



**REVIEWED**

By Mike Buchanan at 11:07 am, Jul 17, 2024

2023

**ANNUAL MONITORING REPORT**

**TNM 97-04**

**SE ¼ SE ¼ of SECTION 11, TOWNSHIP 16 SOUTH, RANGE 35 EAST  
LEA COUNTY, NEW MEXICO  
PLAINS SRS NUMBER: TNM 97-04  
NMOCD Reference GW-0294  
Incident # nAPP2109542446**

Review of the 2023 Annual Monitoring Report for TNM 97-04: content satisfactory

1. Resume operation of the ERS (Enhanced Recovery System) for the 2024 reporting period after upgrades have been put in place.
2. Conduct O&M for the system with shut-down periods as necessary.
3. Continue PSH recovery, quarterly groundwater monitoring for BTEX and PAH by method SW-846, and 8270.
4. Continue to conduct low-flow sampling on MW-10, MW-9, MW-5, MW-6, MW-15 and MW-14 as prescribed for MNA.
- 5 Submit the 2024 annual report to OCD electronically by May 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 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 1 of each year. Beginning on May 29, 2004, project management responsibilities were assumed by TRC, previously NOVA Safety and Environmental, Inc. (NOVA). The TNM 97-04 Release Site (the site), which was formerly the responsibility of Texas New Mexico Pipeline Company (TNMPL), is now the responsibility of Plains. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2023. In addition, historical data tables are provided in this report. A Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2023 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbons (PSH). Each groundwater monitoring event consisted of measuring static water levels in monitor and recovery wells, checking for the presence of PSH on the water column, and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing a thickness of PSH greater than 0.01 foot were not sampled, with the exception of wells selected as part of the monitored natural attenuation (MNA) sampling activities.

## SITE DESCRIPTION AND BACKGROUND INFORMATION

The Site is located in the SE 1/4 of the SE 1/4 of Section 11, Township 16 South, Range 35 East in Lea County, New Mexico. Initial site investigation activities were performed for TNMPL by other environmental consultants. No other specifics concerning the release are currently available. The Release Notification and Corrective Action Form (C-141) is provided as Appendix B.

In November 2005, monitor wells MW-1 and MW-8 were plugged and abandoned with NMOCD approval. On August 9, 2006, monitor well MW-17 was plugged and abandoned with NMOCD approval.

In October 2009, an *Enhanced Recovery System Workplan* was submitted and subsequently approved by the NMOCD. In March 2009, Plains installed eight (8) air-sparging wells (AS-1 through AS-8) and three (3) recovery wells (RW-2, RW-3, and RW-4) at the Site as part of the Enhanced Recovery System (Recovery System). In April 2010, Plains completed the installation of the trailer mounted air-sparging system with ancillary air lines connected to the eight (8) sparging wells. Four (4) total fluid pumps were initially installed within the four (4), 4-inch diameter recovery wells (RW-1 through RW-4).

The Recovery System commenced operation during the 3<sup>rd</sup> quarter of 2010. A Recovery System Start-Up Report documenting the activities was submitted to the NMOCD in May 2011.

There are currently fifteen (15) monitor wells (MW-2 through MW-7, MW-9 through MW-16, and MW-18), with the eight (8) air-sparging (AS-1 through AS-8), and four (4) recovery wells

(RW-1 through RW-4) on site. An NMOCD permitted infiltration gallery associated with the Recovery System is located on the northwest corner (upgradient) of the Site. The infiltration gallery was not utilized while extensive repair and maintenance activities were in progress.

## **FIELD ACTIVITIES**

### **Remediation Efforts**

The Recovery System utilizes compressed air to power the eight (8) air-sparging wells along with six (6) total fluid pumps placed in recovery wells RW-1 through RW-4 and monitor wells MW-3 and MW-6. The total fluid pumps operate at a maximum pumping rate of approximately two (2) to three (3) gallons per minute (gpm) per well with a combined pumping rate of approximately twelve (12) to eighteen (18) gpm. Recovered oil and water is collected in a five hundred (500) barrel frac tank, where the recovered oil and water separate. Recovered groundwater is pumped to a large poly aeration tank to allow for the volatilization of the hydrocarbons. Groundwater is transferred through a three (3) bag particulate filter system prior to being pumped through two (2) 500-pound granulated activated carbon (GAC) filtration canisters. Under normal operating conditions, the treated groundwater is sampled from a post-carbon sample port on a monthly basis and is discharged under Discharge Permit GW-294 to an infiltration gallery located upgradient to the northwest of the release point.

Please note, during maintenance activities, all groundwater recovered from the Site was stored in the on-site frac tank and was periodically transported to an NMOCD approved disposal. During the maintenance activities no water has been discharged to the on-site infiltration gallery wells.

The eight (8) air-sparging wells were each installed to a depth of approximately sixty-five (65) feet below ground surface (bgs) and operate at a pressure of approximately five (5) psi per well. The air-sparging array is designed to aerate the downgradient edge of the dissolved phase hydrocarbon plume while pressing the PSH plume upgradient toward the four (4) recovery wells (RW-1 through RW-4) and two (2) monitor wells (MW-3 and MW-6). The sparging system remained operational following the system shut down to maintain downgradient control of the PSH plume.

A measurable thickness of PSH was present in six (6) of the fifteen (15) monitor wells (MW-2 through MW-6 and MW-9) and the four (4) recovery wells (RW-1 through RW-4) during all (4) quarters of the reporting period. The average thickness of PSH in monitor wells and recovery wells exhibiting PSH was 2.62 feet. The maximum thickness of PSH in monitor wells and recovery wells was 4.21 feet as recorded in monitor well MW-5 on August 7, 2023. PSH data for the 2023 gauging events can be found in Table 1. Approximately 191.27 gallons (approximately 4.55 barrels) of PSH was recovered from the Site during the 2023 reporting period. A total of approximately 10,643.99 gallons (approximately 253.42 barrels) of PSH have been recovered since project inception.

## Groundwater Monitoring

Quarterly monitoring events for the reporting period were performed according to the following reduced sampling schedule, which was approved by the NMOCD in correspondence dated April 28, 2004, and amended in correspondence dated June 22, 2005, May 5, 2006, and March 27, 2012.

NMOCD Approved Sampling Schedule							
MW-1	P&A	MW-8	P&A	MW-15	Quarterly	RW-3	Quarterly
MW-2	Quarterly	MW-9	Quarterly	MW-16	Annually	RW-4	Quarterly
MW-3	Quarterly	MW-10	Annually	MW-17	P&A		
MW-4	Quarterly	MW-11	Annually	MW-18	Quarterly		
MW-5	Quarterly	MW-12	Annually	RW-1	Quarterly		
MW-6	Quarterly	MW-13	Quarterly	RW-2	Quarterly		
MW-7	Annually	MW-14	Quarterly	RW-3	Quarterly		

The Site monitor wells were gauged and sampled on February 13-17, May 15-16, August 7-9, and December 7-9, 2023. During each sampling event, monitor wells were purged of a minimum of three (3) well volumes of water or until the wells failed to produce water. Purging was performed using a disposable polyethylene bailer for each well or electrical Grundfos pump and dedicated tubing. Groundwater was allowed to recharge and samples were collected using disposable polyethylene 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-10, MW-9, MW-5, MW-6, MW-15, and MW-14 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-10, MW-9, MW-5, MW-6, MW-15, and MW-14) were sampled for concentrations of benzene, toluene, ethylbenzene, and xylene (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.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during each quarterly sampling event of 2023, are depicted on the Inferred Groundwater Gradient Maps, Figures 2A-2D. Groundwater elevation data for 2023 is provided as Table 1. Historical groundwater elevation data beginning at project inception is summarized on Table 7.

The most recent Inferred Groundwater Gradient Map, Figure 2D, indicated a gradient of 0.0030 feet/foot to the southeast as measured between monitor well MW-10 and MW-13. Groundwater Gradient Maps generated during the 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> quarters of the reporting period indicated a

gradient ranging from 0.0024 to 0.0027 feet/foot in a southeast direction. The corrected groundwater elevations ranged between 3,920.42 and 3,921.48 feet above mean sea level, in monitor well MW-13 on December 8, 2023, and recovery well RW-1 on February 14, 2023, respectively.

## LABORATORY RESULTS

### Monitor and recovery well quarterly sampling activities.

A measurable thickness of PSH was present in six (6) of the fifteen (15) monitor wells (MW-2, MW-3, MW-4, MW-5, MW-6, and MW-9) and the four (4) recovery wells (RW-1, RW-2, RW-3, and RW-4) during all (4) quarters of the reporting period.

Groundwater samples obtained during all four (4) quarterly sampling events of 2023 were delivered to Permian Basin Environmental Laboratories, LP (PBE Lab) 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 4<sup>th</sup> quarter of the 2023 calendar year on selected monitor and recovery wells. Based on historical PAH analytical data, only those wells exhibiting elevated constituent concentrations above New Mexico Water Quality Control Commission (NMWQCC) Drinking Water Standards are sampled, generally with the exclusion of those wells containing measurable PSH thicknesses. The analytical results of 2023 polynuclear aromatic hydrocarbon concentrations in groundwater are summarized in Table 3 and historical polynuclear aromatic hydrocarbon concentrations in groundwater are summarized in Table 9. A listing of 2023 BTEX concentrations in groundwater are summarized in Table 2 and historical BTEX concentrations in groundwater are summarized in Table 8. 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-2** is monitored/sampled on a quarterly schedule. Monitor well MW-2 was not sampled during all four (4) quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 2.34 feet, 2.61 feet, 3.67 feet, and 3.31 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2023, respectively. During the 4<sup>th</sup> quarter sampling event, PAH was not collected due to the presence of PSH.

**Monitor well MW-3** is monitored/sampled on a quarterly schedule. Monitor well MW-3 was not sampled during all four (4) quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 3.37 feet, 1.52 feet, 1.97 feet, and 2.06 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2023, respectively. During the 4<sup>th</sup> quarter sampling event, PAH was not collected due to the presence of PSH.

**Monitor well MW-4** is monitored/sampled on a quarterly schedule. Monitor well MW-4 was not sampled during all four (4) quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.59 feet, 1.19 feet, 1.70 feet, and 1.88 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and

4<sup>th</sup> quarters of 2023, respectively. During the 4<sup>th</sup> quarter sampling event, PAH was not collected due to the presence of PSH.

**Monitor well MW-5** is sampled on a quarterly schedule and the analytical results indicated benzene concentrations ranged from 4.96 mg/L during the 3<sup>rd</sup> quarter to 25.0 mg/L during the 2<sup>nd</sup> quarter of 2023. Benzene concentrations were above the NMOCD regulatory guidelines during all four (4) quarters of the reporting period. Toluene concentrations ranged from 1.86 mg/L during the 3<sup>rd</sup> quarter to 11.9 mg/L during the 2<sup>nd</sup> quarter of 2023. Toluene concentrations were above the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from 0.651 mg/L during the 1<sup>st</sup> quarter to 2.26 during the 2<sup>nd</sup> quarter of the reporting period. Ethylbenzene concentrations were above the NMOCD regulatory guidelines during the 2<sup>nd</sup> and 4<sup>th</sup> quarters of the reporting period. Xylene concentrations ranged from 1.253 mg/L during the 1<sup>st</sup> quarter to 5.94 mg/L during the 2<sup>nd</sup> quarter of the reporting period. Xylene concentrations were above the NMOCD regulatory guidelines during the four (4) quarters of the reporting period.

PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above NMWQCC Drinking Water Standards for fluorene (0.84 mg/L), indeno[1,2,3-cd]pyrene (0.18 mg/L), phenanthrene (0.043 mg/L), pyrene (0.024 mg/L), and naphthalene (1.848 mg/L).

Monitor well MW-5 was selected as an MNA parameter well and is located in the “Center of Plume” location. PSH thicknesses were removed prior to the collection of groundwater samples during the reporting period and groundwater samples 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 Date	Sample Location	pH (SU) ±10%	Temp C ±10%	Conductivity (u-mhos/cm) ±10%	ORP (mV) ±10%	DO mg/L ±10%	Turbidity (NTUs) ±10% or < 5 NTUs
02/14/23	MW-5	0.75	6.66	20.83	0.847	-26	2.46
05/16/23	MW-5	1.5	6.91	24.2	573.29	-242.1	0.47
08/09/23	MW-5	1.00	7.00	23.46	0.79	-277.2	0.11
12/07/23	MW-5	1.00	7.31	21.33	0.83	284.5	0.13

Analytical benzene data for the previous nine (9) quarters 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 the previous nine (9) quarters was entered into the GSI-MKT, which indicated the Concentration Trend was “No Trend” in monitor well MW-5. Analytical ethylbenzene data for the previous nine (9) quarters was entered into the GSI-MKT, which indicated the Concentration Trend was “No Trend” in monitor well MW-5. Analytical xylene data for the previous nine (9) quarters was entered into the GSI-MKT, which indicated the Concentration Trend was “No Trend” in monitor well MW-5.



Please reference Tables 13 through 16 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 applicable laboratory RL are depicted on the GSI Mann-Kendall Toolkit for Constituent Trend Analysis spreadsheet at the laboratory RL.**

Monitor well MW-6 is sampled on a quarterly schedule and the analytical results indicated benzene concentrations ranged from 0.00563 mg/L during the 1<sup>st</sup> quarter to 1.15 mg/L during the 4<sup>th</sup> quarter of 2023. Benzene concentrations were above the NMOCD regulatory guidelines during the 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of the reporting period. Toluene concentrations ranged from below the applicable laboratory RL during the 3<sup>rd</sup> and 4<sup>th</sup> quarters to 0.00241 mg/L during the 1<sup>st</sup> quarter of 2023. Toluene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from 0.00203 mg/L during the 2<sup>nd</sup> quarter to 0.0103 mg/L during the 4<sup>th</sup> quarter of the reporting period. Ethylbenzene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Xylene concentrations ranged from below the applicable laboratory RL during the 4<sup>th</sup> quarter to 0.01229 mg/L during the 1<sup>st</sup> quarter of the reporting period. Xylene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period.

PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above NMWQCC Drinking Water Standards for pyrene (1.4 mg/L).

Monitor well MW-6 was selected as an MNA parameter well and is located in the “Downgradient within Plume” location. PSH thicknesses were removed prior to the collection of groundwater samples during the reporting period and groundwater samples 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 Date	Sample Location	pH (SU) ±10%	Temp C ±10%	Conductivity (u-mhos/cm) ±10%	ORP (mV) ±10%	DO mg/L ±10%	Turbidity (NTUs) ±10% or < 5 NTUs
02/14/23	MW-6	0.75	6.97	20.24	0.784	-84	1.40
05/16/23	MW-6	1.00	7.29	21.29	674.98	-127.7	0.46
08/09/23	MW-6	1.75	7.22	23.37	0.79	-247.5	0.93
12/07/23	MW-6	1.25	7.4	20.27	0.88	-129.9	0.24

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-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 “Decreasing” 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 “Decreasing” in monitor well MW-6.

**Please note, due to the limitations of the GSI Mann-Kendall Toolkit, constituents exhibiting concentrations less than the applicable laboratory RL are depicted on the GSI Mann-Kendall Toolkit for Constituent Trend Analysis spreadsheet at the 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 Reporting Limit (RL) and the NMOCD regulatory guideline during the 4<sup>th</sup> quarter sampling event. The analytical results indicated BTEX constituent concentrations have been below the NMOCD regulatory guidelines since the 3<sup>rd</sup> quarter of 2001. PAH analysis was not required in monitor well MW-7 based on historical PAH analytical data.

**Monitor well MW-9** is sampled on a quarterly schedule and the analytical results indicated benzene concentrations ranged from 0.00952 mg/L during the 3<sup>rd</sup> quarter to 0.0148 mg/L during the 1<sup>st</sup> quarter of 2023. Benzene concentrations were above the NMOCD regulatory guidelines during the 1<sup>st</sup>, 2<sup>nd</sup>, and 4<sup>th</sup> quarters of the reporting period. Toluene concentrations ranged from 0.0059 mg/L during the 4<sup>th</sup> quarter to 0.0204 mg/L during the 1<sup>st</sup> quarter of 2023. Toluene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from 0.126 mg/L during the 4<sup>th</sup> quarter to 0.0266 mg/L during the 2<sup>nd</sup> quarter of the reporting period. Ethylbenzene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Xylene concentrations ranged from 0.423 mg/L during the 4<sup>th</sup> quarter to 0.929 mg/L during the 2<sup>nd</sup> quarter of the reporting period. Xylene concentrations were above the NMOCD regulatory guidelines during the 2<sup>nd</sup> quarter of the reporting period.

PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above NMWQCC Drinking Water Standards for dibenz[a,h]anthracene (0.0041 mg/L), fluoranthene (0.035 mg/L), and fluorene (0.0051 mg/L).

Monitor well MW-9 was selected as an MNA parameter well and is located in the “Upgradient within Plume” location. PSH thicknesses were removed prior to the collection of groundwater samples during reporting period and groundwater samples 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-9.

Sample Date	Sample Location	pH (SU) ±10%	Temp C ±10%	Conductivity (u-mhos/cm) ±10%	ORP (mV) ±10%	DO mg/L ±10%	Turbidity (NTUs) ±10% or < 5 NTUs
02/14/23	MW-9	0.75	7.13	20.50	0.735	-162	0
05/16/23	MW-9	1.00	7.39	21.68	660.73	-365.9	0.34
08/09/23	MW-9	1.25	7.26	23.30	0.00	-365.9	1.02
12/07/23	MW-9	1.25	7.44	20.01	0.73	-301.8	0.24

Analytical benzene 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-9. Analytical toluene 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-9. Analytical ethylbenzene 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-9. 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-9.

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

**Monitor well MW-10** is sampled on an annual schedule however, MW-10 was selected as an MNA parameter well and was sampled the four (4) quarters during the reporting period. Analytical results indicated benzene, toluene, ethylbenzene, and xylene concentrations were less than the applicable laboratory RL and the NMOCD regulatory guideline during all four (4) quarters of the reporting period. PAH analysis was not required in monitor well MW-10 based on historical PAH analytical data.

Monitor well MW-10 was selected as an MNA parameter well and is located in the “Upgradient of Plume” location. Groundwater samples 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 Date	Sample Location	pH (SU) ±10%	Temp C ±10%	Conductivity (u-mhos/cm) ±10%	ORP (mV) ±10%	DO mg/L ±10%	Turbidity (NTUs) ±10% or < 5 NTUs
02/14/23	MW-10	0.75	7.82	19.52	0.758	123	6.14
05/16/23	MW-10	1.00	7.33	20.59	656.27	-39.2	7.78
8/9/23	MW-10	1.25	7.32	26.64	0.75	20.4	7.69
12/07/23	MW-10	0.75	7.78	19.38	0.73	63.3	7.99

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-10. 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-10. 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-10. 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-10.

**Please note, due to the limitations of the GSI Mann-Kendall Toolkit, constituents exhibiting concentrations less than the applicable laboratory RL are depicted on the GSI Mann-Kendall Toolkit for Constituent Trend Analysis spreadsheet at the 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 4<sup>th</sup> quarter sampling event. The analytical results indicated BTEX constituent concentrations have been below the NMOCD regulatory guidelines since the 1<sup>st</sup> quarter of 2004. PAH analysis was not required in monitor well MW-11 based on historical PAH analytical data.

**Monitor well MW-12** 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 4<sup>th</sup> quarter sampling event. The analytical results indicated BTEX constituent concentrations have been below the NMOCD regulatory guidelines since the 1<sup>st</sup> quarter of 2000. PAH analysis was not required in monitor well MW-12 based on historical PAH analytical data.

**Monitor well MW-13** is sampled on a quarterly schedule and the analytical results indicated benzene and ethylbenzene constituent concentrations were less than the applicable laboratory RL and the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Toluene concentrations ranged from less than the applicable laboratory RL during the 1<sup>st</sup>, 2<sup>nd</sup>, and 4<sup>th</sup> quarters to 0.00104 mg/L during the 3<sup>rd</sup> quarter of the reporting period. Toluene concentrations were below the NMOCD regulatory guidelines for the four (4) quarters of the reporting period. Xylene concentrations ranged from below the applicable laboratory RL during the 1<sup>st</sup>, 2<sup>nd</sup>, and 4<sup>th</sup> quarters to 0.00416 mg/L during the 3<sup>rd</sup> quarter. Xylene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. The analytical results indicated BTEX constituent concentrations have been below the NMOCD regulatory guidelines since the 2<sup>nd</sup> quarter of 2012. PAH analysis was not required in monitor well MW-13 based on historical PAH analytical data.

**Monitor well MW-14** is sampled on a quarterly schedule and the analytical results indicated benzene and toluene constituent concentrations were less than the applicable laboratory RL and the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from less than the applicable laboratory RL during the 2<sup>nd</sup> and 4<sup>th</sup> quarters to 0.00470 mg/L during the 3<sup>rd</sup> quarter of the reporting period. Ethylbenzene concentrations were below the NMOCD regulatory guidelines for the four (4) quarters of the reporting period. Xylene concentrations ranged from below the applicable laboratory RL during the 2<sup>nd</sup> and 4<sup>th</sup> quarters to 0.02543 mg/L during the 3<sup>rd</sup> quarter. Xylene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. PAH analysis was not required in monitor well MW-14 based on historical PAH analytical data.

Monitor well MW-14 was selected as an MNA parameter well and is located in the “Cross 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-14.

Sample Date	Sample Location	pH (SU) ±10%	Temp C ±10%	Conductivity (u-mhos/cm) ±10%	ORP (mV) ±10%	DO mg/L ±10%	Turbidity (NTUs) ±10% or < 5 NTUs
02/14/23	MW-14	0.75	7.53	20.44	0.705	48	0.99
05/16/23	MW-14	1.00	6.99	21.06	590.52	-73.6	1.67
08/09/23	MW-14	1.00	7.08	21.27	0.67	-64.4	1.22
12/07/23	MW-14	1.00	7.56	20.02	0.65	-16.3	2.15

Analytical benzene 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-14. 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-14. Analytical ethylbenzene 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-14. 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-14.

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

**Monitor well MW-15** is sampled on a quarterly schedule and the analytical results indicated BTEX constituent concentrations were less than the applicable laboratory RL and the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. The analytical results indicated BTEX constituent concentrations have been below the NMOCD regulatory guidelines since the 2<sup>nd</sup> quarter of 2015. PAH analysis was not required in monitor well MW-15 based on historical PAH analytical data.

Monitor well MW-15 was selected as an MNA parameter well and is located in the “Downgradient of Plume” location. Groundwater samples 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-15.

Sample Date	Sample Location	pH (SU) ±10%	Temp C ±10%	Conductivity (u-mhos/cm) ±10%	ORP (mV) ±10%	DO mg/L ±10%	Turbidity (NTUs) ±10% or < 5 NTUs
02/14/23	MW-15	0.75	7.63	19.84	0.609	117	5.92
05/16/23	MW-15	1.00	7.27	20.93	556.6	-59.8	2.49
08/09/23	MW-15	1.00	7.27	22.80	0.61	-13	2.27
12/07/23	MW-15	1.00	7.76	20.11	0.59	35.9	3.57

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-15. 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-15. 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-15. 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-15.

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

**Monitor well MW-16** 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 4<sup>th</sup> quarter sampling event. The analytical results indicated BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 1<sup>st</sup> quarter of 2004. PAH analysis was not required in monitor well MW-16 based on historical PAH analytical data.

**Monitor well MW-18** is sampled on a quarterly schedule and the analytical results indicated BTEX constituent concentrations were less than the applicable laboratory RL and the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. The analytical results indicated BTEX constituent concentrations have been below the NMOCD regulatory guidelines since the 3<sup>rd</sup> quarter of 2009. PAH analysis was not required in monitor well MW-18 based on historical PAH analytical data.

**Recovery well RW-1** is monitored on a quarterly schedule. Recovery well RW-1 was not sampled during the four (4) quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 3.75 feet, 1.41 feet, 2.72 feet, and 3.62 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2023, respectively. During the 4<sup>th</sup> quarter sampling event, PAH was not collected due to the presence of PSH.

**Recovery well RW-2** is monitored on a quarterly schedule. Recovery well RW-2 was not sampled during the four (4) quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 2.27 feet, 2.50 feet, 2.69 feet, and 2.92 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2023, respectively. During the 4<sup>th</sup> quarter sampling event, PAH was not collected due to the presence of PSH.

**Recovery well RW-3** is monitored on a quarterly schedule. Recovery well RW-3 was not sampled during the four (4) quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 2.44 feet, 2.13 feet, 2.69 feet, and 2.81 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2023, respectively. During the 4<sup>th</sup> quarter sampling event, PAH was not collected due to the presence of PSH.

**Recovery well RW-4** is monitored on a quarterly schedule. Recovery well RW-4 was not sampled during the four (4) quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 3.39 feet, 2.56 feet, 2.63 feet, and 3.08 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters

of 2023, respectively. During the 4<sup>th</sup> quarter sampling event, PAH was not collected due to the presence of PSH.

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

### **Effluent water sampling activities**

As requested by the NMOCD in December 2019, “post carbon” water samples were collected and analyzed for concentrations of NMWQCC metals on a monthly schedule to ensure metal concentrations did not exceed the NMWQCC Drinking Water Standards.

