.200	0.213	
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Coefficient of Variation:	0.70	0.34	0.23	0.52	1.31	0.70		
Mann-Kendall Statistic (S):	10	-1	1	-17	9	4		
Confidence Factor:	82.1%	50.0%	50.0%	95.1%	79.2%	61.9%		
Concentration Trend:	No Trend	Stable	No Trend	Decreasing	No Trend	No Trend		



Notes:

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

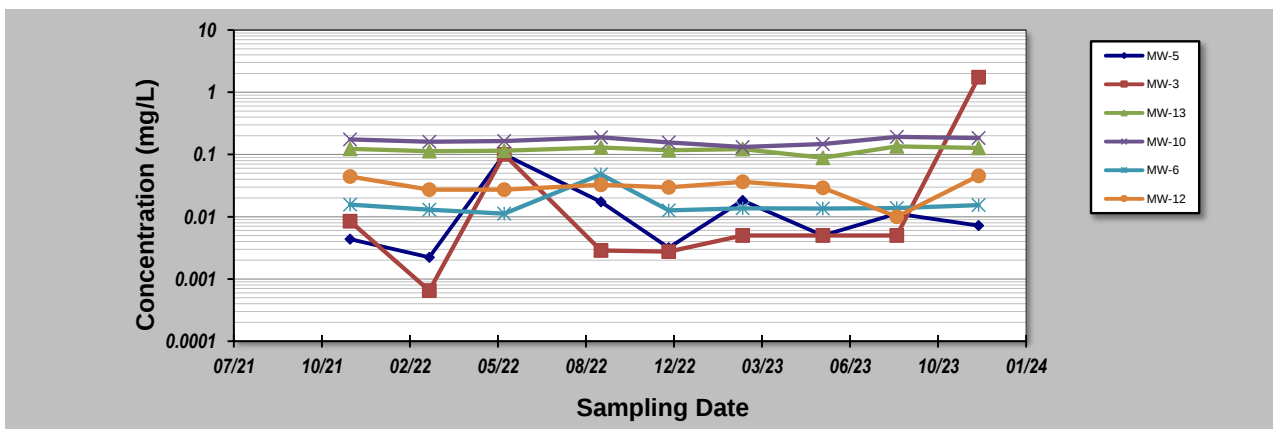
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TABLE 16

GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date:	01/01/23			Job ID:	AP-012			
Facility Name:	TNM 98-05A			Constituent:	Dissolved Manganese (filtered)			
Conducted By:	TRC			Concentration Units:	mg/L			
Sampling Point ID:		MW-5	MW-3	MW-13	MW-10	MW-6	MW-12	
Sampling Event	Sampling Date	DISSOLVED MANGANESE (FILTERED) CONCENTRATION (mg/L)						
1	12/02/21	0.00436	0.00847	0.123	0.175	0.0156	0.0443	
2	03/02/22	0.00223	0.000651	0.113	0.161	0.0130	0.0272	
3	05/26/22	0.100	0.100	0.115	0.164	0.0112	0.0273	
4	09/13/22	0.0173	0.00288	0.130	0.189	0.0479	0.0325	
5	11/29/22	0.00318	0.00276	0.117	0.157	0.0127	0.0296	
6	02/21/23	0.0182	0.00500	0.122	0.132	0.0137	0.0363	
7	05/23/23	0.00500	0.00500	0.0885	0.147	0.0135	0.0292	
8	08/15/23	0.0112	0.00500	0.135	0.192	0.0138	0.0100	
9	11/16/23	0.00722	1.74	0.127	0.184	0.0154	0.0456	
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Coefficient of Variation:		1.66	2.77	0.11	0.12	0.66	0.34	
Mann-Kendall Statistic (S):		4	9	8	0	6	2	
Confidence Factor:		61.9%	79.2%	76.2%	46.0%	69.4%	54.0%	
Concentration Trend:		No Trend	No Trend	No Trend	Stable	No Trend	No Trend	



Notes:

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

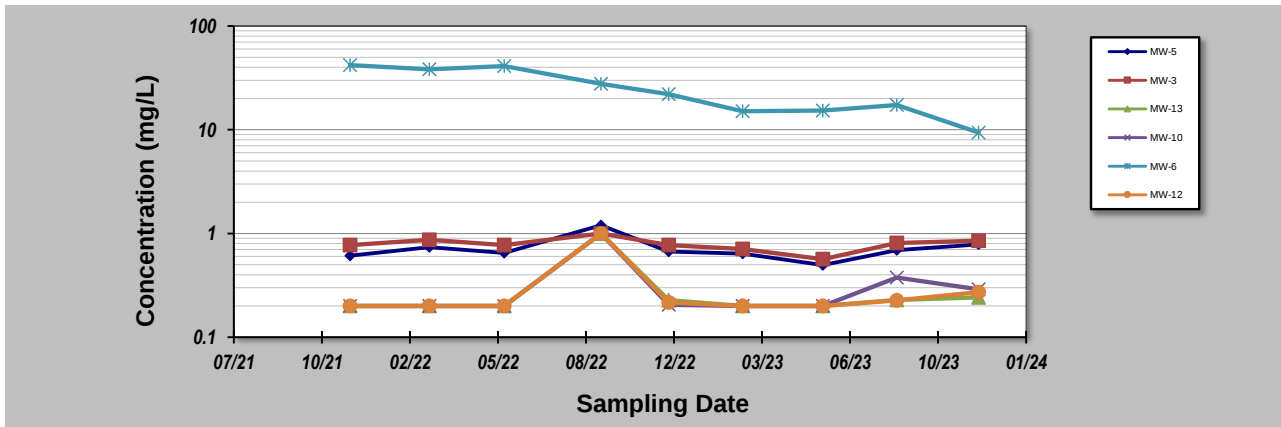
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TABLE 17

GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date:	01/01/23	Job ID:	AP-012					
Facility Name:	TNM 98-05A	Constituent:	Nitrate					
Conducted By:	TRC	Concentration Units:	mg/L					
Sampling Point ID:	MW-5	MW-3	MW-13	MW-10	MW-6	MW-12		
Sampling Event	Sampling Date	NITRATE CONCENTRATION (mg/L)						
1	12/02/21	0.612	0.773	0.200	0.200	42.0	0.200	
2	03/02/22	0.737	0.867	0.200	0.200	38.3	0.200	
3	05/26/22	0.649	0.771	0.200	0.200	41.2	0.200	
4	09/13/22	1.20	1.00	1.00	1.00	27.7	1.00	
5	11/29/22	0.668	0.772	0.227	0.205	22.0	0.216	
6	02/21/23	0.640	0.708	0.200	0.200	15.1	0.200	
7	05/23/23	0.496	0.565	0.200	0.200	15.3	0.200	
8	08/15/23	0.689	0.808	0.229	0.375	17.3	0.226	
9	11/16/23	0.783	0.850	0.242	0.289	9.40	0.272	
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Coefficient of Variation:	0.27	0.15	0.88	0.82	0.49	0.87		
Mann-Kendall Statistic (S):	4	-4	12	10	-28	12		
Confidence Factor:	61.9%	61.9%	87.0%	82.1%	99.9%	87.0%		
Concentration Trend:	No Trend	Stable	No Trend	No Trend	Decreasing	No Trend		



Notes:

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

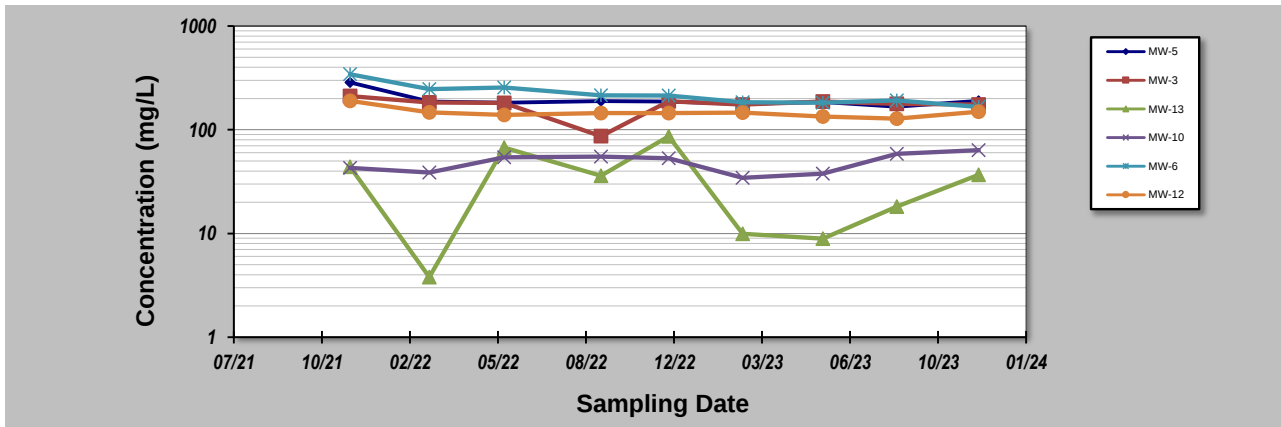
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TABLE 18

GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date:	01/01/23	Job ID:	AP-012					
Facility Name:	TNM 98-05A	Constituent:	Sulfate					
Conducted By:	TRC	Concentration Units:	mg/L					
Sampling Point ID:	MW-5	MW-3	MW-13	MW-10	MW-6	MW-12		
Sampling Event	Sampling Date	SULFATE CONCENTRATION (mg/L)						
1	12/02/21	286	211	44.0	42.8	343	190	
2	03/02/22	187	183	3.80	38.7	247	147	
3	05/26/22	182	181	67.4	54.3	256	139	
4	09/13/22	189	86.7	36.0	55.2	215	145	
5	11/29/22	187	188	86.5	53.1	214	145	
6	02/21/23	178	175	9.93	34.4	184	146	
7	05/23/23	185	187	8.92	37.8	182	134	
8	08/15/23	167	178	18.2	58.7	192	128	
9	11/16/23	190	175	36.8	63.6	166	149	
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Coefficient of Variation:	0.18	0.20	0.81	0.21	0.24	0.12		
Mann-Kendall Statistic (S):	-11	-13	-2	10	-30	-11		
Confidence Factor:	84.6%	89.0%	54.0%	82.1%	100.0%	84.6%		
Concentration Trend:	Stable	Stable	Stable	No Trend	Decreasing	Stable		

**Notes:**

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

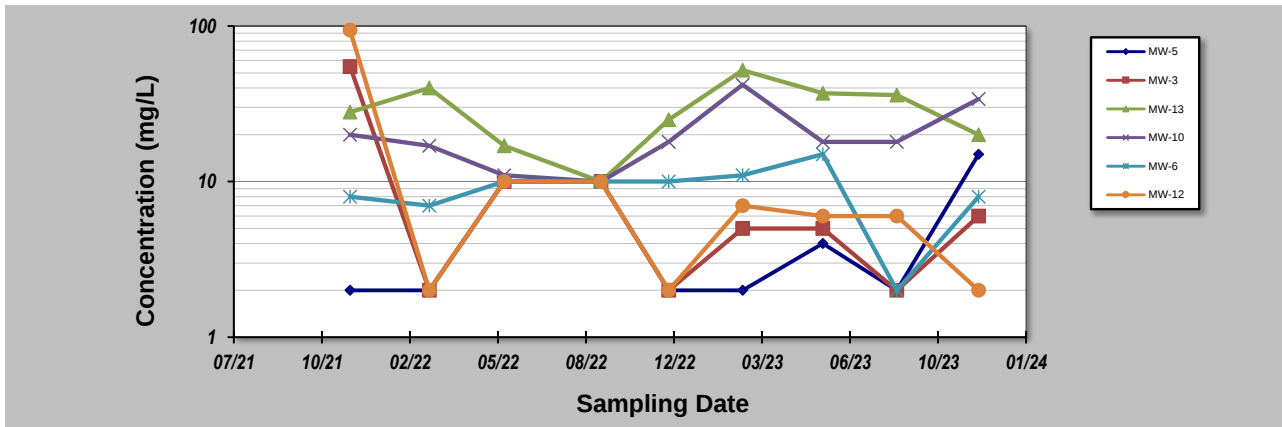
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TABLE 19

GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date:	01/01/23	Job ID:	AP-012					
Facility Name:	TNM 98-05A	Constituent:	Chemical Oxygen Demand (COD)					
Conducted By:	TRC	Concentration Units:	mg/L					
Sampling Point ID:	MW-5	MW-3	MW-13	MW-10	MW-6	MW-12		
Sampling Event	Sampling Date	CHEMICAL OXYGEN DEMAND (COD) CONCENTRATION (mg/L)						
1	12/02/21	2.00	55.0	28.0	20.0	8.00	94.0	
2	03/02/22	2.00	2.00	40.0	17.0	7.00	2.00	
3	05/26/22	10.0	10.0	17.0	11.0	10.0	10.0	
4	09/13/22	10.0	10.0	10.0	10.0	10.0	10.0	
5	11/29/22	2.00	2.00	25.0	18.0	10.0	2.00	
6	02/21/23	2.00	5.00	52.0	42.0	11.0	7.00	
7	05/23/23	4.00	5.00	37.0	18.0	15.0	6.00	
8	08/15/23	2.00	2.00	36.0	18.0	2.00	6.00	
9	11/16/23	15.0	6.00	20.0	34.0	8.00	2.00	
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Coefficient of Variation:	0.91	1.57	0.44	0.50	0.39	1.92		
Mann-Kendall Statistic (S):	7	-9	0	9	6	-15		
Confidence Factor:	72.8%	79.2%	46.0%	79.2%	69.4%	92.5%		
Concentration Trend:	No Trend	No Trend	Stable	No Trend	No Trend	Prob. Decreasing		

**Notes:**

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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APPENDICES

APPENDIX A: 2023 Laboratory Analytical Reports

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Location: Lea County, NM
Lab Order Number: 3B22002



Current Certification

Report Date: 03/23/23

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3	3B22002-01	Water	02/21/23 11:00	02-22-2023 09:20
MW-5	3B22002-02	Water	02/21/23 12:03	02-22-2023 09:20
MW-6	3B22002-03	Water	02/21/23 13:07	02-22-2023 09:20
MW-12	3B22002-04	Water	02/21/23 14:13	02-22-2023 09:20
MW-10	3B22002-05	Water	02/21/23 14:57	02-22-2023 09:20
MW-13	3B22002-06	Water	02/21/23 15:50	02-22-2023 09:20

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

MW-3
3B22002-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 18:28	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 18:28	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 18:28	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 18:28	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 18:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	103 %		80-120		P3B2704	02/27/23 14:06	02/27/23 18:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.2 %		80-120		P3B2704	02/27/23 14:06	02/27/23 18:28	EPA 8021B	
Ethane	ND	1.00	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 12:14	8015M	SUB-13
Ethene	ND	1.00	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 12:14	8015M	SUB-13
Methane	0.000893	0.000500	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 12:14	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	5.00	2.00	mg/L	1	P3B2808	02/28/23 12:02	02/28/23 14:00	8000	QAL1
Nitrate as N	0.708	0.200	mg/L	1	P3B2303	02/23/23 10:48	02/23/23 12:32	EPA 300.0	
Sulfate	175	10.0	mg/L	10	P3B2303	02/23/23 10:48	02/24/23 12:48	EPA 300.0	
Total Organic Carbon	ND	1.00	mg/L	1	P3C2217	02/27/23 20:24	02/27/23 20:24	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3B2107	03/16/23 13:30	03/17/23 12:48	EPA 6020A	SUB-13
Manganese	ND	0.00500	mg/L	1	P3B2107	03/16/23 13:30	03/17/23 12:48	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-5
3B22002-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 18:49	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 18:49	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 18:49	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 18:49	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 18:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	103 %	80-120			P3B2704	02/27/23 14:06	02/27/23 18:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.7 %	80-120			P3B2704	02/27/23 14:06	02/27/23 18:49	EPA 8021B	
Ethane	ND	1.00	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 12:23	8015M	SUB-13
Ethene	ND	1.00	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 12:23	8015M	SUB-13
Methane	0.00123	0.000500	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 12:23	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	ND	2.00	mg/L	1	P3B2808	02/28/23 12:02	02/28/23 14:00	8000	QAL1
Nitrate as N	0.640	0.200	mg/L	1	P3B2303	02/23/23 10:48	02/23/23 13:34	EPA 300.0	
Sulfate	178	10.0	mg/L	10	P3B2303	02/23/23 10:48	02/24/23 13:09	EPA 300.0	
Total Organic Carbon	1.92	1.00	mg/L	1	P3C2217	02/27/23 20:36	02/27/23 20:36	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	0.545	0.200	mg/L	1	P3B2107	03/16/23 13:30	03/17/23 13:00	EPA 6020A	SUB-13
Manganese	0.0182	0.00500	mg/L	1	P3B2107	03/16/23 13:30	03/17/23 13:00	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-6
3B22002-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:11	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:11	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:11	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:11	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %	80-120			P3B2704	02/27/23 14:06	02/27/23 19:11	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %	80-120			P3B2704	02/27/23 14:06	02/27/23 19:11	EPA 8021B	
Ethane	ND	1.00	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 12:45	8015M	SUB-13
Ethene	ND	1.00	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 12:45	8015M	SUB-13
Methane	0.0391	0.00500	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 13:08	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	11.0	2.00	mg/L	1	P3B2808	02/28/23 12:02	02/28/23 14:00	8000	QAL1
Nitrate as N	15.1	1.00	mg/L	5	P3B2303	02/23/23 10:48	02/23/23 13:54	EPA 300.0	
Sulfate	184	5.00	mg/L	5	P3B2303	02/23/23 10:48	02/23/23 13:54	EPA 300.0	
Total Organic Carbon	3.89	1.00	mg/L	1	P3C2217	02/27/23 20:49	02/27/23 20:49	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3B2107	03/16/23 13:30	03/17/23 13:02	EPA 6020A	SUB-13
Manganese	0.0137	0.00500	mg/L	1	P3B2107	03/16/23 13:30	03/17/23 13:02	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

MW-12**3B22002-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.**Organics by GC**

Benzene	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:33	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:33	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:33	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:33	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %	80-120			P3B2704	02/27/23 14:06	02/27/23 19:33	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.4 %	80-120			P3B2704	02/27/23 14:06	02/27/23 19:33	EPA 8021B	
Ethane	ND	1.00	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 13:21	8015M	SUB-13
Ethene	ND	1.00	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 13:21	8015M	SUB-13
Methane	0.281	0.00500	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 14:29	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	7.00	2.00	mg/L	1	P3B2808	02/28/23 12:02	02/28/23 14:00	8000	QAL1
Nitrate as N	ND	0.200	mg/L	1	P3B2303	02/23/23 10:48	02/24/23 13:29	EPA 300.0	
Sulfate	146	5.00	mg/L	5	P3B2303	02/23/23 10:48	02/23/23 14:15	EPA 300.0	
Total Organic Carbon	3.10	1.00	mg/L	1	P3C2217	02/27/23 21:01	02/27/23 21:01	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3B2107	03/16/23 13:30	03/17/23 13:04	EPA 6020A	SUB-13
Manganese	0.0363	0.00500	mg/L	1	P3B2107	03/16/23 13:30	03/17/23 13:04	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-10
3B22002-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	0.0879	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:55	EPA 8021B	
Toluene	0.00383	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:55	EPA 8021B	
Ethylbenzene	0.00615	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:55	EPA 8021B	
Xylene (p/m)	0.0143	0.00200	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:55	EPA 8021B	
Xylene (o)	0.00252	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 19:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	105 %	80-120			P3B2704	02/27/23 14:06	02/27/23 19:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	92.6 %	80-120			P3B2704	02/27/23 14:06	02/27/23 19:55	EPA 8021B	
Ethane	0.0152	0.00100	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 13:34	8015M	SUB-13
Ethene	ND	1.00	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 13:34	8015M	SUB-13
Methane	3.53	0.100	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 15:09	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	42.0	2.00	mg/L	1	P3B2808	02/28/23 12:02	02/28/23 14:00	8000	QAL1
Nitrate as N	ND	0.200	mg/L	1	P3B2303	02/23/23 10:48	02/24/23 13:50	EPA 300.0	
Sulfate	34.4	5.00	mg/L	5	P3B2303	02/23/23 10:48	02/23/23 14:35	EPA 300.0	
Total Organic Carbon	11.7	1.00	mg/L	1	P3C2217	02/27/23 21:15	02/27/23 21:15	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3B2107	03/16/23 13:30	03/17/23 13:06	EPA 6020A	SUB-13
Manganese	0.132	0.00500	mg/L	1	P3B2107	03/16/23 13:30	03/17/23 13:06	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-13
3B22002-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	2.80	0.0500	mg/L	50	P3B2704	02/27/23 14:06	02/27/23 20:16	EPA 8021B	
Toluene	0.00643	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/28/23 10:47	EPA 8021B	
Ethylbenzene	0.0515	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/28/23 10:47	EPA 8021B	
Xylene (p/m)	0.0219	0.00200	mg/L	1	P3B2704	02/27/23 14:06	02/28/23 10:47	EPA 8021B	
Xylene (o)	0.00241	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/28/23 10:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	109 %	80-120			P3B2704	02/27/23 14:06	02/28/23 10:47	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	97.4 %	80-120			P3B2704	02/27/23 14:06	02/28/23 10:47	EPA 8021B	
Ethane	0.0330	0.0100	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 14:12	8015M	SUB-13
Ethene	ND	1.00	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 14:12	8015M	SUB-13
Methane	2.72	0.000500	mg/L	1	P3C2216	03/23/23 10:38	02/28/23 15:20	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	52.0	2.00	mg/L	1	P3B2808	02/28/23 12:02	02/28/23 14:00	8000	QAL1
Nitrate as N	ND	0.200	mg/L	1	P3B2303	02/23/23 10:48	02/23/23 14:56	EPA 300.0	
Sulfate	9.93	5.00	mg/L	5	P3B2303	02/23/23 10:48	02/23/23 14:56	EPA 300.0	
Total Organic Carbon	14.0	1.00	mg/L	1	P3C2217	02/27/23 21:28	02/27/23 21:28	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3B2107	03/16/23 13:30	03/17/23 13:08	EPA 6020A	SUB-13
Manganese	0.122	0.00500	mg/L	1	P3B2107	03/16/23 13:30	03/17/23 13:08	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3B2704 - * DEFAULT PREP *****

Blank (P3B2704-BLK1)

Prepared & Analyzed: 02/27/23

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			

LCS (P3B2704-BS1)

Prepared & Analyzed: 02/27/23

Benzene	0.102	0.00100	mg/L	0.100		102	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.227	0.00200	"	0.200		113	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			

LCS Dup (P3B2704-BSD1)

Prepared & Analyzed: 02/27/23

Benzene	0.105	0.00100	mg/L	0.100		105	80-120	2.43	20	
Toluene	0.107	0.00100	"	0.100		107	80-120	3.25	20	
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120	0.780	20	
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120	4.14	20	
Xylene (o)	0.111	0.00100	"	0.100		111	80-120	4.46	20	
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.8	80-120			

Calibration Blank (P3B2704-CCB1)

Prepared & Analyzed: 02/27/23

Benzene	0.140		ug/l							
Toluene	0.360		"							
Ethylbenzene	0.470		"							
Xylene (p/m)	1.28		"							
Xylene (o)	0.730		"							
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3B2704 - *** DEFAULT PREP ***

Calibration Blank (P3B2704-CCB2)				Prepared & Analyzed: 02/27/23						
Benzene	0.170		ug/l							
Toluene	0.280		"							
Ethylbenzene	0.260		"							
Xylene (p/m)	0.670		"							
Xylene (o)	0.340		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	80-120			

Calibration Check (P3B2704-CCV1)				Prepared & Analyzed: 02/27/23						
Benzene	0.110	0.00100	mg/L	0.100		110	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.8	80-120			

Calibration Check (P3B2704-CCV2)				Prepared & Analyzed: 02/27/23						
Benzene	0.0972	0.00100	mg/L	0.100		97.2	80-120			
Toluene	0.0974	0.00100	"	0.100		97.4	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	80-120			

Calibration Check (P3B2704-CCV3)				Prepared: 02/27/23 Analyzed: 02/28/23						
Benzene	0.107	0.00100	mg/L	0.100		107	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.229	0.00200	"	0.200		114	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.6	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3B2704 - *** DEFAULT PREP ***

Matrix Spike (P3B2704-MS1)		Source: 3B22002-01			Prepared: 02/27/23		Analyzed: 02/28/23		
Benzene	0.0988	0.00100	mg/L	0.100	ND	98.8	80-120		
Toluene	0.0975	0.00100	"	0.100	ND	97.5	80-120		
Ethylbenzene	0.109	0.00100	"	0.100	ND	109	80-120		
Xylene (p/m)	0.208	0.00200	"	0.200	ND	104	80-120		
Xylene (o)	0.0988	0.00100	"	0.100	ND	98.8	80-120		
Surrogate: 4-Bromofluorobenzene		0.128	"	0.120		106	80-120		
Surrogate: 1,4-Difluorobenzene		0.120	"	0.120		100	80-120		
Matrix Spike Dup (P3B2704-MSD1)		Source: 3B22002-01			Prepared: 02/27/23		Analyzed: 02/28/23		
Benzene	0.102	0.00100	mg/L	0.100	ND	102	80-120	2.73	20
Toluene	0.101	0.00100	"	0.100	ND	101	80-120	3.07	20
Ethylbenzene	0.113	0.00100	"	0.100	ND	113	80-120	3.19	20
Xylene (p/m)	0.214	0.00200	"	0.200	ND	107	80-120	2.70	20
Xylene (o)	0.101	0.00100	"	0.100	ND	101	80-120	2.11	20
Surrogate: 4-Bromofluorobenzene		0.128	"	0.120		106	80-120		
Surrogate: 1,4-Difluorobenzene		0.120	"	0.120		100	80-120		

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3B2303 - *** DEFAULT PREP ***										
Blank (P3B2303-BLK1)				Prepared & Analyzed: 02/23/23						
Sulfate	ND	1.00	mg/L							
Nitrate as N	ND	0.200	"							
LCS (P3B2303-BS1)				Prepared & Analyzed: 02/23/23						
Nitrate as N	1.91		mg/L	2.00		95.3	90-110			
Sulfate	20.9		"	20.0		104	90-110			
LCS Dup (P3B2303-BSD1)				Prepared & Analyzed: 02/23/23						
Nitrate as N	1.89		mg/L	2.00		94.5	90-110	0.843	10	
Sulfate	20.7		"	20.0		104	90-110	0.645	10	
Calibration Blank (P3B2303-CCB1)				Prepared & Analyzed: 02/23/23						
Nitrate as N	0.00		mg/L							
Sulfate	0.00		"							
Calibration Check (P3B2303-CCV1)				Prepared & Analyzed: 02/23/23						
Sulfate	19.8		mg/L	20.0		99.0	90-110			
Nitrate as N	1.80		"	2.00		89.8	90-110			CCV3
Calibration Check (P3B2303-CCV2)				Prepared & Analyzed: 02/23/23						
Sulfate	20.3		mg/L	20.0		102	90-110			
Nitrate as N	1.88		"	2.00		93.8	90-110			
Matrix Spike (P3B2303-MS1)		Source: 3B22002-01		Prepared & Analyzed: 02/23/23						
Nitrate as N	0.850	0.200	mg/L	0.200	0.708	71.0	80-120			QM-05
Sulfate	182	1.00	"	2.00	175	357	80-120			QM-05
Matrix Spike Dup (P3B2303-MSD1)		Source: 3B22002-01		Prepared & Analyzed: 02/23/23						
Nitrate as N	0.157	0.200	mg/L	0.200	0.708	NR	80-120	138	20	QM-05
Sulfate	183	1.00	"	2.00	175	405	80-120	0.524	20	QM-05

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3B2808 - *** DEFAULT PREP ***										
Blank (P3B2808-BLK1)				Prepared & Analyzed: 02/28/23						
Chemical Oxygen Demand	ND	2.00	mg/L							QAL1
LCS (P3B2808-BS1)				Prepared & Analyzed: 02/28/23						
Chemical Oxygen Demand	96.0	2.00	mg/L	100		96.0	80-120			QAL1
LCS Dup (P3B2808-BSD1)				Prepared & Analyzed: 02/28/23						
Chemical Oxygen Demand	103	2.00	mg/L	100		103	80-120	7.04	20	QAL1
Calibration Check (P3B2808-CCV1)				Prepared & Analyzed: 02/28/23						
Chemical Oxygen Demand	97.0	2.00	mg/L	100		97.0	80-120			QAL1
Calibration Check (P3B2808-CCV2)				Prepared & Analyzed: 02/28/23						
Chemical Oxygen Demand	98.0	2.00	mg/L	100		98.0	80-120			QAL1
Calibration Check (P3B2808-CCV3)				Prepared & Analyzed: 02/28/23						
Chemical Oxygen Demand	97.0	2.00	mg/L	100		97.0	80-120			QAL1
Duplicate (P3B2808-DUP1)		Source: 3B17001-01		Prepared & Analyzed: 02/28/23						
Chemical Oxygen Demand	2.00	2.00	mg/L		2.00			0.00	20	QAL1
Duplicate (P3B2808-DUP2)		Source: 3B22002-04		Prepared & Analyzed: 02/28/23						
Chemical Oxygen Demand	8.00	2.00	mg/L		7.00			13.3	20	QAL1
Matrix Spike (P3B2808-MS1)		Source: 3B17001-01		Prepared & Analyzed: 02/28/23						
Chemical Oxygen Demand	106	2.00	mg/L	100	2.00	104	80-120			QAL1
Matrix Spike (P3B2808-MS2)		Source: 3B22002-04		Prepared & Analyzed: 02/28/23						
Chemical Oxygen Demand	110	2.00	mg/L	100	7.00	103	80-120			QAL1

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3B2808 - *** DEFAULT PREP ***

Matrix Spike Dup (P3B2808-MSD1)	Source: 3B17001-01	Prepared & Analyzed: 02/28/23								
Chemical Oxygen Demand	106	2.00	mg/L	100	2.00	104	80-120	0.00	20	QAL1
Matrix Spike Dup (P3B2808-MSD2)	Source: 3B22002-04	Prepared & Analyzed: 02/28/23								
Chemical Oxygen Demand	113	2.00	mg/L	100	7.00	106	80-120	2.69	20	QAL1

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

Notes and Definitions

SUB-13 Subcontract of analyte/analysis to ALS Houston.