During the 2023 reporting period, four (4) “post-carbon” monthly effluent water samples (May 5, August 4, August 30, and September 27, 2023) were collected and submitted to the laboratory for analysis of NMWQCC metals. The analytical results indicated all concentrations of NMWQCC metals were less the NMWQCC Drinking water standards with the exception of Total Iron during the August 30, 2023, sampling event. The filter baskets have been replaced with a polymer container and filter media. Please reference Table 4 for the 2023 NMWQCC Metals Concentrations in Effluent Groundwater and Table 10 for the historical NMWQCC Metals Concentrations in Effluent Groundwater.

On May 5, 2023, Effluent water (post-carbon) samples were collected and delivered to Permian Basin Environmental Laboratories, in Midland, Texas for determination of BTEX constituent concentrations by EPA Method 8021B and PAH analysis using EPA Method 8270.

On August 4, 2023, Effluent water (post-carbon) samples were collected and delivered to Permian Basin Environmental Laboratories, in Midland, Texas for determination of BTEX constituent concentrations by EPA Method 8021B and PAH analysis using EPA Method 8270.

On August 30, 2023, Effluent water (post-carbon) samples were collected and delivered to Permian Basin Environmental Laboratories, in Midland, Texas for determination of BTEX constituent concentrations by EPA Method 8021B and PAH analysis using EPA Method 8270.

On September 27, 2023, Effluent water (post-carbon) samples were collected and delivered to Permian Basin Environmental Laboratories, in Midland, Texas for determination of BTEX constituent concentrations by EPA Method 8021B and PAH analysis using EPA Method 8270.

The analytical results of “post carbon” effluent water analysis indicated the concentrations of BTEX constituents were less than the applicable laboratory RL and below NMWQCC Drinking Water Standards. On receipt and evaluation of the analytical results, the enhanced recovery system was taken out of service for maintenance and no additional monthly water samples were collected while repairs to the system were in progress.

Please note, during maintenance activities, all groundwater recovered from the Site was stored in the on-site frac tank and periodically transported to an NMOCD approved disposal. During the maintenance activities no water has been discharged to the on-site infiltration gallery wells.

Please note, the sparging system remained operational following the system shut down to maintain downgradient control of the PSH plume. Please reference Table 5 for a summary of 2023 BTEX concentrations in effluent groundwater and Table 11 for a summary of historical BTEX concentrations in effluent groundwater.

The analytical results indicated the PAH constituent concentrations were less than the applicable laboratory RL and NMWQCC Drinking Water Standards. Please reference Table 6 for a summary of 2023 polynuclear aromatic hydrocarbon concentrations in effluent groundwater and Table 12 for a summary of polynuclear aromatic hydrocarbon concentrations in effluent groundwater.

Laboratory analytical results were compared to the NMOCD regulatory guidelines 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

Historically, 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, manganese<sup>2+</sup>, iron<sup>3+</sup>, 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/recovery wells were sampled. These wells generally included one (1) well upgradient of the plume (MW-10), one (1) well upgradient within the plume (MW-9), one (1) well near the center of the plume (MW-5), one (1) well downgradient within the plume (MW-6), one (1) well downgradient of the plume (MW-15), and one (1) well cross-gradient of the plume center (MW-14).

The six (6) monitor/recovery wells (MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14) 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, Total Iron (filtered) using Method EPA 6010B, Total 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 applicable laboratory RL are depicted on the GSI Mann-Kendall Toolkit for Constituent Trend Analysis spreadsheet at the laboratory RL.**

For the 1<sup>st</sup> quarter the analytical results for concentrations of benzene ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-15, and MW-14 to 5.60 mg/L for monitor well MW-5.

For the 2<sup>nd</sup> quarter the analytical results for concentrations of benzene ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-15, and MW-14 to 25.0 mg/L for monitor well MW-5.

For the 3<sup>rd</sup> quarter the analytical results for concentrations of benzene ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-15, and MW-14 to 4.96 mg/L for monitor well MW-5.

For the 4<sup>th</sup> quarter the analytical results for concentrations of benzene ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-15, and MW-14 to 8.91 mg/L for monitor well MW-5.

Please reference Table 13 for GSI-MKT benzene results. Analytical benzene data for up to the previous ten (10) years was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14. The GSI-MKT indicated the Concentration Trends for MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14 were as follows “Stable”, “No Trend”, “Stable”, “Decreasing”, “Decreasing”, and “Probably Decreasing”.

For the 1<sup>st</sup> quarter the analytical results for concentrations of toluene ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-15, and MW-14 to 2.24 mg/L for monitor well MW-5.

For the 2<sup>nd</sup> quarter the analytical results for concentrations of toluene ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-15, and MW-14 to 11.90 mg/L for monitor well MW-5.

For the 3<sup>rd</sup> quarter the analytical results for concentrations of toluene ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-15, MW-6, and MW-14 to 1.86 mg/L for monitor well MW-5.

For the 4<sup>th</sup> quarter the analytical results for concentrations of toluene ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-15, MW-6, and MW-14 to 5.10 mg/L for monitor well MW-5.

Please reference Table 14 for GSI-MKT toluene results. Analytical toluene data for up to the previous ten (10) years was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14. The GSI-MKT indicated the Concentration Trends for MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14 were as follows “No Trend”, “Stable”, “No Trend”, “No Trend”, “No Trend”, and “No Trend”.

For the 1<sup>st</sup> quarter the analytical results for concentrations of ethylbenzene ranged from less than the applicable laboratory RL for monitor wells MW-10 and MW-15 to 0.651 mg/L for monitor well MW-5.

For the 2<sup>nd</sup> quarter the analytical results for concentrations of ethylbenzene ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-15, and MW-14 to 2.26 mg/L for monitor well MW-5.

For the 3<sup>rd</sup> quarter the analytical results for concentrations of ethylbenzene ranged from less than the applicable laboratory RL for monitor wells MW-10 and MW-15 to 0.697 mg/L for monitor well MW-5.

For the 4<sup>th</sup> quarter the analytical results for concentrations of ethylbenzene ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-15, and MW-14 to 1.36 mg/L for monitor well MW-5.

Please reference Table 15 for GSI-MKT ethylbenzene results. Analytical ethylbenzene data for up to the previous ten (10) years was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14. The GSI-MKT indicated the Concentration Trends for MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14 were as follows “Stable”, “Probably Increasing”, “No Trend”, “Decreasing”, “Decreasing”, and “Probably Decreasing”.

For the 1<sup>st</sup> quarter the analytical results for concentrations of xylene ranged from less than the applicable laboratory RL for monitor wells MW-10 and MW-15 to 1.253 mg/L for monitor well MW-5.

For the 2<sup>nd</sup> quarter the analytical results for concentrations of xylene ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-15, and MW-14 to 5.940 mg/L for monitor well MW-5.

For the 3<sup>rd</sup> quarter the analytical results for concentrations of xylene ranged from less than the applicable laboratory RL for monitor wells MW-10 and MW-15 to 1.685 mg/L for monitor well MW-5.

For the 4<sup>th</sup> quarter the analytical results for concentrations of xylene ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-6, MW-15, and MW-14 to 3.60 mg/L for monitor well MW-5.

Please reference Table 16 for GSI-MKT xylene results. Analytical xylene data for up to the previous ten (10) years was entered into the GSI Mann-Kendall Toolkit (GSI-MKT) for monitor wells MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14. The GSI-MKT indicated the Concentration Trends for MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14 were as follows “No Trend”, “Probably Increasing”, “No Trend”, “Decreasing”, “No Trend”, and “Decreasing”.

For the 1<sup>st</sup> quarter the analytical results for concentrations of TOC ranged from below the applicable laboratory RL for monitor well MW-14 to 5.31 mg/L for monitor well MW-6.

For the 2<sup>nd</sup> quarter the analytical results for concentrations of TOC were less than the applicable laboratory RL for monitor wells MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14.

For the 3<sup>rd</sup> quarter the analytical results for concentrations of TOC ranged from below the applicable laboratory RL for monitor well MW-14 to 5.75 mg/L for monitor well MW-5.

For the 4<sup>th</sup> quarter the analytical results for concentrations of TOC ranged from 1.16 mg/L for monitor well MW-14 to 7.29 mg/L for monitor well MW-6.

Please reference Table 17 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-10, MW-9, MW-5, MW-6, MW-15, and MW-14. The GSI-MKT indicated the Concentration Trends for MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14 were as follows “Decreasing”, “Probably Decreasing”, “Probably Decreasing”, “Stable”, “No Trend”, and “No Trend”.

For the 1<sup>st</sup> quarter the analytical results for concentrations of Dissolved Methane ranged from 0.00128 mg/L for monitor well MW-10 to 10.7 mg/L for monitor well MW-5.

For the 2<sup>nd</sup> quarter the analytical results for concentrations of Dissolved Methane ranged from 0.000607 mg/L for monitor well MW-10 to 9.96 mg/L for monitor well MW-5.

For the 3<sup>rd</sup> quarter the analytical results for concentrations of Dissolved Methane ranged from below the applicable laboratory RL for monitor well MW-10 to 5.88 mg/L for monitor well MW-5.

For the 4<sup>th</sup> quarter the analytical results for concentrations of Dissolved Methane ranged from 0.00360 mg/L for monitor well MW-10 to 5.28 mg/L for monitor well MW-5.

Please reference Table 18 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-10, MW-9, MW-5, MW-6, MW-15, and MW-14. The GSI-MKT indicated the Concentration Trends for MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14 were as follows “Stable”, “No Trend”, “No Trend”, “No Trend”, “Increasing”, and “No Trend”.

For the 1<sup>st</sup> quarter the analytical results for concentrations of Dissolved Ethane ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-9, MW-5, MW-15, and MW-14 to 0.00435 mg/L for monitor well MW-6.

For the 2<sup>nd</sup> quarter the analytical results for concentrations of Dissolved Ethane were less than the applicable laboratory RL for monitor wells MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14.

For the 3<sup>rd</sup> quarter the analytical results for concentrations of Dissolved Ethane were less than the applicable laboratory RL for monitor wells MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14.

For the 4<sup>th</sup> quarter the analytical results for concentrations of Dissolved Ethane ranged from less than the applicable laboratory RL for monitor wells MW-10 and MW-6 to 0.439 mg/L for monitor well MW-5.

Please reference Table 19 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-10, MW-9, MW-5, MW-6, MW-15, and MW-14. The GSI-MKT indicated the Concentration Trends for MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14 were as follows “Stable”, “No Trend”, “No Trend”, “Stable”, “No Trend”, and “No Trend”.

For the 1<sup>st</sup> quarter the analytical results for concentrations of Dissolved Ethene were less than the applicable laboratory RL for monitor wells MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14. For the 2<sup>nd</sup> quarter the analytical results for concentrations of Dissolved Ethene were less than the applicable laboratory RL for monitor wells MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14.

For the 3<sup>rd</sup> quarter the analytical results for concentrations of Dissolved Ethene were less than the applicable laboratory RL for monitor wells MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14.

For the 4<sup>th</sup> quarter the analytical results for concentrations of Dissolved Ethene ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-5, MW-6, MW-15, and MW-14 to 0.00851 mg/L for monitor well MW-9.

Please reference Table 20 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-10, MW-9, MW-5, MW-6, MW-15, and MW-14. The GSI-MKT indicated the Concentration Trends for MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14 were as follows “Stable”, “No Trend”, “Stable”, “Probably Decreasing”, “Stable”, and “Probably Decreasing”.

For the 1<sup>st</sup> quarter the analytical results for concentrations of Dissolved Iron (filtered) ranged from 0.250 mg/L for monitor well MW-14 to 23.1 mg/L for monitor well MW-6.

For the 2<sup>nd</sup> quarter the analytical results for concentrations of Dissolved Iron (filtered) ranged from less than the applicable laboratory RL for monitor MW-10, MW-9, MW-6, MW-15, and MW-14 to 1.77 mg/L for monitor well MW-5.

For the 3<sup>rd</sup> quarter the analytical results for concentrations of Dissolved Iron (filtered) ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-9, MW-15, and MW-14 to 1.74 mg/L for monitor well MW-5.

For the 4<sup>th</sup> quarter the analytical results for concentrations of Dissolved Iron (filtered) ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-9, MW-15, and MW-14 to 1.46 mg/L for monitor well MW-5.

Please reference Table 21 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-10, MW-9, MW-5, MW-6, MW-15, and MW-14. The GSI-MKT indicated the Concentration Trends for MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14 were as follows “No Trend”, “Stable”, “Probably Increasing”, “No Trend”, “No Trend”, and “No Trend”.

For the 1<sup>st</sup> quarter the analytical results for concentrations of Dissolved Manganese (filtered) ranged from 0.0231 mg/L for monitor well MW-9 to 0.288 mg/L for monitor well MW-5.

For the 2<sup>nd</sup> quarter the analytical results for concentrations of Dissolved Manganese (filtered) ranged from less than the applicable laboratory RL for monitor well MW-10 to 0.308 mg/L for monitor well MW-5.

For the 3<sup>rd</sup> quarter the analytical results for concentrations of Dissolved Manganese (filtered) ranged from less than the applicable laboratory RL for monitor well MW-10 to 0.245 mg/L for monitor well MW-5.

For the 4<sup>th</sup> quarter analytical results for concentrations of Dissolved Manganese (filtered) ranged from 0.00629 mg/L for monitor well MW-10 to 0.436 mg/L for monitor well MW-6.

Please reference Table 22 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-10, MW-9, MW-5, MW-6, MW-15, and MW-14. The GSI-MKT indicated the Concentration Trends for MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14 were as follows “No Trend”, “No Trend”, “No Trend”, “No Trend”, “No Trend”, and “Decreasing”.

For the 1<sup>st</sup> quarter the analytical results for concentrations of Nitrate ranged from 0.299 mg/L for monitor well MW-5 to 8.59 mg/L for monitor well MW-10.

For the 2<sup>nd</sup> quarter the analytical results for concentrations of Nitrate ranged from below the applicable laboratory RL for monitor well MW-5 to 8.33 mg/L for monitor well MW-10.

For the 3<sup>rd</sup> quarter the analytical results for concentrations of Nitrate ranged from 0.391 mg/L for monitor well MW-5 to 8.68 mg/L for monitor well MW-10.

For the 4<sup>th</sup> quarter the analytical results for concentrations of Nitrate ranged from 0.411 mg/L for monitor well MW-5 to 9.09 mg/L for monitor well MW-10.

Please reference Table 23 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-10, MW-9, MW-5, MW-6, MW-15, and MW-14. The GSI-MKT indicated the Concentration Trends for MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14 were as follows “Increasing”, “Stable”, “No Trend”, “Probably Increasing”, “Decreasing”, and “Increasing”.

For the 1<sup>st</sup> quarter the analytical results for concentrations of Sulfate ranged from 9.23 mg/L monitor well MW-5 to 73.0 mg/L for monitor well MW-15.

For the 2<sup>nd</sup> quarter the analytical results for concentrations of Sulfate ranged from 2.98 mg/L monitor well MW-5 to 73.7 mg/L for monitor well MW-9.

For the 3<sup>rd</sup> quarter the analytical results for concentrations of Sulfate ranged from 15.8 mg/L monitor well MW-5 to 69.5 mg/L for monitor well MW-10.

For the 4<sup>th</sup> quarter the analytical results for concentrations of Sulfate ranged from 2.16 mg/L monitor well MW-9 to 82.5 mg/L for monitor well MW-15.

Please reference Table 24 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-10, MW-9, MW-5, MW-6, MW-15, and MW-14. The GSI-MKT indicated the Concentration Trends for MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14 were as follows “Stable”, “Decreasing”, “No Trend”, “Stable”, “Stable”, and “Stable”.

For the 1<sup>st</sup> quarter the analytical results for concentrations of COD ranged from less than the applicable laboratory RL for monitor well MW-14 to 5.31 mg/L for monitor well MW-6.

For the 2<sup>nd</sup> quarter the analytical results for concentrations of COD ranged from less than the applicable laboratory RL for monitor wells MW-10, MW-15, and MW-14 to 637 mg/L for monitor well MW-5.

For the 3<sup>rd</sup> quarter the analytical results for concentrations of COD ranged from 11.0 mg/L for monitor wells MW-5 and MW-14 to 51.0 for monitor well MW-9.

For the 4<sup>th</sup> quarter the analytical results for concentrations of COD ranged from 4.00 mg/L for monitor wells MW-10, MW-15, and MW-14 to 37.0 for monitor well MW-6.

Please reference Table 25 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-10, MW-9, MW-5, MW-6, MW-15, and MW-14. The GSI-MKT indicated the Concentration Trends for MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14 were as follows “Probably Increasing”, “Increasing”, “No Trend”, “Increasing”, “Probably Increasing”, and “No Trend”.

## **SUMMARY**

This report presents the results of monitoring activities for the 2023 annual monitoring period. There are currently fifteen (15) monitor wells (MW-2 through MW-7, and MW-9 through MW-16, and MW-18) and four (4) recovery wells (RW-1, RW-2, RW-3, and RW-4) on site.

The most recent Inferred Groundwater Gradient Map, Figure 2D, indicated a gradient of 0.0030 feet/foot to the southeast as measured between monitor well MW-10 and MW-13. Groundwater Gradient Maps generated during the 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> quarters of the reporting period indicated a gradient ranging from 0.0024 to 0.0027 feet/foot in a southeast direction. The corrected groundwater elevations ranged between 3,920.42 and 3,921.48 feet above mean sea level, in

monitor well MW-13 on December 8, 2023, and recovery well RW-1 on February 14, 2023, respectively.

A measurable thickness of PSH was present in six (6) of the fifteen (15) monitor wells (MW-2 through MW-6 and MW-9) and the four (4) recovery wells (RW-1 through RW-4) during all (4) quarters of the reporting period. The average thickness of PSH in monitor wells and recovery wells exhibiting PSH was 2.62 feet. The maximum thickness of PSH in monitor wells and recovery wells was 4.21 feet as recorded in monitor well MW-5 on August 7, 2023. PSH data for the 2023 gauging events can be found in Table 1. Approximately 191.27 gallons (approximately 4.55 barrels) of PSH was recovered from the Site during the 2023 reporting period. Due to maintenance issues during the 2023 reporting period, approximately 842 barrels of groundwater was removed from the separation frac tank and disposed of at an NMOCD approved disposal. A total of approximately 10,643.99 gallons (approximately 253.42 barrels) of PSH have been recovered since project inception.

Review of the 4<sup>th</sup> quarter 2023 laboratory analytical results of groundwater samples indicated BTEX constituent concentrations are below the NMOCD regulatory guidelines in nine (9) of the nineteen (19) on-site monitor and recovery wells. PSH was observed in ten (10) of the of the nineteen (19) monitor and recovery wells during one (1) or more quarters of the reporting period.

The analytical results indicated the on-site TNM 97-04 Sparging System has been effective in confining PSH and the dissolved phase hydrocarbon plume to the core of the TNM 97-04 Release Site. Down-gradient monitor wells (MW-15, MW-13, and MW-18) have not exhibited BTEX concentrations exceeding the NMOCD regulatory guidelines since the 2<sup>nd</sup> quarter of 2015.

Polynuclear Aromatic Hydrocarbons (PAH) analysis by EPA Method 8270 was conducted during the 4<sup>th</sup> quarter of the 2023 calendar year on selected monitor and recovery wells. Based on historical PAH analytical data, only those wells exhibiting elevated constituent concentrations above NMWQCC Drinking Water Standards are sampled, generally with the exclusion of those wells containing measurable PSH thicknesses.

Please note, during maintenance activities, all groundwater recovered from the Site was stored in the on-site frac tank and was periodically transported to an NMOCD approved disposal. During the maintenance activities no water has been discharged to the on-site infiltration gallery wells and the sparging system remained operational following the system shut down to maintain downgradient control of the PSH plume.

## **ANTICIPATED ACTIONS**

The Enhanced Recovery System will resume operation during the 2024 reporting period following the upgrades and enhancements to the system. The system may be shut down for short durations of time to conduct routine maintenance and repairs. During adverse weather conditions, the system may be shut down as a safety precaution to protect the integrity of the system.

PSH recovery, quarterly groundwater monitoring and sampling and monthly Recovery System sampling will continue in 2024.



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

As the PSH plume thicknesses decreases, monitor and recovery wells which have historically exhibited elevated constituents near or above the NMWQCC Standards will be sampled for PAH, as necessary.

Low-flow sampling of MNA parameters will be conducted on monitor wells MW-10, MW-9, MW-5, MW-6, MW-15, and MW-14 during each quarterly sampling event. Unforeseen circumstances may require modification of this sampling event.

## **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 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 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**

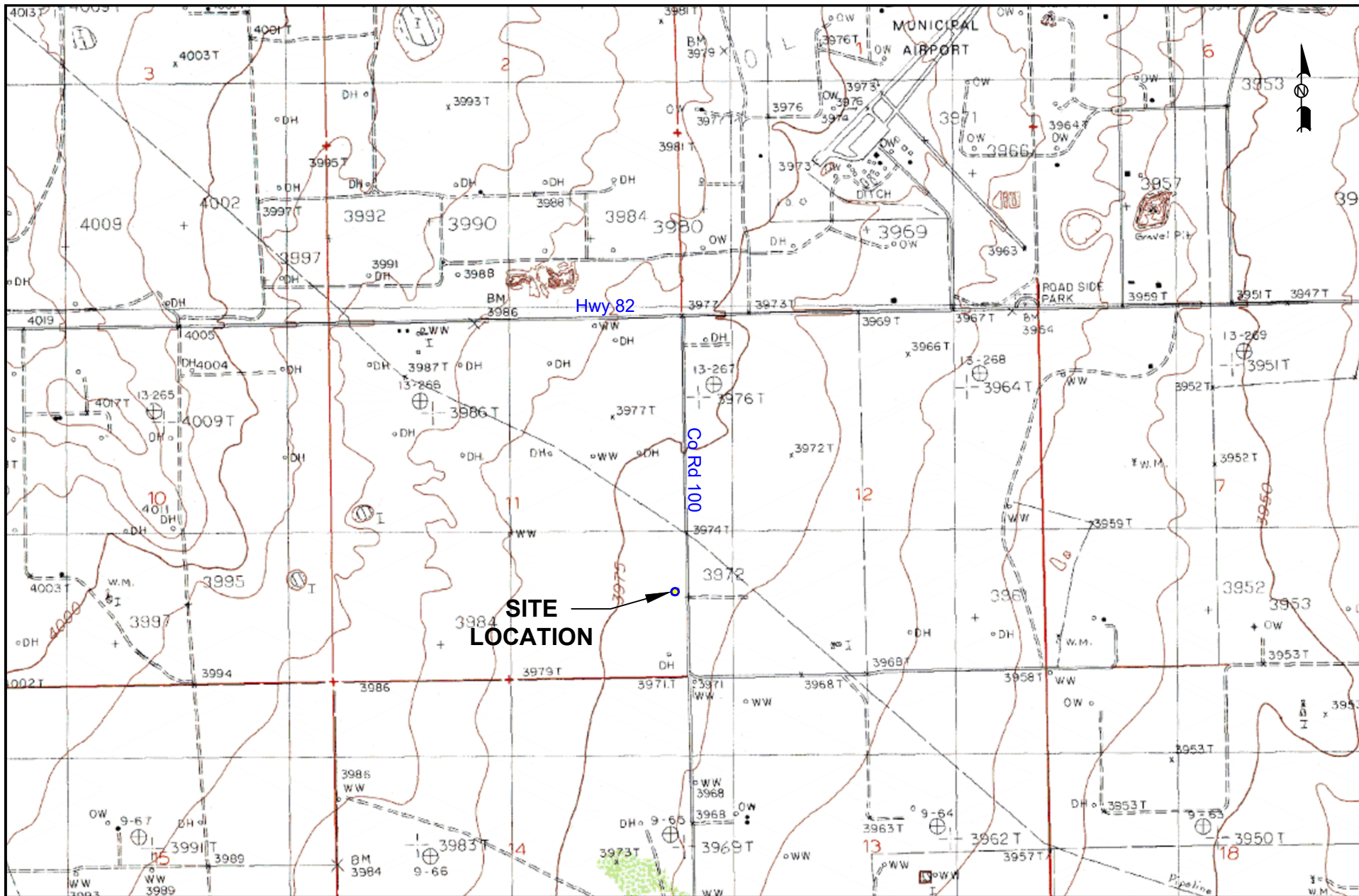
Copy 1        Nelson Velez  
                 Environmental Specialist-Advanced  
                 New Mexico Oil Conservation Division  
                 1000 Rio Brazos Road  
                 Aztec, New Mexico 87410

Copy 2:        Camille Bryant  
                 Plains Marketing, L.P.  
                 1106 Griffith Drive  
                 Midland, TX 79706  
                 cjbryant@paalp.com

Copy 3:        Jeff Dann  
                 Plains Marketing, L.P.  
                 333 Clay Street  
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                 Houston, TX 77002  
                 jpdann@paalp.com

Copy 4:        TRC Environmental Corporation  
                 10 Desta Drive, Suite 130E  
                 Midland, TX 79705  
                 cdstanley@trccompanies.com

## **FIGURES**



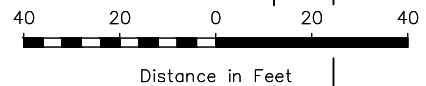
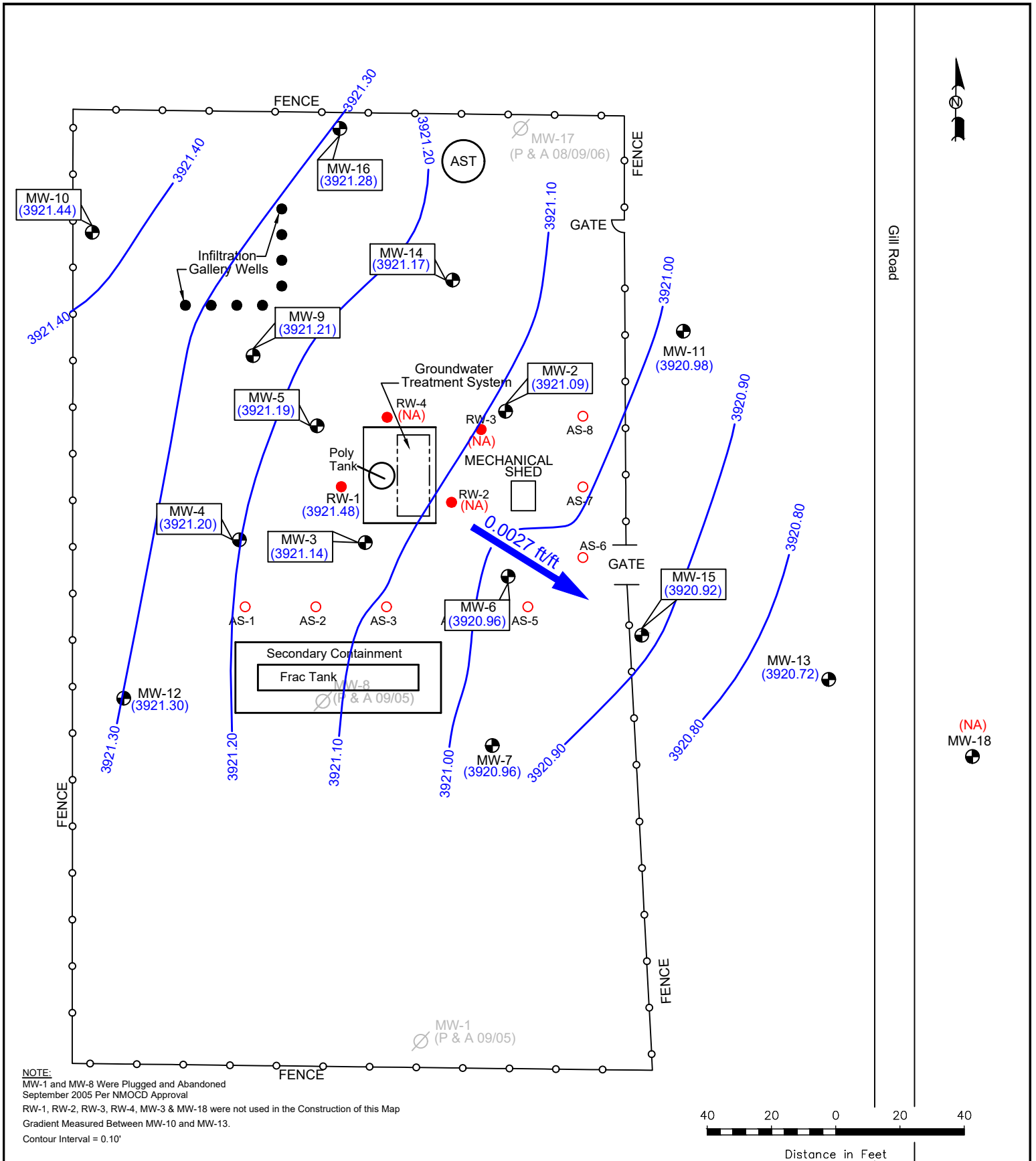
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Distance in Feet

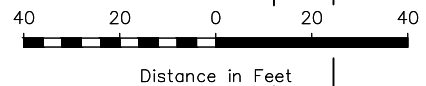
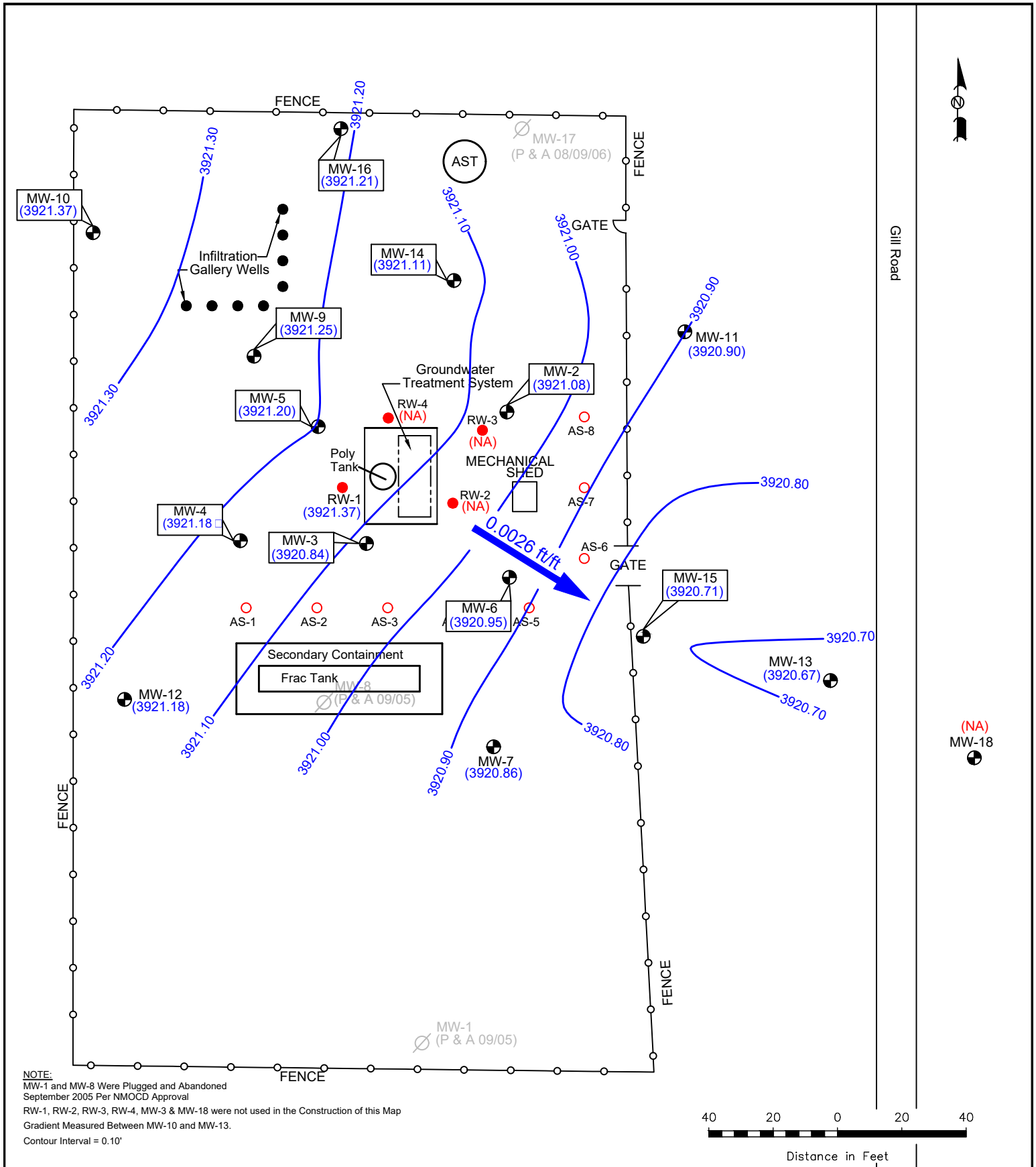
Figure 1  
 Site Location Map  
 Plains Marketing, L.P.  
 TNM 97-04  
 NMOCD Reference # GW-294-0  
 Lea County, NM

Scale: 1" = 2000'	
CAD By: TA	Checked By: CS
Draft: March 10, 2016	
Lat. N 32.932527°, Long. W 103.420083°	
SE1/4 SE1/4 Sec 11 T16S R35E	
TRC Proj. No.: 014177	

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 Midland, Texas 79705  
 432.520.7720



<b>LEGEND:</b> Monitoring Well Location Recovery Well Location Air Sparging Well Location Infiltration Gallery Well Location Groundwater Elevation Contour (NA) Not Available	<b>Figure 2A</b> Inferred Groundwater Gradient Map (2/13/2023 - 2/14/2023) Plains Marketing, L.P. TNM 97-04 NMOCD Reference # GW-0294 Lea County, NM		Scale: 1" = 40' CAD By: CS    Checked By: MG Draft: May 12, 2023 Lat. N 32.932527°, Long. W 103.420083° SE1/4 SE1/4 Sec 11 T16S R35E TRC Proj. No.: 014177		 10 Desta Drive, Suite 130E Midland, Texas 79705 432.520.7720



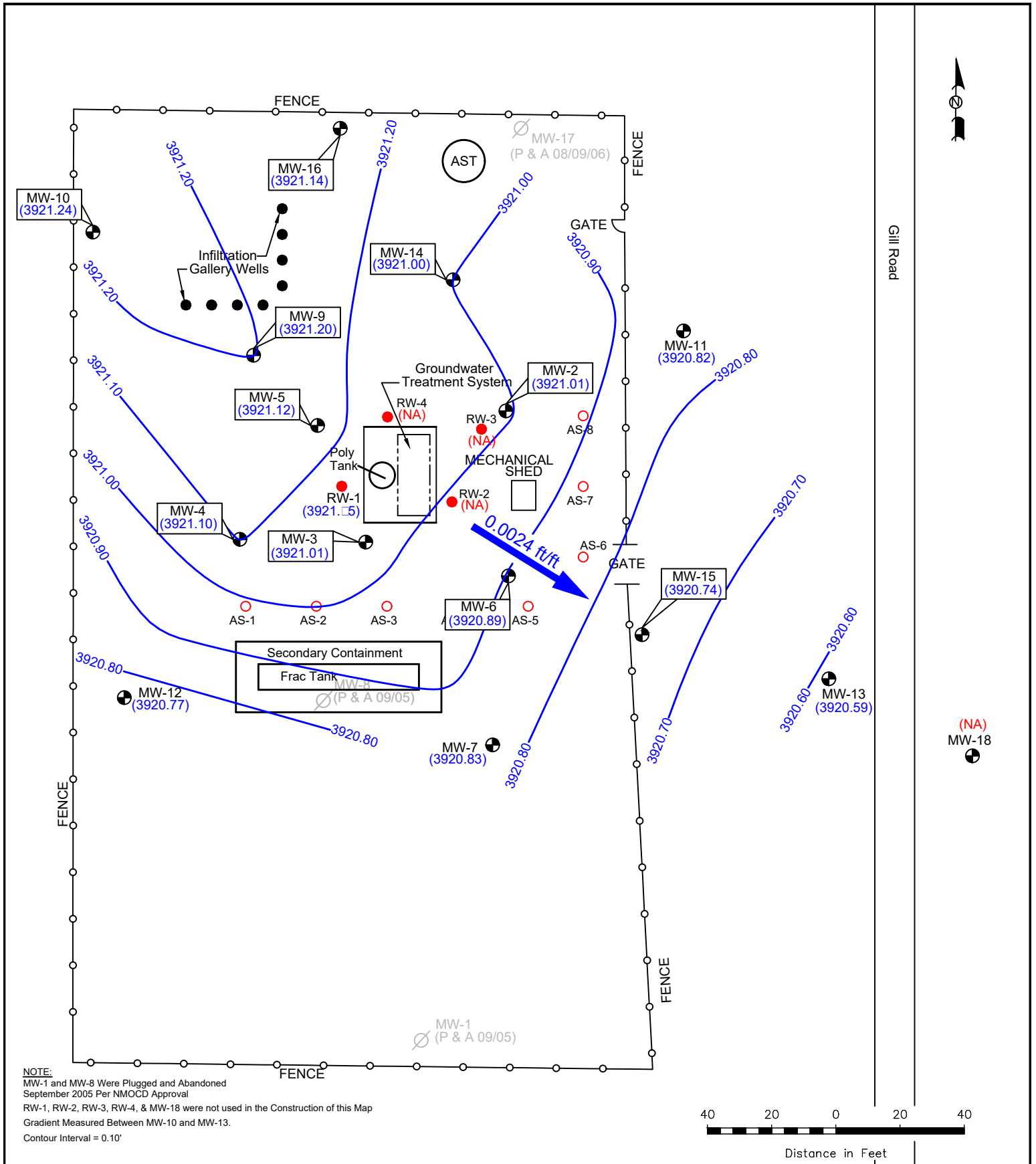
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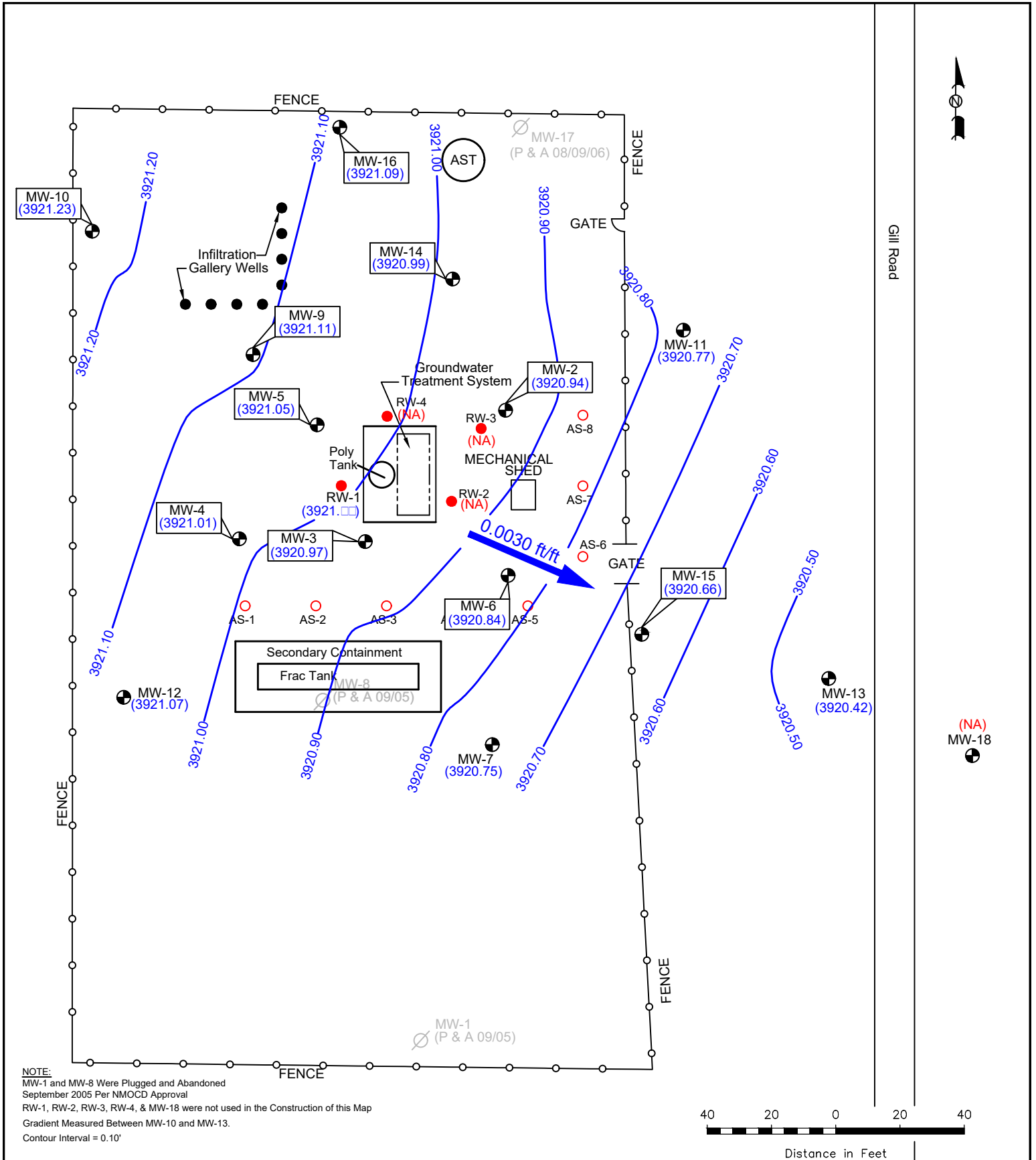
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	Recovery Well Location		(NA) Not Available
	Air Sparging Well Location		
	Infiltration Gallery Well Location		

Figure 2B  
 Inferred Groundwater Gradient Map  
 (5/15/2023 - 5/16/2023)  
 Plains Marketing, L.P.  
 TNM 97-04  
 NMOCD Reference # GW-0294  
 Lea County, NM

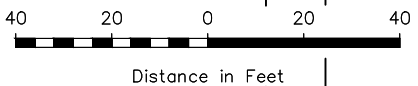
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TRC Proj. No.: 014177	

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NOTE:  
 MW-1 and MW-8 Were Plugged and Abandoned  
 September 2005 Per NMOCD Approval  
 RW-1, RW-2, RW-3, RW-4, & MW-18 were not used in the Construction of this Map  
 Gradient Measured Between MW-10 and MW-13.  
 Contour Interval = 0.10'



**LEGEND:**

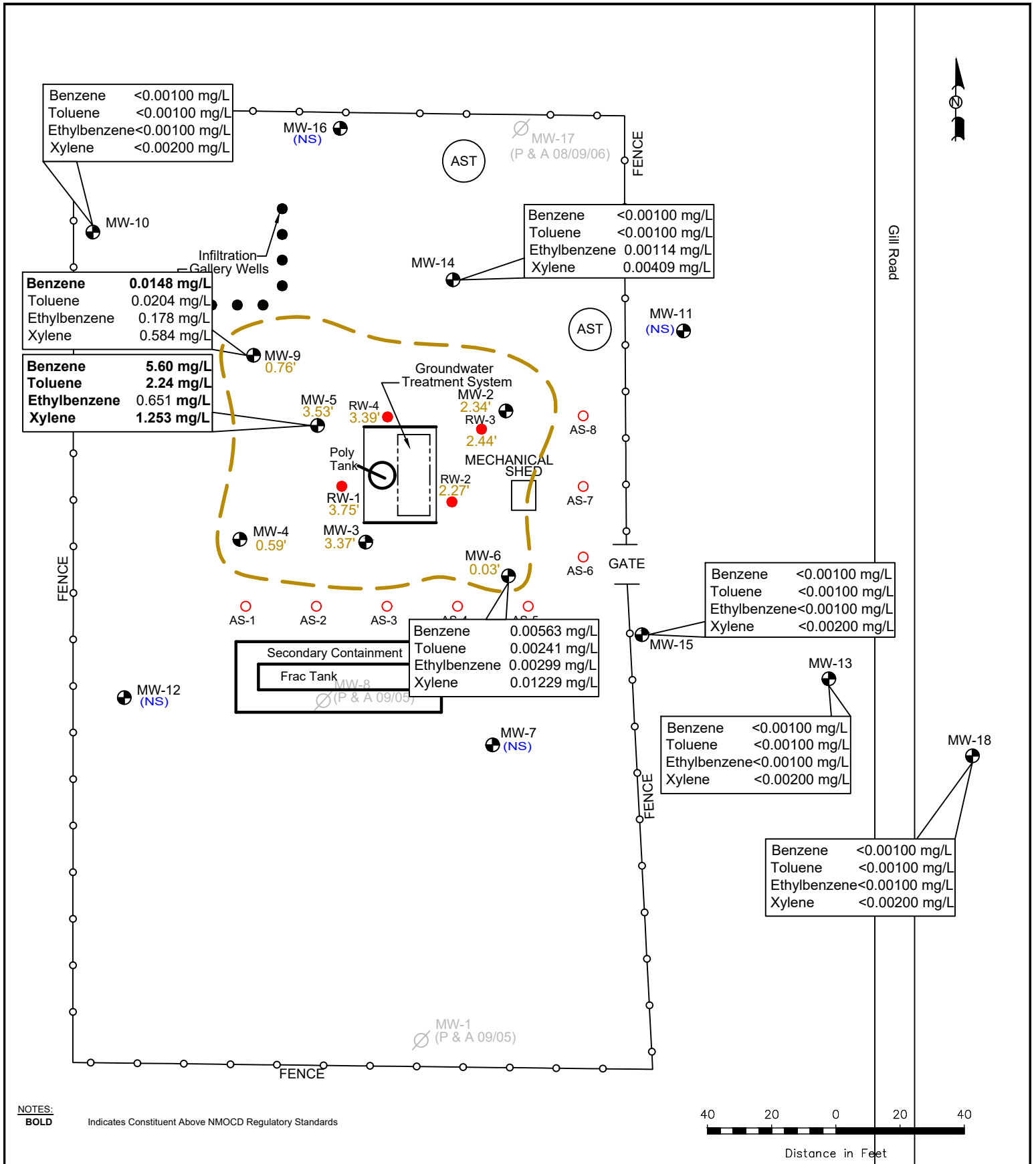
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	Recovery Well Location		Not Available
	Air Sparging Well Location		
	Infiltration Gallery Well Location		

Figure 2D  
 Inferred Groundwater  
 Gradient Map  
 (12/7/2023 - 12/9/2023)  
 Plains Marketing, L.P.  
 TNM 97-04  
 NMOCD Reference # GW-0294  
 Lea County, NM

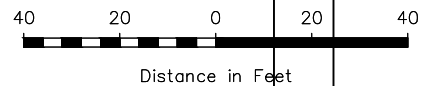
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Draft: January 4, 2024	
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SE1/4 SE1/4 Sec 11 T16S R35E	
TRC Proj. No.: 014177	

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NOTES:  
**BOLD** Indicates Constituent Above NMOCD Regulatory Standards



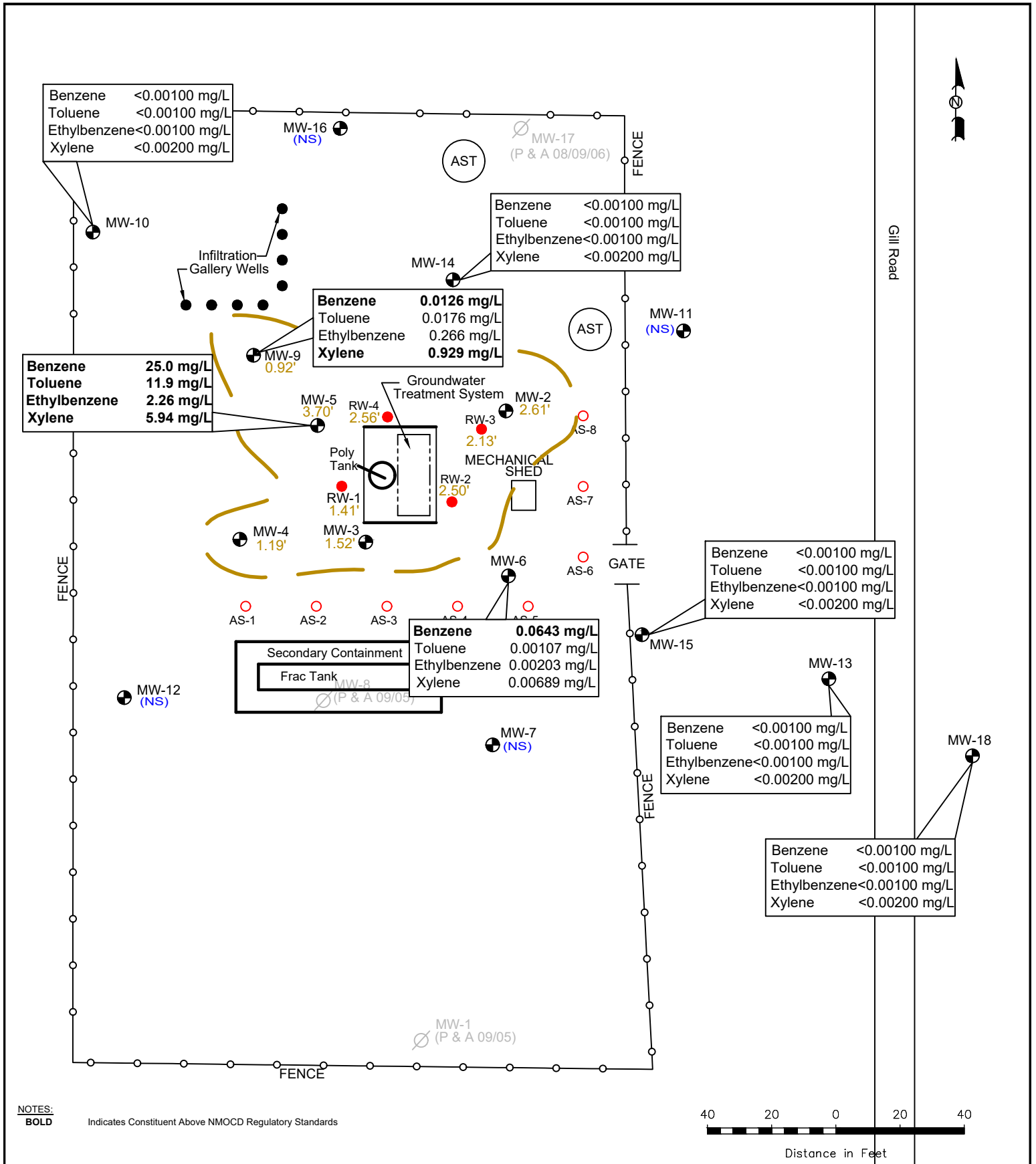
**LEGEND:**

	Monitoring Well Location		Inferred PSH Extent
	Recovery Well Location	<0.001	Constituent Concentration (mg/L)
	Air Sparging Well Location	2.42'	Thickness of PSH (feet)
	Infiltration Gallery Well Location	(NS)	Not Sampled