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

QAL1 The Laboratory is not TNI Certified for this analyte or analysis.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

NPBEL C Chain of Custody was not generated at PBELAB

CCV3 CCV recovery was below acceptance limits. Data may be biased low.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

3/23/2023

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

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

Page 17 of 55

Project #: SRS: TNM 98-05A

Project Loc: Lea County, NM

PO #

Fax No.:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

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ORDER #: 3622002

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard☐ TRRP☐ NPDES

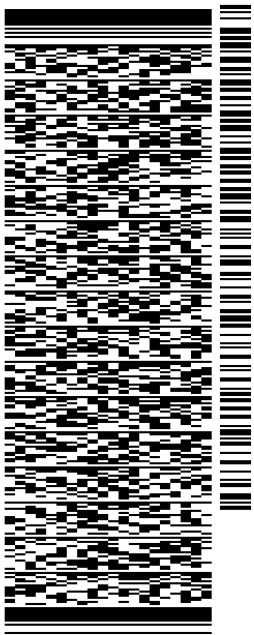
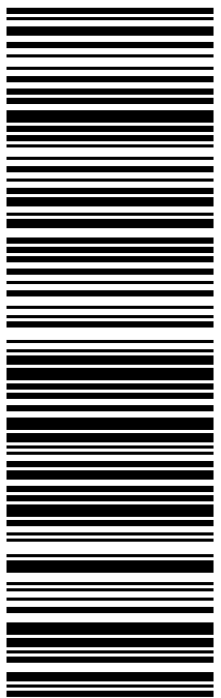
Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

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SPECIAL INSTRUCTIONS:

Relinquished by: Brent Barron						Laboratory Comments:											
						Sample Containers Intact? Y N											
Relinquished by:						VOCs Free of Headspace? Y N											
						Labels on container(s) Y N											
Relinquished by:						Custody seals on container(s) Y N											
						Custody seals on cooler(s) Y N											
Relinquished by:						Sample Hand Delivered Y N											
						by Sampler/Client Rep. ? Y N											
Relinquished by:						by Courier? UPS DHL FedEx Lone Star											
						Temperature Upon Receipt: Received: °C											
						Adjusted: °C Factor											

ORIGIN ID:MAEA BRENT BARRON PBE LAB 1400 RANKIN HWY MIDLAND, TX 79701 UNITED STATES US	(432) 686-7235	SHIP DATE: 23FEB23 ACTWGT: 18.00 LB CAD: 107136846/INET4580
BILL RECIPIENT		
TO SAMPLE RECEIVING		
ALS-HOUSTON		
10450 STANCLIFF RD		
HOUSTON TX 77099		
REF: (281) 530-5615	DEPT:	
INV:		
PO:		
		
		
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TRK# 0201	7713 8976 9603	FRI - 24 FEB 4:30P
STANDARD OVERNIGHT		
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581J1/BB02/FE2D

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Company Name PBEL

Company Address: 1400 Rankin HWY

City/State/Zip: Midland Texas 79701

Telephone No: 432-661-4184

Sampler Signature: N/A

Fax No:
e-mail:

brentbarron@pbelab.com

Report Format: X Standard

☐ TRRP☐ NPDES

Project Name: SUBCONTRACT

Project #:

Project Loc:

PO#:

Page 20 of 55

[illegible]



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

March 01, 2023

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS23021274**

Laboratory Results for: **3B22002**

Dear Brent Barron,

ALS Environmental received 6 sample(s) on Feb 24, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

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

Generated By: JUMOKE.LAWAL
Anna Kinchen
Project Manager

ALS Houston, US

Date: 01-Mar-23

Client: Permian Basin Environmental Lab, LP
Project: 3B22002
Work Order: HS23021274

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23021274-01	3B22002-01	Water		21-Feb-2023 11:00	24-Feb-2023 09:15	☐
HS23021274-02	3B22002-02	Water		21-Feb-2023 12:03	24-Feb-2023 09:15	☐
HS23021274-03	3B22002-03	Water		21-Feb-2023 13:07	24-Feb-2023 09:15	☐
HS23021274-04	3B22002-04	Water		21-Feb-2023 14:13	24-Feb-2023 09:15	☐
HS23021274-05	3B22002-05	Water		21-Feb-2023 14:57	24-Feb-2023 09:15	☐
HS23021274-06	3B22002-06	Water		21-Feb-2023 15:50	24-Feb-2023 09:15	☐

ALS Houston, US

Date: 01-Mar-23

Client: Permian Basin Environmental Lab, LP
Project: 3B22002
Work Order: HS23021274

CASE NARRATIVE

GC Semivolatiles by Method RSK-175

Batch ID: R429029

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

WetChemistry by Method E415.1

Batch ID: R429017

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

ALS Houston, US

Date: 01-Mar-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3B22002	WorkOrder:HS23021274
Sample ID:	3B22002-01	Lab ID:HS23021274-01
Collection Date:	21-Feb-2023 11:00	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	28-Feb-2023 12:14
Ethene	ND		1.00	ug/L	1	28-Feb-2023 12:14
Methane	0.893		0.500	ug/L	1	28-Feb-2023 12:14
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: JAC		
Organic Carbon, Total	ND		1.00	mg/L	1	27-Feb-2023 20:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 01-Mar-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3B22002	WorkOrder:HS23021274
Sample ID:	3B22002-02	Lab ID:HS23021274-02
Collection Date:	21-Feb-2023 12:03	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	28-Feb-2023 12:23
Ethene	ND		1.00	ug/L	1	28-Feb-2023 12:23
Methane	1.23		0.500	ug/L	1	28-Feb-2023 12:23
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: JAC		
Organic Carbon, Total	1.92		1.00	mg/L	1	27-Feb-2023 20:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 01-Mar-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3B22002	WorkOrder:HS23021274
Sample ID:	3B22002-03	Lab ID:HS23021274-03
Collection Date:	21-Feb-2023 13:07	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	28-Feb-2023 12:45
Ethene	ND		1.00	ug/L	1	28-Feb-2023 12:45
Methane	39.1		1.00	ug/L	2	28-Feb-2023 13:08
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: JAC		
Organic Carbon, Total	3.89		1.00	mg/L	1	27-Feb-2023 20:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 01-Mar-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3B22002	WorkOrder:HS23021274
Sample ID:	3B22002-04	Lab ID:HS23021274-04
Collection Date:	21-Feb-2023 14:13	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	28-Feb-2023 13:21
Ethene	ND		1.00	ug/L	1	28-Feb-2023 13:21
Methane	281		5.00	ug/L	10	28-Feb-2023 14:29
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: JAC		
Organic Carbon, Total	3.10		1.00	mg/L	1	27-Feb-2023 21:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 01-Mar-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3B22002	WorkOrder:HS23021274
Sample ID:	3B22002-05	Lab ID:HS23021274-05
Collection Date:	21-Feb-2023 14:57	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	15.2		1.00	ug/L	1	28-Feb-2023 13:34
Ethene	ND		1.00	ug/L	1	28-Feb-2023 13:34
Methane	3,530		100	ug/L	200	28-Feb-2023 15:09
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: JAC		
Organic Carbon, Total	11.7		1.00	mg/L	1	27-Feb-2023 21:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 01-Mar-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3B22002	WorkOrder:HS23021274
Sample ID:	3B22002-06	Lab ID:HS23021274-06
Collection Date:	21-Feb-2023 15:50	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	33.0		1.00	ug/L	1	28-Feb-2023 14:12
Ethene	ND		1.00	ug/L	1	28-Feb-2023 14:12
Methane	2,720		50.0	ug/L	100	28-Feb-2023 15:20
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: JAC		
Organic Carbon, Total	14.0		1.00	mg/L	1	27-Feb-2023 21:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 01-Mar-23

Client: Permian Basin Environmental Lab, LP
Project: 3B22002
WorkOrder: HS23021274

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R429017 (0)		Test Name : TOTAL ORGANIC CARBON BY E415.1			Matrix: Water	
HS23021274-01	3B22002-01	21 Feb 2023 11:00			27 Feb 2023 20:24	1
HS23021274-02	3B22002-02	21 Feb 2023 12:03			27 Feb 2023 20:36	1
HS23021274-03	3B22002-03	21 Feb 2023 13:07			27 Feb 2023 20:49	1
HS23021274-04	3B22002-04	21 Feb 2023 14:13			27 Feb 2023 21:01	1
HS23021274-05	3B22002-05	21 Feb 2023 14:57			27 Feb 2023 21:15	1
HS23021274-06	3B22002-06	21 Feb 2023 15:50			27 Feb 2023 21:28	1
Batch ID: R429029 (0)		Test Name : DISSOLVED GASES BY RSK-175			Matrix: Water	
HS23021274-01	3B22002-01	21 Feb 2023 11:00			28 Feb 2023 12:14	1
HS23021274-02	3B22002-02	21 Feb 2023 12:03			28 Feb 2023 12:23	1
HS23021274-03	3B22002-03	21 Feb 2023 13:07			28 Feb 2023 13:08	2
HS23021274-03	3B22002-03	21 Feb 2023 13:07			28 Feb 2023 12:45	1
HS23021274-04	3B22002-04	21 Feb 2023 14:13			28 Feb 2023 14:29	10
HS23021274-04	3B22002-04	21 Feb 2023 14:13			28 Feb 2023 13:21	1
HS23021274-05	3B22002-05	21 Feb 2023 14:57			28 Feb 2023 15:09	200
HS23021274-05	3B22002-05	21 Feb 2023 14:57			28 Feb 2023 13:34	1
HS23021274-06	3B22002-06	21 Feb 2023 15:50			28 Feb 2023 15:20	100
HS23021274-06	3B22002-06	21 Feb 2023 15:50			28 Feb 2023 14:12	1

ALS Houston, US

Date: 01-Mar-23

Client: Permian Basin Environmental Lab, LP
Project: 3B22002
WorkOrder: HS23021274

QC BATCH REPORT

Batch ID: R429029 (0)		Instrument: FID-4		Method: DISSOLVED GASES BY RSK-175					
MBLK	Sample ID: MBLK-230228	Units: ug/L		Analysis Date: 28-Feb-2023 11:12					
Client ID:	Run ID: FID-4_429029		SeqNo: 7150424		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ethane	ND	1.00							
Ethene	ND	1.00							
Methane	ND	0.500							

LCS	Sample ID: LCS-230228	Units: ug/L		Analysis Date: 28-Feb-2023 11:37					
Client ID:	Run ID: FID-4_429029		SeqNo: 7150425		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	19.94	1.00	18.04	0	111	75 - 125			
Ethene	15.34	1.00	16.8	0	91.3	75 - 125			
Methane	8.048	0.500	9.647	0	83.4	75 - 125			

LCSD	Sample ID: LCSD-230228	Units: ug/L		Analysis Date: 28-Feb-2023 12:01					
Client ID:	Run ID: FID-4_429029		SeqNo: 7150426		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	20	1.00	18.04	0	111	75 - 125	19.94	0.313	30
Ethene	15.95	1.00	16.8	0	94.9	75 - 125	15.34	3.85	30
Methane	9.001	0.500	9.647	0	93.3	75 - 125	8.048	11.2	30

DUP	Sample ID: HS23021145-01DUP	Units: ug/L		Analysis Date: 28-Feb-2023 15:49					
Client ID:	Run ID: FID-4_429029		SeqNo: 7150439		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	ND	1.00					0	0	30
Ethene	ND	1.00					0	0	30
Methane	18.41	0.500					18.24	0.923	30

The following samples were analyzed in this batch:

HS23021274-01	HS23021274-02	HS23021274-03	HS23021274-04
HS23021274-05	HS23021274-06		

ALS Houston, US

Date: 01-Mar-23

Client: Permian Basin Environmental Lab, LP
Project: 3B22002
WorkOrder: HS23021274

QC BATCH REPORT

Batch ID: R429017 (0)		Instrument: TOC_04		Method: TOTAL ORGANIC CARBON BY E415.1					
MBLK	Sample ID: MBLK-02272023	Units: mg/L		Analysis Date: 27-Feb-2023 19:45					
Client ID:	Run ID: TOC_04_429017	SeqNo: 7150231		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	ND	1.00							
LCS	Sample ID: LCS-02272023	Units: mg/L		Analysis Date: 27-Feb-2023 19:58					
Client ID:	Run ID: TOC_04_429017	SeqNo: 7150232		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	10.56	1.00	10	0	106	85 - 115			
LCSD	Sample ID: LCSD-02272023	Units: mg/L		Analysis Date: 27-Feb-2023 20:11					
Client ID:	Run ID: TOC_04_429017	SeqNo: 7150233		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	10.52	1.00	10	0	105	85 - 115	10.56	0.38	20
MS	Sample ID: HS23021300-01MS	Units: mg/L		Analysis Date: 27-Feb-2023 22:48					
Client ID:	Run ID: TOC_04_429017	SeqNo: 7150245		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	13.07	1.00	10	1.272	118	80 - 120			
The following samples were analyzed in this batch:				HS23021274-01 HS23021274-05		HS23021274-02 HS23021274-06		HS23021274-03 HS23021274-04	

ALS Houston, US

Date: 01-Mar-23

Client: Permian Basin Environmental Lab, LP
Project: 3B22002
WorkOrder: HS23021274

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

ALS Houston, US

Date: 01-Mar-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	22-041-0	27-Mar-2023
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US

Date: 01-Mar-23

Sample Receipt Checklist

Work Order ID: HS23021274

Date/Time Received: 24-Feb-2023 09:15

Client Name: Permian Basin Lab

Received by: Corey Grandits

Completed By: /S/ Corey Grandits	25-Feb-2023 09:02	Reviewed by: /S/ Anna Kinchen	27-Feb-2023 09:53
eSignature	Date/Time	eSignature	Date/Time

Matrices: WCarrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Samplers name present on COC?	Yes ☐	No ☒	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):

2.9UC/2.4C IR31

Cooler(s)/Kit(s):

Red

Date/Time sample(s) sent to storage:

2/25/23

Water - VOA vials have zero headspace?

Yes ☒ No ☐ No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☒ No ☐ N/A ☐

pH adjusted?

Yes ☐ No ☒ N/A ☐

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental La'
1400 Rankin HWY
Midland, Texas 79701

HS23021274

Permian Basin Environmental Lab, LP
3B22002



PO #:

Project Manager: Brent Barron

Company Name PBEL

Company Address: 1400 Rankin HWY

City/State/Zip: Midland Texas 79701

Telephone No: 432-661-4184

Fax No:

Report Format: X Standard

☐ TRRP☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]

ORIGIN/DMAA
BRENT BARRON
PBE LAB
1400 RANKIN HWY
MIDLAND, TX 79701
UNITED STATES US

(432) 686-7235

SHIP DATE: 23FEB23
ACT WGT: 18.00 LB
CAD: 1071350450INET14580

BILL RECIPIENT

TO
SAMPLE RECEIVING
ALS-HOUSTON
10450 STANCLIFF RD
HOUSTON TX 77099
(281) 530-5615
REF: DEPT:

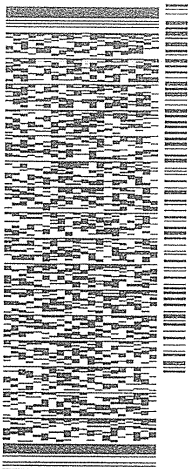
581J1A0602FE2D

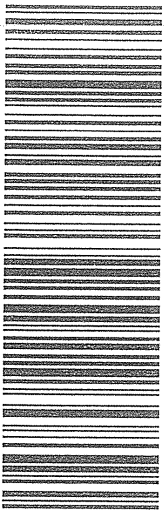
TRK#
0201
7713 8976 9603

STANDARD OVERNIGHT

FRI - 24 FEB 4:30P

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TX-US
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10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

March 17, 2023

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS23030780**

Laboratory Results for: **3B22002**

Dear Brent Barron,

ALS Environmental received 6 sample(s) on Mar 14, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Anna M. Kinchen'.

Generated By: JUMOKE.LAWAL
Anna Kinchen
Project Manager

ALS Houston, US

Date: 17-Mar-23

Client: Permian Basin Environmental Lab, LP
Project: 3B22002
Work Order: HS23030780

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23030780-01	3B22002-01	Water		21-Feb-2023 11:00	14-Mar-2023 09:30	☐
HS23030780-02	3B22002-02	Water		21-Feb-2023 12:03	14-Mar-2023 09:30	☐
HS23030780-03	3B22002-03	Water		21-Feb-2023 13:07	14-Mar-2023 09:30	☐
HS23030780-04	3B22002-04	Water		21-Feb-2023 14:13	14-Mar-2023 09:30	☐
HS23030780-05	3B22002-05	Water		21-Feb-2023 14:57	14-Mar-2023 09:30	☐
HS23030780-06	3B22002-06	Water		21-Feb-2023 15:50	14-Mar-2023 09:30	☐

ALS Houston, US

Date: 17-Mar-23

Client: Permian Basin Environmental Lab, LP
Project: 3B22002
Work Order: HS23030780

CASE NARRATIVE

Metals by Method SW6020A

Batch ID: 190931

Sample ID: HS23030781-06MSD

- MSD is for an unrelated sample

ALS Houston, US

Date: 17-Mar-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3B22002	WorkOrder:HS23030780
Sample ID:	3B22002-01	Lab ID:HS23030780-01
Collection Date:	21-Feb-2023 11:00	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A	Method:SW6020A (dissolved)			Prep:SW3010A / 16-Mar-2023		Analyst: JC
Iron	ND		0.200	mg/L	1	17-Mar-2023 12:48
Manganese	ND		0.00500	mg/L	1	17-Mar-2023 12:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 17-Mar-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3B22002	WorkOrder:HS23030780
Sample ID:	3B22002-02	Lab ID:HS23030780-02
Collection Date:	21-Feb-2023 12:03	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A	Method:SW6020A (dissolved)			Prep:SW3010A / 16-Mar-2023		Analyst: JC
Iron	0.545		0.200	mg/L	1	17-Mar-2023 13:00
Manganese	0.0182		0.00500	mg/L	1	17-Mar-2023 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 17-Mar-23

Client:Permian Basin Environmental Lab, LP

Project:3B22002

Sample ID:3B22002-03

Collection Date:21-Feb-2023 13:07

ANALYTICAL REPORT

WorkOrder:HS23030780

Lab ID:HS23030780-03

Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A	Method:SW6020A (dissolved)			Prep:SW3010A / 16-Mar-2023		Analyst: JC
Iron	ND		0.200	mg/L	1	17-Mar-2023 13:02
Manganese	0.0137		0.00500	mg/L	1	17-Mar-2023 13:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 17-Mar-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3B22002	WorkOrder:HS23030780
Sample ID:	3B22002-04	Lab ID:HS23030780-04
Collection Date:	21-Feb-2023 14:13	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A	Method:SW6020A (dissolved)			Prep:SW3010A / 16-Mar-2023		Analyst: JC
Iron	ND		0.200	mg/L	1	17-Mar-2023 13:04
Manganese	0.0363		0.00500	mg/L	1	17-Mar-2023 13:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 17-Mar-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3B22002	WorkOrder:HS23030780
Sample ID:	3B22002-05	Lab ID:HS23030780-05
Collection Date:	21-Feb-2023 14:57	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A	Method:SW6020A (dissolved)			Prep:SW3010A / 16-Mar-2023		Analyst: JC
Iron	ND		0.200	mg/L	1	17-Mar-2023 13:06
Manganese	0.132		0.00500	mg/L	1	17-Mar-2023 13:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 17-Mar-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3B22002	WorkOrder:HS23030780
Sample ID:	3B22002-06	Lab ID:HS23030780-06
Collection Date:	21-Feb-2023 15:50	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A	Method:SW6020A (dissolved)			Prep:SW3010A / 16-Mar-2023		Analyst: JC
Iron	ND		0.200	mg/L	1	17-Mar-2023 13:08
Manganese	0.122		0.00500	mg/L	1	17-Mar-2023 13:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 3B22002
WorkOrder: HS23030780

Batch ID: 190931	Start Date: 16 Mar 2023 14:00	End Date: 16 Mar 2023 18:00
Method: DISS METALS PREP - WATER - SW3010A	Prep Code: 3010A DISS	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23030780-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23030780-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23030780-03		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23030780-04		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23030780-05		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23030780-06		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US

Date: 17-Mar-23

Client: Permian Basin Environmental Lab, LP
Project: 3B22002
WorkOrder: HS23030780

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 190931 (0)		Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water	
HS23030780-01	3B22002-01	21 Feb 2023 11:00		16 Mar 2023 18:00	17 Mar 2023 12:48	1
HS23030780-02	3B22002-02	21 Feb 2023 12:03		16 Mar 2023 18:00	17 Mar 2023 13:00	1
HS23030780-03	3B22002-03	21 Feb 2023 13:07		16 Mar 2023 18:00	17 Mar 2023 13:02	1
HS23030780-04	3B22002-04	21 Feb 2023 14:13		16 Mar 2023 18:00	17 Mar 2023 13:04	1
HS23030780-05	3B22002-05	21 Feb 2023 14:57		16 Mar 2023 18:00	17 Mar 2023 13:06	1
HS23030780-06	3B22002-06	21 Feb 2023 15:50		16 Mar 2023 18:00	17 Mar 2023 13:08	1

ALS Houston, US

Date: 17-Mar-23

Client: Permian Basin Environmental Lab, LP
Project: 3B22002
WorkOrder: HS23030780

QC BATCH REPORT

Batch ID: 190931 (0)		Instrument: ICPMS06		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK	Sample ID: MBLK-190931	Units: mg/L		Analysis Date: 17-Mar-2023 12:32					
Client ID:	Run ID: ICPMS06_430300	SeqNo: 7179899		PrepDate: 16-Mar-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	ND	0.200							
Manganese	ND	0.00500							
LCS	Sample ID: LCS-190931	Units: mg/L		Analysis Date: 17-Mar-2023 12:34					
Client ID:	Run ID: ICPMS06_430300	SeqNo: 7179900		PrepDate: 16-Mar-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	4.82	0.200	5	0	96.4	80 - 120			
Manganese	0.04705	0.00500	0.05	0	94.1	80 - 120			
MS	Sample ID: HS23030781-06MS	Units: mg/L		Analysis Date: 17-Mar-2023 12:40					
Client ID:	Run ID: ICPMS06_430300	SeqNo: 7179903		PrepDate: 16-Mar-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	8.244	0.200	5	3.325	98.4	75 - 125			
Manganese	1.571	0.00500	0.05	1.513	116	75 - 125			O
MSD	Sample ID: HS23030781-06MSD	Units: mg/L		Analysis Date: 17-Mar-2023 12:42					
Client ID:	Run ID: ICPMS06_430300	SeqNo: 7179904		PrepDate: 16-Mar-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	8.317	0.200	5	3.325	99.9	75 - 125	8.244	0.878	20
Manganese	1.594	0.00500	0.05	1.513	163	75 - 125	1.571	1.47	20 SO
PDS	Sample ID: HS23030781-06PDS	Units: mg/L		Analysis Date: 17-Mar-2023 12:44					
Client ID:	Run ID: ICPMS06_430300	SeqNo: 7179905		PrepDate: 16-Mar-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	13.06	0.200	10	3.325	97.3	75 - 125			
Manganese	1.601	0.00500	0.1	1.513	88.1	75 - 125			O

ALS Houston, US

Date: 17-Mar-23

Client: Permian Basin Environmental Lab, LP
Project: 3B22002
WorkOrder: HS23030780

QC BATCH REPORT

Batch ID: 190931 (0)		Instrument: ICPMS06		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
SD	Sample ID: HS23030781-06SD		Units: mg/L		Analysis Date: 17-Mar-2023 12:38				
Client ID:	Run ID: ICPMS06_430300		SeqNo: 7179902		PrepDate: 16-Mar-2023		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual
Iron	3.381	1.00					3.325	1.71	10
Manganese	1.496	0.0250					1.513	1.1	10
The following samples were analyzed in this batch:									
		HS23030780-01		HS23030780-02		HS23030780-03		HS23030780-04	
		HS23030780-05		HS23030780-06					

ALS Houston, US

Date: 17-Mar-23

Client: Permian Basin Environmental Lab, LP
Project: 3B22002
WorkOrder: HS23030780

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

ALS Houston, US

Date: 17-Mar-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	22-041-0	27-Mar-2023
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US

Date: 17-Mar-23

Sample Receipt Checklist

Work Order ID: HS23030780

Date/Time Received: 14-Mar-2023 09:30

Client Name: Permian Basin Lab

Received by: Corey Grandits

Completed By: /S/ Niles D. Ranchod

14-Mar-2023 14:38

Reviewed by:

eSignature

Date/Time

eSignature

Date/Time

Matrices: WaterCarrier name: FedEx Priority Overnight

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐No ☐Not Present ☒

Custody seals intact on sample bottles?

Yes ☐No ☐Not Present ☒

VOA/TX1005/TX1006 Solids in hermetically sealed vials?

Yes ☐No ☐Not Present ☒

Chain of custody present?

Yes ☒No ☐

1 Page(s)

Chain of custody signed when relinquished and received?

Yes ☒No ☐

COC IDs: SUB_COC_V2

Samplers name present on COC?

Yes ☐No ☒

Chain of custody agrees with sample labels?

Yes ☒No ☐

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☒No ☐

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Temperature(s)/Thermometer(s):

21.2C/20.7C UC/C

IR 31

Cooler(s)/Kit(s):

Foam

Date/Time sample(s) sent to storage:

03/14/2023 15:30

Water - VOA vials have zero headspace?

Yes ☐No ☐No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☒No ☐N/A ☐

pH adjusted?