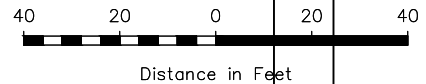
Figure 3A  
 Groundwater Concentration and Inferred PSH Extent Map  
 (2/13/2023 - 2/14/2023)  
 Plains Marketing, L.P.  
 TNM 97-04  
 NMOCD Reference # GW-0294  
 Lea County, NM

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Draft: April 21, 2023	
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SE1/4 SE1/4 Sec 11 T16S R35E	
TRC Proj. No.: 014177	

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**NOTES:**  
**BOLD** Indicates Constituent Above NMOCD Regulatory Standards



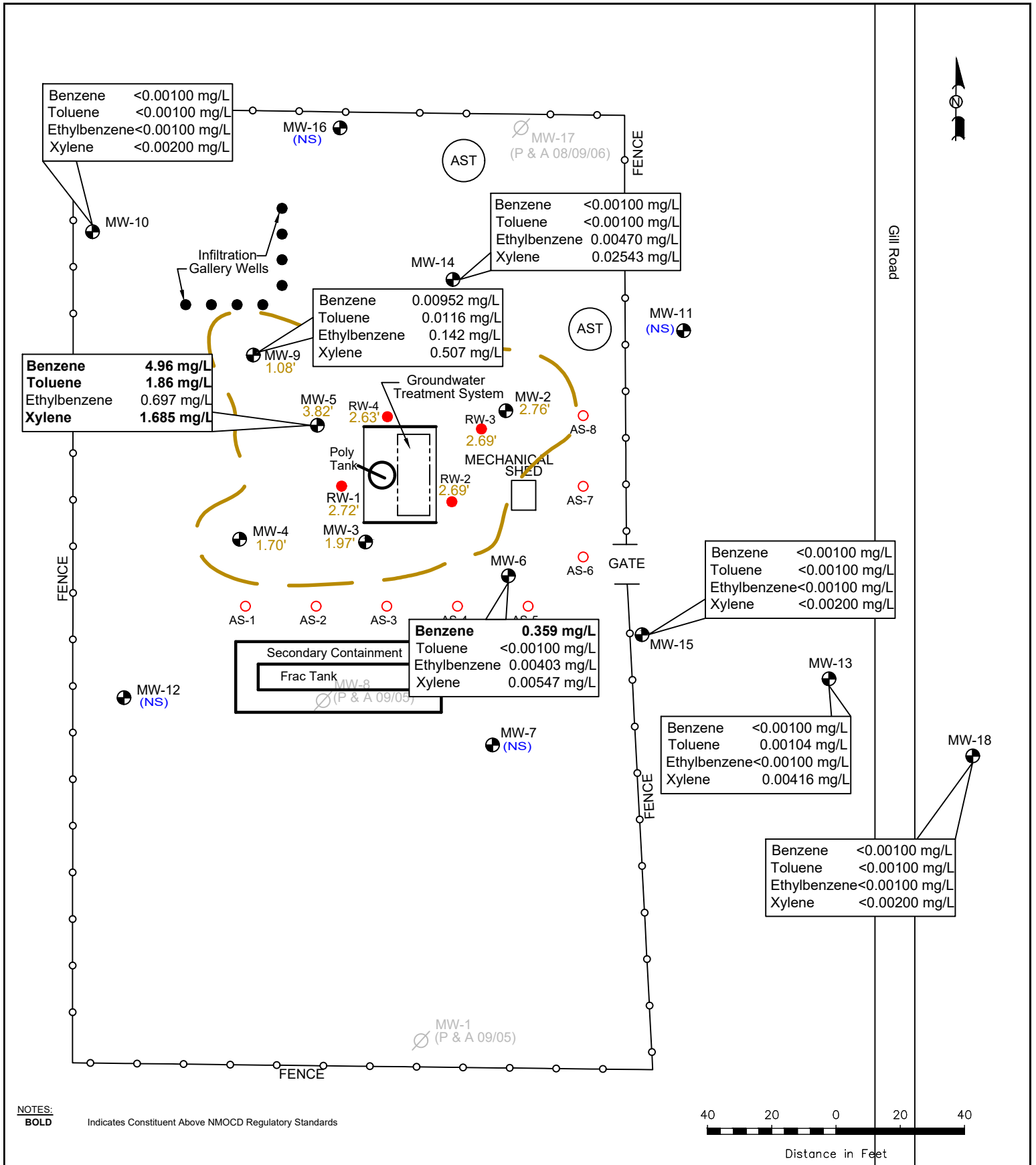
**LEGEND:**

	Monitoring Well Location		Inferred PSH Extent
	Recovery Well Location	<0.001	Constituent Concentration (mg/L)
	Air Sparging Well Location	2.42'	Thickness of PSH (feet)
	Infiltration Gallery Well Location	(NS)	Not Sampled

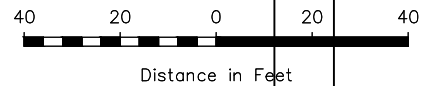
Figure 3B  
 Groundwater Concentration and Inferred PSH Extent Map  
 (5/15/2023 - 5/16/2023)  
 Plains Marketing, L.P.  
 TNM 97-04  
 NMOCD Reference # GW-0294  
 Lea County, NM

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TRC Proj. No.: 014177	

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**NOTES:**  
**BOLD** Indicates Constituent Above NMOCD Regulatory Standards



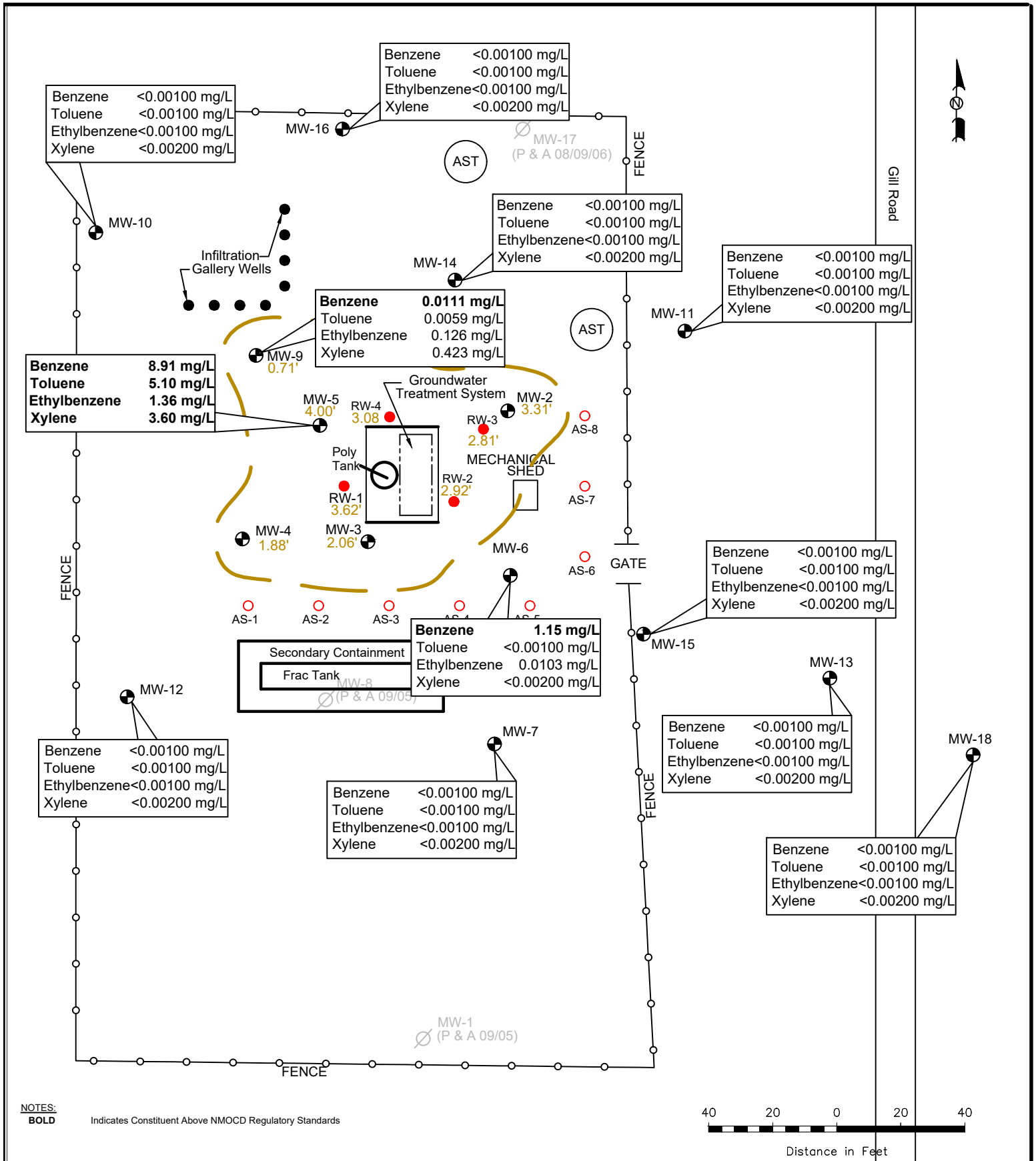
**LEGEND:**

	Monitoring Well Location		Inferred PSH Extent
	Recovery Well Location	<0.001	Constituent Concentration (mg/L)
	Air Sparging Well Location	2.42'	Thickness of PSH (feet)
	Infiltration Gallery Well Location	(NS)	Not Sampled

Figure 3C  
 Groundwater Concentration and Inferred PSH Extent Map  
 (8/7/2023 - 8/9/2023)  
 Plains Marketing, L.P.  
 TNM 97-04  
 NMOCD Reference # GW-0294  
 Lea County, NM

Scale: 1" = 40'	
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Draft: October 4, 2023	
Lat. N 32.932527°, Long. W 103.420083°	
SE1/4 SE1/4 Sec 11 T16S R35E	
TRC Proj. No.: 014177	

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**LEGEND:**

- Monitoring Well Location
- Recovery Well Location
- Air Sparging Well Location
- Infiltration Gallery Well Location
- Inferred PSH Extent
- <0.001 Constituent Concentration (mg/L)
- 2.42' Thickness of PSH (feet)
- (NS) Not Sampled

**Figure 3D**  
 Groundwater Concentration and Inferred PSH Extent Map  
 (12/7/2023 - 12/8/2023)  
 Plains Marketing, L.P.  
 TNM 97-04  
 NMOCD Reference # GW-0294  
 Lea County, NM

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Draft: January 8, 2024	
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SE1/4 SE1/4 Sec 11 T16S R35E	
TRC Proj. No.: 014177	



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## **TABLES**

TABLE 1

## 2023 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
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 GROUNDWATER ELEVATION
MW - 2	01/06/23	Manny	3974.62		53.03	56.23	3.20	3921.11
MW - 2	01/12/23	Manny	3974.62		53.33	54.75	1.42	3921.08
MW - 2	01/16/23	Manny	3974.62		53.42	54.30	0.88	3921.07
MW - 2	02/13/23	Manny	3974.62		53.18	55.52	2.34	3921.09
MW - 2	03/02/23	Manny	3974.62		53.11	55.90	2.79	3921.09
MW - 2	03/28/23	Manny	3974.62		53.23	55.33	2.10	3921.08
MW - 2	04/04/23	Manny	3974.62		53.36	56.00	2.64	3920.86
MW - 2	05/16/23	Manny	3974.62		53.15	55.76	2.61	3921.08
MW - 2	07/17/23	Manny	3974.62		53.12	56.37	3.25	3921.01
MW - 2	07/28/23	Manny	3974.62		53.27	55.57	2.30	3921.01
MW - 2	08/07/23	Manny	3974.62		53.17	56.08	2.91	3921.01
MW - 2	08/08/23	Manny	3974.62		53.21	55.97	2.76	3921.00
MW - 2	10/11/23	Manny	3974.62		53.10	56.77	3.67	3920.97
MW - 2	12/07/23	Manny	3974.62		53.18	56.49	3.31	3920.94
MW - 3	01/06/23	Manny	3974.60		52.93	56.43	3.50	3921.15
MW - 3	02/14/23	Manny	3974.60		52.95	56.32	3.37	3921.14
MW - 3	05/16/23	Manny	3974.60		53.53	55.05	1.52	3920.84
MW - 3	08/08/23	Manny	3974.60		53.29	55.26	1.97	3921.01
MW - 3	12/07/23	Manny	3974.60		53.32	55.38	2.06	3920.97
MW - 4	01/06/23	Manny	3974.53		52.99	55.14	2.15	3921.22
MW - 4	01/16/23	Manny	3974.53		53.23	53.88	0.65	3921.20
MW - 4	02/14/23	Manny	3974.53		53.24	53.83	0.59	3921.20
MW - 4	05/16/23	Manny	3974.53		53.17	54.36	1.19	3921.18
MW - 4	08/08/23	Manny	3974.53		53.18	54.88	1.70	3921.10
MW - 4	12/07/23	Manny	3974.53		53.24	55.12	1.88	3921.01
MW - 5	01/06/23	Manny	3974.27		52.60	56.20	3.60	3921.13
MW - 5	01/12/23	Manny	3974.27		52.61	56.00	3.39	3921.15
MW - 5	01/16/23	Manny	3974.27		52.65	55.80	3.15	3921.15
MW - 5	02/14/23	Manny	3974.27	62.69	52.55	56.08	3.53	3921.19
MW - 5	03/21/23	Manny	3974.27		52.62	56.15	3.53	3921.12
MW - 5	03/28/23	Manny	3974.27		52.62	56.00	3.38	3921.14
MW - 5	04/04/23	Manny	3974.27		52.61	56.00	3.39	3921.15
MW - 5	04/20/23	Manny	3974.27		52.62	56.07	3.45	3921.13
MW - 5	04/27/23	Manny	3974.27		52.61	55.91	3.30	3921.17
MW - 5	05/16/23	Manny	3974.27	62.68	52.52	56.22	3.70	3921.20
MW - 5	06/12/23	Manny	3974.27		52.60	56.15	3.55	3921.14
MW - 5	06/22/23	Manny	3974.27		52.64	56.19	3.55	3921.10
MW - 5	07/03/23	Manny	3974.27		52.65	56.17	3.52	3921.09
MW - 5	07/17/23	Manny	3974.27		52.65	56.18	3.53	3921.09
MW - 5	07/28/23	Manny	3974.27		52.59	56.29	3.70	3921.13
MW - 5	08/07/23	Manny	3974.27		52.38	56.59	4.21	3921.26
MW - 5	08/08/23	Manny	3974.27	62.68	52.58	56.40	3.82	3921.12
MW - 5	09/18/23	Manny	3974.27		52.62	56.45	3.83	3921.08
MW - 5	10/11/23	Manny	3974.27		52.58	56.63	4.05	3921.08
MW - 5	12/07/23	Manny	3974.27	61.75	52.62	56.62	4.00	3921.05
MW - 6	02/14/23	Manny	3974.72	66.35	53.76	53.79	0.03	3920.96
MW - 6	05/16/23	Manny	3974.72	66.36	-	53.77	0.00	3920.95
MW - 6	08/08/23	Manny	3974.72	66.36	-	53.83	0.00	3920.89
MW - 6	12/07/23	Manny	3974.72	66.32	-	53.88	0.00	3920.84
MW - 7	02/13/23	Manny	3974.60		-	53.64	0.00	3920.96
MW - 7	05/15/23	Manny	3974.60		-	53.74	0.00	3920.86
MW - 7	08/08/23	Manny	3974.60		-	53.77	0.00	3920.83
MW - 7	12/08/23	Manny	3974.60	66.52	-	53.85	0.00	3920.75
MW - 9	02/14/23	Manny	3975.06	67.09	53.74	54.50	0.76	3921.21
MW - 9	05/16/23	Manny	3975.06	67.07	53.67	54.59	0.92	3921.25

MW - 9	08/08/23	Manny	3975.06	67.70	53.70	54.78	1.08	3921.20
MW - 9	12/07/23	Manny	3975.06	67.08	53.84	54.55	0.71	3921.11
MW - 10	02/14/23	Manny	3975.02	62.66	-	53.58	0.00	3921.44
MW - 10	05/16/23	Manny	3975.02	62.99	-	53.65	0.00	3921.37
MW - 10	08/08/23	Manny	3975.02	62.98	-	53.78	0.00	3921.24
MW - 10	12/07/23	Manny	3975.02	62.90	-	53.79	0.00	3921.23
MW - 11	02/13/23	Manny	3975.30		-	54.32	0.00	3920.98
MW - 11	05/15/23	Manny	3975.30		-	54.40	0.00	3920.90
MW - 11	08/08/23	Manny	3975.30		-	54.48	0.00	3920.82
MW - 11	12/09/23	Manny	3975.30	64.05	-	54.53	0.00	3920.77
MW - 12	02/13/23	Manny	3974.55		-	53.25	0.00	3921.30
MW - 12	05/15/23	Manny	3974.55		-	53.37	0.00	3921.18
MW - 12	08/08/23	Manny	3974.55		-	53.78	0.00	3920.77
MW - 12	12/08/23	Manny	3974.55	63.54	-	53.48	0.00	3921.07
MW - 13	02/13/23	Manny	3975.00	63.44	-	54.28	0.00	3920.72
MW - 13	05/16/23	Manny	3975.00	63.60	-	54.33	0.00	3920.67
MW - 13	08/08/23	Manny	3975.00	63.75	-	54.41	0.00	3920.59
MW - 13	12/08/23	Manny	3975.00	63.61	-	54.58	0.00	3920.42
MW - 14	02/14/23	Manny	3976.15	63.94	-	54.98	0.00	3921.17
MW - 14	05/16/23	Manny	3976.15	63.96	-	55.04	0.00	3921.11
MW - 14	08/08/23	Manny	3976.15	64.00	-	55.15	0.00	3921.00
MW - 14	12/07/23	Manny	3976.15	63.93	-	55.16	0.00	3920.99
MW - 15	02/14/23	Manny	3974.69	62.23	-	53.77	0.00	3920.92
MW - 15	05/16/23	Manny	3974.69	62.27	-	53.98	0.00	3920.71
MW - 15	08/08/23	Manny	3974.69	62.29	-	53.95	0.00	3920.74
MW - 15	12/07/23	Manny	3974.69	62.26	-	54.03	0.00	3920.66
MW - 16	02/13/23	Manny	3975.12		-	53.84	0.00	3921.28
MW - 16	05/15/23	Manny	3975.12		-	53.91	0.00	3921.21
MW - 16	08/08/23	Manny	3975.12		-	53.98	0.00	3921.14
MW - 16	12/08/23	Manny	3975.12	57.65	-	54.03	0.00	3921.09
MW - 18	02/14/23	Manny	-	68.28	-	54.98	0.00	-
MW - 18	05/16/23	Manny	-	68.39	-	55.09	0.00	-
MW - 18	08/08/23	Manny	-		-	55.18	0.00	-
MW - 18	12/08/23	Manny	-	68.40	-	55.19	0.00	-
RW - 1	02/14/23	Manny	3970.79		48.75	52.50	3.75	3921.48
RW - 1	05/16/23	Manny	3970.79		49.21	50.62	1.41	3921.37
RW - 1	08/08/23	Manny	3970.79		49.03	51.75	2.72	3921.35
RW - 1	12/07/23	Manny	3970.79		48.98	52.60	3.62	3921.27
RW - 2	02/14/23	Manny	-		53.64	55.91	2.27	-
RW - 2	05/16/23	Manny	-		53.60	56.10	2.50	-
RW - 2	08/08/23	Manny	-		53.65	56.34	2.69	-
RW - 2	12/07/23	Manny	-		53.67	56.59	2.92	-
RW - 3	01/12/23	Manny	-		54.00	57.18	3.18	-
RW - 3	02/14/23	Manny	-		54.13	56.57	2.44	-
RW - 3	03/02/23	Manny	-		54.15	56.90	2.75	-
RW - 3	03/28/23	Manny	-		54.26	55.91	1.65	-
RW - 3	04/11/23	Manny	-		54.29	55.69	1.40	-
RW - 3	05/16/23	Manny	-		54.19	56.32	2.13	-
RW - 3	08/08/23	Manny	-		54.16	56.85	2.69	-
RW - 3	12/07/23	Manny	-		54.21	57.02	2.81	-
RW - 4	01/12/23	Manny	-		53.96	57.58	3.62	-
RW - 4	02/14/23	Manny	-		54.01	57.40	3.39	-
RW - 4	03/21/23	Manny	-		53.97	57.55	3.58	-
RW - 4	03/28/23	Manny	-		54.20	56.50	2.30	-
RW - 4	04/11/23	Manny	-		54.13	56.76	2.63	-
RW - 4	05/16/23	Manny	-		54.16	56.72	2.56	-
RW - 4	08/08/23	Manny	-		54.21	56.84	2.63	-
RW - 4	12/07/23	Manny	-		54.20	57.28	3.08	-

TABLE 2

2023 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 2	02/13/23	Not Sampled Due to PSH in Well				
MW - 2	05/16/23	Not Sampled Due to PSH in Well				
MW - 2	08/08/23	Not Sampled Due to PSH in Well				
MW - 2	12/08/23	Not Sampled Due to PSH in Well				
MW - 3	02/13/23	Not Sampled Due to PSH in Well				
MW - 3	05/16/23	Not Sampled Due to PSH in Well				
MW - 3	08/08/23	Not Sampled Due to PSH in Well				
MW - 3	12/08/23	Not Sampled Due to PSH in Well				
MW - 4	02/13/23	Not Sampled Due to PSH in Well				
MW - 4	05/16/23	Not Sampled Due to PSH in Well				
MW - 4	08/08/23	Not Sampled Due to PSH in Well				
MW - 4	12/08/23	Not Sampled Due to PSH in Well				
MW - 5	02/14/23	<b>5.60</b>	<b>2.24</b>	0.651	<b>1.253</b>	
MW - 5	05/16/23	<b>25.0</b>	<b>11.9</b>	<b>2.26</b>	<b>5.94</b>	
MW - 5	08/08/23	<b>4.96</b>	<b>1.86</b>	0.697	<b>1.685</b>	
MW - 5	12/07/23	<b>8.91</b>	<b>5.10</b>	<b>1.36</b>	<b>3.60</b>	
MW - 6	02/14/23	0.00563	0.00241	0.00299	0.01229	
MW - 6	05/16/23	<b>0.0643</b>	0.00107	0.00203	0.00698	
MW - 6	08/08/23	<b>0.359</b>	<0.00100	0.00403	0.00547	
MW - 6	12/07/23	<b>1.15</b>	<0.00100	0.0103	<0.00200	
MW - 7	02/13/23	Not Sampled on Current Sample Schedule				
MW - 7	05/16/23	Not Sampled on Current Sample Schedule				
MW - 7	08/08/23	Not Sampled on Current Sample Schedule				
MW - 7	12/08/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 9	02/14/23	<b>0.0148</b>	0.0204	0.178	0.584	
MW - 9	05/16/23	<b>0.0126</b>	0.0176	0.266	<b>0.929</b>	
MW - 9	08/08/23	0.00952	0.0116	0.142	0.507	
MW - 9	12/07/23	<b>0.0111</b>	0.0059	0.126	0.423	
MW - 10	02/14/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 10	05/16/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 10	08/08/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 10	12/07/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 11	02/13/23	Not Sampled on Current Sample Schedule				
MW - 11	05/16/23	Not Sampled on Current Sample Schedule				
MW - 11	08/08/23	Not Sampled on Current Sample Schedule				
MW - 11	12/08/23	<0.00100	<0.00100	<0.00100	<0.00200	



TABLE 2

2023 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8021B, 5030			
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES
MW - 12	02/13/23	Not Sampled on Current Sample Schedule			
MW - 12	05/16/23	Not Sampled on Current Sample Schedule			
MW - 12	08/08/23	Not Sampled on Current Sample Schedule			
MW - 12	12/08/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	02/13/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	05/16/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	08/08/23	<0.00100	0.00104	<0.00100	0.00416
MW - 13	12/08/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 14	02/14/23	<0.00100	<0.00100	0.00114	0.00409
MW - 14	05/16/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 14	08/08/23	<0.00100	<0.00100	0.00470	0.02543
MW - 14	12/07/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	02/14/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	05/16/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	08/08/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	12/07/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 16	02/13/23	Not Sampled on Current Sample Schedule			
MW - 16	05/16/23	Not Sampled on Current Sample Schedule			
MW - 16	08/08/23	Not Sampled on Current Sample Schedule			
MW - 16	12/08/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	02/13/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	05/16/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	08/08/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	12/08/23	<0.00100	<0.00100	<0.00100	<0.00200
RW - 1	02/13/23	Not Sampled Due to PSH in Well			
RW - 1	05/16/23	Not Sampled Due to PSH in Well			
RW - 1	08/08/23	Not Sampled Due to PSH in Well			
RW - 1	12/08/23	Not Sampled Due to PSH in Well			
RW - 2	02/13/23	Not Sampled Due to PSH in Well			
RW - 2	05/16/23	Not Sampled Due to PSH in Well			
RW - 2	08/08/23	Not Sampled Due to PSH in Well			
RW - 2	12/08/23	Not Sampled Due to PSH in Well			
RW - 3	02/13/23	Not Sampled Due to PSH in Well			
RW - 3	05/16/23	Not Sampled Due to PSH in Well			
RW - 3	08/08/23	Not Sampled Due to PSH in Well			
RW - 3	12/08/23	Not Sampled Due to PSH in Well			
RW - 4	02/13/23	Not Sampled Due to PSH in Well			
RW - 4	05/16/23	Not Sampled Due to PSH in Well			
RW - 4	08/08/23	Not Sampled Due to PSH in Well			

**TABLE 2**

**2023 CONCENTRATIONS OF BTEX IN GROUNDWATER**

**PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294**

*All Concentrations are reported in mg/L*

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
RW - 4	12/08/23	Not Sampled Due to PSH in Well				

TABLE 3

2023 POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L.

EPA SW846-8270C, 3510

SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[ghi]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
		...	...	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	12/07/23	Not Sampled due to the presence of PSH.																		
MW-3	12/07/23	Not Sampled due to the presence of PSH.																		
MW-4	12/07/23	Not Sampled due to the presence of PSH.																		
MW-5	12/07/23	0.018	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.84	0.18	0.043	0.024		1.849		0.13
MW-6	12/07/23	<0.00010	<0.00010	0.00092	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00048	<0.00010	<0.00010	<0.00010	1.4		0.00329		
MW-7	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	12/07/23	0.00034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0041	0.035	0.0051	<0.0010	<0.0010	<0.0010		0.00075		-
MW-10	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-14	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-15	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-16	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-18	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
RW-1	12/07/23	Not Sampled due to the presence of PSH.																		
RW-2	12/07/23	Not Sampled due to the presence of PSH.																		