Yes ☐No ☒N/A ☐

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

HS23030780
Permian Basin Environmental Lab, LP
3B22002

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]

Foam MAR 14 2023

ORIGIN ID:MAFA BRENT BARRON PBE LAB 1400 RANKIN HWY MIDLAND, TX 79701 UNITED STATES US	(432) 686-7235	SHIP DATE: 13MAR23 ACTWGT: 35.00 LB CAD: 107136846/NET4580 BILL RECIPIENT
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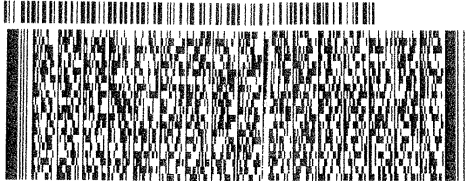
TO **SAMPLE RECEIVING**
ALS-HOUSTON
10450 STANCLIFF RD
HOUSTON TX 77099

(281) 530-5615
INV
FO

DEPT

591079930FE20

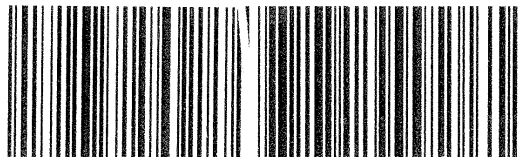
FedEx Ship Manager - Print Your Label(s)

TUE - 14 MAR 4:30P
STANDARD OVERNIGHT

TRK# 7715 5084 8658
0201

AB SGRA 77099
TX-US IAH



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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: 98-05
Project Number: TNM 98-05
Location: Lea County, NM
Lab Order Number: 3B22003



Current Certification

Report Date: 03/06/23

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	3B22003-01	Water	02/22/23 09:20	02-22-2023 09:20
MW-2	3B22003-02	Water	02/22/23 09:20	02-22-2023 09:20

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

MW-1
3B22003-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	0.0279	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 20:38	EPA 8021B	
Toluene	0.00686	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 20:38	EPA 8021B	
Ethylbenzene	0.00422	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 20:38	EPA 8021B	
Xylene (p/m)	0.0143	0.00200	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 20:38	EPA 8021B	
Xylene (o)	0.00960	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 20:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.3 %		80-120		P3B2704	02/27/23 14:06	02/27/23 20:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	87.9 %		80-120		P3B2704	02/27/23 14:06	02/27/23 20:38	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

MW-2
3B22003-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	0.0807	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 21:00	EPA 8021B	
Toluene	0.0126	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 21:00	EPA 8021B	
Ethylbenzene	0.0147	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 21:00	EPA 8021B	
Xylene (p/m)	0.0437	0.00200	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 21:00	EPA 8021B	
Xylene (o)	0.0130	0.00100	mg/L	1	P3B2704	02/27/23 14:06	02/27/23 21:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	96.3 %		80-120		P3B2704	02/27/23 14:06	02/27/23 21:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	83.7 %		80-120		P3B2704	02/27/23 14:06	02/27/23 21:00	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05
Project Number: TNM 98-05
Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3B2704 - * DEFAULT PREP *****

Blank (P3B2704-BLK1)

Prepared & Analyzed: 02/27/23

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			

LCS (P3B2704-BS1)

Prepared & Analyzed: 02/27/23

Benzene	0.102	0.00100	mg/L	0.100		102	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.227	0.00200	"	0.200		113	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			

LCS Dup (P3B2704-BSD1)

Prepared & Analyzed: 02/27/23

Benzene	0.105	0.00100	mg/L	0.100		105	80-120	2.43	20	
Toluene	0.107	0.00100	"	0.100		107	80-120	3.25	20	
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120	0.780	20	
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120	4.14	20	
Xylene (o)	0.111	0.00100	"	0.100		111	80-120	4.46	20	
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.8	80-120			

Calibration Blank (P3B2704-CCB1)

Prepared & Analyzed: 02/27/23

Benzene	0.140		ug/l							
Toluene	0.360		"							
Ethylbenzene	0.470		"							
Xylene (p/m)	1.28		"							
Xylene (o)	0.730		"							
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3B2704 - *** DEFAULT PREP ***

Calibration Blank (P3B2704-CCB2)				Prepared & Analyzed: 02/27/23						
Benzene	0.170		ug/l							
Toluene	0.280		"							
Ethylbenzene	0.260		"							
Xylene (p/m)	0.670		"							
Xylene (o)	0.340		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	80-120			

Calibration Check (P3B2704-CCV1)				Prepared & Analyzed: 02/27/23						
Benzene	0.110	0.00100	mg/L	0.100		110	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.8	80-120			

Calibration Check (P3B2704-CCV2)				Prepared & Analyzed: 02/27/23						
Benzene	0.0972	0.00100	mg/L	0.100		97.2	80-120			
Toluene	0.0974	0.00100	"	0.100		97.4	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	80-120			

Calibration Check (P3B2704-CCV3)				Prepared: 02/27/23 Analyzed: 02/28/23						
Benzene	0.107	0.00100	mg/L	0.100		107	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.229	0.00200	"	0.200		114	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.6	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3B2704 - *** DEFAULT PREP ***

Matrix Spike (P3B2704-MS1)		Source: 3B22002-01			Prepared: 02/27/23		Analyzed: 02/28/23		
Benzene	0.0988	0.00100	mg/L	0.100	ND	98.8	80-120		
Toluene	0.0975	0.00100	"	0.100	ND	97.5	80-120		
Ethylbenzene	0.109	0.00100	"	0.100	ND	109	80-120		
Xylene (p/m)	0.208	0.00200	"	0.200	ND	104	80-120		
Xylene (o)	0.0988	0.00100	"	0.100	ND	98.8	80-120		
Surrogate: 4-Bromofluorobenzene		0.128	"	0.120		106	80-120		
Surrogate: 1,4-Difluorobenzene		0.120	"	0.120		100	80-120		
Matrix Spike Dup (P3B2704-MSD1)		Source: 3B22002-01			Prepared: 02/27/23		Analyzed: 02/28/23		
Benzene	0.102	0.00100	mg/L	0.100	ND	102	80-120	2.73	20
Toluene	0.101	0.00100	"	0.100	ND	101	80-120	3.07	20
Ethylbenzene	0.113	0.00100	"	0.100	ND	113	80-120	3.19	20
Xylene (p/m)	0.214	0.00200	"	0.200	ND	107	80-120	2.70	20
Xylene (o)	0.101	0.00100	"	0.100	ND	101	80-120	2.11	20
Surrogate: 4-Bromofluorobenzene		0.128	"	0.120		106	80-120		
Surrogate: 1,4-Difluorobenzene		0.120	"	0.120		100	80-120		

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05
Project Number: TNM 98-05
Project Manager: Curt Stanley

Notes and Definitions

ROI Received on Ice

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: _____



Date: 3/6/2023

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: 98-05
Project Number: TNM 98-05
Location: Lea County, NM
Lab Order Number: 3E24006



Current Certification

Report Date: 06/06/23

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	3E24006-01	Water	05/23/23 16:48	05-24-2023 09:28
MW-2	3E24006-02	Water	05/23/23 17:15	05-24-2023 09:28

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

MW-1
3E24006-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	0.0176	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 14:56	EPA 8021B	
Toluene	0.00301	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 14:56	EPA 8021B	
Ethylbenzene	0.00231	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 14:56	EPA 8021B	
Xylene (p/m)	0.00211	0.00200	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 14:56	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 14:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	104 %		80-120		P3E3007	05/30/23 09:53	05/30/23 14:56	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	88.5 %		80-120		P3E3007	05/30/23 09:53	05/30/23 14:56	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

MW-2
3E24006-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	0.868	0.0100	mg/L	10	P3E3007	05/30/23 09:53	05/31/23 09:51	EPA 8021B	
Toluene	0.249	0.0100	mg/L	10	P3E3007	05/30/23 09:53	05/31/23 09:51	EPA 8021B	
Ethylbenzene	0.902	0.0100	mg/L	10	P3E3007	05/30/23 09:53	05/31/23 09:51	EPA 8021B	
Xylene (p/m)	1.69	0.0200	mg/L	10	P3E3007	05/30/23 09:53	05/31/23 09:51	EPA 8021B	
Xylene (o)	0.417	0.0100	mg/L	10	P3E3007	05/30/23 09:53	05/31/23 09:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	122 %	80-120			P3E3007	05/30/23 09:53	05/31/23 09:51	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	90.7 %	80-120			P3E3007	05/30/23 09:53	05/31/23 09:51	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3E3007 - *** DEFAULT PREP ***

Blank (P3E3007-BLK1)		Prepared & Analyzed: 05/30/23								
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	80-120			

LCS (P3E3007-BS1)		Prepared & Analyzed: 05/30/23								
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.120	0.00100	"	0.100		120	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.6	80-120			

LCS Dup (P3E3007-BSD1)		Prepared & Analyzed: 05/30/23								
Benzene	0.120	0.00100	mg/L	0.100		120	80-120	0.646	20	
Toluene	0.120	0.00100	"	0.100		120	80-120	0.317	20	
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120	1.89	20	
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120	0.115	20	
Xylene (o)	0.116	0.00100	"	0.100		116	80-120	0.923	20	
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.9	80-120			

Calibration Blank (P3E3007-CCB1)		Prepared & Analyzed: 05/30/23								
Benzene	0.110		ug/l							
Toluene	0.250		"							
Ethylbenzene	0.360		"							
Xylene (p/m)	0.740		"							
Xylene (o)	0.540		"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.1	80-120			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3E3007 - *** DEFAULT PREP ***

Calibration Blank (P3E3007-CCB2)				Prepared & Analyzed: 05/30/23						
Benzene	0.250		ug/l							
Toluene	0.270		"							
Ethylbenzene	0.430		"							
Xylene (p/m)	0.750		"							
Xylene (o)	0.400		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.3	80-120			
Calibration Check (P3E3007-CCV1)				Prepared & Analyzed: 05/30/23						
Benzene	0.117	0.00100	mg/L	0.100		117	80-120			
Toluene	0.119	0.00100	"	0.100		119	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.2	80-120			
Calibration Check (P3E3007-CCV2)				Prepared & Analyzed: 05/30/23						
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.119	0.00100	"	0.100		119	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		118	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		88.9	80-120			
Calibration Check (P3E3007-CCV3)				Prepared & Analyzed: 05/30/23						
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.230	0.00200	"	0.200		115	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.7	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3E3007 - *** DEFAULT PREP ***

Matrix Spike (P3E3007-MS1)	Source: 3E24006-01			Prepared & Analyzed: 05/30/23						
Benzene	0.153	0.00100	mg/L	0.100	0.0176	135	80-120			QM-05
Toluene	0.129	0.00100	"	0.100	0.00301	126	80-120			QM-05
Ethylbenzene	0.127	0.00100	"	0.100	0.00231	125	80-120			QM-05
Xylene (p/m)	0.240	0.00200	"	0.200	0.00211	119	80-120			
Xylene (o)	0.124	0.00100	"	0.100	ND	124	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.4	80-120			

Matrix Spike Dup (P3E3007-MSD1)	Source: 3E24006-01			Prepared & Analyzed: 05/30/23						
Benzene	0.157	0.00100	mg/L	0.100	0.0176	139	80-120	2.67	20	QM-05
Toluene	0.127	0.00100	"	0.100	0.00301	124	80-120	2.19	20	QM-05
Ethylbenzene	0.127	0.00100	"	0.100	0.00231	124	80-120	0.225	20	QM-05
Xylene (p/m)	0.239	0.00200	"	0.200	0.00211	118	80-120	0.607	20	
Xylene (o)	0.118	0.00100	"	0.100	ND	118	80-120	5.03	20	
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		108	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.5	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05
Project Number: TNM 98-05
Project Manager: Curt Stanley

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

6/6/2023

Brent Barron, Laboratory Director/Technical Director

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05
Project Number: TNM 98-05
Project Manager: Curt Stanley

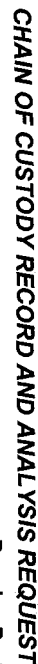
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Permian Basin Environmental Lab, L.P.

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



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

Phone: 432-686-7235

Page 1 of 1

Project Manager: Curt Stanley

Company Name TRC Environmental Corporation

Company Address: 10 Desta Drive, Ste 130E

City/State/Zip: Midland TX 79705

Telephone No: (432) 520-7720

Sampler Signature:

e-mail: cdstanley@trccompanies.com
cdstanley@trccompanies.com

Fax No.:

Report Format:

☒ Standard

☐ TRRP

☐ NPDES

PO #:

Project Loc:

Lea County, NM

Project Name:

98-05A

Project #:

SRS: TNM 98-05A

Project Loc:

Lea County, NM

Page 10 of 10

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Location: Lea County, NM
Lab Order Number: 3E24007



Current Certification

Report Date: 06/14/23

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3	3E24007-01	Water	05/23/23 11:05	05-24-2023 09:28
MW-5	3E24007-02	Water	05/23/23 12:15	05-24-2023 09:28
MW-6	3E24007-03	Water	05/23/23 13:33	05-24-2023 09:28
MW-12	3E24007-04	Water	05/23/23 14:38	05-24-2023 09:28
MW-10	3E24007-05	Water	05/23/23 15:45	05-24-2023 09:28
MW-13	3E24007-06	Water	05/23/23 16:30	05-24-2023 09:28

TOC, Disolved gases, Dissolved Fe and Mn analysis were subcontracted to ALS Houston . Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:

https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

MW-3
3E24007-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 15:37	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 15:37	EPA 8021B	
Ethylbenzene	0.00390	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 15:37	EPA 8021B	
Xylene (p/m)	0.00975	0.00200	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 15:37	EPA 8021B	
Xylene (o)	0.00269	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 15:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	107 %	80-120			P3E3007	05/30/23 09:53	05/30/23 15:37	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.5 %	80-120			P3E3007	05/30/23 09:53	05/30/23 15:37	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 10:32	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 10:32	8015M	SUB-13
Methane	0.000716	0.000500	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 10:32	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	5.00	2.00	mg/L	1	P3F0704	06/07/23 10:22	06/13/23 08:51	8000	QAL1
Nitrate as N	0.565	0.200	mg/L	1	P3E2415	05/24/23 15:53	05/25/23 17:29	EPA 300.0	
Sulfate	187	10.0	mg/L	10	P3E2415	05/24/23 15:53	05/25/23 15:00	EPA 300.0	
Total Organic Carbon	1.04	1.00	mg/L	1	P3F0705	06/01/23 10:10	06/01/23 10:10	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3F0711	05/31/23 15:00	06/01/23 22:40	EPA 6020A	SUB-13
Manganese	ND	0.00500	mg/L	1	P3F0711	05/31/23 15:00	06/01/23 22:40	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-5
3E24007-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 15:58	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 15:58	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 15:58	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 15:58	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 15:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	106 %	80-120			P3E3007	05/30/23 09:53	05/30/23 15:58	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.4 %	80-120			P3E3007	05/30/23 09:53	05/30/23 15:58	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 10:46	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 10:46	8015M	SUB-13
Methane	0.000931	0.000500	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 10:46	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	4.00	2.00	mg/L	1	P3F0704	06/07/23 10:22	06/13/23 08:51	8000	QAL1
Nitrate as N	0.496	0.200	mg/L	1	P3E2415	05/24/23 15:53	05/25/23 18:18	EPA 300.0	
Sulfate	185	10.0	mg/L	10	P3E2415	05/24/23 15:53	05/25/23 15:50	EPA 300.0	
Total Organic Carbon	1.05	1.00	mg/L	1	P3F0705	06/01/23 10:36	06/01/23 10:36	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3F0711	05/31/23 15:00	06/01/23 22:42	EPA 6020A	SUB-13
Manganese	ND	0.00500	mg/L	1	P3F0711	05/31/23 15:00	06/01/23 22:42	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

MW-6
3E24007-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 16:18	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 16:18	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 16:18	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 16:18	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 16:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P3E3007	05/30/23 09:53	05/30/23 16:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.6 %		80-120		P3E3007	05/30/23 09:53	05/30/23 16:18	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 11:06	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 11:06	8015M	SUB-13
Methane	0.0211	0.00500	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 11:06	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	15.0	2.00	mg/L	1	P3F0704	06/07/23 10:22	06/13/23 08:51	8000	QAL1
Nitrate as N	15.3	0.200	mg/L	1	P3E2415	05/24/23 15:53	05/25/23 16:06	EPA 300.0	
Sulfate	182	25.0	mg/L	25	P3E2415	05/24/23 15:53	05/25/23 16:06	EPA 300.0	
Total Organic Carbon	3.72	1.00	mg/L	1	P3F0705	06/01/23 10:49	06/01/23 10:49	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3F0711	05/31/23 15:00	06/01/23 22:44	EPA 6020A	SUB-13
Manganese	0.0135	0.00500	mg/L	1	P3F0711	05/31/23 15:00	06/01/23 22:44	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-12
3E24007-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 16:39	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 16:39	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 16:39	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 16:39	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 16:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P3E3007	05/30/23 09:53	05/30/23 16:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.6 %		80-120		P3E3007	05/30/23 09:53	05/30/23 16:39	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 11:20	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 11:20	8015M	SUB-13
Methane	0.371	0.00500	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 13:11	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods									
Chemical Oxygen Demand	6.00	2.00	mg/L	1	P3F0704	06/07/23 10:22	06/13/23 08:51	8000	QAL1
Nitrate as N	ND	0.200	mg/L	1	P3E2415	05/24/23 15:53	05/25/23 18:51	EPA 300.0	
Sulfate	134	25.0	mg/L	25	P3E2415	05/24/23 15:53	05/25/23 16:23	EPA 300.0	
Total Organic Carbon	2.01	1.00	mg/L	1	P3F0705	06/01/23 11:01	06/01/23 11:01	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods									
Iron	0.225	0.200	mg/L	1	P3F0711	05/31/23 15:00	06/01/23 22:46	EPA 6020A	SUB-13
Manganese	0.0292	0.00500	mg/L	1	P3F0711	05/31/23 15:00	06/01/23 22:46	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-10
3E24007-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	0.0454	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 17:00	EPA 8021B	
Toluene	0.00325	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 17:00	EPA 8021B	
Ethylbenzene	0.00362	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 17:00	EPA 8021B	
Xylene (p/m)	0.00734	0.00200	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 17:00	EPA 8021B	
Xylene (o)	0.00299	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/30/23 17:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %	80-120			P3E3007	05/30/23 09:53	05/30/23 17:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.3 %	80-120			P3E3007	05/30/23 09:53	05/30/23 17:00	EPA 8021B	
Ethane	0.0178	0.00100	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 11:50	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 11:50	8015M	SUB-13
Methane	2.25	0.0500	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 13:26	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	18.0	2.00	mg/L	1	P3F0704	06/07/23 10:22	06/13/23 08:51	8000	QAL1
Nitrate as N	ND	0.200	mg/L	1	P3E2415	05/24/23 15:53	05/25/23 16:39	EPA 300.0	
Sulfate	37.8	25.0	mg/L	25	P3E2415	05/24/23 15:53	05/25/23 16:39	EPA 300.0	
Total Organic Carbon	5.55	1.00	mg/L	1	P3F0705	06/01/23 11:14	06/01/23 11:14	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3F0711	05/31/23 15:00	06/01/23 22:48	EPA 6020A	SUB-13
Manganese	0.147	0.00500	mg/L	1	P3F0711	05/31/23 15:00	06/01/23 22:48	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-13
3E24007-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	5.02	0.0500	mg/L	50	P3E3007	05/30/23 09:53	05/30/23 18:02	EPA 8021B	
Toluene	0.00280	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/31/23 10:11	EPA 8021B	
Ethylbenzene	0.0243	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/31/23 10:11	EPA 8021B	
Xylene (p/m)	0.0104	0.00200	mg/L	1	P3E3007	05/30/23 09:53	05/31/23 10:11	EPA 8021B	
Xylene (o)	0.00377	0.00100	mg/L	1	P3E3007	05/30/23 09:53	05/31/23 10:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	104 %	80-120			P3E3007	05/30/23 09:53	05/31/23 10:11	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %	80-120			P3E3007	05/30/23 09:53	05/31/23 10:11	EPA 8021B	
Ethane	0.0133	0.00100	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 12:29	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 12:29	8015M	SUB-13
Methane	3.89	0.100	mg/L	1	P3F0705	05/31/23 10:30	05/31/23 13:34	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	37.0	2.00	mg/L	1	P3F0704	06/07/23 10:22	06/13/23 08:51	8000	QAL1
Nitrate as N	ND	0.200	mg/L	1	P3E2415	05/24/23 15:53	05/25/23 19:25	EPA 300.0	
Sulfate	8.92	1.00	mg/L	1	P3E2415	05/24/23 15:53	05/25/23 19:25	EPA 300.0	
Total Organic Carbon	9.22	1.00	mg/L	1	P3F0705	06/01/23 11:27	06/01/23 11:27	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3F0711	05/31/23 15:00	06/01/23 22:50	EPA 6020A	SUB-13
Manganese	0.0885	0.00500	mg/L	1	P3F0711	05/31/23 15:00	06/01/23 22:50	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3E3007 - *** DEFAULT PREP ***

Blank (P3E3007-BLK1)		Prepared & Analyzed: 05/30/23								
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	80-120			

LCS (P3E3007-BS1)		Prepared & Analyzed: 05/30/23								
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.120	0.00100	"	0.100		120	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.6	80-120			

LCS Dup (P3E3007-BSD1)		Prepared & Analyzed: 05/30/23								
Benzene	0.120	0.00100	mg/L	0.100		120	80-120	0.646	20	
Toluene	0.120	0.00100	"	0.100		120	80-120	0.317	20	
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120	1.89	20	
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120	0.115	20	
Xylene (o)	0.116	0.00100	"	0.100		116	80-120	0.923	20	
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.9	80-120			

Calibration Blank (P3E3007-CCB1)		Prepared & Analyzed: 05/30/23								
Benzene	0.110		ug/l							
Toluene	0.250		"							
Ethylbenzene	0.360		"							
Xylene (p/m)	0.740		"							
Xylene (o)	0.540		"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.1	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3E3007 - *** DEFAULT PREP ***

Calibration Blank (P3E3007-CCB2)				Prepared & Analyzed: 05/30/23						
Benzene	0.250		ug/l							
Toluene	0.270		"							
Ethylbenzene	0.430		"							
Xylene (p/m)	0.750		"							
Xylene (o)	0.400		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.3	80-120			
Calibration Check (P3E3007-CCV1)				Prepared & Analyzed: 05/30/23						
Benzene	0.117	0.00100	mg/L	0.100		117	80-120			
Toluene	0.119	0.00100	"	0.100		119	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.2	80-120			
Calibration Check (P3E3007-CCV2)				Prepared & Analyzed: 05/30/23						
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.119	0.00100	"	0.100		119	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		118	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		88.9	80-120			
Calibration Check (P3E3007-CCV3)				Prepared & Analyzed: 05/30/23						
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.230	0.00200	"	0.200		115	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.7	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3E3007 - *** DEFAULT PREP ***

Matrix Spike (P3E3007-MS1)	Source: 3E24006-01			Prepared & Analyzed: 05/30/23						
Benzene	0.153	0.00100	mg/L	0.100	0.0176	135	80-120			QM-05
Toluene	0.129	0.00100	"	0.100	0.00301	126	80-120			QM-05
Ethylbenzene	0.127	0.00100	"	0.100	0.00231	125	80-120			QM-05
Xylene (p/m)	0.240	0.00200	"	0.200	0.00211	119	80-120			
Xylene (o)	0.124	0.00100	"	0.100	ND	124	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.4	80-120			

Matrix Spike Dup (P3E3007-MSD1)	Source: 3E24006-01			Prepared & Analyzed: 05/30/23						
Benzene	0.157	0.00100	mg/L	0.100	0.0176	139	80-120	2.67	20	QM-05
Toluene	0.127	0.00100	"	0.100	0.00301	124	80-120	2.19	20	QM-05
Ethylbenzene	0.127	0.00100	"	0.100	0.00231	124	80-120	0.225	20	QM-05
Xylene (p/m)	0.239	0.00200	"	0.200	0.00211	118	80-120	0.607	20	
Xylene (o)	0.118	0.00100	"	0.100	ND	118	80-120	5.03	20	
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		108	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.5	80-120			

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E2415 - *** DEFAULT PREP ***										
Blank (P3E2415-BLK1)				Prepared: 05/24/23 Analyzed: 05/25/23						
Nitrate as N	ND	0.200	mg/L							
Sulfate	ND	1.00	"							
LCS (P3E2415-BS1)				Prepared: 05/24/23 Analyzed: 05/25/23						
Sulfate	9.54		mg/L	10.0		95.4	90-110			
Nitrate as N	10.1		"	10.0		101	90-110			
LCS Dup (P3E2415-BSD1)				Prepared: 05/24/23 Analyzed: 05/25/23						
Sulfate	9.50		mg/L	10.0		95.0	90-110	0.357	10	
Nitrate as N	10.0		"	10.0		100	90-110	0.288	10	
Calibration Check (P3E2415-CCV1)				Prepared: 05/24/23 Analyzed: 05/25/23						
Nitrate as N	10.0		mg/L	10.0		100	90-110			
Sulfate	9.52		"	10.0		95.2	90-110			
Calibration Check (P3E2415-CCV2)				Prepared: 05/24/23 Analyzed: 05/25/23						
Nitrate as N	10.2		mg/L	10.0		102	90-110			
Sulfate	9.69		"	10.0		96.9	90-110			
Matrix Spike (P3E2415-MS1)		Source: 3E24007-01		Prepared: 05/24/23 Analyzed: 05/25/23						
Sulfate	29.3		mg/L	10.0	18.7	106	80-120			
Matrix Spike (P3E2415-MS2)		Source: 3E24007-01		Prepared: 05/24/23 Analyzed: 05/25/23						
Nitrate as N	10.8		mg/L	10.0	0.565	103	80-120			
Matrix Spike Dup (P3E2415-MSD1)		Source: 3E24007-01		Prepared: 05/24/23 Analyzed: 05/25/23						
Sulfate	29.2		mg/L	10.0	18.7	105	80-120	0.257	20	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E2415 - *** DEFAULT PREP ***										
Matrix Spike Dup (P3E2415-MSD2)		Source: 3E24007-01		Prepared: 05/24/23		Analyzed: 05/25/23				
Nitrate as N	10.8		mg/L	10.0	0.565	103	80-120	0.240	20	
Batch P3F0704 - *** DEFAULT PREP ***										
Blank (P3F0704-BLK1)				Prepared: 06/07/23		Analyzed: 06/13/23				
Chemical Oxygen Demand	ND	2.00	mg/L							QAL1
LCS (P3F0704-BS1)				Prepared: 06/07/23		Analyzed: 06/13/23				
Chemical Oxygen Demand	107	2.00	mg/L	100		107	80-120			QAL1
LCS Dup (P3F0704-BSD1)				Prepared: 06/07/23		Analyzed: 06/13/23				
Chemical Oxygen Demand	114	2.00	mg/L	100		114	80-120	6.33	20	QAL1
Calibration Blank (P3F0704-CCB1)				Prepared: 06/07/23		Analyzed: 06/13/23				
Chemical Oxygen Demand	0.00		mg/L							QAL1
Calibration Check (P3F0704-CCV1)				Prepared: 06/07/23		Analyzed: 06/13/23				
Chemical Oxygen Demand	98.0	2.00	mg/L	100		98.0	80-120			QAL1
Calibration Check (P3F0704-CCV2)				Prepared: 06/07/23		Analyzed: 06/13/23				
Chemical Oxygen Demand	98.0	2.00	mg/L	100		98.0	80-120			QAL1
Duplicate (P3F0704-DUP1)		Source: 3E24007-01		Prepared: 06/07/23		Analyzed: 06/13/23				
Chemical Oxygen Demand	4.00	2.00	mg/L		5.00			22.2	20	QAL1, R4
Matrix Spike (P3F0704-MS1)		Source: 3E24007-01		Prepared: 06/07/23		Analyzed: 06/13/23				
Chemical Oxygen Demand	112	2.00	mg/L	100	5.00	107	80-120			QAL1

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3F0704 - *** DEFAULT PREP ***

Matrix Spike Dup (P3F0704-MSD1)	Source: 3E24007-01			Prepared: 06/07/23 Analyzed: 06/13/23						
Chemical Oxygen Demand	112	2.00	mg/L	100	5.00	107	80-120	0.00	20	QAL1

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

Notes and Definitions

SUB-13 Subcontract of analyte/analysis to ALS Houston.

ROI Received on Ice

R4 Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

QAL1 The Laboratory is not TNI Certified for this analyte or analysis.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

6/14/2023

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

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

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

Permian Basin Environmental Lab, L.P.

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

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

ORDER #:				Preservation & # of Containers												Matrix																				24 HOUR STANDARD	
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	ICE	HNO ₃ 250 poly 1	HCl 3 40mL VOA	H ₂ SO ₄ 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	Na ₂ S ₂ O ₃	NONE	NONE 3 AMBER VOAA VIALS	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	RSK SOP-175	TOC-415.1	Fe, Mn Diss ICP-MS 6020A																		
	3E24007-01			5/23/2023	11:05	X	5	X	X	X	X					W	X	X	X																		
	3E24007-02			5/23/2023	12:15	X	5	X	X	X	X					W	X	X	X																		
	3E24007-03			5/23/2023	13:33	X	5	X	X	X	X					W	X	X	X																		
	3E24007-04			5/23/2023	14:38	X	5	X	X	X	X					W	X	X	X																		
	3E24007-05			5/23/2023	15:45	X	5	X	X	X	X					W	X	X	X																		
	3E24007-06			5/23/2023	16:30	X	5	X	X	X	X					W	X	X	X																		
SPECIAL INSTRUCTIONS:																		Laboratory Comments:																			
																		Sample Containers Intact? Y N																			
																		VOCs Free of Headspace? Y N																			
Relinquished by: Brent Barron Date Time Received by: Date Time																		Labels on container(s) Y N																			
																		Custody seals on container(s) Y N																			
Relinquished by: Date Time Received by: Date Time																		Custody seals on cooler(s) Y N																			
																		Sample Hand Delivered Y N																			
Relinquished by: Date Time Received by: Date Time																		by Sampler/Client Rep. ? Y N																			
																		by Courier? UPS DHL FedEx Lone Star																			
Relinquished by: Date Time Received by: Date Time																		Temperature Upon Receipt:																			
																		Received: °C																			
																		Adjusted: °C Factor																			

ORIGIN ID:MAFA (432) 686-7235
BRENT BARRON
PBE LAB
1400 RANKIN HWY

SHIP DATE: 25MAY23
ACTWGT: 15.00 LB
CAD: 107136846/NET4610

MIDLAND, TX 79701
UNITED STATES US

BILL RECIPIENT

TO **SAMPLE RECEIVING**
ALS-HOUSTON
10450 STANCLIFF RD

583J3/2BC3/FE2D

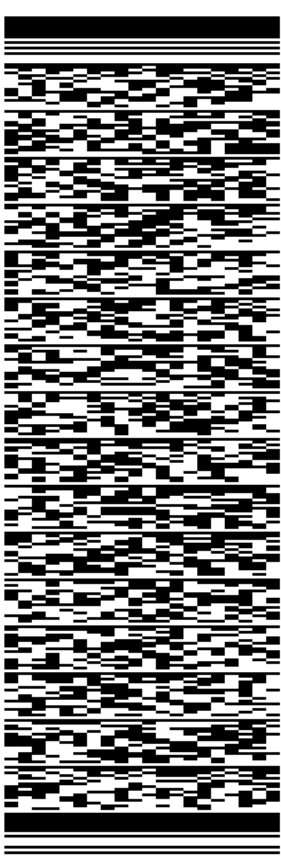
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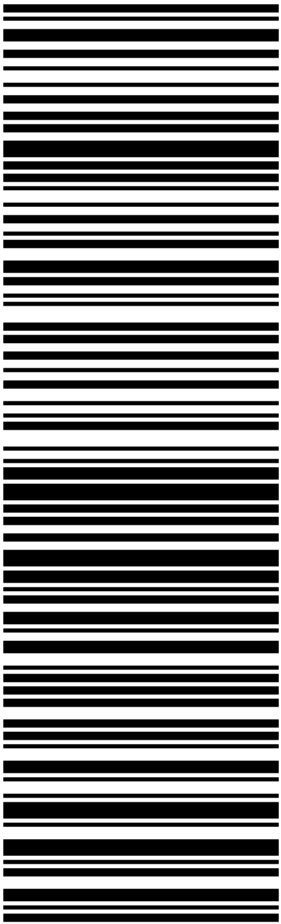
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10450 Stancliff Rd. Suite 210
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T: +1 281 530 5656
F: +1 281 530 5887

June 02, 2023

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS23051876**

Laboratory Results for: **3E24007**

Dear Brent Barron,

ALS Environmental received 6 sample(s) on May 26, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

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

Generated By: DAYNA.FISHER

Anna Kinchen
Project Manager

ALS Houston, US

Date: 02-Jun-23

Client: Permian Basin Environmental Lab, LP
Project: 3E24007
Work Order: HS23051876

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23051876-01	3E24007-01	Water		23-May-2023 11:05	26-May-2023 10:00	☐
HS23051876-02	3E24007-02	Water		23-May-2023 12:15	26-May-2023 10:00	☐
HS23051876-03	3E24007-03	Water		23-May-2023 13:33	26-May-2023 10:00	☐
HS23051876-04	3E24007-04	Water		23-May-2023 14:38	26-May-2023 10:00	☐
HS23051876-05	3E24007-05	Water		23-May-2023 15:45	26-May-2023 10:00	☐
HS23051876-06	3E24007-06	Water		23-May-2023 16:30	26-May-2023 10:00	☐

ALS Houston, US

Date: 02-Jun-23

Client: Permian Basin Environmental Lab, LP
Project: 3E24007
Work Order: HS23051876

CASE NARRATIVE

GC Semivolatiles by Method RSK-175

Batch ID: R436692

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

Metals by Method SW6020A

Batch ID: 194522

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

WetChemistry by Method E415.1

Batch ID: R436851

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

ALS Houston, US

Date: 02-Jun-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3E24007	WorkOrder:HS23051876
Sample ID:	3E24007-01	Lab ID:HS23051876-01
Collection Date:	23-May-2023 11:05	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	31-May-2023 10:32
Ethene	ND		1.00	ug/L	1	31-May-2023 10:32
Methane	0.716		0.500	ug/L	1	31-May-2023 10:32
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 31-May-2023 Analyst: JC		
Iron	ND		0.200	mg/L	1	01-Jun-2023 22:40
Manganese	ND		0.00500	mg/L	1	01-Jun-2023 22:40
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: DW		
Organic Carbon, Total	1.04		1.00	mg/L	1	01-Jun-2023 10:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 02-Jun-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3E24007	WorkOrder:HS23051876
Sample ID:	3E24007-02	Lab ID:HS23051876-02
Collection Date:	23-May-2023 12:15	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	31-May-2023 10:46
Ethene	ND		1.00	ug/L	1	31-May-2023 10:46
Methane	0.931		0.500	ug/L	1	31-May-2023 10:46
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 31-May-2023 Analyst: JC		
Iron	ND		0.200	mg/L	1	01-Jun-2023 22:42
Manganese	ND		0.00500	mg/L	1	01-Jun-2023 22:42
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: DW		
Organic Carbon, Total	1.05		1.00	mg/L	1	01-Jun-2023 10:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 02-Jun-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3E24007	WorkOrder:HS23051876
Sample ID:	3E24007-03	Lab ID:HS23051876-03
Collection Date:	23-May-2023 13:33	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	31-May-2023 11:06
Ethene	ND		1.00	ug/L	1	31-May-2023 11:06
Methane	21.1		0.500	ug/L	1	31-May-2023 11:06
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 31-May-2023 Analyst: JC		
Iron	ND		0.200	mg/L	1	01-Jun-2023 22:44
Manganese	0.0135		0.00500	mg/L	1	01-Jun-2023 22:44
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: DW		
Organic Carbon, Total	3.72		1.00	mg/L	1	01-Jun-2023 10:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 02-Jun-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3E24007	WorkOrder:HS23051876
Sample ID:	3E24007-04	Lab ID:HS23051876-04
Collection Date:	23-May-2023 14:38	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	31-May-2023 11:20
Ethene	ND		1.00	ug/L	1	31-May-2023 11:20
Methane	371		5.00	ug/L	10	31-May-2023 13:11
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 31-May-2023 Analyst: JC		
Iron	0.225		0.200	mg/L	1	01-Jun-2023 22:46
Manganese	0.0292		0.00500	mg/L	1	01-Jun-2023 22:46
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: DW		
Organic Carbon, Total	2.01		1.00	mg/L	1	01-Jun-2023 11:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 02-Jun-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3E24007	WorkOrder:HS23051876
Sample ID:	3E24007-05	Lab ID:HS23051876-05
Collection Date:	23-May-2023 15:45	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	14.8		1.00	ug/L	1	31-May-2023 11:50
Ethene	ND		1.00	ug/L	1	31-May-2023 11:50
Methane	2,250		50.0	ug/L	100	31-May-2023 13:26
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 31-May-2023 Analyst: JC		
Iron	ND		0.200	mg/L	1	01-Jun-2023 22:48
Manganese	0.147		0.00500	mg/L	1	01-Jun-2023 22:48
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: DW		
Organic Carbon, Total	5.55		1.00	mg/L	1	01-Jun-2023 11:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 02-Jun-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3E24007	WorkOrder:HS23051876
Sample ID:	3E24007-06	Lab ID:HS23051876-06
Collection Date:	23-May-2023 16:30	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	13.3		1.00	ug/L	1	31-May-2023 12:29
Ethene	ND		1.00	ug/L	1	31-May-2023 12:29
Methane	3,890		100	ug/L	200	31-May-2023 13:34
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 31-May-2023 Analyst: JC		
Iron	ND		0.200	mg/L	1	01-Jun-2023 22:50
Manganese	0.0885		0.00500	mg/L	1	01-Jun-2023 22:50
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: DW		
Organic Carbon, Total	9.22		1.00	mg/L	1	01-Jun-2023 11:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 02-Jun-23

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 3E24007
WorkOrder: HS23051876

Batch ID: 194522	Start Date: 31 May 2023 15:00	End Date: 31 May 2023 15:00
Method: DISS METALS PREP - WATER - SW3010A		Prep Code: 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23051876-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23051876-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23051876-03		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23051876-04		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23051876-05		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23051876-06		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US

Date: 02-Jun-23

Client: Permian Basin Environmental Lab, LP
Project: 3E24007
WorkOrder: HS23051876

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 194522 (0)		Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water	
HS23051876-01	3E24007-01	23 May 2023 11:05		31 May 2023 15:00	01 Jun 2023 22:40	1
HS23051876-02	3E24007-02	23 May 2023 12:15		31 May 2023 15:00	01 Jun 2023 22:42	1
HS23051876-03	3E24007-03	23 May 2023 13:33		31 May 2023 15:00	01 Jun 2023 22:44	1
HS23051876-04	3E24007-04	23 May 2023 14:38		31 May 2023 15:00	01 Jun 2023 22:46	1
HS23051876-05	3E24007-05	23 May 2023 15:45		31 May 2023 15:00	01 Jun 2023 22:48	1
HS23051876-06	3E24007-06	23 May 2023 16:30		31 May 2023 15:00	01 Jun 2023 22:50	1
Batch ID: R436692 (0)		Test Name : DISSOLVED GASES BY RSK-175			Matrix: Water	
HS23051876-01	3E24007-01	23 May 2023 11:05			31 May 2023 10:32	1
HS23051876-02	3E24007-02	23 May 2023 12:15			31 May 2023 10:46	1
HS23051876-03	3E24007-03	23 May 2023 13:33			31 May 2023 11:06	1
HS23051876-04	3E24007-04	23 May 2023 14:38			31 May 2023 13:11	10
HS23051876-04	3E24007-04	23 May 2023 14:38			31 May 2023 11:20	1
HS23051876-05	3E24007-05	23 May 2023 15:45			31 May 2023 13:26	100
HS23051876-05	3E24007-05	23 May 2023 15:45			31 May 2023 11:50	1
HS23051876-06	3E24007-06	23 May 2023 16:30			31 May 2023 13:34	200
HS23051876-06	3E24007-06	23 May 2023 16:30			31 May 2023 12:29	1
Batch ID: R436851 (0)		Test Name : TOTAL ORGANIC CARBON BY E415.1			Matrix: Water	
HS23051876-01	3E24007-01	23 May 2023 11:05			01 Jun 2023 10:10	1
HS23051876-02	3E24007-02	23 May 2023 12:15			01 Jun 2023 10:36	1
HS23051876-03	3E24007-03	23 May 2023 13:33			01 Jun 2023 10:49	1
HS23051876-04	3E24007-04	23 May 2023 14:38			01 Jun 2023 11:01	1
HS23051876-05	3E24007-05	23 May 2023 15:45			01 Jun 2023 11:14	1
HS23051876-06	3E24007-06	23 May 2023 16:30			01 Jun 2023 11:27	1

ALS Houston, US

Date: 02-Jun-23

Client: Permian Basin Environmental Lab, LP
Project: 3E24007
WorkOrder: HS23051876

QC BATCH REPORT

Batch ID: R436692 (0)		Instrument: FID-4		Method: DISSOLVED GASES BY RSK-175					
MBLK	Sample ID: MBLK-230531	Units: ug/L		Analysis Date: 31-May-2023 09:27					
Client ID:	Run ID: FID-4_436692	SeqNo: 7332842		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	ND	1.00							
Ethene	ND	1.00							
Methane	ND	0.500							

LCS	Sample ID: LCS-230531	Units: ug/L		Analysis Date: 31-May-2023 09:43					
Client ID:	Run ID: FID-4_436692	SeqNo: 7332843		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	19.32	1.00	18.04	0	107	75 - 125			
Ethene	16.82	1.00	16.8	0	100	75 - 125			
Methane	7.949	0.500	9.647	0	82.4	75 - 125			

LCSD	Sample ID: LCSD-230531	Units: ug/L		Analysis Date: 31-May-2023 10:14					
Client ID:	Run ID: FID-4_436692	SeqNo: 7332844		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	19.57	1.00	18.04	0	108	75 - 125	19.32	1.29	30
Ethene	16.85	1.00	16.8	0	100	75 - 125	16.82	0.162	30
Methane	8.123	0.500	9.647	0	84.2	75 - 125	7.949	2.17	30

DUP	Sample ID: HS23051876-03DUP	Units: ug/L		Analysis Date: 31-May-2023 13:00					
Client ID: 3E24007-03	Run ID: FID-4_436692	SeqNo: 7332852		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	ND	1.00					0	0	30
Ethene	ND	1.00					0	0	30
Methane	21.36	0.500					21.11	1.16	30

The following samples were analyzed in this batch: HS23051876-01 HS23051876-02 HS23051876-03 HS23051876-04
 HS23051876-05 HS23051876-06

ALS Houston, US

Date: 02-Jun-23

Client: Permian Basin Environmental Lab, LP
Project: 3E24007
WorkOrder: HS23051876

QC BATCH REPORT

Batch ID: 194522 (0)		Instrument: ICPMS06		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK	Sample ID: MBLKF1-194522	Units: mg/L		Analysis Date: 01-Jun-2023 21:28					
Client ID:	Run ID: ICPMS06_436768	SeqNo: 7336499		PrepDate: 31-May-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron ND 0.200

Manganese ND 0.00500

MBLK	Sample ID: MBLK-194522	Units: mg/L		Analysis Date: 01-Jun-2023 21:26					
Client ID:	Run ID: ICPMS06_436768	SeqNo: 7336498		PrepDate: 31-May-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron ND 0.200

Manganese ND 0.00500

LCS	Sample ID: LCS-194522	Units: mg/L		Analysis Date: 01-Jun-2023 21:30					
Client ID:	Run ID: ICPMS06_436768	SeqNo: 7336500		PrepDate: 31-May-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron 4.646 0.200 5 0 92.9 80 - 120

Manganese 0.0469 0.00500 0.05 0 93.8 80 - 120

MS	Sample ID: HS23051473-01MS	Units: mg/L		Analysis Date: 01-Jun-2023 22:22					
Client ID:	Run ID: ICPMS06_436768	SeqNo: 7336552		PrepDate: 31-May-2023		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron 5.553 2.00 5 0.1912 107 75 - 125

Manganese 0.07039 0.0500 0.05 0.01527 110 75 - 125

MSD	Sample ID: HS23051473-01MSD	Units: mg/L		Analysis Date: 01-Jun-2023 22:24					
Client ID:	Run ID: ICPMS06_436768	SeqNo: 7336553		PrepDate: 31-May-2023		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron 5.695 2.00 5 0.1912 110 75 - 125 5.553 2.53 20

Manganese 0.07167 0.0500 0.05 0.01527 113 75 - 125 0.07039 1.8 20

ALS Houston, US

Date: 02-Jun-23

Client: Permian Basin Environmental Lab, LP
Project: 3E24007
WorkOrder: HS23051876

QC BATCH REPORT

Batch ID: 194522 (0)		Instrument: ICPMS06		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
PDS	Sample ID: HS23051473-01	PDS		Units: mg/L	Analysis Date: 01-Jun-2023 22:26				
Client ID:		Run ID: ICPMS06_436768		SeqNo: 7336554	PrepDate: 31-May-2023		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	Limit Qual
Iron	97.36	2.00	100	0.1912	97.2	75 - 125			
Manganese	1.006	0.0500	1	0.01527	99.0	75 - 125			
SD	Sample ID: HS23051473-01	SD		Units: mg/L	Analysis Date: 01-Jun-2023 22:20				
Client ID:		Run ID: ICPMS06_436768		SeqNo: 7336551	PrepDate: 31-May-2023		DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Iron	ND	10.0					0.1912	0	10
Manganese	ND	0.250					0.01527	0	10
The following samples were analyzed in this batch:		HS23051876-01 HS23051876-05		HS23051876-02 HS23051876-06		HS23051876-03		HS23051876-04	

ALS Houston, US

Date: 02-Jun-23

Client: Permian Basin Environmental Lab, LP
Project: 3E24007
WorkOrder: HS23051876

QC BATCH REPORT

Batch ID: R436851 (0)		Instrument: TOC_04		Method: TOTAL ORGANIC CARBON BY E415.1					
MBLK	Sample ID: MBLK-06012023	Units: mg/L		Analysis Date: 01-Jun-2023 09:31					
Client ID:	Run ID: TOC_04_436851	SeqNo: 7336904		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	ND	1.00							
LCS	Sample ID: LCS-06012023	Units: mg/L		Analysis Date: 01-Jun-2023 09:44					
Client ID:	Run ID: TOC_04_436851	SeqNo: 7336905		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	10	1.00	10	0	100	85 - 115			
LCSD	Sample ID: LCSD-06012023	Units: mg/L		Analysis Date: 01-Jun-2023 09:58					
Client ID:	Run ID: TOC_04_436851	SeqNo: 7336906		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	10.03	1.00	10	0	100	85 - 115	10	0.3	20
MS	Sample ID: HS23051876-01MS	Units: mg/L		Analysis Date: 01-Jun-2023 10:23					
Client ID: 3E24007-01	Run ID: TOC_04_436851	SeqNo: 7336908		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	11.88	1.00	10	1.04	108	80 - 120			
The following samples were analyzed in this batch:				HS23051876-01 HS23051876-05		HS23051876-02 HS23051876-06		HS23051876-03 HS23051876-04	

ALS Houston, US

Date: 02-Jun-23

Client: Permian Basin Environmental Lab, LP
Project: 3E24007
WorkOrder: HS23051876

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

ALS Houston, US

Date: 02-Jun-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-37	30-Jun-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US

Date: 02-Jun-23

Sample Receipt Checklist

Work Order ID: HS23051876

Date/Time Received: 26-May-2023 10:00

Client Name: Permian Basin Lab

Received by: Paresh M. Giga

Completed By: /S/ Corey Grandits	26-May-2023 17:58	Reviewed by: /S/ Anna Kinchen	30-May-2023 14:39
eSignature	Date/Time	eSignature	Date/Time

Matrices: WCarrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Samplers name present on COC?	Yes ☐	No ☒	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):

3.1UC/3.0C IR31

Cooler(s)/Kit(s):

Red

Date/Time sample(s) sent to storage:

5/26/23

Water - VOA vials have zero headspace?

Yes ☒ No ☐ No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☒ No ☐ N/A ☐

pH adjusted?

Yes ☐ No ☒ N/A ☐

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

PBELAB**CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**Permian Basin Environm
1400 Rankin HWY
Midland, Texas 79701**HS23051876**Permian Basin Environmental Lab, LP
3E24007

PO #:

Project Manager: Brent Barron

Company Name PBEL

Company Address: 1400 Rankin HWY

City/State/Zip: Midland Texas 79701

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard☐ TRRP☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

RDER #:

LAB # (lab use only)	ORDER #:	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers								Matrix		Analyze For:																24 HOUR	STANDARD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
									ICE	HNO ₃ 250 poly 1	HCl 3 40mL VOA	H ₂ SO ₄ 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	Na ₂ S ₂ O ₃	NONE	NONE 3 AMBER VOAA VIALS	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	RSK SOP-175	TOC-415.1	Fe, Mn Diss ICP-MS 6020A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

SPECIAL INSTRUCTIONS:

Relinquished by: Brent Barron	Date: 5/25/23	Time: 17:00	Received by:	Date:	Time:	Laboratory Comments: Sample Containers Intact? Y N VOCs Free of Headspace? Y N Labels on container(s) Y N Custody seals on container(s) Y N Custody seals on cooler(s) Y N Sample Hand Delivered Y N by Sampler/Client Rep. ? Y N by Courier? UPS DHL FedEx Lone Star Temperature Upon Receipt: Received: °C Adjusted: °C Factor	
Relinquished by:	Date:	Time:	Received by:	Date:	Time:		
Relinquished by:	Date:	Time:	Received by:	Date:	Time:		
	Date:	Time:	Received by:	Date:	Time:		
	Date:	Time:	Received by:	Date:	Time:		

Page 40 of 40

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Location: Lea County, NM
Lab Order Number: 3H16010



Current Certification

Report Date: 09/15/23

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3	3H16010-01	Water	08/15/23 10:55	08-16-2023 09:00
MW-5	3H16010-02	Water	08/15/23 11:30	08-16-2023 09:00
MW-6	3H16010-03	Water	08/15/23 12:45	08-16-2023 09:00
MW-12	3H16010-04	Water	08/15/23 13:31	08-16-2023 09:00
MW-10	3H16010-05	Water	08/15/23 14:28	08-16-2023 09:00
MW-13	3H16010-06	Water	08/15/23 15:25	08-16-2023 09:00

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-3
3H16010-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 14:21	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 14:21	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 14:21	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 14:21	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 14:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	83.8 %		80-120		P3H1802	08/18/23 11:12	08/18/23 14:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P3H1802	08/18/23 11:12	08/18/23 14:21	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3H2912	08/23/23 12:08	08/23/23 12:08	8015M	SUB-13
Ethene	0.00122	0.00100	mg/L	1	P3H2912	08/23/23 12:08	08/23/23 12:08	8015M	SUB-13
Methane	0.000570	0.000500	mg/L	1	P3H2912	08/23/23 12:08	08/23/23 12:08	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	ND	2.00	mg/L	1	P3H3010	08/30/23 11:13	09/07/23 08:28	8000	
Nitrate as N	0.808	0.200	mg/L	1	P3H1709	08/17/23 10:00	08/17/23 21:03	EPA 300.0	
Sulfate	178	10.0	mg/L	10	P3H1709	08/17/23 10:00	08/17/23 17:58	EPA 300.0	
Total Organic Carbon	1.09	1.00	mg/L	1	P3H2912	08/15/23 10:55	08/15/23 10:55	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3H2912	08/22/23 12:00	08/23/23 15:15	EPA 6020A	SUB-13
Manganese	ND	0.00500	mg/L	1	P3H2912	08/22/23 12:00	08/23/23 15:15	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

MW-5
3H16010-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 14:42	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 14:42	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 14:42	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 14:42	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 14:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	91.4 %		80-120		P3H1802	08/18/23 11:12	08/18/23 14:42	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	104 %		80-120		P3H1802	08/18/23 11:12	08/18/23 14:42	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3H2912	08/23/23 12:20	08/23/23 12:20	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3H2912	08/23/23 12:20	08/23/23 12:20	8015M	SUB-13
Methane	0.000742	0.000500	mg/L	1	P3H2912	08/23/23 12:20	08/23/23 12:20	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	ND	2.00	mg/L	1	P3H3010	08/30/23 11:13	09/07/23 08:28	8000	
Nitrate as N	0.689	0.200	mg/L	1	P3H1709	08/17/23 10:00	08/17/23 22:05	EPA 300.0	
Sulfate	167	10.0	mg/L	10	P3H1709	08/17/23 10:00	08/17/23 19:00	EPA 300.0	
Total Organic Carbon	2.31	1.00	mg/L	1	P3H2912	08/21/23 10:57	08/21/23 10:57	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3H2912	08/22/23 12:00	08/23/23 15:30	EPA 6020A	SUB-13
Manganese	0.0112	0.00500	mg/L	1	P3H2912	08/22/23 12:00	08/23/23 15:30	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

MW-6
3H16010-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:03	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:03	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:03	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:03	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	91.8 %		80-120		P3H1802	08/18/23 11:12	08/18/23 15:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	104 %		80-120		P3H1802	08/18/23 11:12	08/18/23 15:03	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3H2912	08/23/23 12:20	08/23/23 12:36	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3H2912	08/23/23 12:20	08/23/23 12:36	8015M	SUB-13
Methane	0.0156	0.000500	mg/L	1	P3H2912	08/23/23 12:20	08/23/23 12:36	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	ND	2.00	mg/L	1	P3H3010	08/30/23 11:13	09/07/23 08:28	8000	
Nitrate as N	17.3	0.200	mg/L	1	P3H1709	08/17/23 10:00	08/17/23 22:25	EPA 300.0	
Sulfate	192	10.0	mg/L	10	P3H1709	08/17/23 10:00	08/17/23 19:20	EPA 300.0	
Total Organic Carbon	3.98	1.00	mg/L	1	P3H2912	08/21/23 11:13	08/21/23 11:13	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3H2912	08/22/23 12:00	08/23/23 15:55	EPA 6020A	SUB-13
Manganese	0.0138	0.00500	mg/L	1	P3H2912	08/22/23 12:00	08/23/23 15:55	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

MW-12
3H16010-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:24	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:24	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:24	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:24	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.7 %		80-120		P3H1802	08/18/23 11:12	08/18/23 15:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %		80-120		P3H1802	08/18/23 11:12	08/18/23 15:24	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3H2912	08/15/23 13:31	08/15/23 13:31	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3H2912	08/15/23 13:31	08/15/23 13:31	8015M	SUB-13
Methane	0.563	0.0100	mg/L	1	P3H2912	08/15/23 13:31	08/23/23 13:19	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	6.00	2.00	mg/L	1	P3H3010	08/30/23 11:13	09/07/23 08:28	8000	
Nitrate as N	0.226	0.200	mg/L	1	P3H1709	08/17/23 10:00	08/17/23 22:46	EPA 300.0	
Sulfate	128	10.0	mg/L	10	P3H1709	08/17/23 10:00	08/17/23 19:41	EPA 300.0	
Total Organic Carbon	2.70	1.00	mg/L	1	P3H2912	08/21/23 11:28	08/21/23 11:28	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3H2912	08/22/23 12:00	08/23/23 15:57	EPA 6020A	SUB-13
Manganese	ND	0.0100	mg/L	1	P3H2912	08/22/23 12:00	08/23/23 15:57	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

MW-10
3H16010-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	0.132	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:44	EPA 8021B	
Toluene	0.00243	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:44	EPA 8021B	
Ethylbenzene	0.00374	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:44	EPA 8021B	
Xylene (p/m)	0.0238	0.00200	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:44	EPA 8021B	
Xylene (o)	0.00222	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 15:44	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.8 %</i>		<i>80-120</i>		<i>P3H1802</i>	<i>08/18/23 11:12</i>	<i>08/18/23 15:44</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>100 %</i>		<i>80-120</i>		<i>P3H1802</i>	<i>08/18/23 11:12</i>	<i>08/18/23 15:44</i>	<i>EPA 8021B</i>	
Ethane	0.0226	0.00100	mg/L	1	P3H2912	08/23/23 12:55	08/23/23 12:55	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3H2912	08/23/23 12:55	08/23/23 12:55	8015M	SUB-13
Methane	3.78	0.100	mg/L	1	P3H2912	08/23/23 12:55	08/23/23 14:13	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	18.0	2.00	mg/L	1	P3H3010	08/30/23 11:13	09/07/23 08:28	8000	
Nitrate as N	0.375	0.200	mg/L	1	P3H1709	08/17/23 10:00	08/17/23 23:06	EPA 300.0	
Sulfate	58.7	10.0	mg/L	10	P3H1709	08/17/23 10:00	08/17/23 20:01	EPA 300.0	
Total Organic Carbon	6.14	1.00	mg/L	1	P3H2912	08/21/23 11:43	08/21/23 11:43	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3H2912	08/22/23 12:00	08/23/23 15:59	EPA 6020A	SUB-13
Manganese	0.192	0.00500	mg/L	1	P3H2912	08/22/23 12:00	08/23/23 15:59	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-13
3H16010-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	2.78	0.0100	mg/L	10	P3H1802	08/18/23 11:12	08/18/23 16:05	EPA 8021B	
Toluene	0.00152	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/21/23 14:55	EPA 8021B	
Ethylbenzene	0.0158	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/21/23 14:55	EPA 8021B	
Xylene (p/m)	0.00434	0.00200	mg/L	1	P3H1802	08/18/23 11:12	08/21/23 14:55	EPA 8021B	
Xylene (o)	0.00117	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/21/23 14:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	83.4 %		80-120		P3H1802	08/18/23 11:12	08/21/23 14:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	111 %		80-120		P3H1802	08/18/23 11:12	08/21/23 14:55	EPA 8021B	
Ethane	0.0192	0.00100	mg/L	1	P3H2912	08/29/23 13:10	08/29/23 13:10	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3H2912	08/29/23 13:10	08/29/23 13:10	8015M	SUB-13
Methane	4.10	0.100	mg/L	1	P3H2912	08/29/23 13:10	08/29/23 13:10	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	36.0	2.00	mg/L	1	P3H3010	08/30/23 11:13	09/07/23 08:28	8000	
Nitrate as N	0.229	0.200	mg/L	1	P3H1709	08/17/23 10:00	08/17/23 23:27	EPA 300.0	
Sulfate	18.2	10.0	mg/L	10	P3H1709	08/17/23 10:00	08/17/23 20:22	EPA 300.0	
Total Organic Carbon	10.5	1.00	mg/L	1	P3H2912	08/21/23 11:59	08/21/23 11:59	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3H2912	08/22/23 12:00	08/23/23 16:01	EPA 6020A	SUB-13
Manganese	0.135	0.00500	mg/L	1	P3H2912	08/22/23 12:00	08/23/23 16:01	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3H1802 - *** DEFAULT PREP ***

Blank (P3H1802-BLK1)				Prepared & Analyzed: 08/18/23						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		104	80-120			

LCS (P3H1802-BS1)				Prepared & Analyzed: 08/18/23						
Benzene	0.0890	0.00100	mg/L	0.100		89.0	80-120			
Toluene	0.0867	0.00100	"	0.100		86.7	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.3	80-120			
Xylene (o)	0.0923	0.00100	"	0.100		92.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		107	80-120			

LCS Dup (P3H1802-BSD1)				Prepared & Analyzed: 08/18/23						
Benzene	0.0908	0.00100	mg/L	0.100		90.8	80-120	2.07	20	
Toluene	0.0886	0.00100	"	0.100		88.6	80-120	2.11	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120	3.02	20	
Xylene (p/m)	0.203	0.00200	"	0.200		101	80-120	1.97	20	
Xylene (o)	0.0944	0.00100	"	0.100		94.4	80-120	2.28	20	
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		93.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	80-120			

Calibration Blank (P3H1802-CCB1)				Prepared & Analyzed: 08/18/23						
Benzene	0.200		ug/l							
Toluene	0.310		"							
Ethylbenzene	0.480		"							
Xylene (p/m)	1.07		"							
Xylene (o)	0.640		"							
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3H1802 - *** DEFAULT PREP ***

Calibration Blank (P3H1802-CCB2)				Prepared: 08/18/23 Analyzed: 08/21/23						
Benzene	0.280		ug/l							
Toluene	0.380		"							
Ethylbenzene	0.700		"							
Xylene (p/m)	1.42		"							
Xylene (o)	0.780		"							
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		104	80-120			

Calibration Check (P3H1802-CCV1)				Prepared & Analyzed: 08/18/23						
Benzene	0.0886	0.00100	mg/L	0.100		88.6	80-120			
Toluene	0.0852	0.00100	"	0.100		85.2	80-120			
Ethylbenzene	0.0943	0.00100	"	0.100		94.3	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.6	80-120			
Xylene (o)	0.0941	0.00100	"	0.100		94.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.0980		"	0.120		81.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	80-120			

Calibration Check (P3H1802-CCV2)				Prepared: 08/18/23 Analyzed: 08/21/23						
Benzene	0.0929	0.00100	mg/L	0.100		92.9	80-120			
Toluene	0.0979	0.00100	"	0.100		97.9	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.228	0.00200	"	0.200		114	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	80-120			

Calibration Check (P3H1802-CCV3)				Prepared: 08/18/23 Analyzed: 08/21/23						
Benzene	0.0888	0.00100	mg/L	0.100		88.8	80-120			
Toluene	0.0881	0.00100	"	0.100		88.1	80-120			
Ethylbenzene	0.0986	0.00100	"	0.100		98.6	80-120			
Xylene (p/m)	0.203	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0998	0.00100	"	0.100		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3H1802 - *** DEFAULT PREP ***