TABLE 3

2023 POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L.

EPA SW846-8270C, 3510

SAMPLE LOCATION	SAMPLE DATE	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		
RW-3	12/07/23	Not Sampled due to the presence of PSH.																		
RW-4	12/07/23	Not Sampled due to the presence of PSH.																		

□□□□□□□□

TABLE 4

2023 NMWQCC METALS CONCENTRATIONS IN EFFLUENT GROUNDWATER  
 PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Total Aluminum	Total Boron	Total Cobalt	Total Copper	Total Iron	Total Manganese	Total Molybdenum	Total Nickel	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Mercury	Total Lead	Total Selenium	Total Silver	Total Zinc
		5.0 mg/L	0.75 mg/L	0.05 mg/L	1.0 mg/L	1.0 mg/L	0.2 mg/L	1.0 mg/L	0.2 mg/L	0.1 mg/L	1.0 mg/L	0.01 mg/L	0.05 mg/L	0.002 mg/L	0.05 mg/L	0.05 mg/L	0.05 mg/L	10 mg/L
Post-Metals	05/08/23	0.0200	0.0927	<0.00500	0.0130	0.501	0.119	<0.00500	0.0160	0.0130	0.163	<0.00200	<0.00400	<0.000200	<0.00200	<0.00200	<0.00200	0.0810
Post-Metals	08/04/23	0.0572	0.174	<0.00500	0.0184	0.366	0.170	<0.00500	0.0169	0.00537	0.153	<0.00200	<0.00400	<0.000200	<0.00200	<0.00200	<0.00200	0.133
Post-Metals	08/30/23	0.0361	0.126	<0.00500	0.0229	<b>1.01</b>	0.167	<0.00500	0.0126	0.00537	0.153	<0.00200	<0.00400	<0.000200	<0.00200	<0.00200	<0.00200	0.521
Post-Metals	09/27/23	0.0187	0.0497	<0.00200	0.00533	0.331	0.105	<0.00500	0.00478	0.00578	0.232	<0.00200	<0.00500	<0.000200	<0.00200	<0.00200	<0.0100	0.0284

**TABLE 5**

**2023 BTEX CONCENTRATIONS IN EFFLUENT GROUNDWATER**

**PLAINS MARKETING, L.P.  
TNM 97-04 TOWNSEND  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294**

**Results and Regulatory Guidelines in mg/L**

<b>Sample Date</b>	<b>Sample Location</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethylbenzene</b>	<b>Xylenes</b>
<b>NMOCD Regulatory Guideline</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>
08/30/23	Post-Metals	<0.00100	<0.00100	<0.00100	<0.00200
09/27/23	Post-Carbon	<0.00100	<0.00100	<0.00100	<0.00200

TABLE 6

2023 POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

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		...
Post Carbon	09/27/23	<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



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 1	03/02/00	3974.18	-	53.01	0.00	3921.17
MW - 1	04/25/00	3974.18	-	53.02	0.00	3921.16
MW - 1	09/06/00	3974.18	-	53.07	0.00	3921.11
MW - 1	11/28/00	3974.18	-	53.08	0.00	3921.10
MW - 1	02/21/01	3974.18	-	52.98	0.00	3921.20
MW - 1	05/31/01	3974.18	-	52.94	0.00	3921.24
MW - 1	08/23/01	3974.18	-	52.95	0.00	3921.23
MW - 1	11/21/01	3974.18	-	52.99	0.00	3921.19
MW - 1	02/13/02	3974.18	-	53.04	0.00	3921.14
MW - 1	06/12/02	3974.18	-	52.99	0.00	3921.19
MW - 1	08/26/02	3974.18	-	53.02	0.00	3921.16
MW - 1	11/21/02	3974.18	-	53.07	0.00	3921.11
MW - 1	02/05/03	3974.18	-	53.00	0.00	3921.18
MW - 1	05/07/03	3974.18	-	52.96	0.00	3921.22
MW - 1	08/18/03	3974.18	-	53.01	0.00	3921.17
MW - 1	12/01/03	3974.18	-	53.07	0.00	3921.11
MW - 1	02/05/04	3974.18	-	53.07	0.00	3921.11
MW - 1	05/05/04	3974.18	-	53.50	0.00	3920.68
MW - 1	09/01/04	3974.18	-	53.11	0.00	3921.07
MW - 1	12/15/04	3974.18	-	53.09	0.00	3921.09
MW - 1	03/22/05	3974.18	-	52.80	0.00	3921.38
MW - 1	06/22/05	3974.18	-	52.75	0.00	3921.43
MW - 1	09/14/05	PLUGGED & ABANDONED				
MW - 2	03/02/00	3974.62	52.49	55.38	2.89	3921.70
MW - 2	04/25/00	3974.62	52.59	55.42	2.83	3921.61
MW - 2	09/05/00	3974.62	52.58	55.71	3.13	3921.57
MW - 2	12/01/00	3974.62	52.75	55.23	2.48	3921.50
MW - 2	02/21/01	3974.62	52.52	55.75	3.23	3921.62
MW - 2	05/31/01	3974.62	52.77	54.75	1.98	3921.55
MW - 2	08/23/01	3974.62	52.40	55.83	3.43	3921.71
MW - 2	11/21/01	3974.62	53.02	54.21	1.19	3921.42
MW - 2	02/13/02	3974.62	52.48	56.14	3.66	3921.59
MW - 2	06/12/02	3974.62	52.44	56.11	3.67	3921.63
MW - 2	11/08/02	3974.62	52.59	55.99	3.40	3921.52
MW - 2	11/21/02	3974.62	53.13	53.54	0.41	3921.43
MW - 2	12/27/02	3974.62	52.64	55.65	3.01	3921.53
MW - 2	01/06/03	3974.62	52.80	54.81	2.01	3921.52
MW - 2	01/08/03	3974.62	52.95	54.14	1.19	3921.49
MW - 2	01/10/03	3974.62	53.15	53.32	0.17	3921.44
MW - 2	01/13/03	3974.62	53.14	53.32	0.18	3921.45
MW - 2	02/05/03	3974.62	52.70	55.28	2.58	3921.53
MW - 2	02/26/03	3974.62	52.57	55.74	3.17	3921.57



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	03/04/03	3974.62	52.58	55.75	3.17	3921.56
MW - 2	03/12/03	3974.62	52.60	55.79	3.19	3921.54
MW - 2	03/18/03	3974.62	52.61	55.71	3.10	3921.55
MW - 2	03/25/03	3974.62	52.60	55.77	3.17	3921.54
MW - 2	03/31/03	3974.62	52.59	55.71	3.12	3921.56
MW - 2	04/09/03	3974.62	52.60	53.13	0.53	3921.94
MW - 2	04/14/03	3974.62	52.64	52.89	0.25	3921.94
MW - 2	05/07/03	3974.62	52.52	55.73	3.21	3921.62
MW - 2	05/08/03	3974.62	52.60	55.81	3.21	3921.54
MW - 2	05/13/03	3974.62	52.61	55.79	3.18	3921.53
MW - 2	05/21/03	3974.62	52.62	55.83	3.21	3921.52
MW - 2	05/27/03	3974.62	52.57	55.71	3.14	3921.58
MW - 2	05/28/03	3974.62	52.63	55.83	3.20	3921.51
MW - 2	06/03/03	3974.62	52.76	55.81	3.05	3921.40
MW - 2	06/09/03	3974.62	52.62	55.79	3.17	3921.52
MW - 2	07/01/03	3974.62	52.80	53.81	1.01	3921.67
MW - 2	07/08/03	3974.62	52.69	55.92	3.23	3921.45
MW - 2	07/29/03	3974.62	52.57	55.72	3.15	3921.58
MW - 2	08/04/03	3974.62	52.76	55.91	3.15	3921.39
MW - 2	08/18/03	3974.62	52.85	54.18	1.33	3921.57
MW - 2	08/25/03	3974.62	52.86	56.04	3.18	3921.28
MW - 2	10/01/03	3974.62	52.76	52.99	0.23	3921.83
MW - 2	10/06/03	3974.62	52.63	55.69	3.06	3921.53
MW - 2	10/08/03	3974.62	52.95	56.07	3.12	3921.20
MW - 2	10/15/03	3974.62	52.93	56.08	3.15	3921.22
MW - 2	11/12/03	3974.62	53.04	54.18	1.14	3921.41
MW - 2	11/19/03	3974.62	53.03	56.18	3.15	3921.12
MW - 2	12/01/03	3974.62	53.08	56.21	3.13	3921.07
MW - 2	12/10/03	3974.62	52.74	55.82	3.08	3921.42
MW - 2	02/05/04	3974.62	53.09	56.18	3.09	3921.07
MW - 2	02/17/04	3974.62	52.78	53.51	0.73	3921.73
MW - 2	02/25/04	3974.62	53.06	56.03	2.97	3921.11
MW - 2	03/09/04	3974.62	52.83	55.87	3.04	3921.33
MW - 2	03/16/04	3974.62	52.85	55.80	2.95	3921.33
MW - 2	03/22/04	3974.62	53.32	54.00	0.68	3921.20
MW - 2	04/07/04	3974.62	52.88	53.14	0.26	3921.70
MW - 2	04/12/04	3974.62	53.21	56.03	2.82	3920.99
MW - 2	04/19/04	3974.62	52.88	53.98	1.10	3921.58
MW - 2	05/05/04	3974.62	52.88	55.83	2.95	3921.30
MW - 2	05/11/04	3974.62	52.98	55.95	2.97	3921.19
MW - 2	06/07/04	3974.62	52.63	55.49	2.86	3921.56
MW - 2	06/15/04	3974.62	-	52.57	0.00	3922.05
MW - 2	06/20/04	3974.62	52.57	WELL OBSTRUCTED		

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	06/21/04	3974.62	52.58	WELL OBSTRUCTED		
MW - 2	06/28/04	3974.62	52.58	WELL OBSTRUCTED		
MW - 2	07/08/04	3974.62	52.58	WELL OBSTRUCTED		
MW - 2	07/12/04	3974.62	52.59	WELL OBSTRUCTED		
MW - 2	08/12/04	3974.62	52.59	WELL OBSTRUCTED		
MW - 2	08/17/04	3974.62	52.63	WELL OBSTRUCTED		
MW - 2	08/26/04	3974.62	52.62	WELL OBSTRUCTED		
MW - 2	09/01/04	3974.62	53.86	54.75	0.89	3920.63
MW - 2	09/03/04	3974.62	53.86	54.75	0.89	3920.63
MW - 2	09/08/04	3974.62	53.92	54.75	0.83	3920.58
MW - 2	09/14/04	3974.62	52.90	54.75	1.85	3921.44
MW - 2	09/22/04	3974.62	53.01	54.75	1.74	3921.35
MW - 2	10/01/04	3974.62	52.88	54.90	2.02	3921.44
MW - 2	10/08/04	3974.62	52.94	55.10	2.16	3921.36
MW - 2	10/15/04	3974.62	53.10	55.10	2.00	3921.22
MW - 2	10/22/04	3974.62	52.73	55.15	2.42	3921.53
MW - 2	11/12/04	3974.62	52.68	55.65	2.97	3921.49
MW - 2	11/26/04	3974.62	52.70	54.60	1.90	3921.64
MW - 2	12/02/04	3974.62	52.72	55.50	2.78	3921.48
MW - 2	12/06/04	3974.62	52.99	55.31	2.32	3921.28
MW - 2	12/13/04	3974.62	52.80	54.70	1.90	3921.54
MW - 2	12/15/04	3974.62	52.80	54.70	1.90	3921.54
MW - 2	12/27/04	3974.62	52.80	55.20	2.40	3921.46
MW - 2	01/10/05	3974.62	52.57	55.40	2.83	3921.63
MW - 2	01/18/05	3974.62	52.63	55.17	2.54	3921.61
MW - 2	01/18/05	3974.62	52.78	54.33	1.55	3921.61
MW - 2	01/25/05	3974.62	52.51	55.35	2.84	3921.68
MW - 2	01/27/05	3974.62	52.55	55.22	2.67	3921.67
MW - 2	02/01/05	3974.62	52.52	55.55	3.03	3921.65
MW - 2	02/07/05	3974.62	52.50	55.34	2.84	3921.69
MW - 2	02/11/05	3974.62	52.50	55.23	2.73	3921.71
MW - 2	02/15/05	3974.62	52.49	55.25	2.76	3921.72
MW - 2	02/22/05	3974.62	52.46	55.44	2.98	3921.71
MW - 2	02/24/05	3974.62	52.43	55.50	3.07	3921.73
MW - 2	03/03/05	3974.62	52.43	55.41	2.98	3921.74
MW - 2	03/09/05	3974.62	52.43	55.35	2.92	3921.75
MW - 2	03/22/05	3974.62	53.03	53.13	0.10	3921.58
MW - 2	03/24/05	3974.62	53.03	53.13	0.10	3921.58
MW - 2	03/31/05	3974.62	53.05	53.12	0.07	3921.56
MW - 2	06/22/05	3974.62	52.86	53.38	0.52	3921.68
MW - 2	07/21/05	3974.62	52.73	53.24	0.51	3921.81
MW - 2	08/03/05	3974.62	52.45	54.54	2.09	3921.86
MW - 2	08/12/05	3974.62	52.42	54.58	2.16	3921.88

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	08/15/05	3974.62	52.48	54.40	1.92	3921.85
MW - 2	08/22/05	3974.62	52.41	54.50	2.09	3921.90
MW - 2	08/30/05	3974.62	52.40	54.64	2.24	3921.88
MW - 2	09/07/05	3974.62	52.38	54.62	2.24	3921.90
MW - 2	09/14/05	3974.62	52.32	54.63	2.31	3921.95
MW - 2	09/20/05	3974.62	52.39	54.48	2.09	3921.92
MW - 2	09/21/05	3974.62	52.36	54.61	2.25	3921.92
MW - 2	09/28/05	3974.62	52.38	54.60	2.22	3921.91
MW - 2	10/06/05	3974.62	52.32	54.85	2.53	3921.92
MW - 2	10/13/05	3974.62	52.32	54.85	2.53	3921.92
MW - 2	10/20/05	3974.62	52.32	54.84	2.52	3921.92
MW - 2	10/26/05	3974.62	52.33	54.83	2.50	3921.92
MW - 2	11/03/05	3974.62	52.28	54.80	2.52	3921.96
MW - 2	11/10/05	3974.62	52.29	54.79	2.50	3921.96
MW - 2	11/16/05	3974.62	52.31	54.79	2.48	3921.94
MW - 2	11/23/05	3974.62	52.33	54.75	2.42	3921.93
MW - 2	11/28/05	3974.62	52.27	54.83	2.56	3921.97
MW - 2	12/05/05	3974.62	52.30	54.72	2.42	3921.96
MW - 2	12/12/05	3974.62	52.29	54.70	2.41	3921.97
MW - 2	12/16/05	3974.62	53.01	53.84	0.83	3921.49
MW - 2	12/19/05	3974.62	52.35	54.76	2.41	3921.91
MW - 2	12/29/05	3974.62	52.26	54.82	2.56	3921.98
MW - 2	01/04/06	3974.62	52.30	54.80	2.50	3921.95
MW - 2	01/10/06	3974.62	52.29	54.80	2.51	3921.95
MW - 2	01/17/06	3974.62	52.29	54.78	2.49	3921.96
MW - 2	01/26/06	3974.62	52.26	54.78	2.52	3921.98
MW - 2	01/31/06	3974.62	52.28	54.74	2.46	3921.97
MW - 2	02/07/06	3974.62	52.27	54.73	2.46	3921.98
MW - 2	02/09/06	3974.62	52.34	54.57	2.23	3921.95
MW - 2	02/13/06	3974.62	52.28	54.60	2.32	3921.99
MW - 2	02/22/06	3974.62	52.27	54.73	2.46	3921.98
MW - 2	02/28/06	3974.62	52.29	54.70	2.41	3921.97
MW - 2	03/07/06	3974.62	52.27	54.68	2.41	3921.99
MW - 2	03/15/06	3974.62	52.24	54.70	2.46	3922.01
MW - 2	03/20/06	3974.62	52.22	54.64	2.42	3922.04
MW - 2	03/22/06	3974.62	52.60	53.40	0.80	3921.90
MW - 2	03/29/06	3974.62	52.24	54.57	2.33	3922.03
MW - 2	04/11/06	3974.62	52.21	54.59	2.38	3922.05
MW - 2	04/18/06	3974.62	52.22	54.60	2.38	3922.04
MW - 2	04/25/06	3974.62	52.29	54.63	2.34	3921.98
MW - 2	05/02/06	3974.62	52.22	53.98	1.76	3922.14
MW - 2	05/09/06	3974.62	52.21	54.43	2.22	3922.08
MW - 2	05/16/06	3974.62	52.22	54.61	2.39	3922.04

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	05/23/06	3974.62	52.23	54.59	2.36	3922.04
MW - 2	05/31/06	3974.62	52.21	54.58	2.37	3922.05
MW - 2	06/06/06	3974.62	52.22	54.54	2.32	3922.05
MW - 2	06/13/06	3974.62	52.22	54.54	2.32	3922.05
MW - 2	06/20/06	3974.62	52.21	54.51	2.30	3922.07
MW - 2	06/21/06	3974.62	52.36	53.85	1.49	3922.04
MW - 2	07/06/06	3974.62	52.20	54.53	2.33	3922.07
MW - 2	07/12/06	3974.62	52.25	54.31	2.06	3922.06
MW - 2	07/20/06	3974.62	52.29	53.18	0.89	3922.20
MW - 2	07/25/06	3974.62	52.25	54.28	2.03	3922.07
MW - 2	08/01/06	3974.62	52.26	54.31	2.05	3922.05
MW - 2	08/16/06	3974.62	52.26	54.32	2.06	3922.05
MW - 2	08/23/06	3974.62	52.27	53.26	0.99	3922.20
MW - 2	08/28/06	3974.62	52.28	54.24	1.96	3922.05
MW - 2	09/12/06	3974.62	52.25	54.27	2.02	3922.07
MW - 2	09/22/06	3974.62	52.27	54.27	2.00	3922.05
MW - 2	09/27/06	3974.62	52.27	54.20	1.93	3922.06
MW - 2	10/06/06	3974.62	52.25	54.29	2.04	3922.06
MW - 2	10/10/06	3974.62	52.69	54.19	1.50	3921.71
MW - 2	10/16/06	3974.62	52.28	54.25	1.97	3922.04
MW - 2	10/26/06	3974.62	52.27	54.25	1.98	3922.05
MW - 2	11/03/06	3974.62	52.27	54.24	1.97	3922.05
MW - 2	11/09/06	3974.62	52.28	54.14	1.86	3922.06
MW - 2	11/16/06	3974.62	52.26	54.18	1.92	3922.07
MW - 2	11/22/06	3974.62	52.25	54.18	1.93	3922.08
MW - 2	12/04/06	3974.62	52.25	54.15	1.90	3922.09
MW - 2	12/08/06	3974.62	52.25	54.19	1.94	3922.08
MW - 2	12/15/06	3974.62	52.16	54.37	2.21	3922.13
MW - 2	01/05/07	3974.62	52.20	54.43	2.23	3922.09
MW - 2	01/12/07	3974.62	52.19	54.37	2.18	3922.10
MW - 2	01/18/07	3974.62	52.17	54.37	2.20	3922.12
MW - 2	01/24/07	3974.62	52.20	54.35	2.15	3922.10
MW - 2	01/29/07	3974.62	52.17	54.28	2.11	3922.13
MW - 2	02/09/07	3974.62	52.17	54.31	2.14	3922.13
MW - 2	02/16/07	3974.62	52.18	54.34	2.16	3922.12
MW - 2	02/23/07	3974.62	52.15	54.25	2.10	3922.16
MW - 2	03/02/07	3974.62	52.16	54.30	2.14	3922.14
MW - 2	03/14/07	3974.62	52.20	53.88	1.68	3922.17
MW - 2	03/26/07	3974.62	52.19	54.13	1.94	3922.14
MW - 2	04/03/07	3974.62	52.15	54.22	2.07	3922.16
MW - 2	04/09/07	3974.62	52.14	54.20	2.06	3922.17
MW - 2	04/26/07	3974.62	52.15	54.21	2.06	3922.16
MW - 2	04/30/07	3974.62	52.16	54.13	1.97	3922.16

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	05/11/07	3974.62	52.15	54.16	2.01	3922.17
MW - 2	05/16/07	3974.62	52.16	54.13	1.97	3922.16
MW - 2	05/22/07	3974.62	52.15	54.12	1.97	3922.17
MW - 2	05/29/07	3974.62	52.13	54.12	1.99	3922.19
MW - 2	06/01/07	3974.62	52.12	54.14	2.02	3922.20
MW - 2	06/08/07	3974.62	52.14	54.12	1.98	3922.18
MW - 2	06/11/07	3974.62	52.16	54.00	1.84	3922.18
MW - 2	06/20/07	3974.62	52.15	54.10	1.95	3922.18
MW - 2	07/10/07	3974.62	52.13	54.08	1.95	3922.20
MW - 2	07/20/07	3974.62	52.14	54.06	1.92	3922.19
MW - 2	07/25/07	3974.62	52.14	54.02	1.88	3922.20
MW - 2	08/01/07	3974.62	52.11	54.01	1.90	3922.23
MW - 2	08/10/07	3974.62	52.15	54.02	1.87	3922.19
MW - 2	08/15/07	3974.62	52.14	54.00	1.86	3922.20
MW - 2	08/30/07	3974.62	52.15	54.00	1.85	3922.19
MW - 2	08/31/07	3974.62	52.15	54.00	1.85	3922.19
MW - 2	09/10/07	3974.62	52.14	53.98	1.84	3922.20
MW - 2	09/19/07	3974.62	52.12	53.98	1.86	3922.22
MW - 2	09/27/07	3974.62	52.11	53.94	1.83	3922.24
MW - 2	10/01/07	3974.62	52.14	53.88	1.74	3922.22
MW - 2	10/19/07	3974.62	52.10	53.96	1.86	3922.24
MW - 2	10/26/07	3974.62	52.10	53.91	1.81	3922.25
MW - 2	11/12/07	3974.62	52.12	53.89	1.77	3922.23
MW - 2	11/16/07	3974.62	52.10	53.88	1.78	3922.25
MW - 2	11/29/07	3974.62	52.10	53.89	1.79	3922.25
MW - 2	12/13/07	3974.62	52.10	53.86	1.76	3922.26
MW - 2	01/10/08	3974.62	52.08	53.79	1.71	3922.28
MW - 2	01/17/08	3974.62	52.10	53.79	1.69	3922.27
MW - 2	01/22/08	3974.62	52.08	53.74	1.66	3922.29
MW - 2	2/6/08 #1	3974.62	52.10	53.71	1.61	3922.28
MW - 2	02/06/08 #2	3974.62	52.32	52.79	0.47	3922.23
MW - 2	2/12/08#1	3974.62	52.11	53.72	1.61	3922.27
MW - 2	2/12/08#2	3974.62	52.34	52.68	0.34	3922.23
MW - 2	2/20/08 #1	3974.62	52.11	53.70	1.59	3922.27
MW - 2	2/20/08 #2	3974.62	52.30	52.78	0.48	3922.25
MW - 2	2/27/08 #1	3974.62	52.11	53.67	1.56	3922.28
MW - 2	2/27/08 #2	3974.62	52.28	52.87	0.59	3922.25
MW - 2	03/07/08	3974.62	52.10	53.66	1.56	3922.29
MW - 2	3/12/2008 #1	3974.62	52.10	53.66	1.56	3922.29
MW - 2	3/12/2008 #2	3974.62	52.29	52.30	0.01	3922.33
MW - 2	3/20/08 #1	3974.62	52.10	53.65	1.55	3922.29
MW - 2	3/20/08#2	3974.62	52.29	52.76	0.47	3922.26
MW - 2	3/23/08 #1	3974.62	52.09	53.64	1.55	3922.30