Matrix Spike (P3H1802-MS1)		Source: 3H16010-01			Prepared: 08/18/23		Analyzed: 08/21/23		
Benzene	0.0924	0.00100	mg/L	0.100	ND	92.4	80-120		
Toluene	0.0814	0.00100	"	0.100	ND	81.4	80-120		
Ethylbenzene	0.0925	0.00100	"	0.100	ND	92.5	80-120		
Xylene (p/m)	0.180	0.00200	"	0.200	ND	89.9	80-120		
Xylene (o)	0.0883	0.00100	"	0.100	ND	88.3	80-120		
Surrogate: 4-Bromofluorobenzene		0.0984	"	0.120		82.0	80-120		
Surrogate: 1,4-Difluorobenzene		0.131	"	0.120		109	80-120		
Matrix Spike Dup (P3H1802-MSD1)		Source: 3H16010-01			Prepared: 08/18/23		Analyzed: 08/21/23		
Benzene	0.0936	0.00100	mg/L	0.100	ND	93.6	80-120	1.28	20
Toluene	0.0870	0.00100	"	0.100	ND	87.0	80-120	6.66	20
Ethylbenzene	0.100	0.00100	"	0.100	ND	100	80-120	7.92	20
Xylene (p/m)	0.196	0.00200	"	0.200	ND	98.2	80-120	8.89	20
Xylene (o)	0.0942	0.00100	"	0.100	ND	94.2	80-120	6.46	20
Surrogate: 4-Bromofluorobenzene		0.106	"	0.120		88.3	80-120		
Surrogate: 1,4-Difluorobenzene		0.130	"	0.120		108	80-120		

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3H1709 - *** DEFAULT PREP ***										
Blank (P3H1709-BLK1)				Prepared & Analyzed: 08/17/23						
Nitrate as N	ND	0.200	mg/L							
Sulfate	ND	1.00	"							
LCS (P3H1709-BS1)				Prepared & Analyzed: 08/17/23						
Nitrate as N	10.3		mg/L	10.0		103	90-110			
Sulfate	9.75		"	10.0		97.5	90-110			
LCS Dup (P3H1709-BSD1)				Prepared & Analyzed: 08/17/23						
Nitrate as N	10.3		mg/L	10.0		103	90-110	0.126	10	
Sulfate	9.78		"	10.0		97.8	90-110	0.338	10	
Calibration Check (P3H1709-CCV1)				Prepared & Analyzed: 08/17/23						
Nitrate as N	10.3		mg/L	10.0		103	90-110			
Sulfate	9.74		"	10.0		97.4	90-110			
Matrix Spike (P3H1709-MS1)		Source: 3H16010-01		Prepared & Analyzed: 08/17/23						
Sulfate	28.9		mg/L	10.0	17.8	111	80-120			
Matrix Spike (P3H1709-MS2)		Source: 3H16010-01		Prepared & Analyzed: 08/17/23						
Nitrate as N	11.6		mg/L	10.0	0.808	108	80-120			
Matrix Spike Dup (P3H1709-MSD1)		Source: 3H16010-01		Prepared & Analyzed: 08/17/23						
Sulfate	28.4		mg/L	10.0	17.8	106	80-120	1.95	20	
Matrix Spike Dup (P3H1709-MSD2)		Source: 3H16010-01		Prepared & Analyzed: 08/17/23						
Nitrate as N	11.6		mg/L	10.0	0.808	108	80-120	0.0859	20	

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch P3H3010 - *** DEFAULT PREP ***									
Blank (P3H3010-BLK1)				Prepared & Analyzed: 09/07/23					
Chemical Oxygen Demand	ND	2.00	mg/L						
LCS (P3H3010-BS1)				Prepared & Analyzed: 09/07/23					
Chemical Oxygen Demand	103	2.00	mg/L	100	103	80-120			
LCS Dup (P3H3010-BSD1)				Prepared & Analyzed: 09/07/23					
Chemical Oxygen Demand	112	2.00	mg/L	100	112	80-120	8.37	20	
Duplicate (P3H3010-DUP1)				Source: 3H16010-01		Prepared & Analyzed: 09/07/23			
Chemical Oxygen Demand	ND	2.00	mg/L		ND			20	
Matrix Spike (P3H3010-MS1)				Source: 3H16010-01		Prepared & Analyzed: 09/07/23			
Chemical Oxygen Demand	97.0	2.00	mg/L	100	ND	97.0	80-120		
Matrix Spike Dup (P3H3010-MSD1)				Source: 3H16010-01		Prepared & Analyzed: 09/07/23			
Chemical Oxygen Demand	96.0	2.00	mg/L	100	ND	96.0	80-120	1.04	20

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

Notes and Definitions

SUB-13 Subcontract of analyte/analysis to ALS Houston.

ROI Received on Ice

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

9/15/2023

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

August 25, 2023

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS23081141**

Laboratory Results for: **3H16010**

Dear Brent Barron,

ALS Environmental received 6 sample(s) on Aug 18, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Anna Kinchen
Project Manager

ALS Houston, US

Date: 25-Aug-23

Client: Permian Basin Environmental Lab, LP
Project: 3H16010
Work Order: HS23081141

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23081141-01	3H16010-01	Water		15-Aug-2023 10:55	18-Aug-2023 09:50	☐
HS23081141-02	3H16010-02	Water		15-Aug-2023 11:30	18-Aug-2023 09:50	☐
HS23081141-03	3H16010-03	Water		15-Aug-2023 12:45	18-Aug-2023 09:50	☐
HS23081141-04	3H16010-04	Water		15-Aug-2023 13:31	18-Aug-2023 09:50	☐
HS23081141-05	3H16010-05	Water		15-Aug-2023 14:25	18-Aug-2023 09:50	☐
HS23081141-06	3H16010-06	Water		15-Aug-2023 15:25	18-Aug-2023 09:50	☐

ALS Houston, US

Date: 25-Aug-23

Client: Permian Basin Environmental Lab, LP
Project: 3H16010
Work Order: HS23081141

CASE NARRATIVE

Work Order Comments

- Login Notes:
Sample Label time differ 3H16010-05 - COC 1425, Label 1428

GC Semivolatiles by Method RSK-175

Batch ID: R444716

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

Metals by Method SW6020A

Batch ID: 199325

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

WetChemistry by Method E415.1

Batch ID: R444460

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

ALS Houston, US

Date: 25-Aug-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3H16010	WorkOrder:HS23081141
Sample ID:	3H16010-01	Lab ID:HS23081141-01
Collection Date:	15-Aug-2023 10:55	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	23-Aug-2023 12:08
Ethene	1.22		1.00	ug/L	1	23-Aug-2023 12:08
Methane	0.570		0.500	ug/L	1	23-Aug-2023 12:08
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 22-Aug-2023 Analyst: MSC		
Iron	ND		0.200	mg/L	1	23-Aug-2023 15:15
Manganese	ND		0.00500	mg/L	1	23-Aug-2023 15:15
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: DW		
Organic Carbon, Total	1.09		1.00	mg/L	1	21-Aug-2023 10:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 25-Aug-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3H16010	WorkOrder:HS23081141
Sample ID:	3H16010-02	Lab ID:HS23081141-02
Collection Date:	15-Aug-2023 11:30	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	23-Aug-2023 12:20
Ethene	ND		1.00	ug/L	1	23-Aug-2023 12:20
Methane	0.742		0.500	ug/L	1	23-Aug-2023 12:20
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 22-Aug-2023 Analyst: MSC		
Iron	ND		0.200	mg/L	1	23-Aug-2023 15:30
Manganese	0.0112		0.00500	mg/L	1	23-Aug-2023 15:30
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: DW		
Organic Carbon, Total	2.31		1.00	mg/L	1	21-Aug-2023 10:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 25-Aug-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3H16010	WorkOrder:HS23081141
Sample ID:	3H16010-03	Lab ID:HS23081141-03
Collection Date:	15-Aug-2023 12:45	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	23-Aug-2023 12:36
Ethene	ND		1.00	ug/L	1	23-Aug-2023 12:36
Methane	15.6		0.500	ug/L	1	23-Aug-2023 12:36
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 22-Aug-2023 Analyst: MSC		
Iron	ND		0.200	mg/L	1	23-Aug-2023 15:55
Manganese	0.0138		0.00500	mg/L	1	23-Aug-2023 15:55
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: DW		
Organic Carbon, Total	3.98		1.00	mg/L	1	21-Aug-2023 11:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 25-Aug-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3H16010	WorkOrder:HS23081141
Sample ID:	3H16010-04	Lab ID:HS23081141-04
Collection Date:	15-Aug-2023 13:31	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	2.50		1.00	ug/L	1	23-Aug-2023 12:46
Ethene	ND		1.00	ug/L	1	23-Aug-2023 12:46
Methane	563		10.0	ug/L	20	23-Aug-2023 13:19
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 22-Aug-2023 Analyst: MSC		
Iron	0.210		0.200	mg/L	1	23-Aug-2023 15:57
Manganese	0.0372		0.00500	mg/L	1	23-Aug-2023 15:57
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: DW		
Organic Carbon, Total	2.79		1.00	mg/L	1	21-Aug-2023 11:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 25-Aug-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3H16010	WorkOrder:HS23081141
Sample ID:	3H16010-05	Lab ID:HS23081141-05
Collection Date:	15-Aug-2023 14:25	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	22.6		1.00	ug/L	1	23-Aug-2023 12:55
Ethene	ND		1.00	ug/L	1	23-Aug-2023 12:55
Methane	3,780		100	ug/L	200	23-Aug-2023 14:13
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 22-Aug-2023 Analyst: MSC		
Iron	ND		0.200	mg/L	1	23-Aug-2023 15:59
Manganese	0.192		0.00500	mg/L	1	23-Aug-2023 15:59
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: DW		
Organic Carbon, Total	6.14		1.00	mg/L	1	21-Aug-2023 11:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 25-Aug-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3H16010	WorkOrder:HS23081141
Sample ID:	3H16010-06	Lab ID:HS23081141-06
Collection Date:	15-Aug-2023 15:25	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	19.2		1.00	ug/L	1	23-Aug-2023 13:10
Ethene	ND		1.00	ug/L	1	23-Aug-2023 13:10
Methane	4,100		100	ug/L	200	23-Aug-2023 14:27
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 22-Aug-2023 Analyst: MSC		
Iron	ND		0.200	mg/L	1	23-Aug-2023 16:01
Manganese	0.135		0.00500	mg/L	1	23-Aug-2023 16:01
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: DW		
Organic Carbon, Total	10.8		1.00	mg/L	1	21-Aug-2023 11:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 3H16010
WorkOrder: HS23081141

Batch ID: 199325	Start Date: 22 Aug 2023 12:00	End Date: 22 Aug 2023 12:00
Method: DISS METALS PREP - WATER - SW3010A	Prep Code: 3010A DISS	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23081141-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23081141-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23081141-03		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23081141-04		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23081141-05		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23081141-06		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US

Date: 25-Aug-23

Client: Permian Basin Environmental Lab, LP
Project: 3H16010
WorkOrder: HS23081141

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 199325 (0)		Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water	
HS23081141-01	3H16010-01	15 Aug 2023 10:55		22 Aug 2023 12:00	24 Aug 2023 14:27	1
HS23081141-01	3H16010-01	15 Aug 2023 10:55		22 Aug 2023 12:00	23 Aug 2023 15:15	1
HS23081141-02	3H16010-02	15 Aug 2023 11:30		22 Aug 2023 12:00	23 Aug 2023 15:30	1
HS23081141-03	3H16010-03	15 Aug 2023 12:45		22 Aug 2023 12:00	23 Aug 2023 15:55	1
HS23081141-04	3H16010-04	15 Aug 2023 13:31		22 Aug 2023 12:00	23 Aug 2023 15:57	1
HS23081141-05	3H16010-05	15 Aug 2023 14:25		22 Aug 2023 12:00	23 Aug 2023 15:59	1
HS23081141-06	3H16010-06	15 Aug 2023 15:25		22 Aug 2023 12:00	23 Aug 2023 16:01	1
Batch ID: R444460 (0)		Test Name : TOTAL ORGANIC CARBON BY E415.1			Matrix: Water	
HS23081141-01	3H16010-01	15 Aug 2023 10:55			21 Aug 2023 10:26	1
HS23081141-02	3H16010-02	15 Aug 2023 11:30			21 Aug 2023 10:57	1
HS23081141-03	3H16010-03	15 Aug 2023 12:45			21 Aug 2023 11:13	1
HS23081141-04	3H16010-04	15 Aug 2023 13:31			21 Aug 2023 11:28	1
HS23081141-05	3H16010-05	15 Aug 2023 14:25			21 Aug 2023 11:43	1
HS23081141-06	3H16010-06	15 Aug 2023 15:25			21 Aug 2023 11:59	1
Batch ID: R444716 (0)		Test Name : DISSOLVED GASES BY RSK-175			Matrix: Water	
HS23081141-01	3H16010-01	15 Aug 2023 10:55			23 Aug 2023 12:08	1
HS23081141-02	3H16010-02	15 Aug 2023 11:30			23 Aug 2023 12:20	1
HS23081141-03	3H16010-03	15 Aug 2023 12:45			23 Aug 2023 12:36	1
HS23081141-04	3H16010-04	15 Aug 2023 13:31			23 Aug 2023 13:19	20
HS23081141-04	3H16010-04	15 Aug 2023 13:31			23 Aug 2023 12:46	1
HS23081141-05	3H16010-05	15 Aug 2023 14:25			23 Aug 2023 14:13	200
HS23081141-05	3H16010-05	15 Aug 2023 14:25			23 Aug 2023 12:55	1
HS23081141-06	3H16010-06	15 Aug 2023 15:25			23 Aug 2023 14:27	200
HS23081141-06	3H16010-06	15 Aug 2023 15:25			23 Aug 2023 13:10	1

ALS Houston, US

Date: 25-Aug-23

Client: Permian Basin Environmental Lab, LP
Project: 3H16010
WorkOrder: HS23081141

QC BATCH REPORT

Batch ID: R444716 (0)		Instrument: FID-4		Method: DISSOLVED GASES BY RSK-175					
MBLK	Sample ID: MBLK-230823	Units: ug/L		Analysis Date: 23-Aug-2023 09:09					
Client ID:	Run ID: FID-4_444716		SeqNo: 7507091		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ethane	ND	1.00							
Ethene	ND	1.00							
Methane	ND	0.500							

LCS	Sample ID: LCS-230823	Units: ug/L		Analysis Date: 23-Aug-2023 09:32					
Client ID:	Run ID: FID-4_444716		SeqNo: 7507092		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	21.22	1.00	18.04	0	118	75 - 125			
Ethene	18.5	1.00	16.8	0	110	75 - 125			
Methane	8.334	0.500	9.647	0	86.4	75 - 125			

LCSD	Sample ID: LCSD-230823	Units: ug/L		Analysis Date: 23-Aug-2023 09:42					
Client ID:	Run ID: FID-4_444716		SeqNo: 7507093		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	20.94	1.00	18.04	0	116	75 - 125	21.22	1.33	30
Ethene	18.59	1.00	16.8	0	111	75 - 125	18.5	0.451	30
Methane	8.291	0.500	9.647	0	85.9	75 - 125	8.334	0.518	30

DUP	Sample ID: HS23081034-01DUP	Units: ug/L		Analysis Date: 23-Aug-2023 11:04					
Client ID:	Run ID: FID-4_444716		SeqNo: 7507099		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	ND	1.00					0.5532	0	30
Ethene	1.263	1.00					1.279	1.21	30
Methane	12.66	0.500					12.63	0.219	30

The following samples were analyzed in this batch:

HS23081141-01	HS23081141-02	HS23081141-03	HS23081141-04
HS23081141-05	HS23081141-06		

ALS Houston, US

Date: 25-Aug-23

Client: Permian Basin Environmental Lab, LP
Project: 3H16010
WorkOrder: HS23081141

QC BATCH REPORT

Batch ID: 199325 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK	Sample ID: MBLK-199325	Units: mg/L		Analysis Date: 24-Aug-2023 13:19					
Client ID:	Run ID: ICPMS07_444745	SeqNo: 7508029		PrepDate: 22-Aug-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron ND 0.200

Manganese ND 0.00500

LCS	Sample ID: LCS-199325	Units: mg/L		Analysis Date: 23-Aug-2023 15:13					
Client ID:	Run ID: ICPMS07_444623	SeqNo: 7506056		PrepDate: 22-Aug-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron 5.524 0.200 5 0 110 80 - 120

Manganese 0.0564 0.00500 0.05 0 113 80 - 120

MS	Sample ID: HS23081141-01MS	Units: mg/L		Analysis Date: 23-Aug-2023 15:19					
Client ID: 3H16010-01	Run ID: ICPMS07_444623	SeqNo: 7506059		PrepDate: 22-Aug-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron 5.325 0.200 5 0.003507 106 75 - 125

Manganese 0.05695 0.00500 0.05 0.003532 107 75 - 125

MSD	Sample ID: HS23081141-01MSD	Units: mg/L		Analysis Date: 23-Aug-2023 15:21					
Client ID: 3H16010-01	Run ID: ICPMS07_444623	SeqNo: 7506060		PrepDate: 22-Aug-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron 5.295 0.200 5 0.003507 106 75 - 125 5.325 0.571 20

Manganese 0.05724 0.00500 0.05 0.003532 107 75 - 125 0.05695 0.499 20

PDS	Sample ID: HS23081141-01PDS	Units: mg/L		Analysis Date: 23-Aug-2023 15:24					
Client ID: 3H16010-01	Run ID: ICPMS07_444623	SeqNo: 7506061		PrepDate: 22-Aug-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron 10.91 0.200 10 0.003507 109 75 - 125

Manganese 0.1125 0.00500 0.1 0.003532 109 75 - 125

ALS Houston, US

Date: 25-Aug-23

Client: Permian Basin Environmental Lab, LP
Project: 3H16010
WorkOrder: HS23081141

QC BATCH REPORT

Batch ID: 199325 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)						
SD	Sample ID: HS23081141-01	SD	Units: mg/L		Analysis Date: 23-Aug-2023 15:17					
Client ID: 3H16010-01	Run ID: ICPMS07_444623		SeqNo: 7506058		PrepDate: 22-Aug-2023		DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Iron	ND	1.00					0.003507	0	10	
Manganese	0.00425	0.0250					0.003532	0	10	J
The following samples were analyzed in this batch:			HS23081141-01		HS23081141-02		HS23081141-03		HS23081141-04	
			HS23081141-05		HS23081141-06					

ALS Houston, US

Date: 25-Aug-23

Client: Permian Basin Environmental Lab, LP
Project: 3H16010
WorkOrder: HS23081141

QC BATCH REPORT

Batch ID: R444460 (0)		Instrument: TOC_05		Method: TOTAL ORGANIC CARBON BY E415.1					
MBLK	Sample ID: MBLK-08212023	Units: mg/L		Analysis Date: 21-Aug-2023 09:39					
Client ID:	Run ID: TOC_05_444460	SeqNo: 7501440		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	ND	1.00							
LCS	Sample ID: LCS-08212023	Units: mg/L		Analysis Date: 21-Aug-2023 09:55					
Client ID:	Run ID: TOC_05_444460	SeqNo: 7501441		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	9.652	1.00	10	0	96.5	85 - 115			
LCSD	Sample ID: LCSD-08212023	Units: mg/L		Analysis Date: 21-Aug-2023 10:11					
Client ID:	Run ID: TOC_05_444460	SeqNo: 7501442		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	9.787	1.00	10	0	97.9	85 - 115	9.652	1.39	20
MS	Sample ID: HS23081141-01MS	Units: mg/L		Analysis Date: 21-Aug-2023 10:42					
Client ID: 3H16010-01	Run ID: TOC_05_444460	SeqNo: 7501444		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	11.21	1.00	10	1.091	101	80 - 120			
The following samples were analyzed in this batch:									
HS23081141-01		HS23081141-02		HS23081141-03		HS23081141-04			
HS23081141-05		HS23081141-06							

ALS Houston, US

Date: 25-Aug-23

Client: Permian Basin Environmental Lab, LP
Project: 3H16010
WorkOrder: HS23081141

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

ALS Houston, US

Date: 25-Aug-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

Date: 25-Aug-23

Sample Receipt Checklist

Work Order ID: HS23081141

Date/Time Received: 18-Aug-2023 09:50

Client Name: Permian Basin Lab

Received by: Malcolm Burleson

Completed By: /S/ Malcolm Burleson	18-Aug-2023 14:32	Reviewed by: /S/ Anna Kinchen	23-Aug-2023 09:46
eSignature	Date/Time	eSignature	Date/Time

Matrices: waterCarrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Samplers name present on COC?	Yes ☐	No ☒	
Chain of custody agrees with sample labels?	Yes ☐	No ☒	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):

1.1uc 1.0c | ir31

Cooler(s)/Kit(s):

m. red

Date/Time sample(s) sent to storage:

08182023

Water - VOA vials have zero headspace?

Yes ☒ No ☐ No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☒ No ☐ N/A ☐

pH adjusted?

Yes ☐ No ☒ N/A ☐

pH adjusted by:

Login Notes: Sample Label time differ 3h16010-05 COC label
1425 1428

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

PBELAB**CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**

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

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent BarronCompany Name: PBELCompany Address: 1400 Rankin HWYCity/State/Zip: Midland Texas 79701Telephone No: 432-661-4184Sampler Signature: N/A**HS23081141**

Permian Basin Environmental Lab, LP
3H16010

e-mail: brentbarron@pbelab.comProject Name: SUBCONTRACT

Project #: _____

Project Loc: _____

PO #: _____

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

ORDER #:												Preservation & # of Containers		Matrix											24 HOUR	STANDARD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	ICE	HNO ₃ 250 poly 1	HCl 3 40mL VOA	H ₂ SO ₄ 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	Na ₂ S ₂ O ₃	500 ML AMBER UNPRESERVED	NONE	DW=Drinking Water SI=Sludge GW = Groundwater S=Soil/Solid NP=Non-Portable Specify Other	TOC-415.1	RSK SOP--175	Fe, Mn Diss ICP-MS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</

SPECIAL INSTRUCTIONS:Relinquished by:
Brent BarronDate
8/16/23 Time
17:00

Received by:

Received by:

Relinquished by:

Date
Time

Received by:

Relinquished by:

Date
Time

Received by:

M. R. 20

1231

1.142

-0.112

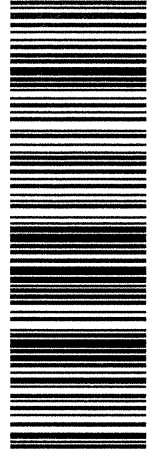
08/17/2023
0950Date
TimeDate
TimeDate
Time**Laboratory Comments:**

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

ORIGIN ID#45A (432) 866-7235	SHIP DATE: 18AUG23
BRENT BARON	ACTWGT: 36.00 LB
PBE LAB	CAO: 10738946NET4535
1400 BARKIN HWY	DMS: 15x17x9 IN
MIDLAND, TX 79701	BILL RECIPIENT
UNITED STATES US	
TO SAMPLE RECEIVING	
ALS-HOUSTON	
10450 STANCLIFF RD	
HOUSTON TX 77099	
(281) 530-5615	REF:
TX	DEPT:
583J57584/SAE3	



TRK# 7730 7290 2755	THU - 17 AUG 5:00P
12267	STANDARD OVERNIGHT
XA SGRA	77099
TX-US	IAH



M. Red
AUG 17 2023

After printing this label:
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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: 98-05
Project Number: TNM 98-05
Location: Lea County, NM
Lab Order Number: 3H16011



Current Certification

Report Date: 08/24/23

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	3H16011-01	Water	08/15/23 16:05	08-16-2023 09:00
MW-2	3H16011-02	Water	08/15/23 16:20	08-16-2023 09:00

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

MW-1
3H16011-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	0.0104	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 16:28	EPA 8021B	
Toluene	0.00521	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 16:28	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 16:28	EPA 8021B	
Xylene (p/m)	0.0138	0.00200	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 16:28	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 16:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	98.6 %		80-120		P3H1802	08/18/23 11:12	08/18/23 16:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P3H1802	08/18/23 11:12	08/18/23 16:28	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

MW-2
3H16011-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	0.171	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 16:50	EPA 8021B	
Toluene	0.0447	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 16:50	EPA 8021B	
Ethylbenzene	0.316	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 16:50	EPA 8021B	
Xylene (p/m)	0.699	0.00200	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 16:50	EPA 8021B	
Xylene (o)	0.264	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/18/23 16:50	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	120 %	80-120			P3H1802	08/18/23 11:12	08/18/23 16:50	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %	80-120			P3H1802	08/18/23 11:12	08/18/23 16:50	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3H1802 - *** DEFAULT PREP ***

Blank (P3H1802-BLK1)			Prepared & Analyzed: 08/18/23							
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		104	80-120			

LCS (P3H1802-BS1)			Prepared & Analyzed: 08/18/23							
Benzene	0.0890	0.00100	mg/L	0.100		89.0	80-120			
Toluene	0.0867	0.00100	"	0.100		86.7	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.3	80-120			
Xylene (o)	0.0923	0.00100	"	0.100		92.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		107	80-120			

LCS Dup (P3H1802-BSD1)			Prepared & Analyzed: 08/18/23							
Benzene	0.0908	0.00100	mg/L	0.100		90.8	80-120	2.07	20	
Toluene	0.0886	0.00100	"	0.100		88.6	80-120	2.11	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120	3.02	20	
Xylene (p/m)	0.203	0.00200	"	0.200		101	80-120	1.97	20	
Xylene (o)	0.0944	0.00100	"	0.100		94.4	80-120	2.28	20	
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		93.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	80-120			

Calibration Blank (P3H1802-CCB1)			Prepared & Analyzed: 08/18/23							
Benzene	0.200		ug/l							
Toluene	0.310		"							
Ethylbenzene	0.480		"							
Xylene (p/m)	1.07		"							
Xylene (o)	0.640		"							
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05
Project Number: TNM 98-05
Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3H1802 - * DEFAULT PREP *****

Calibration Blank (P3H1802-CCB2)

Prepared: 08/18/23 Analyzed: 08/21/23

Benzene	0.280		ug/l							
Toluene	0.380		"							
Ethylbenzene	0.700		"							
Xylene (p/m)	1.42		"							
Xylene (o)	0.780		"							
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		104	80-120			

Calibration Check (P3H1802-CCV1)

Prepared & Analyzed: 08/18/23

Benzene	0.0886	0.00100	mg/L	0.100		88.6	80-120			
Toluene	0.0852	0.00100	"	0.100		85.2	80-120			
Ethylbenzene	0.0943	0.00100	"	0.100		94.3	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.6	80-120			
Xylene (o)	0.0941	0.00100	"	0.100		94.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.0980		"	0.120		81.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	80-120			

Calibration Check (P3H1802-CCV2)

Prepared: 08/18/23 Analyzed: 08/21/23

Benzene	0.0929	0.00100	mg/L	0.100		92.9	80-120			
Toluene	0.0979	0.00100	"	0.100		97.9	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.228	0.00200	"	0.200		114	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	80-120			

Calibration Check (P3H1802-CCV3)

Prepared: 08/18/23 Analyzed: 08/21/23

Benzene	0.0888	0.00100	mg/L	0.100		88.8	80-120			
Toluene	0.0881	0.00100	"	0.100		88.1	80-120			
Ethylbenzene	0.0986	0.00100	"	0.100		98.6	80-120			
Xylene (p/m)	0.203	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0998	0.00100	"	0.100		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05
10 Desta Dr STE 150E	Project Number: TNM 98-05
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3H1802 - *** DEFAULT PREP ***

Matrix Spike (P3H1802-MS1)	Source: 3H16010-01			Prepared: 08/18/23		Analyzed: 08/21/23				
Benzene	0.0924	0.00100	mg/L	0.100	ND	92.4	80-120			
Toluene	0.0814	0.00100	"	0.100	ND	81.4	80-120			
Ethylbenzene	0.0925	0.00100	"	0.100	ND	92.5	80-120			
Xylene (p/m)	0.180	0.00200	"	0.200	ND	89.9	80-120			
Xylene (o)	0.0883	0.00100	"	0.100	ND	88.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.0984		"	0.120		82.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	80-120			

Matrix Spike Dup (P3H1802-MSD1)	Source: 3H16010-01			Prepared: 08/18/23		Analyzed: 08/21/23				
Benzene	0.0936	0.00100	mg/L	0.100	ND	93.6	80-120	1.28	20	
Toluene	0.0870	0.00100	"	0.100	ND	87.0	80-120	6.66	20	
Ethylbenzene	0.100	0.00100	"	0.100	ND	100	80-120	7.92	20	
Xylene (p/m)	0.196	0.00200	"	0.200	ND	98.2	80-120	8.89	20	
Xylene (o)	0.0942	0.00100	"	0.100	ND	94.2	80-120	6.46	20	
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108	80-120			

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05
Project Number: TNM 98-05
Project Manager: Curt Stanley

Notes and Definitions

ROI Received on Ice

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: _____



Date: 8/24/2023

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

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

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Location: Lea County, NM
Lab Order Number: 3K17006



Current Certification

Report Date: 12/18/23

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3	3K17006-01	Water	11/16/23 10:35	11-17-2023 09:00
MW-5	3K17006-02	Water	11/16/23 11:42	11-17-2023 09:00
MW-6	3K17006-03	Water	11/16/23 12:38	11-17-2023 09:00
MW-12	3K17006-04	Water	11/16/23 13:47	11-17-2023 09:00
MW-10	3K17006-05	Water	11/16/23 14:55	11-17-2023 09:00
MW-13	3K17006-06	Water	11/16/23 16:12	11-17-2023 09:00

Due to an autosampler failure on our water Ion Chromatograph we were unable to process Sulfate and Nitrate samples the time of the failure the analysts had made fresh standards specifically for this analysis. The samples and the standard were stored at the same location. Upon receipt of a new autosampler and verifying the calibration the samples were processed using the same standard that the samples had been stored with and QC passed. Additionally, Historical data has been reviewed and these results were compared to the current samples. There were very few, if any, statistical anomalies.

Dissolved Metals, Dissolved Gases and TOC analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:

https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

MW-3
3K17006-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 06:52	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 06:52	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:52	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:52	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:52	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:52	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	91.5 %		80-120		P3K2013	11/20/23 08:47	11/21/23 06:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	90.9 %		80-120		P3K2013	11/20/23 08:47	11/21/23 06:52	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 07:51	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 07:51	8015M	SUB-13
Methane	0.00174	0.000500	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 07:51	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	6.00	2.00	mg/L	1	P3L0101	12/01/23 08:45	12/04/23 13:17	8000	
Nitrate as N	0.850	0.200	mg/L	1	P3K1704	12/14/23 15:45	12/15/23 03:45	EPA 300.0	O-05
Sulfate	175	10.0	mg/L	10	P3K1704	12/14/23 15:45	12/15/23 00:32	EPA 300.0	O-05
Total Organic Carbon	ND	1.00	mg/L	1	P3L0510	12/05/23 15:34	12/05/23 15:34	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3L0510	11/21/23 15:00	11/21/23 21:14	EPA 6020A	SUB-13
Manganese	1.74	0.00500	mg/L	1	P3L0510	11/21/23 15:00	11/21/23 21:14	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-5
3K17006-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 07:15	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 07:15	EPA 8021B	

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 07:15	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 07:15	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 07:15	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 07:15	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 07:15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	90.5 %		80-120		P3K2013	11/20/23 08:47	11/21/23 07:15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	90.9 %		80-120		P3K2013	11/20/23 08:47	11/21/23 07:15	EPA 8021B	
Ethane	0.00187	0.00100	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 07:51	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 07:51	8015M	SUB-13
Methane	0.00180	0.000500	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 07:51	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods									
Chemical Oxygen Demand	15.0	2.00	mg/L	1	P3L0101	12/01/23 08:45	12/04/23 13:17	8000	
Nitrate as N	0.783	0.200	mg/L	1	P3K1704	12/14/23 15:45	12/15/23 04:49	EPA 300.0	O-05
Sulfate	190	10.0	mg/L	10	P3K1704	12/14/23 15:45	12/15/23 01:37	EPA 300.0	O-05
Total Organic Carbon	ND	1.00	mg/L	1	P3L0510	12/05/23 15:34	12/05/23 15:34	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods									
Iron	ND	0.200	mg/L	1	P3L0510	11/21/23 15:00	11/21/23 21:16	EPA 6020A	SUB-13
Manganese	0.00722	0.00500	mg/L	1	P3L0510	11/21/23 15:00	11/21/23 21:16	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-6
3K17006-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 07:38	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 07:38	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 07:38	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 07:38	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 07:38	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 07:38	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 07:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	89.7 %		80-120		P3K2013	11/20/23 08:47	11/21/23 07:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	91.9 %		80-120		P3K2013	11/20/23 08:47	11/21/23 07:38	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 07:51	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 07:51	8015M	SUB-13
Methane	0.0130	0.000500	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 07:51	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	8.00	2.00	mg/L	1	P3L0101	12/01/23 08:45	12/04/23 13:17	8000	
Nitrate as N	9.40	0.200	mg/L	1	P3K1704	12/14/23 15:45	12/15/23 05:11	EPA 300.0	O-05
Sulfate	166	10.0	mg/L	10	P3K1704	12/14/23 15:45	12/15/23 01:58	EPA 300.0	O-05
Total Organic Carbon	2.75	1.00	mg/L	1	P3L0510	12/05/23 15:34	12/05/23 15:34	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3L0510	11/21/23 15:00	11/21/23 21:18	EPA 6020A	SUB-13
Manganese	0.0154	0.00500	mg/L	1	P3L0510	11/21/23 15:00	11/21/23 21:18	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-12
3K17006-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 08:01	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 08:01	EPA 8021B	

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 08:01	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 08:01	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 08:01	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 08:01	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 08:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.5 %		80-120		P3K2013	11/20/23 08:47	11/21/23 08:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	91.1 %		80-120		P3K2013	11/20/23 08:47	11/21/23 08:01	EPA 8021B	
Ethane	0.00452	0.00100	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 07:51	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 07:51	8015M	SUB-13
Methane	0.391	0.0100	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 09:14	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods									
Chemical Oxygen Demand	ND	2.00	mg/L	1	P3L0101	12/01/23 08:45	12/04/23 13:17	8000	
Nitrate as N	0.272	0.200	mg/L	1	P3K1704	12/14/23 15:45	12/15/23 05:32	EPA 300.0	O-05
Sulfate	149	10.0	mg/L	10	P3K1704	12/14/23 15:45	12/15/23 02:19	EPA 300.0	O-05
Total Organic Carbon	1.75	1.00	mg/L	1	P3L0510	12/05/23 15:34	12/05/23 15:34	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods									
Iron	0.213	0.200	mg/L	1	P3L0510	11/21/23 15:00	11/21/23 21:21	EPA 6020A	SUB-13
Manganese	0.0456	0.00500	mg/L	1	P3L0510	11/21/23 15:00	11/21/23 21:21	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

MW-10
3K17006-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	0.0302	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 08:24	EPA 8021B	
Xylenes (total)	0.00537	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 08:24	EPA 8021B	

Organics by GC

Benzene	0.0213	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 08:24	EPA 8021B	
Toluene	0.00203	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 08:24	EPA 8021B	
Ethylbenzene	0.00154	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 08:24	EPA 8021B	
Xylene (p/m)	0.00417	0.00200	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 08:24	EPA 8021B	
Xylene (o)	0.00120	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 08:24	EPA 8021B	

Surrogate: 4-Bromofluorobenzene	88.6 %	80-120		P3K2013	11/20/23 08:47	11/21/23 08:24	EPA 8021B		
Surrogate: 1,4-Difluorobenzene	89.1 %	80-120		P3K2013	11/20/23 08:47	11/21/23 08:24	EPA 8021B		
Ethane	0.0149	0.00100	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 07:51	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 07:51	8015M	SUB-13
Methane	1.38	0.0250	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 09:34	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	34.0	4.00	mg/L	1	P3L0101	12/01/23 08:45	12/04/23 13:17	8000	
Nitrate as N	0.289	0.200	mg/L	1	P3K1704	12/14/23 15:45	12/15/23 05:53	EPA 300.0	O-05
Sulfate	63.6	10.0	mg/L	10	P3K1704	12/14/23 15:45	12/15/23 02:41	EPA 300.0	O-05
Total Organic Carbon	4.74	1.00	mg/L	1	P3L0510	12/05/23 15:34	12/05/23 15:34	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3L0510	11/21/23 15:00	11/21/23 21:33	EPA 6020A	SUB-13
Manganese	0.184	0.00500	mg/L	1	P3L0510	11/21/23 15:00	11/21/23 21:33	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

MW-10
3K17006-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

PAH compounds by Semivolatile GCMS

1-Methylnaphthalene	0.0049	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
2-Methylnaphthalene	0.0016	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Acenaphthene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Acenaphthylene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Anthracene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Benzo (a) anthracene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Benzo (a) pyrene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Benzo (b) fluoranthene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Benzo (g,h,i) perylene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Benzo (k) fluoranthene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Chrysene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Dibenzo (a,h) anthracene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Dibenzofuran	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Fluoranthene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Fluorene	0.0018	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Indeno (1,2,3-cd) pyrene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Naphthalene	0.0025	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Phenanthrene	0.00098	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13
Pyrene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:39	8270C	SUB-13

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-13
3K17006-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	3.02	0.00100	mg/L	10	[CALC]	11/20/23 08:47	11/21/23 14:49	EPA 8021B	
Xylenes (total)	0.0221	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 08:47	EPA 8021B	

Organics by GC

Benzene	2.97	0.0100	mg/L	10	P3K2013	11/20/23 08:47	11/21/23 14:49	EPA 8021B	
Toluene	0.00253	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 08:47	EPA 8021B	
Ethylbenzene	0.0269	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 08:47	EPA 8021B	
Xylene (p/m)	0.0158	0.00200	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 08:47	EPA 8021B	
Xylene (o)	0.00631	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 08:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	91.4 %	80-120			P3K2013	11/20/23 08:47	11/21/23 08:47	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.3 %	80-120			P3K2013	11/20/23 08:47	11/21/23 08:47	EPA 8021B	
Ethane	ND	0.100	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 09:44	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 08:34	8015M	SUB-13
Methane	2.78	0.0500	mg/L	1	P3L0510	11/22/23 07:51	11/22/23 09:34	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Chemical Oxygen Demand	20.0	2.00	mg/L	1	P3L0101	12/01/23 08:45	12/04/23 13:17	8000	
Nitrate as N	0.242	0.200	mg/L	1	P3K1704	12/14/23 15:45	12/15/23 06:15	EPA 300.0	O-05
Sulfate	36.8	10.0	mg/L	10	P3K1704	12/14/23 15:45	12/15/23 03:02	EPA 300.0	O-05
Total Organic Carbon	8.78	1.00	mg/L	1	P3L0510	12/05/23 15:34	12/05/23 15:34	EPA 415.1	SUB-13

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3L0510	11/21/23 15:00	11/21/23 21:26	EPA 6020A	SUB-13
Manganese	0.127	0.00500	mg/L	1	P3L0510	11/21/23 15:00	11/21/23 21:26	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

MW-13
3K17006-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

PAH compounds by Semivolatiles GCMS

1-Methylnaphthalene	0.0081	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
2-Methylnaphthalene	0.0045	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Acenaphthene	0.00022	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Acenaphthylene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Anthracene	0.00059	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Benzo (a) anthracene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Benzo (a) pyrene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Benzo (b) fluoranthene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Benzo (g,h,i) perylene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Benzo (k) fluoranthene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Chrysene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Dibenzo (a,h) anthracene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Dibenzofuran	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Fluoranthene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Fluorene	0.0014	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Indeno (1,2,3-cd) pyrene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 13:58	8270C	SUB-13
Naphthalene	0.017	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 13:58	8270C	SUB-13
Phenanthrene	0.00052	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13
Pyrene	ND	0.00010	mg/L	1	P3L0510	11/21/23 15:00	11/22/23 12:59	8270C	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3K2013 - * DEFAULT PREP *****

Blank (P3K2013-BLK1)

Prepared: 11/20/23 Analyzed: 11/21/23

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.7	80-120			

LCS (P3K2013-BS1)

Prepared & Analyzed: 11/20/23

Benzene	0.104	0.00100	mg/L	0.100		104	80-120			
Toluene	0.0990	0.00100	"	0.100		99.0	80-120			
Ethylbenzene	0.0979	0.00100	"	0.100		97.9	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.5	80-120			
Xylene (o)	0.0890	0.00100	"	0.100		89.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.1	80-120			

LCS Dup (P3K2013-BSD1)

Prepared: 11/20/23 Analyzed: 11/21/23

Benzene	0.0980	0.00100	mg/L	0.100		98.0	80-120	6.28	20	
Toluene	0.0935	0.00100	"	0.100		93.5	80-120	5.77	20	
Ethylbenzene	0.0917	0.00100	"	0.100		91.7	80-120	6.55	20	
Xylene (p/m)	0.182	0.00200	"	0.200		90.8	80-120	6.06	20	
Xylene (o)	0.0843	0.00100	"	0.100		84.3	80-120	5.48	20	
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.2	80-120			

Calibration Blank (P3K2013-CCB1)

Prepared & Analyzed: 11/20/23

Benzene	0.110		ug/l							
Toluene	0.120		"							
Ethylbenzene	0.130		"							
Xylene (p/m)	0.240		"							
Xylene (o)	0.130		"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.5	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3K2013 - *** DEFAULT PREP ***

Calibration Blank (P3K2013-CCB2)				Prepared: 11/20/23 Analyzed: 11/21/23						
Benzene	0.0900		ug/l							
Toluene	0.130		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.180		"							
Xylene (o)	0.110		"							
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.2	80-120			
Calibration Blank (P3K2013-CCB3)				Prepared: 11/20/23 Analyzed: 11/21/23						
Benzene	0.590		ug/l							
Toluene	0.390		"							
Ethylbenzene	0.400		"							
Xylene (p/m)	0.920		"							
Xylene (o)	0.320		"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.9	80-120			
Calibration Check (P3K2013-CCV1)				Prepared & Analyzed: 11/20/23						
Benzene	0.106	0.00100	mg/L	0.100		106	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.0947	0.00100	"	0.100		94.7	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		97.9	80-120			
Xylene (o)	0.0923	0.00100	"	0.100		92.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.0	80-120			
Calibration Check (P3K2013-CCV2)				Prepared: 11/20/23 Analyzed: 11/21/23						
Benzene	0.102	0.00100	mg/L	0.100		102	80-120			
Toluene	0.0962	0.00100	"	0.100		96.2	80-120			
Ethylbenzene	0.0902	0.00100	"	0.100		90.2	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.6	80-120			
Xylene (o)	0.0882	0.00100	"	0.100		88.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.4	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3K2013 - *** DEFAULT PREP ***

Calibration Check (P3K2013-CCV3)				Prepared: 11/20/23 Analyzed: 11/21/23						
Benzene	0.110	0.00100	mg/L	0.100		110	80-120			
Toluene	0.0972	0.00100	"	0.100		97.2	80-120			
Ethylbenzene	0.0862	0.00100	"	0.100		86.2	80-120			
Xylene (p/m)	0.176	0.00200	"	0.200		87.9	80-120			
Xylene (o)	0.0819	0.00100	"	0.100		81.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.4	80-120			

Matrix Spike (P3K2013-MS1)				Source: 3K17001-01		Prepared: 11/20/23 Analyzed: 11/21/23				
Benzene	0.0950	0.0100	mg/L	0.100	ND	95.0	80-120			
Toluene	0.101	0.0100	"	0.100	ND	101	80-120			
Ethylbenzene	0.0972	0.0100	"	0.100	ND	97.2	80-120			
Xylene (p/m)	0.178	0.0200	"	0.200	ND	89.2	80-120			
Xylene (o)	0.0927	0.0100	"	0.100	ND	92.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.3	80-120			

Matrix Spike Dup (P3K2013-MSD1)				Source: 3K17001-01		Prepared: 11/20/23 Analyzed: 11/21/23				
Benzene	0.0982	0.00100	mg/L	0.100	ND	98.2	80-120	3.31	20	
Toluene	0.0927	0.00100	"	0.100	ND	92.7	80-120	8.27	20	
Ethylbenzene	0.0921	0.00100	"	0.100	ND	92.1	80-120	5.42	20	
Xylene (p/m)	0.176	0.00200	"	0.200	ND	88.1	80-120	1.16	20	
Xylene (o)	0.0810	0.00100	"	0.100	ND	81.0	80-120	13.4	20	
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.1	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3K1704 - *** DEFAULT PREP ***										
Blank (P3K1704-BLK1)				Prepared: 12/14/23 Analyzed: 12/15/23						
Nitrate as N	ND	0.200	mg/L							
Sulfate	ND	1.00	"							
LCS (P3K1704-BS1)				Prepared & Analyzed: 12/14/23						
Nitrate as N	10.4		mg/L	10.0		104	90-110			
Sulfate	10.1		"	10.0		101	90-110			
LCS Dup (P3K1704-BSD1)				Prepared & Analyzed: 12/14/23						
Sulfate	10.5		mg/L	10.0		105	90-110	3.41	10	
Nitrate as N	10.5		"	10.0		105	90-110	1.63	10	
Calibration Check (P3K1704-CCV1)				Prepared & Analyzed: 12/14/23						
Nitrate as N	10.6		mg/L	10.0		106	90-110			
Sulfate	10.5		"	9.00		116	90-110			
Calibration Check (P3K1704-CCV2)				Prepared: 12/14/23 Analyzed: 12/15/23						
Nitrate as N	10.5		mg/L	10.0		105	90-110			
Sulfate	10.8		"	9.00		120	90-110			
Matrix Spike (P3K1704-MS1)		Source: 3K17006-01		Prepared: 12/14/23 Analyzed: 12/15/23						
Sulfate	27.2		mg/L	10.0	17.5	97.4	80-120			
Matrix Spike (P3K1704-MS2)		Source: 3K17006-01		Prepared: 12/14/23 Analyzed: 12/15/23						
Nitrate as N	11.6		mg/L	10.0	0.850	108	80-120			
Matrix Spike Dup (P3K1704-MSD1)		Source: 3K17006-01		Prepared: 12/14/23 Analyzed: 12/15/23						
Sulfate	28.3		mg/L	10.0	17.5	109	80-120	4.07	20	

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3K1704 - *** DEFAULT PREP ***										
Matrix Spike Dup (P3K1704-MSD2)		Source: 3K17006-01		Prepared: 12/14/23		Analyzed: 12/15/23				
Nitrate as N	11.5		mg/L	10.0	0.850	107	80-120	0.665	20	
Batch P3L0101 - *** DEFAULT PREP ***										
Blank (P3L0101-BLK1)				Prepared: 12/01/23		Analyzed: 12/04/23				
Chemical Oxygen Demand	ND	2.00	mg/L							
LCS (P3L0101-BS1)				Prepared: 12/01/23		Analyzed: 12/04/23				
Chemical Oxygen Demand	112	2.00	mg/L	100		112	80-120			
LCS Dup (P3L0101-BSD1)				Prepared: 12/01/23		Analyzed: 12/04/23				
Chemical Oxygen Demand	120	2.00	mg/L	100		120	80-120	6.90	20	
Duplicate (P3L0101-DUP1)		Source: 3K17006-01		Prepared: 12/01/23		Analyzed: 12/04/23				
Chemical Oxygen Demand	7.00	2.00	mg/L		6.00			15.4	20	
Duplicate (P3L0101-DUP2)		Source: 3K28007-05		Prepared: 12/01/23		Analyzed: 12/04/23				
Chemical Oxygen Demand	30.0	2.00	mg/L		89.0			99.2	20	R3
Matrix Spike (P3L0101-MS1)		Source: 3K17006-01		Prepared: 12/01/23		Analyzed: 12/04/23				
Chemical Oxygen Demand	118	2.00	mg/L	100	6.00	112	80-120			
Matrix Spike (P3L0101-MS2)		Source: 3K28007-05		Prepared: 12/01/23		Analyzed: 12/04/23				
Chemical Oxygen Demand	58.0	2.00	mg/L	100	89.0	NR	80-120			QM-05
Matrix Spike Dup (P3L0101-MSD1)		Source: 3K17006-01		Prepared: 12/01/23		Analyzed: 12/04/23				
Chemical Oxygen Demand	115	2.00	mg/L	100	6.00	109	80-120	2.58	20	

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A_MNA
10 Desta Dr STE 150E	Project Number: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3L0101 - *** DEFAULT PREP ***

Matrix Spike Dup (P3L0101-MSD2)	Source: 3K28007-05			Prepared: 12/01/23 Analyzed: 12/04/23						
Chemical Oxygen Demand	88.0	2.00	mg/L	100	89.0	NR	80-120	41.1	20	QM-05

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

Notes and Definitions

SUB-13 Subcontract of analyte/analysis to ALS Houston.

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

O-05 This sample was extracted outside of the EPA recommended holding time.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

12/18/2023

Brent Barron, Laboratory Director/Technical Director

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A_MNA
Project Number: TNM 98-05A
Project Manager: Curt Stanley

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

Permian Basin Environmental Lab, L.P.

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



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Manager: Curt Stanley

Project Name: 98-05A

Company Name: TRC Environmental Corporation

Project #: SRS: TNM 98-05A

Company Address: 10 Destia Drive, Ste 130E

Project Loc: Lea County, NM

City/State/Zip: Midland TX 79705

PO #:

Telephone No: (432) 520-7720

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: *[Signature]*

Fax No: e-mail: cdstanley@trccompanies.com

cjbryant@paalp.com
khuddgens@paalp.com
mgreen@trccompanies.com

ORDER #: 3K1700C

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers							Matrix	Analyze For:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
									Ice	HNO ₃ (field filtered - 250 ml)	HCl (40 ml VOA)	H ₂ SO ₄ (250 ml)	NaOH	Na ₂ S ₂ O ₃	None (40 ml Amber VOA)		Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TOC MW 5310	Dissolved Methane, Ethane, and Ethene by RSK-175	Total Dissolved Metals (Fe and Mn) by SW 6010	Nitrate and Sulfate by E300	COD by SM 5310	Total BTEX by 8260	pah BY 8270	RUSH TAT (Pre-Schedule) 24, 48,	Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Special Instructions:

BILL TO PLAINS

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: <i>Manny</i>	11-17-23	6905	Received by:		
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:			Received by: <i>Joe Mc</i>	11/17/23	9:00

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep.?	Y	N
by Courier? UPS DHL FedEx	Y	N
Temperature Upon Receipt: 5.8 °C		
Adjusted: 5.8 °C Factor		

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent BarronProject Name: SUBCONTRACTCompany Name: PBEL

Project #: _____

Company Address: 1400 Rankin HWY

Project Loc: _____

City/State/Zip: Midland Texas 79701

PO #: _____

Telephone No: 432-661-4184

Fax No: _____

Report Format: ☒ Standard ☐ TRRP ☐ NPDESSampler Signature: N/Ae-mail: brentbarron@pbelab.com

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Please run PAH in rush please because of holding time.

						Sample Containers Intact?			Y	N
						VOCs Free of Headspace?			Y	N
Relinquished by: Brent Barron	Date	Time	Received by:	Date	Time	Labels on container(s)			Y	N
						Custody seals on container(s)			Y	N
						Custody seals on cooler(s)			Y	N
Relinquished by:	Date	Time	Received by:	Date	Time	Sample Hand Delivered			Y	N
						by Sampler/Client Rep. ?			Y	N
						by Courier? UPS DHL FedEx Lone Star				
Relinquished by:	Date	Time	Received by:	Date	Time	Temperature Upon Receipt:				
						Received: °C				
						Adjusted: °C Factor				



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

November 22, 2023

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS23111375**

Laboratory Results for: **3K17006**

Dear Brent Barron,

ALS Environmental received 6 sample(s) on Nov 21, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

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

Generated By: JUMOKE.LAWAL
Anna Kinchen
Project Manager

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17006
Work Order: HS23111375

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23111375-01	3K17006-01	Water		16-Nov-2023 10:35	21-Nov-2023 08:09	☐
HS23111375-02	3K17006-02	Water		16-Nov-2023 11:42	21-Nov-2023 08:09	☐
HS23111375-03	3K17006-03	Water		16-Nov-2023 12:38	21-Nov-2023 08:09	☐
HS23111375-04	3K17006-04	Water		16-Nov-2023 13:47	21-Nov-2023 08:09	☐
HS23111375-05	3K17006-05	Water		16-Nov-2023 14:55	21-Nov-2023 08:09	☐
HS23111375-06	3K17006-06	Water		16-Nov-2023 16:12	21-Nov-2023 08:09	☐

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17006
Work Order: HS23111375

CASE NARRATIVE

GC Semivolatiles by Method RSK-175

Batch ID: R452495

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

GCMS Semivolatiles by Method SW8270

Batch ID: 203855

Sample ID: LCS-203855

- LCS contained double spike amount.

Sample ID: LCSD-203855

- LCSD contained double spike amount.

Metals by Method SW6020A

Batch ID: 203812

Sample ID: HS23111114-01MS

- MS and MSD are for an unrelated sample (Manganese)

WetChemistry by Method E415.1

Batch ID: R452484

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

ALS Houston, US

Date: 22-Nov-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3K17006	WorkOrder:HS23111375
Sample ID:	3K17006-01	Lab ID:HS23111375-01
Collection Date:	16-Nov-2023 10:35	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: E.H.		
Ethane	ND		1.00	ug/L	1	22-Nov-2023 07:51
Ethene	ND		1.00	ug/L	1	22-Nov-2023 07:51
Methane	1.74		0.500	ug/L	1	22-Nov-2023 07:51
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 21-Nov-2023 Analyst: MSC		
Iron	ND		0.200	mg/L	1	21-Nov-2023 21:14
Manganese	0.00586		0.00500	mg/L	1	21-Nov-2023 21:14
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: JAC		
Organic Carbon, Total	ND		1.00	mg/L	1	21-Nov-2023 16:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 22-Nov-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3K17006	WorkOrder:HS23111375
Sample ID:	3K17006-02	Lab ID:HS23111375-02
Collection Date:	16-Nov-2023 11:42	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: E.H.		
Ethane	1.87		1.00	ug/L	1	22-Nov-2023 08:00
Ethene	ND		1.00	ug/L	1	22-Nov-2023 08:00
Methane	1.80		0.500	ug/L	1	22-Nov-2023 08:00
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 21-Nov-2023 Analyst: MSC		
Iron	ND		0.200	mg/L	1	21-Nov-2023 21:16
Manganese	0.00722		0.00500	mg/L	1	21-Nov-2023 21:16
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: JAC		
Organic Carbon, Total	ND		1.00	mg/L	1	21-Nov-2023 16:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 22-Nov-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3K17006	WorkOrder:HS23111375
Sample ID:	3K17006-03	Lab ID:HS23111375-03
Collection Date:	16-Nov-2023 12:38	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: E.H.		
Ethane	ND		1.00	ug/L	1	22-Nov-2023 08:09
Ethene	ND		1.00	ug/L	1	22-Nov-2023 08:09
Methane	13.0		0.500	ug/L	1	22-Nov-2023 08:09
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 21-Nov-2023 Analyst: MSC		
Iron	ND		0.200	mg/L	1	21-Nov-2023 21:18
Manganese	0.0154		0.00500	mg/L	1	21-Nov-2023 21:18
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: JAC		
Organic Carbon, Total	2.75		1.00	mg/L	1	21-Nov-2023 16:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 22-Nov-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3K17006	WorkOrder:HS23111375
Sample ID:	3K17006-04	Lab ID:HS23111375-04
Collection Date:	16-Nov-2023 13:47	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: E.H.		
Ethane	4.52		1.00	ug/L	1	22-Nov-2023 08:20
Ethene	ND		1.00	ug/L	1	22-Nov-2023 08:20
Methane	391		10.0	ug/L	20	22-Nov-2023 09:14
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 21-Nov-2023 Analyst: MSC		
Iron	0.213		0.200	mg/L	1	21-Nov-2023 21:21
Manganese	0.0456		0.00500	mg/L	1	21-Nov-2023 21:21
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: JAC		
Organic Carbon, Total	1.75		1.00	mg/L	1	21-Nov-2023 17:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
 Project: 3K17006
 Sample ID: 3K17006-05
 Collection Date: 16-Nov-2023 14:55

ANALYTICAL REPORT

WorkOrder:HS23111375
 Lab ID:HS23111375-05
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL PAHS - 8270D		Method:SW8270		Prep:SW3511 / 21-Nov-2023		Analyst: MBG
1-Methylnaphthalene	4.89	n	0.102	ug/L	1	22-Nov-2023 12:39
2-Methylnaphthalene	1.59		0.102	ug/L	1	22-Nov-2023 12:39
Acenaphthene	ND		0.102	ug/L	1	22-Nov-2023 12:39
Acenaphthylene	ND		0.102	ug/L	1	22-Nov-2023 12:39
Anthracene	ND		0.102	ug/L	1	22-Nov-2023 12:39
Benz(a)anthracene	ND		0.102	ug/L	1	22-Nov-2023 12:39
Benzo(a)pyrene	ND		0.102	ug/L	1	22-Nov-2023 12:39
Benzo(b)fluoranthene	ND		0.102	ug/L	1	22-Nov-2023 12:39
Benzo(g,h,i)perylene	ND		0.102	ug/L	1	22-Nov-2023 12:39
Benzo(k)fluoranthene	ND		0.102	ug/L	1	22-Nov-2023 12:39
Chrysene	ND		0.102	ug/L	1	22-Nov-2023 12:39
Dibenz(a,h)anthracene	ND		0.102	ug/L	1	22-Nov-2023 12:39
Fluoranthene	ND		0.102	ug/L	1	22-Nov-2023 12:39
Fluorene	1.82		0.102	ug/L	1	22-Nov-2023 12:39
Indeno(1,2,3-cd)pyrene	ND		0.102	ug/L	1	22-Nov-2023 12:39
Naphthalene	2.47		0.102	ug/L	1	22-Nov-2023 12:39
Phenanthrene	0.980		0.102	ug/L	1	22-Nov-2023 12:39
Pyrene	ND		0.102	ug/L	1	22-Nov-2023 12:39
Surr: 2-Fluorobiphenyl	99.4		32-130	%REC	1	22-Nov-2023 12:39
Surr: 4-Terphenyl-d14	130		40-135	%REC	1	22-Nov-2023 12:39
Surr: Nitrobenzene-d5	100		45-142	%REC	1	22-Nov-2023 12:39
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: E.H.		
Ethane	14.9		1.00	ug/L	1	22-Nov-2023 08:35
Ethene	ND		1.00	ug/L	1	22-Nov-2023 08:35
Methane	1,380		25.0	ug/L	50	22-Nov-2023 09:34
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 21-Nov-2023		Analyst: MSC
Iron	ND		0.200	mg/L	1	21-Nov-2023 21:23
Manganese	0.184		0.00500	mg/L	1	21-Nov-2023 21:23
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: JAC		
Organic Carbon, Total	4.74		1.00	mg/L	1	21-Nov-2023 17:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
 Project: 3K17006
 Sample ID: 3K17006-06
 Collection Date: 16-Nov-2023 16:12