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	3/23/08 #2	3974.62	52.30	52.31	0.01	3922.32
MW - 2	4/2/08 #1	3974.62	52.09	53.60	1.51	3922.30
MW - 2	4/2/08 #2	3974.62	52.23	52.89	0.66	3922.29
MW - 2	4/9/08 #1	3974.62	52.09	53.59	1.50	3922.31
MW - 2	4/9/08 #2	3974.62	52.23	52.92	0.69	3922.29
MW - 2	04/16/08	3974.62	52.06	53.57	1.51	3922.33
MW - 2	04/23/08	3974.62	52.08	53.57	1.49	3922.32
MW - 2	04/30/08	3974.62	52.08	53.55	1.47	3922.32
MW - 2	05/29/08	3974.62	52.07	53.50	1.43	3922.34
MW - 2	06/02/08	3974.62	52.07	53.45	1.38	3922.34
MW - 2	06/03/08	3974.62	52.07	53.45	1.38	3922.34
MW - 2	06/11/08	3974.62	52.07	53.52	1.45	3922.33
MW - 2	06/18/08	3974.62	52.07	53.52	1.45	3922.33
MW - 2	06/23/08	3974.62	52.08	53.48	1.40	3922.33
MW - 2	07/01/08	3974.62	52.09	53.51	1.42	3922.32
MW - 2	07/09/08	3974.62	52.09	53.51	1.42	3922.32
MW - 2	07/15/08	3974.62	52.08	53.45	1.37	3922.33
MW - 2	07/22/08	3974.62	52.08	53.48	1.40	3922.33
MW - 2	08/02/08	3974.62	52.08	53.38	1.30	3922.35
MW - 2	08/13/08	3974.62	52.08	53.46	1.38	3922.33
MW - 2	09/03/08	3974.62	52.04	53.44	1.40	3922.37
MW - 2	09/11/08	3974.62	52.07	53.45	1.38	3922.34
MW - 2	09/19/08	3974.62	52.05	53.41	1.36	3922.37
MW - 2	09/26/08	3974.62	52.06	53.41	1.35	3922.36
MW - 2	10/10/08	3974.62	52.06	53.41	1.35	3922.36
MW - 2	10/17/08	3974.62	52.08	53.37	1.29	3922.35
MW - 2	10/21/08	3974.62	52.17	53.35	1.18	3922.27
MW - 2	10/30/08	3974.62	52.05	53.36	1.31	3922.37
MW - 2	11/04/08	3974.62	52.08	53.36	1.28	3922.35
MW - 2	11/18/08	3974.62	52.08	53.36	1.28	3922.35
MW - 2	11/25/08	3974.62	52.08	53.35	1.27	3922.35
MW - 2	11/25/08	3974.62	52.71	52.72	0.01	3921.91
MW - 2	12/10/08	3974.62	52.09	53.44	1.35	3922.33
MW - 2	12/18/08	3974.62	52.05	53.34	1.29	3922.38
MW - 2	01/06/09	3974.62	52.05	53.39	1.34	3922.37
MW - 2	01/14/09	3974.62	52.19	53.35	1.16	3922.26
MW - 2	01/21/09	3974.62	52.25	53.11	0.86	3922.24
MW - 2	01/22/09	3974.62	52.03	53.33	1.30	3922.40
MW - 2	01/30/09	3974.62	52.05	53.30	1.25	3922.38
MW - 2	02/03/09	3974.62	52.06	53.27	1.21	3922.38
MW - 2	02/12/09	3974.62	52.06	53.28	1.22	3922.38
MW - 2	02/19/09	3974.62	52.05	53.26	1.21	3922.39
MW - 2	03/04/09	3974.62	52.10	53.23	1.13	3922.35

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	03/06/09	3974.62	52.05	53.26	1.21	3922.39
MW - 2	03/11/09	3974.62	52.08	53.24	1.16	3922.37
MW - 2	03/16/09	3974.62	52.13	53.25	1.12	3922.32
MW - 2	03/19/09	3974.62	52.06	53.25	1.19	3922.38
MW - 2	03/24/09	3974.62	52.03	53.19	1.16	3922.42
MW - 2	04/03/09	3974.62	52.05	53.11	1.06	3922.41
MW - 2	04/15/09	3974.62	52.06	53.12	1.06	3922.40
MW - 2	04/17/09	3974.62	52.09	52.94	0.85	3922.40
MW - 2	04/22/09	3974.62	52.07	53.10	1.03	3922.40
MW - 2	04/29/09	3974.62	52.03	53.15	1.12	3922.42
MW - 2	05/20/09	3974.62	52.05	53.11	1.06	3922.41
MW - 2	05/20/09	3974.62	52.05	53.11	1.06	3922.41
MW - 2	06/09/09	3974.62	52.05	53.11	1.06	3922.41
MW - 2	06/17/09	3974.62	52.06	53.14	1.08	3922.40
MW - 2	06/23/09	3974.62	52.07	53.08	1.01	3922.40
MW - 2	07/01/09	3974.62	52.05	53.10	1.05	3922.41
MW - 2	07/08/09	3974.62	52.05	53.07	1.02	3922.42
MW - 2	07/15/09	3974.62	52.06	53.06	1.00	3922.41
MW - 2	07/17/09	3974.62	52.10	53.00	0.90	3922.39
MW - 2	07/23/09	3974.62	52.06	53.09	1.03	3922.41
MW - 2	07/24/09	3974.62	52.09	52.89	0.80	3922.41
MW - 2	07/30/09	3974.62	52.06	53.05	0.99	3922.41
MW - 2	08/04/09	3974.62	52.06	53.02	0.96	3922.42
MW - 2	08/12/09	3974.62	52.08	53.06	0.98	3922.39
MW - 2	08/20/09	3974.62	52.06	53.08	1.02	3922.41
MW - 2	08/26/09	3974.62	52.55	53.08	0.53	3921.99
MW - 2	09/02/09	3974.62	52.05	53.07	1.02	3922.42
MW - 2	09/09/09	3974.62	52.06	53.06	1.00	3922.41
MW - 2	09/14/09	3974.62	52.05	53.08	1.03	3922.42
MW - 2	09/21/09	3974.62	52.06	52.08	0.02	3922.56
MW - 2	10/01/09	3974.62	52.08	53.08	1.00	3922.39
MW - 2	10/08/09	3974.62	52.08	53.09	1.01	3922.39
MW - 2	10/14/09	3974.62	52.08	53.06	0.98	3922.39
MW - 2	10/21/09	3974.62	52.04	53.07	1.03	3922.43
MW - 2	10/28/09	3974.62	52.03	53.08	1.05	3922.43
MW - 2	11/04/09	3974.62	52.05	53.00	0.95	3922.43
MW - 2	11/11/09	3974.62	52.05	52.98	0.93	3922.43
MW - 2	11/18/09	3974.62	52.05	53.02	0.97	3922.42
MW - 2	11/25/09	3974.62	52.05	53.01	0.96	3922.43
MW - 2	12/02/09	3974.62	52.06	53.05	0.99	3922.41
MW - 2	12/10/09	3974.62	52.06	53.03	0.97	3922.41
MW - 2	12/17/09	3974.62	52.09	53.04	0.95	3922.39
MW - 2	12/21/09	3974.62	52.03	52.83	0.80	3922.47

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	12/30/09	3974.62	52.09	52.96	0.87	3922.40
MW - 2	01/07/10	3974.62	52.09	52.85	0.76	3922.42
MW - 2	01/18/10	3974.62	52.04	52.92	0.88	3922.45
MW - 2	02/02/10	3974.62	52.05	52.89	0.84	3922.44
MW - 2	02/11/10	3974.62	52.05	52.90	0.85	3922.44
MW - 2	02/18/10	3974.62	52.04	52.90	0.86	3922.45
MW - 2	02/25/10	3974.62	52.08	52.95	0.87	3922.41
MW - 2	03/02/10	3974.62	52.11	52.92	0.81	3922.39
MW - 2	03/04/10	3974.62	52.09	52.83	0.74	3922.42
MW - 2	03/10/10	3974.62	52.08	52.93	0.85	3922.41
MW - 2	03/12/10	3974.62	52.15	52.86	0.71	3922.36
MW - 2	03/15/10	3974.62	52.09	52.74	0.65	3922.43
MW - 2	03/18/10	3974.62	52.10	52.69	0.59	3922.43
MW - 2	03/22/10	3974.62	52.18	52.74	0.56	3922.36
MW - 2	03/24/10	3974.62	52.17	52.68	0.51	3922.37
MW - 2	03/30/10	3974.62	52.15	52.65	0.50	3922.40
MW - 2	04/07/10	3974.62	52.18	52.63	0.45	3922.37
MW - 2	04/12/10	3974.62	52.03	52.81	0.78	3922.47
MW - 2	04/16/10	3974.62	52.69	54.59	1.90	3921.65
MW - 2	04/20/10	3974.62	52.55	54.31	1.76	3921.81
MW - 2	04/27/10	3974.62	52.54	54.40	1.86	3921.80
MW - 2	04/30/10	3974.62	52.58	54.08	1.50	3921.82
MW - 2	05/12/10	3974.62	52.52	54.20	1.68	3921.85
MW - 2	05/14/10	3974.62	52.54	54.39	1.85	3921.80
MW - 2	05/17/10	3974.62	52.55	54.19	1.64	3921.82
MW - 2	05/20/10	3974.62	52.50	54.19	1.69	3921.87
MW - 2	05/25/10	3974.62	52.38	53.90	1.52	3922.01
MW - 2	06/01/10	3974.62	52.39	53.89	1.50	3922.01
MW - 2	06/09/10	3974.62	52.37	53.86	1.49	3922.03
MW - 2	06/16/10	3974.62	52.43	53.11	0.68	3922.09
MW - 2	06/28/10	3974.62	52.36	53.47	1.11	3922.09
MW - 2	07/09/10	3974.62	52.44	53.12	0.68	3922.08
MW - 2	07/14/10	3974.62	52.06	52.58	0.52	3922.48
MW - 2	07/23/10	3974.62	52.09	52.60	0.51	3922.45
MW - 2	07/29/10	3974.62	52.07	52.60	0.53	3922.47
MW - 2	08/05/10	3974.62	52.08	52.60	0.52	3922.46
MW - 2	08/12/10	3974.62	52.07	52.60	0.53	3922.47
MW - 2	08/16/10	3974.62	52.07	52.60	0.53	3922.47
MW - 2	08/18/10	3974.62	52.07	52.62	0.55	3922.47
MW - 2	08/26/10	3974.62	52.34	53.05	0.71	3922.17
MW - 2	09/02/10	3974.62	52.41	53.40	0.99	3922.06
MW - 2	09/09/10	3974.62	52.09	52.59	0.50	3922.46
MW - 2	09/30/10	3974.62	52.09	52.61	0.52	3922.45



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	10/07/10	3974.62	52.09	52.72	0.63	3922.44
MW - 2	10/14/10	3974.62	52.48	53.43	0.95	3922.00
MW - 2	10/21/10	3974.62	52.51	53.42	0.91	3921.97
MW - 2	11/04/10	3974.62	52.08	52.71	0.63	3922.45
MW - 2	11/10/10	3974.62	52.51	53.42	0.91	3921.97
MW - 2	12/01/10	3974.62	52.02	52.85	0.83	3922.48
MW - 2	12/08/10	3974.62	52.39	53.22	0.83	3922.11
MW - 2	01/26/11	3974.62	52.08	52.62	0.54	3922.46
MW - 2	02/28/11	3974.62	52.48	53.50	1.02	3921.99
MW - 2	03/04/11	3974.62	52.27	52.90	0.63	3922.26
MW - 2	03/09/11	3974.62	52.29	53.43	1.14	3922.16
MW - 2	04/28/11	3974.62	52.53	53.42	0.89	3921.96
MW - 2	05/04/11	3974.62	52.22	53.24	1.02	3922.25
MW - 2	05/11/11	3974.62	52.23	53.36	1.13	3922.22
MW - 2	05/12/11	3974.62	52.15	52.94	0.79	3922.35
MW - 2	05/18/11	3974.62	52.16	53.08	0.92	3922.32
MW - 2	05/23/11	3974.62	52.30	53.49	1.19	3922.14
MW - 2	06/08/11	3974.62	52.45	53.50	1.05	3922.01
MW - 2	06/16/11	3974.62	52.38	53.26	0.88	3922.11
MW - 2	06/22/11	3974.62	52.30	53.11	0.81	3922.20
MW - 2	06/30/11	3974.62	52.22	53.24	1.02	3922.25
MW - 2	07/06/11	3974.62	52.08	53.11	1.03	3922.39
MW - 2	07/13/11	3974.62	52.29	53.20	0.91	3922.19
MW - 2	07/15/11	3974.62	52.26	53.66	1.40	3922.15
MW - 2	07/19/11	3974.62	52.09	52.72	0.63	3922.44
MW - 2	07/21/11	3974.62	52.10	52.98	0.88	3922.39
MW - 2	07/26/11	3974.62	52.24	52.94	0.70	3922.28
MW - 2	07/28/11	3974.62	52.04	53.04	1.00	3922.43
MW - 2	08/02/11	3974.62	52.48	53.60	1.12	3921.97
MW - 2	08/09/11	3974.62	52.34	53.79	1.45	3922.06
MW - 2	08/12/11	3974.62	52.37	53.40	1.03	3922.10
MW - 2	08/15/11	3974.62	52.37	53.40	1.03	3922.10
MW - 2	08/16/11	3974.62	52.13	52.68	0.55	3922.41
MW - 2	08/19/11	3974.62	52.20	52.79	0.59	3922.33
MW - 2	08/23/11	3974.62	52.15	52.69	0.54	3922.39
MW - 2	08/26/11	3974.62	52.25	53.18	0.93	3922.23
MW - 2	08/30/11	3974.62	52.11	52.55	0.44	3922.44
MW - 2	09/01/11	3974.62	52.13	52.44	0.31	3922.44
MW - 2	09/08/11	3974.62	52.30	53.59	1.29	3922.13
MW - 2	09/13/11	3974.62	52.17	52.31	0.14	3922.43
MW - 2	09/15/11	3974.62	52.27	53.17	0.90	3922.22
MW - 2	09/22/11	3974.62	52.08	52.72	0.64	3922.44
MW - 2	10/06/11	3974.62	52.30	52.96	0.66	3922.22

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	10/13/11	3974.62	52.42	53.77	1.35	3922.00
MW - 2	10/26/11	3974.62	52.27	53.48	1.21	3922.17
MW - 2	11/22/11	3974.62	52.32	53.20	0.88	3922.17
MW - 2	12/02/11	3974.62	52.08	52.74	0.66	3922.44
MW - 2	12/29/11	3974.62	52.07	52.70	0.63	3922.46
MW - 2	01/26/12	3974.62	52.24	53.48	1.24	3922.19
MW - 2	01/31/12	3974.62	52.33	53.92	1.59	3922.05
MW - 2	02/15/12	3974.62	52.10	52.68	0.58	3922.43
MW - 2	02/28/12	3974.62	52.09	52.83	0.74	3922.42
MW - 2	03/20/12	3974.62	52.35	54.08	1.73	3922.01
MW - 2	03/27/12	3974.62	52.14	52.95	0.81	3922.36
MW - 2	04/10/12	3974.62	52.39	53.30	0.91	3922.09
MW - 2	04/19/12	3974.62	52.14	53.02	0.88	3922.35
MW - 2	04/26/12	3974.62	52.09	52.63	0.54	3922.45
MW - 2	05/08/12	3974.62	52.09	52.63	0.54	3922.45
MW - 2	05/15/12	3974.62	52.09	52.73	0.64	3922.43
MW - 2	05/17/12	3974.62	52.08	52.74	0.66	3922.44
MW - 2	06/05/12	3974.62	52.12	53.02	0.90	3922.37
MW - 2	06/21/12	3974.62	52.12	53.14	1.02	3922.35
MW - 2	06/28/12	3974.62	52.11	53.19	1.08	3922.35
MW - 2	07/17/12	3974.62	52.12	52.93	0.81	3922.38
MW - 2	08/01/12	3974.62	52.20	52.85	0.65	3922.32
MW - 2	10/02/12	3974.62	52.22	53.20	0.98	3922.25
MW - 2	10/09/12	3974.62	52.14	53.72	1.58	3922.24
MW - 2	10/16/12	3974.62	52.19	53.12	0.93	3922.29
MW - 2	10/25/12	3974.62	52.18	53.24	1.06	3922.28
MW - 2	10/30/12	3974.62	52.18	53.24	1.06	3922.28
MW - 2	11/29/12	3974.62	52.22	53.76	1.54	3922.17
MW - 2	12/14/12	3974.62	52.19	53.43	1.24	3922.24
MW - 2	02/11/13	3974.62	52.19	53.15	0.96	3922.29
MW - 2	04/11/13	3974.62	52.39	53.90	1.51	3922.00
MW - 2	04/15/13	3974.62	52.62	54.49	1.87	3921.72
MW - 2	04/22/13	3974.62	52.21	53.03	0.82	3922.29
MW - 2	05/06/13	3974.62	52.22	53.12	0.90	3922.27
MW - 2	05/09/13	3974.62	52.22	53.16	0.94	3922.26
MW - 2	05/20/13	3974.62	52.22	53.20	0.98	3922.25
MW - 2	05/24/13	3974.62	52.34	53.68	1.34	3922.08
MW - 2	05/29/13	3974.62	52.21	53.18	0.97	3922.26
MW - 2	05/31/13	3974.62	52.31	53.61	1.30	3922.12
MW - 2	06/07/13	3974.62	52.64	54.51	1.87	3921.70
MW - 2	06/12/13	3974.62	52.56	54.57	2.01	3921.76
MW - 2	06/14/13	3974.62	52.63	53.92	1.29	3921.80
MW - 2	06/19/13	3974.62	52.63	54.46	1.83	3921.72

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	06/21/13	3974.62	52.74	54.13	1.39	3921.67
MW - 2	06/25/13	3974.62	52.22	53.15	0.93	3922.26
MW - 2	06/26/13	3974.62	52.40	53.72	1.32	3922.02
MW - 2	07/03/13	3974.62	52.62	54.30	1.68	3921.75
MW - 2	07/09/13	3974.62	52.73	54.09	1.36	3921.69
MW - 2	07/11/13	3974.62	52.71	53.98	1.27	3921.72
MW - 2	07/24/13	3974.62	52.54	53.77	1.23	3921.90
MW - 2	07/26/13	3974.62	52.45	54.29	1.84	3921.89
MW - 2	07/31/13	3974.62	52.20	53.86	1.66	3922.17
MW - 2	08/02/13	3974.62	52.48	54.04	1.56	3921.91
MW - 2	08/06/13	3974.62	52.23	53.82	1.59	3922.15
MW - 2	08/14/13	3974.62	52.23	54.04	1.81	3922.12
MW - 2	08/21/13	3974.62	52.48	54.61	2.13	3921.82
MW - 2	08/26/13	3974.62	52.50	54.25	1.75	3921.86
MW - 2	09/06/13	3974.62	52.41	53.65	1.24	3922.02
MW - 2	08/30/13	3974.62	52.25	53.72	1.47	3922.15
MW - 2	09/13/13	3974.62	52.35	53.37	1.02	3922.12
MW - 2	09/27/13	3974.62	52.35	54.18	1.83	3922.00
MW - 2	09/30/13	3974.62	52.33	53.79	1.46	3922.07
MW - 2	10/02/13	3974.62	52.55	54.25	1.70	3921.82
MW - 2	10/03/13	3974.62	52.48	53.27	0.79	3922.02
MW - 2	10/11/13	3974.62	52.29	53.32	1.03	3922.18
MW - 2	10/17/13	3974.62	52.31	53.39	1.08	3922.15
MW - 2	10/22/13	3974.62	52.29	53.40	1.11	3922.16
MW - 2	10/24/13	3974.62	52.43	53.60	1.17	3922.01
MW - 2	10/30/13	3974.62	52.37	53.76	1.39	3922.04
MW - 2	11/01/13	3974.62	52.33	53.33	1.00	3922.14
MW - 2	11/04/13	3974.62	52.32	53.41	1.09	3922.14
MW - 2	11/08/13	3974.62	52.67	54.50	1.83	3921.68
MW - 2	11/13/13	3974.62	52.30	53.45	1.15	3922.15
MW - 2	11/15/13	3974.62	52.40	53.36	0.96	3922.08
MW - 2	11/18/13	3974.62	52.31	53.32	1.01	3922.16
MW - 2	12/12/13	3974.62	52.30	53.39	1.09	3922.16
MW - 2	12/16/13	3974.62	52.31	53.56	1.25	3922.12
MW - 2	12/18/13	3974.62	52.34	53.52	1.18	3922.10
MW - 2	12/23/13	3974.62	52.36	53.83	1.47	3922.04
MW - 2	12/30/13	3974.62	52.32	53.67	1.35	3922.10
MW - 2	01/01/14	3974.62	52.32	53.63	1.31	3922.10
MW - 2	01/06/14	3974.62	52.29	53.53	1.24	3922.14
MW - 2	01/15/14	3974.62	52.36	54.27	1.91	3921.97
MW - 2	01/17/14	3974.62	52.29	53.57	1.28	3922.14
MW - 2	01/20/14	3974.62	52.53	54.20	1.67	3921.84
MW - 2	01/22/14	3974.62	52.66	54.30	1.64	3921.71

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	01/29/14	3974.62	52.32	53.59	1.27	3922.11
MW - 2	02/04/14	3974.62	52.58	53.67	1.09	3921.88
MW - 2	02/13/14	3974.62	52.29	53.68	1.39	3922.12
MW - 2	02/21/14	3974.62	52.58	55.18	2.60	3921.65
MW - 2	02/26/14	3974.62	52.57	55.13	2.56	3921.67
MW - 2	03/12/14	3974.62	52.33	54.38	2.05	3921.98
MW - 2	03/14/14	3974.62	52.28	54.35	2.07	3922.03
MW - 2	03/17/14	3974.62	52.40	54.36	1.96	3921.93
MW - 2	03/24/14	3974.62	51.80	53.59	1.79	3922.55
MW - 2	03/26/14	3974.62	51.82	53.73	1.91	3922.51
MW - 2	04/09/14	3974.62	52.28	53.47	1.19	3922.16
MW - 2	04/18/14	3974.62	52.29	53.53	1.24	3922.14
MW - 2	04/21/14	3974.62	52.33	53.37	1.04	3922.13
MW - 2	04/28/14	3974.62	52.30	53.54	1.24	3922.13
MW - 2	05/09/14	3974.62	52.38	53.91	1.53	3922.01
MW - 2	05/12/14	3974.62	52.55	54.06	1.51	3921.84
MW - 2	05/19/14	3974.62	52.36	54.14	1.78	3921.99
MW - 2	05/28/14	3974.62	52.37	54.21	1.84	3921.97
MW - 2	06/04/14	3974.62	52.29	54.19	1.90	3922.05
MW - 2	06/13/14	3974.62	52.36	54.25	1.89	3921.98
MW - 2	06/16/14	3974.62	52.35	53.39	1.04	3922.11
MW - 2	07/02/14	3974.62	52.36	53.67	1.31	3922.06
MW - 2	07/07/14	3974.62	52.34	53.70	1.36	3922.08
MW - 2	07/18/14	3974.62	52.47	54.42	1.95	3921.86
MW - 2	07/30/14	3974.62	52.33	53.93	1.60	3922.05
MW - 2	08/11/14	3974.62	52.34	54.03	1.69	3922.03
MW - 2	08/22/14	3974.62	52.39	55.65	3.26	3921.74
MW - 2	08/23/14	3974.62	52.39	55.65	3.26	3921.74
MW - 2	09/10/14	3974.62	52.41	54.08	1.67	3921.96
MW - 2	09/23/14	3974.62	52.41	54.13	1.72	3921.95
MW - 2	09/25/14	3974.62	52.78	54.25	1.47	3921.62
MW - 2	10/03/14	3974.62	52.52	54.19	1.67	3921.85
MW - 2	10/15/14	3974.62	52.41	54.23	1.82	3921.94
MW - 2	10/17/14	3974.62	52.59	54.11	1.52	3921.80
MW - 2	10/24/14	3974.62	52.67	53.99	1.32	3921.75
MW - 2	10/27/14	3974.62	52.51	53.94	1.43	3921.90
MW - 2	10/31/14	3974.62	52.36	52.85	0.49	3922.19
MW - 2	11/03/14	3974.62	52.60	54.71	2.11	3921.70
MW - 2	11/10/14	3974.62	52.62	54.10	1.48	3921.78
MW - 2	11/14/14	3974.62	52.44	53.53	1.09	3922.02
MW - 2	11/17/14	3974.62	52.45	53.47	1.02	3922.02
MW - 2	11/18/14	3974.62	52.45	53.47	1.02	3922.02
MW - 2	11/21/14	3974.62	52.44	53.55	1.11	3922.01