ANALYTICAL REPORT

WorkOrder:HS23111375
 Lab ID:HS23111375-06
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL PAHS - 8270D		Method:SW8270		Prep:SW3511 / 21-Nov-2023		Analyst: MBG
1-Methylnaphthalene	8.14	n	0.101	ug/L	1	22-Nov-2023 12:59
2-Methylnaphthalene	4.52		0.101	ug/L	1	22-Nov-2023 12:59
Acenaphthene	0.222		0.101	ug/L	1	22-Nov-2023 12:59
Acenaphthylene	ND		0.101	ug/L	1	22-Nov-2023 12:59
Anthracene	0.591		0.101	ug/L	1	22-Nov-2023 12:59
Benz(a)anthracene	ND		0.101	ug/L	1	22-Nov-2023 12:59
Benzo(a)pyrene	ND		0.101	ug/L	1	22-Nov-2023 12:59
Benzo(b)fluoranthene	ND		0.101	ug/L	1	22-Nov-2023 12:59
Benzo(g,h,i)perylene	ND		0.101	ug/L	1	22-Nov-2023 12:59
Benzo(k)fluoranthene	ND		0.101	ug/L	1	22-Nov-2023 12:59
Chrysene	ND		0.101	ug/L	1	22-Nov-2023 12:59
Dibenz(a,h)anthracene	ND		0.101	ug/L	1	22-Nov-2023 12:59
Fluoranthene	ND		0.101	ug/L	1	22-Nov-2023 12:59
Fluorene	1.40		0.101	ug/L	1	22-Nov-2023 12:59
Indeno(1,2,3-cd)pyrene	ND		0.101	ug/L	1	22-Nov-2023 12:59
Naphthalene	16.9		1.01	ug/L	10	22-Nov-2023 13:58
Phenanthrene	0.516		0.101	ug/L	1	22-Nov-2023 12:59
Pyrene	ND		0.101	ug/L	1	22-Nov-2023 12:59
Surr: 2-Fluorobiphenyl	101		32-130	%REC	1	22-Nov-2023 12:59
Surr: 2-Fluorobiphenyl	91.6		32-130	%REC	10	22-Nov-2023 13:58
Surr: 4-Terphenyl-d14	105		40-135	%REC	10	22-Nov-2023 13:58
Surr: 4-Terphenyl-d14	92.5		40-135	%REC	1	22-Nov-2023 12:59
Surr: Nitrobenzene-d5	111		45-142	%REC	1	22-Nov-2023 12:59
Surr: Nitrobenzene-d5	133		45-142	%REC	10	22-Nov-2023 13:58
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: E.H.		
Ethane	ND		100	ug/L	100	22-Nov-2023 09:44
Ethene	ND		1.00	ug/L	1	22-Nov-2023 08:44
Methane	2,780		50.0	ug/L	100	22-Nov-2023 09:44
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 21-Nov-2023		Analyst: MSC
Iron	ND		0.200	mg/L	1	21-Nov-2023 21:26
Manganese	0.127		0.00500	mg/L	1	21-Nov-2023 21:26
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1		Analyst: JAC		
Organic Carbon, Total	8.78		1.00	mg/L	1	21-Nov-2023 17:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 22-Nov-23

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP

Project: 3K17006

WorkOrder: HS23111375

Batch ID: 203812

Start Date: 21 Nov 2023 15:00

End Date: 21 Nov 2023 15:00

Method: DISS METALS PREP - WATER - SW3010A

Prep Code: 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23111375-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23111375-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23111375-03		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23111375-04		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23111375-05		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23111375-06		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

Batch ID: 203855

Start Date: 21 Nov 2023 12:00

End Date: 21 Nov 2023 12:00

Method: SW3511

Prep Code: 3511_PAH

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23111375-05		32.45 (mL)	2 (mL)	0.06163	40 mL Amber
HS23111375-06		32.54 (mL)	2 (mL)	0.06146	40 mL Amber

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17006
WorkOrder: HS23111375

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 203812 (0)		Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water	
HS23111375-01	3K17006-01	16 Nov 2023 10:35		21 Nov 2023 15:00	21 Nov 2023 21:14	1
HS23111375-02	3K17006-02	16 Nov 2023 11:42		21 Nov 2023 15:00	21 Nov 2023 21:16	1
HS23111375-03	3K17006-03	16 Nov 2023 12:38		21 Nov 2023 15:00	21 Nov 2023 21:18	1
HS23111375-04	3K17006-04	16 Nov 2023 13:47		21 Nov 2023 15:00	21 Nov 2023 21:21	1
HS23111375-05	3K17006-05	16 Nov 2023 14:55		21 Nov 2023 15:00	21 Nov 2023 21:23	1
HS23111375-06	3K17006-06	16 Nov 2023 16:12		21 Nov 2023 15:00	21 Nov 2023 21:26	1
Batch ID: 203855 (0)		Test Name : LOW-LEVEL PAHS - 8270D			Matrix: Water	
HS23111375-05	3K17006-05	16 Nov 2023 14:55		21 Nov 2023 12:00	22 Nov 2023 12:39	1
HS23111375-06	3K17006-06	16 Nov 2023 16:12		21 Nov 2023 12:00	22 Nov 2023 13:58	10
HS23111375-06	3K17006-06	16 Nov 2023 16:12		21 Nov 2023 12:00	22 Nov 2023 12:59	1
Batch ID: R452484 (0)		Test Name : TOTAL ORGANIC CARBON BY E415.1			Matrix: Water	
HS23111375-01	3K17006-01	16 Nov 2023 10:35			21 Nov 2023 16:25	1
HS23111375-02	3K17006-02	16 Nov 2023 11:42			21 Nov 2023 16:38	1
HS23111375-03	3K17006-03	16 Nov 2023 12:38			21 Nov 2023 16:52	1
HS23111375-04	3K17006-04	16 Nov 2023 13:47			21 Nov 2023 17:05	1
HS23111375-05	3K17006-05	16 Nov 2023 14:55			21 Nov 2023 17:19	1
HS23111375-06	3K17006-06	16 Nov 2023 16:12			21 Nov 2023 17:34	1
Batch ID: R452495 (0)		Test Name : DISSOLVED GASES BY RSK-175			Matrix: Water	
HS23111375-01	3K17006-01	16 Nov 2023 10:35			22 Nov 2023 07:51	1
HS23111375-02	3K17006-02	16 Nov 2023 11:42			22 Nov 2023 08:00	1
HS23111375-03	3K17006-03	16 Nov 2023 12:38			22 Nov 2023 08:09	1
HS23111375-04	3K17006-04	16 Nov 2023 13:47			22 Nov 2023 09:14	20
HS23111375-04	3K17006-04	16 Nov 2023 13:47			22 Nov 2023 08:20	1
HS23111375-05	3K17006-05	16 Nov 2023 14:55			22 Nov 2023 09:34	50
HS23111375-05	3K17006-05	16 Nov 2023 14:55			22 Nov 2023 08:35	1
HS23111375-06	3K17006-06	16 Nov 2023 16:12			22 Nov 2023 09:44	100
HS23111375-06	3K17006-06	16 Nov 2023 16:12			22 Nov 2023 08:44	1

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17006
WorkOrder: HS23111375

QC BATCH REPORT

Batch ID: R452495 (0)		Instrument: FID-4		Method: DISSOLVED GASES BY RSK-175					
MBLK	Sample ID: MBLK-231122	Units: ug/L		Analysis Date: 22-Nov-2023 07:22					
Client ID:	Run ID: FID-4_452495	SeqNo: 7689379		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Ethane	ND	1.00							
Ethene	ND	1.00							
Methane	ND	0.500							

LCS	Sample ID: LCS-231122	Units: ug/L		Analysis Date: 22-Nov-2023 07:32					
Client ID:	Run ID: FID-4_452495	SeqNo: 7689380		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	18.6	1.00	18.04	0	103	75 - 125			
Ethene	15.48	1.00	16.8	0	92.1	75 - 125			
Methane	8.541	0.500	9.647	0	88.5	75 - 125			

LCSD	Sample ID: LCSD-231122	Units: ug/L		Analysis Date: 22-Nov-2023 07:42					
Client ID:	Run ID: FID-4_452495	SeqNo: 7689381		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	20.58	1.00	18.04	0	114	75 - 125	18.6	10.1	30
Ethene	15.93	1.00	16.8	0	94.8	75 - 125	15.48	2.89	30
Methane	8.886	0.500	9.647	0	92.1	75 - 125	8.541	3.97	30

DUP	Sample ID: HS23111375-03DUP	Units: ug/L		Analysis Date: 22-Nov-2023 09:05					
Client ID: 3K17006-03	Run ID: FID-4_452495	SeqNo: 7689389		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	ND	1.00					0	0	30
Ethene	ND	1.00					0	0	30
Methane	13.3	0.500					13.05	1.91	30

The following samples were analyzed in this batch:

HS23111375-01	HS23111375-02	HS23111375-03	HS23111375-04
HS23111375-05	HS23111375-06		

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17006
WorkOrder: HS23111375

QC BATCH REPORT

Batch ID: 203812 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK	Sample ID: MBLKF1-203812	Units: mg/L		Analysis Date: 21-Nov-2023 17:52					
Client ID:	Run ID: ICPMS07_452398	SeqNo: 7688082		PrepDate: 21-Nov-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron ND 0.200

Manganese ND 0.00500

MBLK	Sample ID: MBLK-203812	Units: mg/L		Analysis Date: 21-Nov-2023 17:50					
Client ID:	Run ID: ICPMS07_452398	SeqNo: 7688081		PrepDate: 21-Nov-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron ND 0.200

Manganese ND 0.00500

LCS	Sample ID: LCS-203812	Units: mg/L		Analysis Date: 21-Nov-2023 17:54					
Client ID:	Run ID: ICPMS07_452398	SeqNo: 7688083		PrepDate: 21-Nov-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron 4.878 0.200 5 0 97.6 80 - 120

Manganese 0.04789 0.00500 0.05 0 95.8 80 - 120

MS	Sample ID: HS23111114-01MS	Units: mg/L		Analysis Date: 21-Nov-2023 20:29					
Client ID:	Run ID: ICPMS07_452398	SeqNo: 7688387		PrepDate: 21-Nov-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron 4.976 0.200 5 0.07714 98.0 75 - 125

Manganese 2.093 0.00500 0.05 2.115 -43.6 75 - 125 SEO

MS	Sample ID: HS23111093-02MS	Units: mg/L		Analysis Date: 21-Nov-2023 20:13					
Client ID:	Run ID: ICPMS07_452398	SeqNo: 7688380		PrepDate: 21-Nov-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Iron 5.221 0.200 5 0.2026 100 75 - 125

Manganese 0.5164 0.00500 0.05 0.4733 86.3 75 - 125 O

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17006
WorkOrder: HS23111375

QC BATCH REPORT

Batch ID: 203812 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)						
MSD	Sample ID: HS23111114-01MSD	Units: mg/L		Analysis Date: 21-Nov-2023 20:32						
Client ID:	Run ID: ICPMS07_452398	SeqNo: 7688388		PrepDate: 21-Nov-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.94	0.200	5	0.07714	97.3	75 - 125	4.976	0.723	20	
Manganese	2.081	0.00500	0.05	2.115	-67.3	75 - 125	2.093	0.568	20	SEO
MSD	Sample ID: HS23111093-02MSD	Units: mg/L		Analysis Date: 21-Nov-2023 20:15						
Client ID:	Run ID: ICPMS07_452398	SeqNo: 7688381		PrepDate: 21-Nov-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	5.23	0.200	5	0.2026	101	75 - 125	5.221	0.171	20	
Manganese	0.527	0.00500	0.05	0.4733	107	75 - 125	0.5164	2.03	20	O
PDS	Sample ID: HS23111114-01PDS	Units: mg/L		Analysis Date: 21-Nov-2023 20:34						
Client ID:	Run ID: ICPMS07_452398	SeqNo: 7688389		PrepDate: 21-Nov-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	10.38	0.200	10	0.07714	103	75 - 125				
PDS	Sample ID: HS23111093-02PDS	Units: mg/L		Analysis Date: 21-Nov-2023 20:18						
Client ID:	Run ID: ICPMS07_452398	SeqNo: 7688382		PrepDate: 21-Nov-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	10.35	0.200	10	0.2026	101	75 - 125				
Manganese	0.588	0.00500	0.1	0.4733	115	75 - 125				O
PDS	Sample ID: HS23111114-01PDS	Units: mg/L		Analysis Date: 22-Nov-2023 12:40						
Client ID:	Run ID: ICPMS07_452501	SeqNo: 7689863		PrepDate: 21-Nov-2023		DF: 20				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	4.015	0.100	2	2.041	98.7	75 - 125				
SD	Sample ID: HS23111114-01SD	Units: mg/L		Analysis Date: 21-Nov-2023 20:27						
Client ID:	Run ID: ICPMS07_452398	SeqNo: 7688386		PrepDate: 21-Nov-2023		DF: 5				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Iron	0.0764	1.00					0.07714	0	10	J

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17006
WorkOrder: HS23111375

QC BATCH REPORT

Batch ID: 203812 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)						
SD	Sample ID: HS23111093-02SD	Units: mg/L		Analysis Date: 21-Nov-2023 20:10						
Client ID:	Run ID: ICPMS07_452398		SeqNo: 7688379		PrepDate: 21-Nov-2023		DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Iron	0.2008	1.00					0.2026	0	10	J
Manganese	0.4497	0.0250					0.4733	4.99	10	

SD	Sample ID: HS23111114-01SD	Units: mg/L		Analysis Date: 22-Nov-2023 12:37						
Client ID:	Run ID: ICPMS07_452501		SeqNo: 7689862		PrepDate: 21-Nov-2023		DF: 100			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Manganese	2.055	0.500					2.041	0.692	10	

The following samples were analyzed in this batch:

HS23111375-01	HS23111375-02	HS23111375-03	HS23111375-04
HS23111375-05	HS23111375-06		

ALS Houston, US

Date: 22-Nov-23

Client:Permian Basin Environmental Lab, LP

Project:3K17006

WorkOrder:HS23111375

QC BATCH REPORT

Batch ID: 203855 (0)		Instrument: SV-6		Method: LOW-LEVEL PAHS - 8270D					
MBLK	Sample ID: MBLK-203855	Units: ug/L		Analysis Date: 22-Nov-2023 11:18					
Client ID:	Run ID: SV-6_452528		SeqNo: 7690042		PrepDate: 21-Nov-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
1-Methylnaphthalene	ND	0.100							
2-Methylnaphthalene	ND	0.100							
Acenaphthene	ND	0.100							
Acenaphthylene	ND	0.100							
Anthracene	ND	0.100							
Benz(a)anthracene	ND	0.100							
Benzo(a)pyrene	ND	0.100							
Benzo(b)fluoranthene	ND	0.100							
Benzo(g,h,i)perylene	ND	0.100							
Benzo(k)fluoranthene	ND	0.100							
Chrysene	ND	0.100							
Dibenz(a,h)anthracene	ND	0.100							
Fluoranthene	ND	0.100							
Fluorene	ND	0.100							
Indeno(1,2,3-cd)pyrene	ND	0.100							
Naphthalene	ND	0.100							
Phenanthrene	ND	0.100							
Pyrene	ND	0.100							
Surr: 2-Fluorobiphenyl	2.684	0.100	3.03	0	88.6	32 - 130			
Surr: 4-Terphenyl-d14	3.383	0.100	3.03	0	112	40 - 135			
Surr: Nitrobenzene-d5	3.807	0.100	3.03	0	126	45 - 142			

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17006
WorkOrder: HS23111375

QC BATCH REPORT

Batch ID: 203855 (0)		Instrument: SV-6		Method: LOW-LEVEL PAHS - 8270D					
LCS		Sample ID: LCS-203855		Units: ug/L		Analysis Date: 22-Nov-2023 11:38			
Client ID:		Run ID: SV-6_452528		SeqNo: 7690043		PrepDate: 21-Nov-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1-Methylnaphthalene	6.461	0.100	6.06	0	107	40 - 140			
2-Methylnaphthalene	6.477	0.100	6.06	0	107	40 - 140			
Acenaphthene	6.216	0.100	6.06	0	103	40 - 140			
Acenaphthylene	6.051	0.100	6.06	0	99.8	40 - 140			
Anthracene	7.437	0.100	6.06	0	123	40 - 140			
Benz(a)anthracene	8.132	0.100	6.06	0	134	40 - 140			
Benzo(a)pyrene	6.089	0.100	6.06	0	100	40 - 140			
Benzo(b)fluoranthene	6.154	0.100	6.06	0	102	40 - 140			
Benzo(g,h,i)perylene	5.946	0.100	6.06	0	98.1	40 - 140			
Benzo(k)fluoranthene	5.018	0.100	6.06	0	82.8	40 - 140			
Chrysene	6.849	0.100	6.06	0	113	40 - 140			
Dibenz(a,h)anthracene	7.14	0.100	6.06	0	118	40 - 140			
Fluoranthene	8.103	0.100	6.06	0	134	40 - 140			
Fluorene	6.76	0.100	6.06	0	112	40 - 140			
Indeno(1,2,3-cd)pyrene	6.626	0.100	6.06	0	109	40 - 140			
Naphthalene	5.631	0.100	6.06	0	92.9	40 - 140			
Phenanthrene	6.653	0.100	6.06	0	110	40 - 140			
Pyrene	5.91	0.100	6.06	0	97.5	40 - 140			
Surr: 2-Fluorobiphenyl	2.492	0.100	3.03	0	82.2	32 - 130			
Surr: 4-Terphenyl-d14	2.849	0.100	3.03	0	94.0	40 - 135			
Surr: Nitrobenzene-d5	3.065	0.100	3.03	0	101	45 - 142			

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17006
WorkOrder: HS23111375

QC BATCH REPORT

Batch ID: 203855 (0)		Instrument: SV-6		Method: LOW-LEVEL PAHS - 8270D						
LCSD		Sample ID: LCSD-203855		Units: ug/L		Analysis Date: 22-Nov-2023 11:59				
Client ID:		Run ID: SV-6_452528		SeqNo: 7690044		PrepDate: 21-Nov-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	7.271	0.100	6.06	0	120	40 - 140	6.461	11.8	25	
2-Methylnaphthalene	7.287	0.100	6.06	0	120	40 - 140	6.477	11.8	25	
Acenaphthene	6.195	0.100	6.06	0	102	40 - 140	6.216	0.352	25	
Acenaphthylene	5.946	0.100	6.06	0	98.1	40 - 140	6.051	1.75	25	
Anthracene	7.426	0.100	6.06	0	123	40 - 140	7.437	0.143	25	
Benz(a)anthracene	7.518	0.100	6.06	0	124	40 - 140	8.132	7.85	25	
Benzo(a)pyrene	6.682	0.100	6.06	0	110	40 - 140	6.089	9.28	25	
Benzo(b)fluoranthene	6.101	0.100	6.06	0	101	40 - 140	6.154	0.861	25	
Benzo(g,h,i)perylene	6.249	0.100	6.06	0	103	40 - 140	5.946	4.96	25	
Benzo(k)fluoranthene	5.592	0.100	6.06	0	92.3	40 - 140	5.018	10.8	25	
Chrysene	6.201	0.100	6.06	0	102	40 - 140	6.849	9.93	25	
Dibenz(a,h)anthracene	7.588	0.100	6.06	0	125	40 - 140	7.14	6.08	25	
Fluoranthene	8.291	0.100	6.06	0	137	40 - 140	8.103	2.29	25	
Fluorene	6.664	0.100	6.06	0	110	40 - 140	6.76	1.44	25	
Indeno(1,2,3-cd)pyrene	6.972	0.100	6.06	0	115	40 - 140	6.626	5.09	25	
Naphthalene	6.321	0.100	6.06	0	104	40 - 140	5.631	11.6	25	
Phenanthrene	6.7	0.100	6.06	0	111	40 - 140	6.653	0.707	25	
Pyrene	5.362	0.100	6.06	0	88.5	40 - 140	5.91	9.71	25	
Surr: 2-Fluorobiphenyl	2.464	0.100	3.03	0	81.3	32 - 130	2.492	1.11	25	
Surr: 4-Terphenyl-d14	2.601	0.100	3.03	0	85.8	40 - 135	2.849	9.09	25	
Surr: Nitrobenzene-d5	3.585	0.100	3.03	0	118	45 - 142	3.065	15.7	25	
The following samples were analyzed in this batch:										
			HS23111375-05		HS23111375-06					

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17006
WorkOrder: HS23111375

QC BATCH REPORT

Batch ID: R452484 (0)		Instrument: TOC_05		Method: TOTAL ORGANIC CARBON BY E415.1					
MBLK	Sample ID: MBLK-11212023	Units: mg/L			Analysis Date: 21-Nov-2023 15:42				
Client ID:	Run ID: TOC_05_452484	SeqNo: 7689160		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	ND	1.00							
LCS	Sample ID: LCS-11212023	Units: mg/L			Analysis Date: 21-Nov-2023 15:58				
Client ID:	Run ID: TOC_05_452484	SeqNo: 7689161		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	9.862	1.00	10	0	98.6	85 - 115			
LCSD	Sample ID: LCSD-11212023	Units: mg/L			Analysis Date: 21-Nov-2023 16:13				
Client ID:	Run ID: TOC_05_452484	SeqNo: 7689162		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	9.868	1.00	10	0	98.7	85 - 115	9.862	0.0608	20
MS	Sample ID: HS23111307-02MS	Units: mg/L			Analysis Date: 21-Nov-2023 18:32				
Client ID:	Run ID: TOC_05_452484	SeqNo: 7689172		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Organic Carbon, Total	23.18	1.00	10	13.05	101	80 - 120			
The following samples were analyzed in this batch:				HS23111375-01		HS23111375-02		HS23111375-03	
				HS23111375-05		HS23111375-06		HS23111375-04	

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17006
WorkOrder: HS23111375

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

ALS Houston, US

Date: 22-Nov-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

Date: 22-Nov-23

Sample Receipt Checklist

Work Order ID: HS23111375

Date/Time Received: 21-Nov-2023 08:09

Client Name: Permian Basin Lab

Received by: Paresh M. Giga

Completed By: /S/ Belinda Gomez	21-Nov-2023 10:00	Reviewed by: /S/ Anna Kinchen	22-Nov-2023 14:18
eSignature	Date/Time	eSignature	Date/Time

Matrices: WCarrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Samplers name present on COC?	Yes ☐	No ☒	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	2.0uc1.9c ir31		
Cooler(s)/Kit(s):	med red		
Date/Time sample(s) sent to storage:	11/21/23 1000		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

PBELAB**CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**

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

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent BarronProject Name: SUBCONTRACTCompany Name: PBEL

Project #: _____

Company Address: 1400 Rankin HWY

Project Loc: _____

City/State/Zip: Midland Texas 79701

PO #: _____

Telephone No: 432-661-4184

Fax No: _____

Report Format: ☒ Standard ☐ TRRP ☐ NPDESSampler Signature: N/Ae-mail: brentbarron@pbelab.com

ORDER #:		Preservation & # of Containers										Matrix		Analyze For:												
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	ICE	HNO ₃ 250 poly 1	HCl 3 40mL VOA	H ₂ SO ₄ 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	Na ₂ S ₂ O ₃	NONE	NONE 3 AMBER VOAA VIALS	DW=Drinking Water S=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	RSK SOP-175	TOC-415.1	Mn DISS ICP 6010B	Fe DISS ICP 6010B	8270C PAH LL	24 HOUR RUSH/PAH ONLY	STANDARD	
	3K17006-01			11/16/2023	10:35	Y	5	X	X	X	X					W	X	X	X	X					X	
	3K17006-02			11/16/2023	11:42	Y	5	X	X	X	X					W	X	X	X	X					X	
	3K17006-03			11/16/2023	12:38	Y	5	X	X	X	X					W	X	X	X	X					X	
	3K17006-04			11/16/2023	13:47	Y	5	X	X	X	X					W	X	X	X	X					X	
	3K17006-05			11/16/2023	14:55	Y	8	X	X	X	X				X	W	X	X	X	X	X			X	X	
	3K17006-06			11/16/2023	16:12	Y	8	X	X	X	X				X	W	X	X	X	X	X			X	X	

Please run PAH in rush please because of holding time.

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N
by Courier?	UPS	DHL
Temperature Upon Receipt:	Received: °C	Adjusted: °C Factor

Relinquished by: Brent Barron Date: 11/20/23 Time: 17:00 Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: [Signature] Date: 11/21/23 Time: 08:09

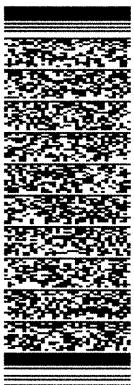
Relinquished by: [Signature] Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____

ORIGIN ID:AMEA (432) 986-7235
BRENT BARON
PUE LA8
1400 RANKIN HWY
MOULAND, TX 79701
UNITED STATES US

SHIP DATE: 20NOV23
ACTWGT: 55.00 LB
CAO: 10713894INET4535
DMS: 15x17x9 IN
BILL RECIPIENT

TO: **SAMPLE RECEIVING**
ALS-HOUSTON
10450 STANCLIFF RD
HOUSTON TX 77099

REF: (281) 530-5615
NY
DEPT: 

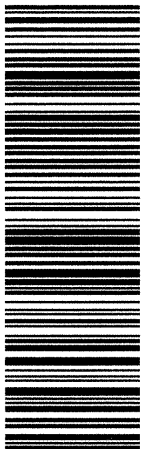

J234023191561uv

583J5F0B279AE3

TR# 7741 7142 8879
020T

TUE - 21 NOV 8:00A
FIRST OVERNIGHT

A1 SGRA
77099
TX-US IAH



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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: 98-05A
Project Number: SRS: TNM 98-05A
Location: Lea County, NM
Lab Order Number: 3K17002



Current Certification

Report Date: 12/13/23

TRC Solutions- Midland, Texas	Project: 98-05A
10 Desta Dr STE 150E	Project Number: SRS: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-11	3K17002-01	Water	11/15/23 14:25	11-17-2023 09:00
MW-9	3K17002-02	Water	11/15/23 15:03	11-17-2023 09:00
MW-7	3K17002-03	Water	11/15/23 15:39	11-17-2023 09:00
MW-8	3K17002-04	Water	11/15/23 16:11	11-17-2023 09:00
MW-1	3K17002-05	Water	11/15/23 16:58	11-17-2023 09:00

Sample MW-1 was not present for this COC.

TRC Solutions- Midland, Texas	Project: 98-05A
10 Desta Dr STE 150E	Project Number: SRS: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-11
3K17002-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 04:10	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 04:10	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 04:10	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 04:10	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 04:10	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 04:10	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 04:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	88.0 %		80-120		P3K2013	11/20/23 08:47	11/21/23 04:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	90.1 %		80-120		P3K2013	11/20/23 08:47	11/21/23 04:10	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas	Project: 98-05A
10 Desta Dr STE 150E	Project Number: SRS: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-9
3K17002-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 04:33	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 04:33	EPA 8021B	

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 04:33	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 04:33	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 04:33	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 04:33	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 04:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	87.8 %		80-120		P3K2013	11/20/23 08:47	11/21/23 04:33	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	90.6 %		80-120		P3K2013	11/20/23 08:47	11/21/23 04:33	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas	Project: 98-05A
10 Desta Dr STE 150E	Project Number: SRS: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-7
3K17002-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 05:42	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 05:42	EPA 8021B	

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 05:42	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 05:42	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 05:42	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 05:42	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 05:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	89.0 %		80-120		P3K2013	11/20/23 08:47	11/21/23 05:42	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	91.1 %		80-120		P3K2013	11/20/23 08:47	11/21/23 05:42	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas	Project: 98-05A
10 Desta Dr STE 150E	Project Number: SRS: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-8
3K17002-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 06:05	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 06:05	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:05	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:05	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:05	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:05	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	89.6 %		80-120		P3K2013	11/20/23 08:47	11/21/23 06:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	89.7 %		80-120		P3K2013	11/20/23 08:47	11/21/23 06:05	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas	Project: 98-05A
10 Desta Dr STE 150E	Project Number: SRS: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3K2013 - *** DEFAULT PREP ***

Blank (P3K2013-BLK1)		Prepared: 11/20/23 Analyzed: 11/21/23								
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.7	80-120			

LCS (P3K2013-BS1)		Prepared & Analyzed: 11/20/23								
Benzene	0.104	0.00100	mg/L	0.100		104	80-120			
Toluene	0.0990	0.00100	"	0.100		99.0	80-120			
Ethylbenzene	0.0979	0.00100	"	0.100		97.9	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.5	80-120			
Xylene (o)	0.0890	0.00100	"	0.100		89.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.1	80-120			

LCS Dup (P3K2013-BSD1)		Prepared: 11/20/23 Analyzed: 11/21/23								
Benzene	0.0980	0.00100	mg/L	0.100		98.0	80-120	6.28	20	
Toluene	0.0935	0.00100	"	0.100		93.5	80-120	5.77	20	
Ethylbenzene	0.0917	0.00100	"	0.100		91.7	80-120	6.55	20	
Xylene (p/m)	0.182	0.00200	"	0.200		90.8	80-120	6.06	20	
Xylene (o)	0.0843	0.00100	"	0.100		84.3	80-120	5.48	20	
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.2	80-120			

Calibration Blank (P3K2013-CCB1)		Prepared & Analyzed: 11/20/23								
Benzene	0.110		ug/l							
Toluene	0.120		"							
Ethylbenzene	0.130		"							
Xylene (p/m)	0.240		"							
Xylene (o)	0.130		"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.5	80-120			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A
Project Number: SRS: TNM 98-05A
Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3K2013 - * DEFAULT PREP *****

Calibration Blank (P3K2013-CCB2)

Prepared: 11/20/23 Analyzed: 11/21/23

Benzene	0.0900		ug/l							
Toluene	0.130		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.180		"							
Xylene (o)	0.110		"							
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.2	80-120			

Calibration Blank (P3K2013-CCB3)

Prepared: 11/20/23 Analyzed: 11/21/23

Benzene	0.590		ug/l							
Toluene	0.390		"							
Ethylbenzene	0.400		"							
Xylene (p/m)	0.920		"							
Xylene (o)	0.320		"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.9	80-120			

Calibration Check (P3K2013-CCV1)

Prepared & Analyzed: 11/20/23

Benzene	0.106	0.00100	mg/L	0.100		106	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.0947	0.00100	"	0.100		94.7	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		97.9	80-120			
Xylene (o)	0.0923	0.00100	"	0.100		92.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.0	80-120			

Calibration Check (P3K2013-CCV2)

Prepared: 11/20/23 Analyzed: 11/21/23

Benzene	0.102	0.00100	mg/L	0.100		102	80-120			
Toluene	0.0962	0.00100	"	0.100		96.2	80-120			
Ethylbenzene	0.0902	0.00100	"	0.100		90.2	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.6	80-120			
Xylene (o)	0.0882	0.00100	"	0.100		88.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.4	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A
10 Desta Dr STE 150E	Project Number: SRS: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3K2013 - *** DEFAULT PREP ***

Calibration Check (P3K2013-CCV3)				Prepared: 11/20/23 Analyzed: 11/21/23						
Benzene	0.110	0.00100	mg/L	0.100		110	80-120			
Toluene	0.0972	0.00100	"	0.100		97.2	80-120			
Ethylbenzene	0.0862	0.00100	"	0.100		86.2	80-120			
Xylene (p/m)	0.176	0.00200	"	0.200		87.9	80-120			
Xylene (o)	0.0819	0.00100	"	0.100		81.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.4	80-120			

Matrix Spike (P3K2013-MS1)				Source: 3K17001-01		Prepared: 11/20/23 Analyzed: 11/21/23				
Benzene	0.0950	0.0100	mg/L	0.100	ND	95.0	80-120			
Toluene	0.101	0.0100	"	0.100	ND	101	80-120			
Ethylbenzene	0.0972	0.0100	"	0.100	ND	97.2	80-120			
Xylene (p/m)	0.178	0.0200	"	0.200	ND	89.2	80-120			
Xylene (o)	0.0927	0.0100	"	0.100	ND	92.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.3	80-120			

Matrix Spike Dup (P3K2013-MSD1)				Source: 3K17001-01		Prepared: 11/20/23 Analyzed: 11/21/23				
Benzene	0.0982	0.00100	mg/L	0.100	ND	98.2	80-120	3.31	20	
Toluene	0.0927	0.00100	"	0.100	ND	92.7	80-120	8.27	20	
Ethylbenzene	0.0921	0.00100	"	0.100	ND	92.1	80-120	5.42	20	
Xylene (p/m)	0.176	0.00200	"	0.200	ND	88.1	80-120	1.16	20	
Xylene (o)	0.0810	0.00100	"	0.100	ND	81.0	80-120	13.4	20	
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.1	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A
Project Number: SRS: TNM 98-05A
Project Manager: Curt Stanley

Notes and Definitions

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

12/13/2023

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

PBBLAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Page 1 of 1

Project Name: 98-05A

Phone: 432-686-7235

Page 11 of 11

Project #: SRS: TNM 98-05A

Project Loc: Lea County, NM

PO #:

Project Manager: Curt Stanley

Company Name: TRC Environmental Corporation

Company Address: 10 Desta Drive, Ste 130E

City/State/Zip: Midland TX 79705

Telephone No: (432) 520-7720

Fax No:

Sampler Signature: *[Signature]*

e-mail:

cdstanley@trccompanies.com

clbryant@paalp.com

khuggens@paalp.com

mgreen@trccompanies.com

(lab use only)

ORDER #: 3K170002

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Preservation & # of Containers

Matrix

DW=Drinking Water SL=Sludge
GW = Groundwater S=Soil/Solid
NP=Non-Potable Specify Other

TOC MW 5310

Dissolved Methane, Ethane, and Ethene by RSK-175

Total Dissolved Metals (Fe and Mn) by SW 6010

Nitrate and Sulfate by E300

COD by SM 5310

Total BTEX by 8260

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Special Instructions:

BILL TO PLAINS

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by PBEL:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspaces?

Labels on container(s)

Custody seals on container(s)

Sample Hand Delivered

by Courier? UPS

by Sampler/Client Rep. ? DHL

Temperature Upon Receipt: °C

Adjusted: 5.0

Factor

FedEx Lone Star

CFO

LB

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: 98-05A
Project Number: SRS: TNM 98-05A
Location: Lea County, NM
Lab Order Number: 3K17003



Current Certification

Report Date: 12/01/23

TRC Solutions- Midland, Texas	Project: 98-05A
10 Desta Dr STE 150E	Project Number: SRS: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	3K17003-01	Water	11/15/23 00:00	11-17-2023 09:00

Low Level PAH analysis was subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

TRC Solutions- Midland, Texas	Project: 98-05A
10 Desta Dr STE 150E	Project Number: SRS: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

MW-1
3K17003-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Total BTEX	0.0209	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 06:29	EPA 8021B	
Xylenes (total)	0.00592	0.00100	mg/L	1	[CALC]	11/20/23 08:47	11/21/23 06:29	EPA 8021B	
Organics by GC									
Benzene	0.00413	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:29	EPA 8021B	
Toluene	0.00184	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:29	EPA 8021B	
Ethylbenzene	0.00904	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:29	EPA 8021B	
Xylene (p/m)	0.00393	0.00200	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:29	EPA 8021B	
Xylene (o)	0.00199	0.00100	mg/L	1	P3K2013	11/20/23 08:47	11/21/23 06:29	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	85.1 %		80-120		P3K2013	11/20/23 08:47	11/21/23 06:29	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	87.5 %		80-120		P3K2013	11/20/23 08:47	11/21/23 06:29	EPA 8021B	

PAH compounds by Semivolatile GCMS									
1-Methylnaphthalene	0.0052	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
2-Methylnaphthalene	0.0021	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Acenaphthene	0.00055	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Acenaphthylene	0.00069	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Anthracene	0.00061	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Benzo (a) anthracene	ND	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Benzo (a) pyrene	ND	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Benzo (b) fluoranthene	ND	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Benzo (g,h,i) perylene	ND	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Benzo (k) fluoranthene	ND	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Chrysene	ND	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Dibenzo (a,h) anthracene	ND	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Dibenzofuran	ND	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Fluoranthene	ND	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Fluorene	0.0013	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Indeno (1,2,3-cd) pyrene	ND	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Naphthalene	0.0022	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Phenanthrene	0.0028	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13
Pyrene	ND	0.00011	mg/L	1	P3L0103	11/21/23 12:00	12/22/23 12:19	8270C	SUB-13

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A
Project Number: SRS: TNM 98-05A
Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3K2013 - * DEFAULT PREP *****

Blank (P3K2013-BLK1)

Prepared: 11/20/23 Analyzed: 11/21/23

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.7	80-120			

LCS (P3K2013-BS1)

Prepared & Analyzed: 11/20/23

Benzene	0.104	0.00100	mg/L	0.100		104	80-120			
Toluene	0.0990	0.00100	"	0.100		99.0	80-120			
Ethylbenzene	0.0979	0.00100	"	0.100		97.9	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.5	80-120			
Xylene (o)	0.0890	0.00100	"	0.100		89.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.1	80-120			

LCS Dup (P3K2013-BSD1)

Prepared: 11/20/23 Analyzed: 11/21/23

Benzene	0.0980	0.00100	mg/L	0.100		98.0	80-120	6.28	20	
Toluene	0.0935	0.00100	"	0.100		93.5	80-120	5.77	20	
Ethylbenzene	0.0917	0.00100	"	0.100		91.7	80-120	6.55	20	
Xylene (p/m)	0.182	0.00200	"	0.200		90.8	80-120	6.06	20	
Xylene (o)	0.0843	0.00100	"	0.100		84.3	80-120	5.48	20	
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.2	80-120			

Calibration Blank (P3K2013-CCB1)

Prepared & Analyzed: 11/20/23

Benzene	0.110		ug/l							
Toluene	0.120		"							
Ethylbenzene	0.130		"							
Xylene (p/m)	0.240		"							
Xylene (o)	0.130		"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.5	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas	Project: 98-05A
10 Desta Dr STE 150E	Project Number: SRS: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3K2013 - *** DEFAULT PREP ***

Calibration Blank (P3K2013-CCB2)				Prepared: 11/20/23 Analyzed: 11/21/23						
Benzene	0.0900		ug/l							
Toluene	0.130		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.180		"							
Xylene (o)	0.110		"							
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.2	80-120			
Calibration Blank (P3K2013-CCB3)				Prepared: 11/20/23 Analyzed: 11/21/23						
Benzene	0.590		ug/l							
Toluene	0.390		"							
Ethylbenzene	0.400		"							
Xylene (p/m)	0.920		"							
Xylene (o)	0.320		"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.9	80-120			
Calibration Check (P3K2013-CCV1)				Prepared & Analyzed: 11/20/23						
Benzene	0.106	0.00100	mg/L	0.100		106	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.0947	0.00100	"	0.100		94.7	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		97.9	80-120			
Xylene (o)	0.0923	0.00100	"	0.100		92.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.0	80-120			
Calibration Check (P3K2013-CCV2)				Prepared: 11/20/23 Analyzed: 11/21/23						
Benzene	0.102	0.00100	mg/L	0.100		102	80-120			
Toluene	0.0962	0.00100	"	0.100		96.2	80-120			
Ethylbenzene	0.0902	0.00100	"	0.100		90.2	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.6	80-120			
Xylene (o)	0.0882	0.00100	"	0.100		88.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.4	80-120			

Permian Basin Environmental Lab, L.P.

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

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

TRC Solutions- Midland, Texas	Project: 98-05A
10 Desta Dr STE 150E	Project Number: SRS: TNM 98-05A
Midland TX, 79705	Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3K2013 - *** DEFAULT PREP ***

Calibration Check (P3K2013-CCV3)				Prepared: 11/20/23 Analyzed: 11/21/23						
Benzene	0.110	0.00100	mg/L	0.100		110	80-120			
Toluene	0.0972	0.00100	"	0.100		97.2	80-120			
Ethylbenzene	0.0862	0.00100	"	0.100		86.2	80-120			
Xylene (p/m)	0.176	0.00200	"	0.200		87.9	80-120			
Xylene (o)	0.0819	0.00100	"	0.100		81.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.4	80-120			

Matrix Spike (P3K2013-MS1)				Source: 3K17001-01		Prepared: 11/20/23 Analyzed: 11/21/23				
Benzene	0.0950	0.0100	mg/L	0.100	ND	95.0	80-120			
Toluene	0.101	0.0100	"	0.100	ND	101	80-120			
Ethylbenzene	0.0972	0.0100	"	0.100	ND	97.2	80-120			
Xylene (p/m)	0.178	0.0200	"	0.200	ND	89.2	80-120			
Xylene (o)	0.0927	0.0100	"	0.100	ND	92.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.3	80-120			

Matrix Spike Dup (P3K2013-MSD1)				Source: 3K17001-01		Prepared: 11/20/23 Analyzed: 11/21/23				
Benzene	0.0982	0.00100	mg/L	0.100	ND	98.2	80-120	3.31	20	
Toluene	0.0927	0.00100	"	0.100	ND	92.7	80-120	8.27	20	
Ethylbenzene	0.0921	0.00100	"	0.100	ND	92.1	80-120	5.42	20	
Xylene (p/m)	0.176	0.00200	"	0.200	ND	88.1	80-120	1.16	20	
Xylene (o)	0.0810	0.00100	"	0.100	ND	81.0	80-120	13.4	20	
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.1	80-120			

Permian Basin Environmental Lab, L.P.

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

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: 98-05A
Project Number: SRS: TNM 98-05A
Project Manager: Curt Stanley

Notes and Definitions

SUB-13 Subcontract of analyte/analysis to ALS Houston.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

12/1/2023

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

November 22, 2023

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS23111372**

Laboratory Results for: **3K17003**

Dear Brent Barron,

ALS Environmental received 1 sample(s) on Nov 21, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

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

Generated By: DAYNA.FISHER
Anna Kinchen
Project Manager

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17003
Work Order: HS23111372

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23111372-01	3K17003-01	Water		15-Nov-2023 12:00	21-Nov-2023 08:09	☐

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17003
Work Order: HS23111372

CASE NARRATIVE

Work Order Comments

- Login Notes:
COC list sample ID 3K17003-01 but label list 3K17003-02

GCMS Semivolatiles by Method SW8270

Batch ID: 203855

Sample ID: LCS-203855/LCSD-203855

- LCS/LCSD contained double spike amount. Calculations adjusted accordingly.

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
 Project: 3K17003
 Sample ID: 3K17003-01
 Collection Date: 15-Nov-2023 12:00

ANALYTICAL REPORT

WorkOrder:HS23111372
 Lab ID:HS23111372-01
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL PAHS - 8270D		Method:SW8270			Prep:SW3511 / 21-Nov-2023	Analyst: MBG
1-Methylnaphthalene	5.15	n	0.104	ug/L	1	22-Nov-2023 12:19
2-Methylnaphthalene	2.09		0.104	ug/L	1	22-Nov-2023 12:19
Acenaphthene	0.547		0.104	ug/L	1	22-Nov-2023 12:19
Acenaphthylene	0.692		0.104	ug/L	1	22-Nov-2023 12:19
Anthracene	0.614		0.104	ug/L	1	22-Nov-2023 12:19
Benz(a)anthracene	ND		0.104	ug/L	1	22-Nov-2023 12:19
Benzo(a)pyrene	ND		0.104	ug/L	1	22-Nov-2023 12:19
Benzo(b)fluoranthene	ND		0.104	ug/L	1	22-Nov-2023 12:19
Benzo(g,h,i)perylene	ND		0.104	ug/L	1	22-Nov-2023 12:19
Benzo(k)fluoranthene	ND		0.104	ug/L	1	22-Nov-2023 12:19
Chrysene	ND		0.104	ug/L	1	22-Nov-2023 12:19
Dibenz(a,h)anthracene	ND		0.104	ug/L	1	22-Nov-2023 12:19
Fluoranthene	ND		0.104	ug/L	1	22-Nov-2023 12:19
Fluorene	1.30		0.104	ug/L	1	22-Nov-2023 12:19
Indeno(1,2,3-cd)pyrene	ND		0.104	ug/L	1	22-Nov-2023 12:19
Naphthalene	2.16		0.104	ug/L	1	22-Nov-2023 12:19
Phenanthrene	2.83		0.104	ug/L	1	22-Nov-2023 12:19
Pyrene	ND		0.104	ug/L	1	22-Nov-2023 12:19
Surr: 2-Fluorobiphenyl	70.3		32-130	%REC	1	22-Nov-2023 12:19
Surr: 4-Terphenyl-d14	84.2		40-135	%REC	1	22-Nov-2023 12:19
Surr: Nitrobenzene-d5	109		45-142	%REC	1	22-Nov-2023 12:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 22-Nov-23

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 3K17003
WorkOrder: HS23111372

Batch ID: 203855	Start Date: 21 Nov 2023 12:00	End Date: 21 Nov 2023 12:00
Method: SW3511	Prep Code: 3511_PAH	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23111372-01		31.87 (mL)	2 (mL)	0.06275	40 mL Amber

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17003
WorkOrder: HS23111372

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 203855 (0)		Test Name : LOW-LEVEL PAHS - 8270D			Matrix: Water	
HS23111372-01	3K17003-01	15 Nov 2023 12:00		21 Nov 2023 12:00	22 Nov 2023 12:19	1

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP

Project: 3K17003

WorkOrder: HS23111372

QC BATCH REPORT

Batch ID: 203855 (0)		Instrument: SV-6		Method: LOW-LEVEL PAHS - 8270D						
MBLK	Sample ID: MBLK-203855	Units: ug/L		Analysis Date: 22-Nov-2023 11:18						
Client ID:	Run ID: SV-6_452528		SeqNo: 7690042		PrepDate: 21-Nov-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.100								
2-Methylnaphthalene	ND	0.100								
Acenaphthene	ND	0.100								
Acenaphthylene	ND	0.100								
Anthracene	ND	0.100								
Benz(a)anthracene	ND	0.100								
Benzo(a)pyrene	ND	0.100								
Benzo(b)fluoranthene	ND	0.100								
Benzo(g,h,i)perylene	ND	0.100								
Benzo(k)fluoranthene	ND	0.100								
Chrysene	ND	0.100								
Dibenz(a,h)anthracene	ND	0.100								
Fluoranthene	ND	0.100								
Fluorene	ND	0.100								
Indeno(1,2,3-cd)pyrene	ND	0.100								
Naphthalene	ND	0.100								
Phenanthrene	ND	0.100								
Pyrene	ND	0.100								
Surr: 2-Fluorobiphenyl	2.684	0.100	3.03	0	88.6	32 - 130				
Surr: 4-Terphenyl-d14	3.383	0.100	3.03	0	112	40 - 135				
Surr: Nitrobenzene-d5	3.807	0.100	3.03	0	126	45 - 142				

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17003
WorkOrder: HS23111372

QC BATCH REPORT

Batch ID: 203855 (0)		Instrument: SV-6		Method: LOW-LEVEL PAHS - 8270D					
LCS		Sample ID: LCS-203855		Units: ug/L		Analysis Date: 22-Nov-2023 11:38			
Client ID:		Run ID: SV-6_452528		SeqNo: 7690043		PrepDate: 21-Nov-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1-Methylnaphthalene	6.461	0.100	6.06	0	107	40 - 140			
2-Methylnaphthalene	6.477	0.100	6.06	0	107	40 - 140			
Acenaphthene	6.216	0.100	6.06	0	103	40 - 140			
Acenaphthylene	6.051	0.100	6.06	0	99.8	40 - 140			
Anthracene	7.437	0.100	6.06	0	123	40 - 140			
Benz(a)anthracene	8.132	0.100	6.06	0	134	40 - 140			
Benzo(a)pyrene	6.089	0.100	6.06	0	100	40 - 140			
Benzo(b)fluoranthene	6.154	0.100	6.06	0	102	40 - 140			
Benzo(g,h,i)perylene	5.946	0.100	6.06	0	98.1	40 - 140			
Benzo(k)fluoranthene	5.018	0.100	6.06	0	82.8	40 - 140			
Chrysene	6.849	0.100	6.06	0	113	40 - 140			
Dibenz(a,h)anthracene	7.14	0.100	6.06	0	118	40 - 140			
Fluoranthene	8.103	0.100	6.06	0	134	40 - 140			
Fluorene	6.76	0.100	6.06	0	112	40 - 140			
Indeno(1,2,3-cd)pyrene	6.626	0.100	6.06	0	109	40 - 140			
Naphthalene	5.631	0.100	6.06	0	92.9	40 - 140			
Phenanthrene	6.653	0.100	6.06	0	110	40 - 140			
Pyrene	5.91	0.100	6.06	0	97.5	40 - 140			
Surr: 2-Fluorobiphenyl	2.492	0.100	3.03	0	82.2	32 - 130			
Surr: 4-Terphenyl-d14	2.849	0.100	3.03	0	94.0	40 - 135			
Surr: Nitrobenzene-d5	3.065	0.100	3.03	0	101	45 - 142			

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17003
WorkOrder: HS23111372

QC BATCH REPORT

Batch ID: 203855 (0)		Instrument: SV-6		Method: LOW-LEVEL PAHS - 8270D						
LCSD		Sample ID: LCSD-203855		Units: ug/L		Analysis Date: 22-Nov-2023 11:59				
Client ID:		Run ID: SV-6_452528		SeqNo: 7690044		PrepDate: 21-Nov-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	7.271	0.100	6.06	0	120	40 - 140	6.461	11.8	25	
2-Methylnaphthalene	7.287	0.100	6.06	0	120	40 - 140	6.477	11.8	25	
Acenaphthene	6.195	0.100	6.06	0	102	40 - 140	6.216	0.352	25	
Acenaphthylene	5.946	0.100	6.06	0	98.1	40 - 140	6.051	1.75	25	
Anthracene	7.426	0.100	6.06	0	123	40 - 140	7.437	0.143	25	
Benz(a)anthracene	7.518	0.100	6.06	0	124	40 - 140	8.132	7.85	25	
Benzo(a)pyrene	6.682	0.100	6.06	0	110	40 - 140	6.089	9.28	25	
Benzo(b)fluoranthene	6.101	0.100	6.06	0	101	40 - 140	6.154	0.861	25	
Benzo(g,h,i)perylene	6.249	0.100	6.06	0	103	40 - 140	5.946	4.96	25	
Benzo(k)fluoranthene	5.592	0.100	6.06	0	92.3	40 - 140	5.018	10.8	25	
Chrysene	6.201	0.100	6.06	0	102	40 - 140	6.849	9.93	25	
Dibenz(a,h)anthracene	7.588	0.100	6.06	0	125	40 - 140	7.14	6.08	25	
Fluoranthene	8.291	0.100	6.06	0	137	40 - 140	8.103	2.29	25	
Fluorene	6.664	0.100	6.06	0	110	40 - 140	6.76	1.44	25	
Indeno(1,2,3-cd)pyrene	6.972	0.100	6.06	0	115	40 - 140	6.626	5.09	25	
Naphthalene	6.321	0.100	6.06	0	104	40 - 140	5.631	11.6	25	
Phenanthrene	6.7	0.100	6.06	0	111	40 - 140	6.653	0.707	25	
Pyrene	5.362	0.100	6.06	0	88.5	40 - 140	5.91	9.71	25	
Surr: 2-Fluorobiphenyl	2.464	0.100	3.03	0	81.3	32 - 130	2.492	1.11	25	
Surr: 4-Terphenyl-d14	2.601	0.100	3.03	0	85.8	40 - 135	2.849	9.09	25	
Surr: Nitrobenzene-d5	3.585	0.100	3.03	0	118	45 - 142	3.065	15.7	25	
The following samples were analyzed in this batch: HS23111372-01										

ALS Houston, US

Date: 22-Nov-23

Client: Permian Basin Environmental Lab, LP
Project: 3K17003
WorkOrder: HS23111372

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

ALS Houston, US

Date: 22-Nov-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

Date: 22-Nov-23

Sample Receipt Checklist

Work Order ID: HS23111372

Date/Time Received: 21-Nov-2023 08:09

Client Name: Permian Basin Lab

Received by: Paresh M. Giga

Completed By: /S/ Belinda Gomez	21-Nov-2023 10:00	Reviewed by: /S/ Anna Kinchen	22-Nov-2023 14:11
eSignature	Date/Time	eSignature	Date/Time

Matrices: WCarrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Samplers name present on COC?	Yes ☐	No ☒	
Chain of custody agrees with sample labels?	Yes ☐	No ☒	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	2.0uc1.9c ir31		
Cooler(s)/Kit(s):	med red		
Date/Time sample(s) sent to storage:	11/21/23 1000		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:			
Login Notes:	coc list sample ID 3K17003-01 but label list 3K17003-02		

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

PBELAB**CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**

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

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent BarronProject Name: SUBCONTRACTCompany Name: PBEL

Project #: _____

Company Address: 1400 Rankin HWY

Project Loc: _____

City/State/Zip: Midland Texas 79701

PO #: _____

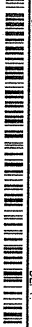
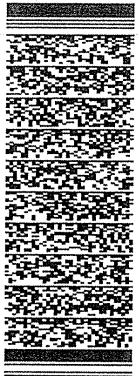
Telephone No: 432-661-4184

Fax No: _____

Report Format: ☒ Standard☐ TRRP☐ NPDESSampler Signature: N/Ae-mail: brentbarron@pbelab.com

ORDER #:		Preservation & # of Containers										Matrix		Analyze For:										
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	ICE	HNO ₃ 250 poly 1	HCl 3 40mL VOA	H ₂ SO ₄ 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	Na ₂ S ₂ O ₃	NONE	NONE 3 AMBER VOAA VIALS	DW=Drinking Water S=Sludge	GW = Groundwater S=Soil/Solid	NP=Non Potable Specify Other	8270C PAH LL	HS23111372	Permian Basin Environmental Lab, LP	3K17003	24 HOUR RUSH	STANDARD
	3K17003-01			11/15/2023	12:00		3	X							X	W			X				X	

SPECIAL INSTRUCTIONS:						Laboratory Comments:					
Relinquished by:	Date	Time	Received by:	Date	Time	Sample Containers Intact?	Y	N			
Brent Barron	11/20/23	17:00	<i>[Signature]</i>	11/21/23	08:09	VOCs Free of Headspace?	Y	N			
Relinquished by:	Date	Time	Received by:	Date	Time	Labels on container(s)	Y	N			
						Custody seals on container(s)	Y	N			
						Custody seals on cooler(s)	Y	N			
Relinquished by:	Date	Time	Received by:	Date	Time	Sample Hand Delivered	Y	N			
						by Sampler/Client Rep. ?	Y	N			
						by Courier?	UPS	DHL	FedEx	Lone Star	
						Temperature Upon Receipt:					
						Received:		°C			
						Adjusted:		°C Factor			

ORIGIN ID:AAFA (432) 886-7235	SHIP DATE: 20NOV23
PRET BARON	ACTWGT: 35.00 LB
PRET BARON	CAD: 107.3846INET4535
1400 PARKIN HWY	DIMS: 15X17X9 IN
MIDLAND, TX 79701	BILL RECIPIENT
UNITED STATES US	
TO SAMPLE RECEIVING	
ALS-HOUSTON	
10450 STANCLIFF RD	
HOUSTON TX 77099	
PO: (281) 530-5615	REF: 583J5F0B2/9AE3
DEPT:	
	
	
	
TRK# 7741 7142 8879	TUE - 21 NOV 8:00A
0261	FIRST OVERNIGHT
A1 SGRA	77099
TX-US IAH	
	

After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

**APPENDIX B:
Release Notification and Corrective Action
(NMOCD Form C-141)**

District I - (505) 393-6161
P.O. Box 1940
Tobbs, NM 88241-1980
District II - (505) 748-1283
111 South First
Artesia, NM 88210
District III - (505) 834-6178
1000 Rio Brazos Road
Artesia, NM 87410
District IV - (505) 827-7131

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-141
Originated 2/13/97

98-05A

Submit 2 copies to
Appropriate District
Office in accordance
with Rule 116 on
back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name Texas-New Mexico Pipe Line Company		Contact Edwin H. Gripp
Address Box 60028		Telephone No. 915-947-9000
Facility Name San Angelo, TX 76906		Facility Type pipe line
Surface Owner Nadine Owen	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	26	21S	37E					Lea

NATURE OF RELEASE

Type of Release Sour Crude	Volume of Release 38 barrels	Volume Recovered 4 barrels
Source of Release 6" gathering line	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 2/5/98; 10:25 a.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If Yes, To Whom? Linda Williams (Clerk #4)	
By Whom? Johnny W. Chapman	Date and Hour 2/5/98; 3:00 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If Yes, Volume Impacting the Watercourse N/A	
If a Watercourse was Impacted, Describe Fully: N/A		

Describe Cause of Problem and Remedial Action Taken.

Internal Corrosion
Leak successfully clamped off.

Describe Area Affected and Cleanup Action Taken.

Approximately 1260 sq.ft. pasture land.
Contaminated soil will be excavated and put on plastic.

Describe General Conditions Prevailing (Temperature, Precipitation, etc.).

Cloudy; 60 degrees

I hereby certify that the information given above is true and complete to the best of
my knowledge and belief.

Signature: *Edwin H. Gripp*
Printed Name: Edwin H. Gripp
Title: District Manager
Date: 2/12/98 Phone: 915-947-9000

OIL CONSERVATION DIVISION

Approved by
District Supervisor

Approval Date

Expiration Date

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary

State Oil Commission

Hazardous Waste Section

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 350386

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID:
	34053
	Action Number:
	350386
Action Type:	
[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)	

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2023 Annual Monitoring Report for the TNM 98-05A site: Content is satisfactory 1. Continue to conduct quarterly groundwater sampling events for constituents in 2024. 2. Continue to conduct PAH analysis on wells: MW-1, MW-2, MW-10 and MW-13. 3. Please document any unforeseen circumstances in the 2024 report if modification of the sampling event(s) is necessary. 4. Pump and gauge monitoring wells: MW-1, MW-2, MW-10 and MW-13 on a monthly basis as planned. 5. Submit the 2024 Annual Groundwater Monitoring Report by April 1, 2025.	6/14/2024