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	12/03/14	3974.62	52.37	53.81	1.44	3922.03
MW - 2	12/05/14	3974.62	52.46	53.46	1.00	3922.01
MW - 2	12/12/14	3974.62	52.47	53.59	1.12	3921.98
MW - 2	12/15/14	3974.62	52.47	53.59	1.12	3921.98
MW - 2	12/19/14	3974.62	52.43	53.56	1.13	3922.02
MW - 2	12/22/14	3974.62	52.41	53.49	1.08	3922.05
MW - 2	01/05/15	3974.62	52.38	53.46	1.08	3922.08
MW - 2	01/09/15	3974.62	52.38	53.72	1.34	3922.04
MW - 2	01/14/15	3974.62	53.37	53.74	0.37	3921.19
MW - 2	01/21/15	3974.62	52.39	53.41	1.02	3922.08
MW - 2	02/18/15	3974.62	52.64	54.21	1.57	3921.74
MW - 2	02/19/15	3974.62	52.46	53.29	0.83	3922.04
MW - 2	03/09/15	3974.62	52.38	53.40	1.02	3922.09
MW - 2	03/11/15	3974.62	52.36	53.66	1.30	3922.07
MW - 2	03/18/15	3974.62	52.35	53.66	1.31	3922.07
MW - 2	03/31/15	3974.62	52.41	53.43	1.02	3922.06
MW - 2	04/09/15	3974.62	52.35	53.58	1.23	3922.09
MW - 2	04/15/15	3974.62	52.34	53.61	1.27	3922.09
MW - 2	04/22/15	3974.62	52.34	53.63	1.29	3922.09
MW - 2	05/12/15	3974.62	52.34	53.65	1.31	3922.08
MW - 2	05/26/15	3974.62	52.40	53.38	0.98	3922.07
MW - 2	06/01/15	3974.62	52.37	53.70	1.33	3922.05
MW - 2	06/04/15	3974.62	52.35	53.61	1.26	3922.08
MW - 2	06/22/15	3974.62	52.46	54.41	1.95	3921.87
MW - 2	06/26/15	3974.62	52.75	54.40	1.65	3921.62
MW - 2	07/22/15	3974.62	52.58	54.16	1.58	3921.80
MW - 2	07/27/15	3974.62	52.66	54.03	1.37	3921.75
MW - 2	08/18/15	3974.62	52.24	53.73	1.49	3922.16
MW - 2	09/09/15	3974.62	52.00	53.85	1.85	3922.34
MW - 2	09/30/15	3974.62	52.70	54.95	2.25	3921.58
MW - 2	10/08/15	3974.62	52.54	54.57	2.03	3921.78
MW - 2	10/16/15	3974.62	52.62	55.10	2.48	3921.63
MW - 2	10/21/15	3974.62	52.45	53.80	1.35	3921.97
MW - 2	11/18/15	3974.62	52.58	54.70	2.12	3921.72
MW - 2	11/23/15	3974.62	53.01	53.31	0.30	3921.57
MW - 2	12/04/15	3974.62	52.40	53.85	1.45	3922.00
MW - 2	12/09/15	3974.62	52.71	54.88	2.17	3921.58
MW - 2	01/12/16	3974.62	52.42	54.00	1.58	3921.96
MW - 2	01/22/16	3974.62	52.40	54.00	1.60	3921.98
MW - 2	01/25/16	3974.62	52.49	53.85	1.36	3921.93
MW - 2	02/12/16	3974.62	52.54	54.24	1.70	3921.83
MW - 2	02/17/16	3974.62	52.60	54.39	1.79	3921.75
MW - 2	02/24/16	3974.62	52.43	53.66	1.23	3922.01

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	03/09/16	3974.62	52.52	54.85	2.33	3921.75
MW - 2	03/30/16	3974.62	52.61	54.62	2.01	3921.71
MW - 2	04/13/16	3974.62	52.54	54.49	1.95	3921.79
MW - 2	04/27/16	3974.62	52.55	54.73	2.18	3921.74
MW - 2	05/11/16	3974.62	52.53	53.87	1.34	3921.89
MW - 2	06/03/16	3974.62	52.55	54.55	2.00	3921.77
MW - 2	06/13/16	3974.62	52.43	53.73	1.30	3922.00
MW - 2	07/01/16	3974.62	52.65	54.34	1.69	3921.72
MW - 2	07/08/16	3974.62	52.45	54.12	1.67	3921.92
MW - 2	07/12/16	3974.62	52.46	54.00	1.54	3921.93
MW - 2	07/18/16	3974.62	52.54	53.88	1.34	3921.88
MW - 2	08/02/16	3974.62	52.49	54.00	1.51	3921.90
MW - 2	08/12/16	3974.62	52.50	54.27	1.77	3921.85
MW - 2	08/17/16	3974.62	52.44	54.25	1.81	3921.91
MW - 2	09/21/16	3974.62	52.43	54.07	1.64	3921.94
MW - 2	10/21/16	3974.62	52.35	54.20	1.85	3921.99
MW - 2	10/24/16	3974.62	52.53	54.36	1.83	3921.82
MW - 2	10/26/16	3974.62	52.99	53.02	0.03	3921.63
MW - 2	10/31/16	3974.62	52.48	54.30	1.82	3921.87
MW - 2	11/21/16	3974.62	52.64	54.43	1.79	3921.71
MW - 2	11/28/16	3974.62	52.40	53.92	1.52	3921.99
MW - 2	12/07/16	3974.62	52.53	54.51	1.98	3921.79
MW - 2	12/14/16	3974.62	52.71	54.33	1.62	3921.67
MW - 2	12/21/16	3974.62	52.42	53.82	1.40	3921.99
MW - 2	01/04/17	3974.62	52.40	53.96	1.56	3921.99
MW - 2	01/12/17	3974.62	52.41	53.98	1.57	3921.97
MW - 2	01/26/17	3974.62	52.52	54.56	2.04	3921.79
MW - 2	02/07/17	3974.62	52.40	54.17	1.77	3921.95
MW - 2	02/21/17	3974.62	52.40	53.94	1.54	3921.99
MW - 2	02/23/17	3974.62	52.38	53.91	1.53	3922.01
MW - 2	03/08/17	3974.62	52.55	54.41	1.86	3921.79
MW - 2	04/07/17	3974.62	52.38	53.90	1.52	3922.01
MW - 2	04/18/17	3974.62	52.39	53.90	1.51	3922.00
MW - 2	05/10/17	3974.62	52.48	54.39	1.91	3921.85
MW - 2	05/24/17	3974.62	52.38	52.87	0.49	3922.17
MW - 2	06/02/17	3974.62	52.36	53.99	1.63	3922.02
MW - 2	07/12/17	3974.62	52.53	54.94	2.41	3921.73
MW - 2	07/19/17	3974.62	52.55	54.48	1.93	3921.78
MW - 2	07/27/17	3974.62	52.38	54.29	1.91	3921.95
MW - 2	08/11/17	3974.62	52.51	54.89	2.38	3921.75
MW - 2	08/24/17	3974.62	52.43	54.17	1.74	3921.93
MW - 2	09/05/17	3974.62	52.45	54.22	1.77	3921.90
MW - 2	10/18/17	3974.62	52.55	54.53	1.98	3921.77

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	10/25/17	3974.62	52.51	54.11	1.60	3921.87
MW - 2	11/01/17	3974.62	52.50	54.13	1.63	3921.88
MW - 2	11/08/17	3974.62	52.48	53.30	0.82	3922.02
MW - 2	11/28/17	3974.62	52.46	53.40	0.94	3922.02
MW - 2	12/19/17	3974.62	52.45	54.29	1.84	3921.89
MW - 2	01/16/18	3974.62	52.38	54.28	1.90	3921.96
MW - 2	01/30/18	3974.62	52.45	54.18	1.73	3921.91
MW - 2	02/06/18	3974.62	52.48	54.34	1.86	3921.86
MW - 2	02/13/18	3974.62	52.50	54.36	1.86	3921.84
MW - 2	02/26/18	3974.62	52.47	54.12	1.65	3921.90
MW - 2	04/03/18	3974.62	52.48	54.09	1.61	3921.90
MW - 2	04/17/18	3974.62	52.46	54.12	1.66	3921.91
MW - 2	05/07/18	3974.62	52.46	54.64	2.18	3921.83
MW - 2	06/21/18	3974.62	52.49	54.37	1.88	3921.85
MW - 2	06/26/18	3974.62	52.48	54.35	1.87	3921.86
MW - 2	07/12/18	3974.62	52.51	54.36	1.85	3921.83
MW - 2	07/17/18	3974.62	52.51	54.37	1.86	3921.83
MW - 2	08/01/18	3974.62	52.53	54.39	1.86	3921.81
MW - 2	08/09/18	3974.62	52.52	54.34	1.82	3921.83
MW - 2	08/23/18	3974.62	52.54	54.43	1.89	3921.80
MW - 2	08/30/18	3974.62	52.57	53.51	0.94	3921.91
MW - 2	08/31/18	3974.62	52.59	54.21	1.62	3921.79
MW - 2	09/11/18	3974.62	52.63	53.91	1.28	3921.80
MW - 2	09/19/18	3974.62	52.57	53.91	1.34	3921.85
MW - 2	10/16/18	3974.62	52.57	53.96	1.39	3921.84
MW - 2	11/01/18	3974.62	52.56	53.81	1.25	3921.87
MW - 2	11/05/18	3974.62	52.52	54.16	1.64	3921.85
MW - 2	11/14/18	3974.62	52.52	53.79	1.27	3921.91
MW - 2	12/04/18	3974.62	52.53	54.58	2.05	3921.78
MW - 2	12/06/18	3974.62	52.51	54.56	2.05	3921.80
MW - 2	12/18/18	3974.62	52.65	54.02	1.37	3921.76
MW - 2	12/20/18	3974.62	52.66	54.52	1.86	3921.68
MW - 2	12/26/18	3974.62	52.62	53.99	1.37	3921.79
MW - 2	01/08/19	3974.62	52.62	54.01	1.39	3921.79
MW - 2	01/10/19	3974.62	52.61	53.97	1.36	3921.81
MW - 2	01/15/19	3974.62	52.66	53.92	1.26	3921.77
MW - 2	01/24/19	3974.62	52.88	53.91	1.03	3921.59
MW - 2	02/11/19	3974.62	52.80	53.99	1.19	3921.64
MW - 2	02/18/19	3974.62	52.48	53.97	1.49	3921.92
MW - 2	04/16/19	3974.62	52.74	54.01	1.27	3921.69
MW - 2	04/23/19	3974.62	52.88	54.21	1.33	3921.54
MW - 2	04/30/19	3974.62	52.55	54.39	1.84	3921.79
MW - 2	05/07/19	3974.62	52.72	54.10	1.38	3921.69

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	05/09/19	3974.62	52.78	54.09	1.31	3921.64
MW - 2	05/14/19	3974.62	52.67	54.01	1.34	3921.75
MW - 2	06/04/19	3974.62	52.80	54.01	1.21	3921.64
MW - 2	06/11/19	3974.62	52.82	53.98	1.16	3921.63
MW - 2	06/13/19	3974.62	52.77	53.99	1.22	3921.67
MW - 2	06/17/19	3974.62	52.58	53.76	1.18	3921.86
MW - 2	07/01/19	3974.62	52.51	53.97	1.46	3921.89
MW - 2	07/02/19	3974.62	52.56	53.80	1.24	3921.87
MW - 2	08/19/19	3974.62	52.59	53.24	0.65	3921.93
MW - 2	08/29/19	3974.62	52.58	53.29	0.71	3921.93
MW - 2	09/03/19	3974.62	52.51	53.26	0.75	3922.00
MW - 2	09/10/19	3974.62	52.49	53.24	0.75	3922.02
MW - 2	10/01/19	3974.62	52.54	53.22	0.68	3921.98
MW - 2	10/22/19	3974.62	52.56	53.31	0.75	3921.95
MW - 2	11/11/19	3974.62	52.65	53.27	0.62	3921.88
MW - 2	11/15/19	3974.62	52.60	55.24	2.64	3921.62
MW - 2	01/08/20	3974.62	52.57	55.30	2.73	3921.64
MW - 2	02/13/20	3974.62	52.74	54.45	1.71	3921.62
MW - 2	02/18/20	3974.62	52.69	54.44	1.75	3921.67
MW - 2	05/05/20	3974.62	52.60	55.12	2.52	3921.64
MW - 2	06/11/20	3974.62	52.60	55.26	2.66	3921.62
MW - 2	09/23/20	3974.62	52.67	55.67	3.00	3921.50
MW - 2	12/04/20	3974.62	52.67	55.69	3.02	3921.50
MW - 2	03/23/21	3974.62	52.68	55.81	3.13	3921.47
MW - 2	06/04/21	3974.62	52.66	55.00	2.34	3921.61
MW - 2	08/12/21	3974.62	52.77	56.16	3.39	3921.34
MW - 2	09/30/21	3974.62	52.89	55.88	2.99	3921.28
MW - 2	12/09/21	3974.62	52.99	55.02	2.03	3921.33
MW - 2	02/17/22	3974.62	52.83	56.13	3.30	3921.30
MW - 2	05/18/22	3974.62	52.82	56.33	3.51	3921.27
MW - 2	06/30/22	3974.62	52.89	56.29	3.40	3921.22
MW - 2	07/20/22	3974.62	53.01	55.95	2.94	3921.17
MW - 2	07/26/22	3974.62	53.22	54.90	1.68	3921.15
MW - 2	08/09/22	3974.62	53.11	55.26	2.15	3921.19
MW - 2	09/27/22	3974.62	53.00	56.31	3.31	3921.12
MW - 2	10/06/22	3974.62	53.11	55.70	2.59	3921.12
MW - 2	10/22/22	3974.62	53.41	54.51	1.10	3921.05
MW - 2	11/02/22	3974.62	53.17	55.41	2.24	3921.11
MW - 2	11/14/22	3974.62	53.27	55.07	1.80	3921.08
MW - 2	01/06/23	3974.62	53.03	56.23	3.20	3921.11
MW - 2	01/12/23	3974.62	53.33	54.75	1.42	3921.08
MW - 2	01/16/23	3974.62	53.42	54.30	0.88	3921.07
MW - 2	02/13/23	3974.62	53.18	55.52	2.34	3921.09



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	03/02/23	3974.62	53.11	55.90	2.79	3921.09
MW - 2	03/28/23	3974.62	53.23	55.33	2.10	3921.08
MW - 2	04/04/23	3974.62	53.36	56.00	2.64	3920.86
MW - 2	05/16/23	3974.62	53.15	55.76	2.61	3921.08
MW - 2	07/17/23	3974.62	53.12	56.37	3.25	3921.01
MW - 2	07/28/23	3974.62	53.27	55.57	2.30	3921.01
MW - 2	08/07/23	3974.62	53.17	56.08	2.91	3921.01
MW - 2	08/08/23	3974.62	53.21	55.97	2.76	3921.00
MW - 2	10/11/23	3974.62	53.10	56.77	3.67	3920.97
MW - 2	12/07/23	3974.62	53.18	56.49	3.31	3920.94
MW - 3	03/02/00	3974.60	52.71	55.03	2.32	3921.54
MW - 3	04/25/00	3974.60	52.61	55.09	2.48	3921.62
MW - 3	09/06/00	3974.60	52.54	55.66	3.12	3921.59
MW - 3	11/28/00	3974.60	52.64	55.57	2.93	3921.52
MW - 3	02/21/01	3974.60	52.94	53.50	0.56	3921.58
MW - 3	05/31/01	3974.60	52.51	55.71	3.20	3921.61
MW - 3	08/23/01	3974.60	52.46	55.80	3.34	3921.64
MW - 3	11/21/01	3974.60	52.46	55.81	3.35	3921.64
MW - 3	02/13/02	3974.60	52.51	55.78	3.27	3921.60
MW - 3	06/12/02	3974.60	52.47	55.17	2.70	3921.73
MW - 3	08/26/02	3974.60	55.74	52.49	-3.25	3919.35
MW - 3	11/08/02	3974.60	53.15	53.21	0.06	3921.44
MW - 3	11/21/02	3974.60	53.15	53.21	0.06	3921.44
MW - 3	12/27/02	3974.60	52.64	55.24	2.60	3921.57
MW - 3	01/06/03	3974.60	52.87	54.47	1.60	3921.49
MW - 3	01/08/03	3974.60	52.77	54.69	1.92	3921.54
MW - 3	01/10/03	3974.60	53.04	53.46	0.42	3921.50
MW - 3	01/13/03	3974.60	53.04	53.41	0.37	3921.50
MW - 3	02/05/03	3974.60	53.04	53.41	0.37	3921.50
MW - 3	02/26/03	3974.60	52.81	54.24	1.43	3921.58
MW - 3	03/04/03	3974.60	52.84	54.25	1.41	3921.55
MW - 3	03/12/03	3974.60	52.65	55.24	2.59	3921.56
MW - 3	03/18/03	3974.60	52.72	55.30	2.58	3921.49
MW - 3	03/25/03	3974.60	52.64	55.30	2.66	3921.56
MW - 3	03/31/03	3974.60	52.95	53.74	0.79	3921.53
MW - 3	04/09/03	3974.60	52.41	52.98	0.57	3922.10
MW - 3	04/14/03	3974.60	52.68	52.91	0.23	3921.89
MW - 3	05/07/03	3974.60	52.56	55.23	2.67	3921.64
MW - 3	05/08/03	3974.60	52.64	55.30	2.66	3921.56
MW - 3	05/13/03	3974.60	52.66	55.36	2.70	3921.54
MW - 3	05/21/03	3974.60	52.65	55.40	2.75	3921.54
MW - 3	05/28/03	3974.60	53.03	53.87	0.84	3921.44

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 3	06/03/03	3974.60	52.72	55.12	2.40	3921.52
MW - 3	06/09/03	3974.60	52.65	55.50	2.85	3921.52
MW - 3	07/01/03	3974.60	52.68	55.81	3.13	3921.45
MW - 3	07/08/03	3974.60	52.68	55.84	3.16	3921.45
MW - 3	07/29/03	3974.60	52.53	55.71	3.18	3921.59
MW - 3	08/04/03	3974.60	52.70	55.91	3.21	3921.42
MW - 3	08/18/03	3974.60	52.81	56.01	3.20	3921.31
MW - 3	08/25/03	3974.60	53.83	56.06	2.23	3920.44
MW - 3	10/01/03	3974.60	52.60	54.81	2.21	3921.67
MW - 3	10/06/03	3974.60	62.62	55.73	-6.89	3913.01
MW - 3	10/08/03	3974.60	52.90	56.09	3.19	3921.22
MW - 3	10/15/03	3974.60	52.89	56.04	3.15	3921.24
MW - 3	11/12/03	3974.60	53.21	56.72	3.51	3920.86
MW - 3	11/19/03	3974.60	52.99	56.08	3.09	3921.15
MW - 3	12/01/03	3974.60	53.05	56.08	3.03	3921.10
MW - 3	12/10/03	3974.60	52.72	55.74	3.02	3921.43
MW - 3	02/05/04	3974.60	53.04	56.11	3.07	3921.10
MW - 3	02/17/04	3974.60	52.80	55.64	2.84	3921.37
MW - 3	02/25/04	3974.60	53.03	56.08	3.05	3921.11
MW - 3	03/09/04	3974.60	52.83	55.86	3.03	3921.32
MW - 3	03/16/04	3974.60	52.79	55.81	3.02	3921.36
MW - 3	03/22/04	3974.60	52.85	54.16	1.31	3921.55
MW - 3	04/07/04	3974.60	52.87	53.18	0.31	3921.68
MW - 3	04/12/04	3974.60	52.97	55.02	2.05	3921.32
MW - 3	04/19/04	3974.60	52.80	53.06	0.26	3921.76
MW - 3	05/05/04	3974.60	52.87	55.57	2.70	3921.33
MW - 3	05/11/04	3974.60	53.02	55.68	2.66	3921.18
MW - 3	06/07/04	3974.60	52.62	55.29	2.67	3921.58
MW - 3	06/15/04	3974.60	52.65	55.27	2.62	3921.56
MW - 3	06/20/04	3974.60	52.65	55.27	2.62	3921.56
MW - 3	06/21/04	3974.60	52.61	55.32	2.71	3921.58
MW - 3	06/28/04	3974.60	52.62	55.34	2.72	3921.57
MW - 3	07/08/04	3974.60	52.60	55.31	2.71	3921.59
MW - 3	07/12/04	3974.60	52.57	55.33	2.76	3921.62
MW - 3	08/06/04	3974.60	52.69	55.36	2.67	3921.51
MW - 3	08/12/04	3974.60	52.68	55.37	2.69	3921.52
MW - 3	08/17/04	3974.60	52.63	55.30	2.67	3921.57
MW - 3	08/26/04	3974.60	52.63	55.79	3.16	3921.50
MW - 3	09/01/04	3974.60	52.74	55.15	2.41	3921.50
MW - 3	09/03/04	3974.60	52.83	55.22	2.39	3921.41
MW - 3	09/08/04	3974.60	52.78	55.42	2.64	3921.42
MW - 3	09/14/04	3974.60	52.76	55.05	2.29	3921.50
MW - 3	09/22/04	3974.60	52.86	55.05	2.19	3921.41

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 3	10/01/04	3974.60	52.73	55.30	2.57	3921.48
MW - 3	10/08/04	3974.60	52.78	55.16	2.38	3921.46
MW - 3	10/15/04	3974.60	52.65	54.80	2.15	3921.63
MW - 3	10/22/04	3974.60	52.66	55.20	2.54	3921.56
MW - 3	11/12/04	3974.60	53.11	53.44	0.33	3921.44
MW - 3	11/26/04	3974.60	53.10	53.60	0.50	3921.43
MW - 3	12/02/04	3974.60	53.25	53.50	0.25	3921.31
MW - 3	12/06/04	3974.60	53.09	53.59	0.50	3921.44
MW - 3	12/13/04	3974.60	53.12	53.60	0.48	3921.41
MW - 3	12/15/04	3974.60	53.12	53.60	0.48	3921.41
MW - 3	12/27/04	3974.60	52.87	54.20	1.33	3921.53
MW - 3	01/10/05	3974.60	52.72	54.54	1.82	3921.61
MW - 3	01/18/05	3974.60	52.70	54.70	2.00	3921.60
MW - 3	01/18/05	3974.60	52.81	53.85	1.04	3921.63
MW - 3	01/25/05	3974.60	52.65	54.58	1.93	3921.66
MW - 3	01/27/05	3974.60	52.70	54.40	1.70	3921.65
MW - 3	02/01/05	3974.60	52.66	54.47	1.81	3921.67
MW - 3	02/07/05	3974.60	52.60	54.49	1.89	3921.72
MW - 3	02/11/05	3974.60	52.63	54.38	1.75	3921.71
MW - 3	02/15/05	3974.60	52.64	54.36	1.72	3921.70
MW - 3	02/22/05	3974.60	52.50	54.89	2.39	3921.74
MW - 3	02/24/05	3974.60	52.51	54.85	2.34	3921.74
MW - 3	03/03/05	3974.60	52.49	54.90	2.41	3921.75
MW - 3	03/09/05	3974.60	52.49	54.92	2.43	3921.75
MW - 3	03/22/05	3974.60	52.52	54.84	2.32	3921.73
MW - 3	03/24/05	3974.60	52.52	54.84	2.32	3921.73
MW - 3	03/31/05	3974.60	DAMAGED		-	-
MW - 3	06/22/05	3974.60	52.45	54.60	2.15	3921.83
MW - 3	07/21/05	3974.60	52.38	54.60	2.22	3921.89
MW - 3	08/03/05	3974.60	52.40	54.52	2.12	3921.88
MW - 3	08/12/05	3974.60	52.39	53.43	1.04	3922.05
MW - 3	08/15/05	3974.60	52.44	54.27	1.83	3921.89
MW - 3	08/22/05	3974.60	52.43	54.34	1.91	3921.88
MW - 3	08/30/05	3974.60	52.39	54.38	1.99	3921.91
MW - 3	09/07/05	3974.60	52.40	54.39	1.99	3921.90
MW - 3	09/14/05	3974.60	52.43	54.30	1.87	3921.89
MW - 3	09/20/05	3974.60	52.40	54.20	1.80	3921.93
MW - 3	09/21/05	3974.60	52.43	54.33	1.90	3921.89
MW - 3	09/28/05	3974.60	52.39	54.36	1.97	3921.91
MW - 3	10/06/05	3974.60	52.30	54.68	2.38	3921.94
MW - 3	10/13/05	3974.60	52.30	54.66	2.36	3921.95
MW - 3	10/20/05	3974.60	52.31	54.60	2.29	3921.95
MW - 3	10/26/05	3974.60	52.32	54.60	2.28	3921.94

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 3	11/03/05	3974.60	52.28	54.59	2.31	3921.97
MW - 3	11/10/05	3974.60	52.27	54.62	2.35	3921.98
MW - 3	11/16/05	3974.60	52.31	54.58	2.27	3921.95
MW - 3	11/23/05	3974.60	52.36	54.50	2.14	3921.92
MW - 3	11/28/05	3974.60	52.25	54.60	2.35	3922.00
MW - 3	12/05/05	3974.60	52.30	54.49	2.19	3921.97
MW - 3	12/12/05	3974.60	52.29	54.51	2.22	3921.98
MW - 3	12/16/05	3974.60	52.89	53.78	0.89	3921.58
MW - 3	12/19/05	3974.60	52.36	54.53	2.17	3921.91
MW - 3	12/29/05	3974.60	52.28	54.60	2.32	3921.97
MW - 3	01/04/06	3974.60	52.33	54.58	2.25	3921.93
MW - 3	01/10/06	3974.60	52.29	54.58	2.29	3921.97
MW - 3	01/17/06	3974.60	52.28	54.52	2.24	3921.98
MW - 3	01/26/06	3974.60	52.27	54.52	2.25	3921.99
MW - 3	01/31/06	3974.60	52.28	54.50	2.22	3921.99
MW - 3	02/07/06	3974.60	52.27	54.46	2.19	3922.00
MW - 3	02/09/06	3974.60	52.36	54.15	1.79	3921.97
MW - 3	02/13/06	3974.60	52.25	54.49	2.24	3922.01
MW - 3	02/22/06	3974.60	52.25	54.53	2.28	3922.01
MW - 3	02/28/06	3974.60	52.27	54.50	2.23	3922.00
MW - 3	03/07/06	3974.60	52.28	54.46	2.18	3921.99
MW - 3	03/15/06	3974.60	52.25	54.44	2.19	3922.02
MW - 3	03/20/06	3974.60	52.24	54.37	2.13	3922.04
MW - 3	03/22/06	3974.60	52.71	52.78	0.07	3921.88
MW - 3	03/29/06	3974.60	52.28	54.11	1.83	3922.05
MW - 3	04/11/06	3974.60	52.23	54.29	2.06	3922.06
MW - 3	04/18/06	3974.60	52.23	54.32	2.09	3922.06
MW - 3	04/25/06	3974.60	52.32	54.12	1.80	3922.01
MW - 3	05/02/06	3974.60	52.23	54.43	2.20	3922.04
MW - 3	05/09/06	3974.60	52.22	54.30	2.08	3922.07
MW - 3	05/16/06	3974.60	52.22	54.29	2.07	3922.07
MW - 3	05/23/06	3974.60	52.23	54.30	2.07	3922.06
MW - 3	05/31/06	3974.60	52.23	54.31	2.08	3922.06
MW - 3	06/06/06	3974.60	52.22	54.21	1.99	3922.08
MW - 3	06/13/06	3974.60	52.21	54.24	2.03	3922.09
MW - 3	06/20/06	3974.60	52.21	54.23	2.02	3922.09
MW - 3	06/21/06	3974.60	52.34	53.66	1.32	3922.06
MW - 3	07/06/06	3974.60	52.22	54.25	2.03	3922.08
MW - 3	07/12/06	3974.60	52.29	53.96	1.67	3922.06
MW - 3	07/20/06	3974.60	52.25	53.99	1.74	3922.09
MW - 3	07/25/06	3974.60	52.29	53.88	1.59	3922.07
MW - 3	08/01/06	3974.60	52.29	53.90	1.61	3922.07
MW - 3	08/16/06	3974.60	52.32	53.78	1.46	3922.06

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 3	08/23/06	3974.60	53.33	53.75	0.42	3921.21
MW - 3	08/28/06	3974.60	52.32	53.79	1.47	3922.06
MW - 3	09/12/06	3974.60	52.32	53.77	1.45	3922.06
MW - 3	09/22/06	3974.60	52.34	54.01	1.67	3922.01
MW - 3	10/06/06	3974.60	WELL OBSTRUCTED		-	-
MW - 3	10/10/06	3974.60	WELL OBSTRUCTED		-	-
MW - 3	12/04/06	3974.60	WELL OBSTRUCTED		-	-
MW - 3	12/15/06	3974.60	WELL OBSTRUCTED		-	-
MW - 3	01/05/07	3974.60	WELL OBSTRUCTED		-	-
MW - 3	02/09/07	3974.60	INSUFFICIENT		-	-
MW - 3	03/14/07	3974.60	52.20	53.73	1.53	3922.17
MW - 3	03/26/07	3974.60	52.16	53.99	1.83	3922.17
MW - 3	04/03/07	3974.60	52.14	54.06	1.92	3922.17
MW - 3	04/09/07	3974.60	52.13	54.03	1.90	3922.19
MW - 3	04/26/07	3974.60	52.13	54.06	1.93	3922.18
MW - 3	04/30/07	3974.60	52.16	53.96	1.80	3922.17
MW - 3	05/11/07	3974.60	52.13	54.00	1.87	3922.19
MW - 3	05/16/07	3974.60	52.16	53.90	1.74	3922.18
MW - 3	05/22/07	3974.60	52.14	53.93	1.79	3922.19
MW - 3	05/29/07	3974.60	52.13	53.94	1.81	3922.20
MW - 3	06/01/07	3974.60	52.12	53.96	1.84	3922.20
MW - 3	06/08/07	3974.60	52.13	53.95	1.82	3922.20
MW - 3	06/11/07	3974.60	52.18	53.80	1.62	3922.18
MW - 3	06/20/07	3974.60	52.13	53.90	1.77	3922.20
MW - 3	07/10/07	3974.60	52.12	53.90	1.78	3922.21
MW - 3	07/20/07	3974.60	52.12	53.90	1.78	3922.21
MW - 3	07/25/07	3974.60	52.12	53.84	1.72	3922.22
MW - 3	08/01/07	3974.60	52.11	53.81	1.70	3922.24
MW - 3	08/10/07	3974.60	52.12	53.86	1.74	3922.22
MW - 3	08/15/07	3974.60	52.12	53.77	1.65	3922.23
MW - 3	08/30/07	3974.60	52.12	53.83	1.71	3922.22
MW - 3	08/31/07	3974.60	52.12	53.83	1.71	3922.22
MW - 3	09/10/07	3974.60	52.11	53.81	1.70	3922.24
MW - 3	09/19/07	3974.60	52.11	53.79	1.68	3922.24
MW - 3	10/01/07	3974.60	52.22	53.36	1.14	3922.21
MW - 3	10/19/07	3974.60	52.14	53.59	1.45	3922.24
MW - 3	11/12/07	3974.60	52.15	53.52	1.37	3922.24
MW - 3	12/13/07	3974.60	52.08	53.72	1.64	3922.27
MW - 3	03/07/08	3974.60	52.06	53.62	1.56	3922.31
MW - 3	05/29/08	3974.60	52.04	53.41	1.37	3922.35
MW - 3	06/02/08	3974.60	52.04	53.35	1.31	3922.36
MW - 3	06/03/08	3974.60	52.04	53.35	1.31	3922.36
MW - 3	08/02/08	3974.60	52.05	53.45	1.40	3922.34

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 3	09/03/08	3974.60	52.01	53.42	1.41	3922.38
MW - 3	09/19/08	3974.60	52.13	53.38	1.25	3922.28
MW - 3	09/26/08	3974.60	52.08	53.38	1.30	3922.33
MW - 3	10/10/08	3974.60	52.01	53.34	1.33	3922.39
MW - 3	10/17/08	3974.60	52.04	53.32	1.28	3922.37
MW - 3	10/21/08	3974.60	52.06	53.33	1.27	3922.35
MW - 3	10/30/08	3974.60	52.03	53.30	1.27	3922.38
MW - 3	11/04/08	3974.60	52.03	53.26	1.23	3922.39
MW - 3	11/18/08	3974.60	52.03	53.30	1.27	3922.38
MW - 3	11/25/08	3974.60	52.06	53.33	1.27	3922.35
MW - 3	12/10/08	3974.60	52.04	53.29	1.25	3922.37
MW - 3	12/18/08	3974.60	52.02	53.31	1.29	3922.39
MW - 3	01/06/09	3974.60	52.00	53.29	1.29	3922.41
MW - 3	01/14/09	3974.60	52.03	53.31	1.28	3922.38
MW - 3	01/21/09	3974.60	52.03	53.25	1.22	3922.39
MW - 3	01/22/09	3974.60	52.02	53.02	1.00	3922.43
MW - 3	01/30/09	3974.60	52.04	53.27	1.23	3922.38
MW - 3	02/03/09	3974.60	52.03	53.20	1.17	3922.39
MW - 3	02/12/09	3974.60	52.02	53.20	1.18	3922.40
MW - 3	02/19/09	3974.60	52.02	53.17	1.15	3922.41
MW - 3	03/04/09	3974.60	52.05	53.03	0.98	3922.40
MW - 3	03/06/09	3974.60	52.01	53.05	1.04	3922.43
MW - 3	03/11/09	3974.60	52.04	53.19	1.15	3922.39
MW - 3	03/16/09	3974.60	52.08	53.06	0.98	3922.37
MW - 3	03/19/09	3974.60	52.03	53.19	1.16	3922.40
MW - 3	03/24/09	3974.60	51.99	52.92	0.93	3922.47
MW - 3	04/03/09	3974.60	51.58	52.70	1.12	3922.85
MW - 3	04/15/09	3974.60	52.01	53.10	1.09	3922.43
MW - 3	04/17/09	3974.60	52.07	53.04	0.97	3922.38
MW - 3	04/22/09	3974.60	51.97	53.06	1.09	3922.47
MW - 3	04/29/09	3974.60	52.06	53.14	1.08	3922.38
MW - 3	05/20/09	3974.60	52.00	53.09	1.09	3922.44
MW - 3	05/20/09	3974.60	52.00	53.09	1.09	3922.44
MW - 3	06/09/09	3974.60	51.99	53.14	1.15	3922.44
MW - 3	06/17/09	3974.60	52.00	53.12	1.12	3922.43
MW - 3	06/23/09	3974.60	51.95	53.08	1.13	3922.48
MW - 3	07/01/09	3974.60	52.00	53.16	1.16	3922.43
MW - 3	07/08/09	3974.60	52.02	53.14	1.12	3922.41
MW - 3	07/15/09	3974.60	52.00	53.08	1.08	3922.44
MW - 3	07/17/09	3974.60	52.04	53.05	1.01	3922.41
MW - 3	07/23/09	3974.60	52.02	53.12	1.10	3922.42
MW - 3	07/24/09	3974.60	52.05	52.87	0.82	3922.43
MW - 3	07/30/09	3974.60	52.08	53.19	1.11	3922.35

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 3	08/04/09	3974.60	52.00	53.02	1.02	3922.45
MW - 3	08/12/09	3974.60	52.02	53.08	1.06	3922.42
MW - 3	08/20/09	3974.60	52.00	53.08	1.08	3922.44
MW - 3	08/26/09	3974.60	51.98	52.73	0.75	3922.51
MW - 3	09/02/09	3974.60	51.99	53.11	1.12	3922.44
MW - 3	09/09/09	3974.60	52.02	53.11	1.09	3922.42
MW - 3	09/14/09	3974.60	52.01	53.06	1.05	3922.43
MW - 3	09/21/09	3974.60	52.01	53.10	1.09	3922.43
MW - 3	10/01/09	3974.60	52.02	53.09	1.07	3922.42
MW - 3	10/08/09	3974.60	52.02	53.12	1.10	3922.42
MW - 3	10/08/09	3974.60	52.02	53.12	1.10	3922.42
MW - 3	10/14/09	3974.60	52.02	53.09	1.07	3922.42
MW - 3	10/21/09	3974.60	52.02	53.15	1.13	3922.41
MW - 3	10/28/09	3974.60	52.97	53.09	0.12	3921.61
MW - 3	11/04/09	3974.60	51.99	53.02	1.03	3922.46
MW - 3	11/11/09	3974.60	51.99	53.00	1.01	3922.46
MW - 3	11/18/09	3974.60	52.03	53.10	1.07	3922.41
MW - 3	11/25/09	3974.60	51.99	53.09	1.10	3922.45
MW - 3	12/02/09	3974.60	52.02	53.09	1.07	3922.42
MW - 3	12/10/09	3974.60	52.00	53.03	1.03	3922.45
MW - 3	12/17/09	3974.60	52.06	53.05	0.99	3922.39
MW - 3	12/21/09	3974.60	52.02	52.72	0.70	3922.48
MW - 3	12/30/09	3974.60	52.11	52.99	0.88	3922.36
MW - 3	01/07/10	3974.60	52.06	52.72	0.66	3922.44
MW - 3	01/18/10	3974.60	52.08	52.64	0.56	3922.44
MW - 3	02/02/10	3974.60	52.02	52.93	0.91	3922.44
MW - 3	02/11/10	3974.60	51.97	52.91	0.94	3922.49
MW - 3	02/18/10	3974.60	51.98	51.99	0.01	3922.62
MW - 3	02/25/10	3974.60	52.04	53.00	0.96	3922.42
MW - 3	03/02/10	3974.60	52.05	52.95	0.90	3922.42
MW - 3	03/04/10	3974.60	52.00	52.83	0.83	3922.48
MW - 3	03/10/10	3974.60	51.98	52.93	0.95	3922.48
MW - 3	03/12/10	3974.60	52.07	52.84	0.77	3922.41
MW - 3	03/15/10	3974.60	52.03	52.77	0.74	3922.46
MW - 3	03/18/10	3974.60	52.06	52.77	0.71	3922.43
MW - 3	03/22/10	3974.60	52.10	52.80	0.70	3922.40
MW - 3	03/24/10	3974.60	52.12	52.73	0.61	3922.39
MW - 3	03/30/10	3974.60	52.08	52.74	0.66	3922.42
MW - 3	04/07/10	3974.60	52.10	52.74	0.64	3922.40
MW - 3	04/12/10	3974.60	52.00	52.72	0.72	3922.49
MW - 3	04/16/10	3974.60	52.39	54.08	1.69	3921.96
MW - 3	04/20/10	3974.60	52.34	53.61	1.27	3922.07
MW - 3	04/27/10	3974.60	52.42	53.74	1.32	3921.98

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 3	04/30/10	3974.60	52.32	53.31	0.99	3922.13
MW - 3	05/12/10	3974.60	52.36	53.78	1.42	3922.03
MW - 3	05/14/10	3974.60	52.33	53.33	1.00	3922.12
MW - 3	05/17/10	3974.60	52.52	53.74	1.22	3921.90
MW - 3	05/20/10	3974.60	52.37	53.78	1.41	3922.02
MW - 3	05/25/10	3974.60	52.26	53.13	0.87	3922.21
MW - 3	06/01/10	3974.60	52.25	53.14	0.89	3922.22
MW - 3	06/09/10	3974.60	52.27	53.11	0.84	3922.20
MW - 3	06/16/10	3974.60	52.28	52.96	0.68	3922.22
MW - 3	06/28/10	3974.60	52.32	53.37	1.05	3922.12
MW - 3	07/09/10	3974.60	52.29	52.94	0.65	3922.21
MW - 3	07/23/10	3974.60	51.99	52.67	0.68	3922.51
MW - 3	07/29/10	3974.60	51.99	52.68	0.69	3922.51
MW - 3	08/05/10	3974.60	51.98	52.70	0.72	3922.51
MW - 3	08/12/10	3974.60	51.98	52.73	0.75	3922.51
MW - 3	08/16/10	3974.60	51.98	52.73	0.75	3922.51
MW - 3	08/18/10	3974.60	51.98	52.75	0.77	3922.50
MW - 3	08/26/10	3974.60	52.11	53.04	0.93	3922.35
MW - 3	09/02/10	3974.60	52.19	53.40	1.21	3922.23
MW - 3	09/09/10	3974.60	51.96	52.71	0.75	3922.53
MW - 3	09/30/10	3974.60	52.04	52.58	0.54	3922.48
MW - 3	10/07/10	3974.60	52.04	52.65	0.61	3922.47
MW - 3	10/14/10	3974.60	52.30	53.90	1.60	3922.06
MW - 3	10/21/10	3974.60	52.28	53.89	1.61	3922.08
MW - 3	11/04/10	3974.60	52.18	53.24	1.06	3922.26
MW - 3	11/10/10	3974.60	52.29	53.87	1.58	3922.07
MW - 3	12/01/10	3974.60	51.96	52.81	0.85	3922.51
MW - 3	12/08/10	3974.60	52.09	53.16	1.07	3922.35
MW - 3	01/26/11	3974.60	52.00	52.75	0.75	3922.49
MW - 3	02/28/11	3974.60	52.27	53.87	1.60	3922.09
MW - 3	03/04/11	3974.60	52.08	52.88	0.80	3922.40
MW - 3	03/09/11	3974.60	52.07	53.57	1.50	3922.31
MW - 3	04/28/11	3974.60	52.11	53.12	1.01	3922.34
MW - 3	05/04/11	3974.60	52.09	52.12	0.03	3922.51
MW - 3	05/11/11	3974.60	52.14	53.11	0.97	3922.31
MW - 3	05/12/11	3974.60	52.10	53.06	0.96	3922.36
MW - 3	05/18/11	3974.60	52.13	53.18	1.05	3922.31
MW - 3	05/23/11	3974.60	52.07	53.02	0.95	3922.39
MW - 3	06/08/11	3974.60	52.11	53.19	1.08	3922.33
MW - 3	06/16/11	3974.60	52.09	53.05	0.96	3922.37
MW - 3	06/22/11	3974.60	52.11	53.10	0.99	3922.34
MW - 3	06/30/11	3974.60	52.05	53.52	1.47	3922.33
MW - 3	07/06/11	3974.60	51.98	53.15	1.17	3922.44



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 3	07/13/11	3974.60	52.08	53.25	1.17	3922.34
MW - 3	07/15/11	3974.60	52.10	53.50	1.40	3922.29
MW - 3	07/19/11	3974.60	52.15	53.08	0.93	3922.31
MW - 3	07/21/11	3974.60	52.02	53.04	1.02	3922.43
MW - 3	07/26/11	3974.60	52.15	53.05	0.90	3922.32
MW - 3	07/28/11	3974.60	52.12	53.06	0.94	3922.34
MW - 3	08/02/11	3974.60	52.25	53.76	1.51	3922.12
MW - 3	08/09/11	3974.60	52.20	53.68	1.48	3922.18
MW - 3	08/12/11	3974.60	52.13	53.38	1.25	3922.28
MW - 3	08/15/11	3974.60	52.13	53.38	1.25	3922.28
MW - 3	08/16/11	3974.60	52.12	53.80	1.68	3922.23
MW - 3	08/19/11	3974.60	52.13	53.71	1.58	3922.23
MW - 3	08/23/11	3974.60	52.16	53.30	1.14	3922.27
MW - 3	08/26/11	3974.60	52.21	53.25	1.04	3922.23
MW - 3	08/30/11	3974.60	52.02	52.69	0.67	3922.48
MW - 3	09/01/11	3974.60	52.05	52.42	0.37	3922.49
MW - 3	09/08/11	3974.60	52.14	53.89	1.75	3922.20
MW - 3	09/13/11	3974.60	52.10	53.49	1.39	3922.29
MW - 3	09/15/11	3974.60	52.22	52.28	0.06	3922.37
MW - 3	09/22/11	3974.60	52.03	52.75	0.72	3922.46
MW - 3	10/06/11	3974.60	52.04	52.92	0.88	3922.43
MW - 3	10/11/11	3974.60	52.17	53.19	1.02	3922.28
MW - 3	10/13/11	3974.60	52.19	53.91	1.72	3922.15
MW - 3	10/26/11	3974.60	51.13	53.36	2.23	3923.14
MW - 3	11/22/11	3974.60	52.17	53.24	1.07	3922.27
MW - 3	12/02/11	3974.60	52.01	52.94	0.93	3922.45
MW - 3	12/29/11	3974.60	51.99	52.86	0.87	3922.48
MW - 3	01/26/12	3974.60	52.04	53.28	1.24	3922.37
MW - 3	01/31/12	3974.60	52.08	53.40	1.32	3922.32
MW - 3	02/15/12	3974.60	52.01	52.83	0.82	3922.47
MW - 3	02/28/12	3974.60	52.04	53.24	1.20	3922.38
MW - 3	03/20/12	3974.60	52.07	53.42	1.35	3922.33
MW - 3	03/27/12	3974.60	52.57	53.37	0.80	3921.91
MW - 3	04/10/12	3974.60	52.13	53.36	1.23	3922.29
MW - 3	04/19/12	3974.60	52.09	53.43	1.34	3922.31
MW - 3	04/26/12	3974.60	52.00	52.75	0.75	3922.49
MW - 3	05/08/12	3974.60	52.01	52.76	0.75	3922.48
MW - 3	05/15/12	3974.60	51.98	53.01	1.03	3922.47
MW - 3	05/17/12	3974.60	51.96	53.02	1.06	3922.48
MW - 3	06/05/12	3974.60	52.03	53.40	1.37	3922.36
MW - 3	06/21/12	3974.60	52.02	53.51	1.49	3922.36
MW - 3	06/28/12	3974.60	52.02	53.57	1.55	3922.35
MW - 3	07/17/12	3974.60	52.00	53.23	1.23	3922.42

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 3	08/01/12	3974.60	52.08	53.13	1.05	3922.36
MW - 3	10/02/12	3974.60	52.08	53.48	1.40	3922.31
MW - 3	10/09/12	3974.60	52.04	53.89	1.85	3922.28
MW - 3	10/16/12	3974.60	52.10	53.32	1.22	3922.32
MW - 3	10/25/12	3974.60	52.09	53.50	1.41	3922.30
MW - 3	10/30/12	3974.60	52.08	53.51	1.43	3922.31
MW - 3	11/29/12	3974.60	52.05	54.10	2.05	3922.24
MW - 3	12/14/12	3974.60	52.10	53.63	1.53	3922.27
MW - 3	02/11/13	3974.60	52.12	53.29	1.17	3922.30
MW - 3	03/18/13	3974.60	52.29	52.48	0.19	3922.28
MW - 3	04/11/13	3974.60	52.58	52.65	0.07	3922.01
MW - 3	05/06/13	3974.60	52.17	53.08	0.91	3922.29
MW - 3	05/29/13	3974.60	52.55	52.69	0.14	3922.03
MW - 3	06/26/13	3974.60	52.63	52.68	0.05	3921.96
MW - 3	07/31/13	3974.60	52.46	52.49	0.03	3922.14
MW - 3	08/06/13	3974.60	52.46	52.48	0.02	3922.14
MW - 3	09/30/13	3974.60	52.50	52.60	0.10	3922.09
MW - 3	11/18/13	3974.60	52.32	53.19	0.87	3922.15
MW - 3	02/04/14	3974.60	52.36	53.10	0.74	3922.13
MW - 3	04/28/14	3974.60	52.34	53.06	0.72	3922.15
MW - 3	05/28/14	3974.60	52.53	52.85	0.32	3922.02
MW - 3	07/30/14	3974.60	53.79	53.80	0.01	3920.81
MW - 3	08/23/14	3974.60	53.27	53.80	0.53	3921.25
MW - 3	09/10/14	3974.60	52.51	53.42	0.91	3921.95
MW - 3	09/23/14	3974.60	52.38	53.97	1.59	3921.98
MW - 3	10/31/14	3974.60	52.49	52.91	0.42	3922.05
MW - 3	11/18/14	3974.60	52.45	53.30	0.85	3922.02
MW - 3	01/05/15	3974.60	52.71	53.09	0.38	3921.83
MW - 3	01/09/15	3974.60	52.34	53.57	1.23	3922.08
MW - 3	01/14/15	3974.60	52.33	53.66	1.33	3922.07
MW - 3	01/21/15	3974.60	52.72	53.07	0.35	3921.83
MW - 3	02/19/15	3974.60	52.74	52.82	0.08	3921.85
MW - 3	03/09/15	3974.60	52.74	53.09	0.35	3921.81
MW - 3	03/11/15	3974.60	52.81	53.19	0.38	3921.73
MW - 3	03/31/15	3974.60	52.74	53.09	0.35	3921.81
MW - 3	04/09/15	3974.60	52.44	52.92	0.48	3922.09
MW - 3	04/15/15	3974.60	52.33	52.37	0.04	3922.26
MW - 3	04/22/15	3974.60	52.33	53.50	1.17	3922.09
MW - 3	05/12/15	3974.60	52.30	53.62	1.32	3922.10
MW - 3	05/26/15	3974.60	52.71	53.04	0.33	3921.84
MW - 3	06/01/15	3974.60	52.34	53.41	1.07	3922.10
MW - 3	06/04/15	3974.60	52.29	53.67	1.38	3922.10
MW - 3	07/27/15	3974.60	52.71	52.73	0.02	3921.89

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 3	08/18/15	3974.60	52.45	52.85	0.40	3922.09
MW - 3	10/08/15	3974.60	52.74	53.21	0.47	3921.79
MW - 3	10/21/15	3974.60	52.49	53.15	0.66	3922.01
MW - 3	11/23/15	3974.60	53.31	54.94	1.63	3921.05
MW - 3	01/12/16	3974.60	52.51	53.35	0.84	3921.96
MW - 3	02/11/16	3974.60	52.47	53.04	0.57	3922.04
MW - 3	02/24/16	3974.60	52.49	53.07	0.58	3922.02
MW - 3	06/13/16	3974.60	52.47	53.13	0.66	3922.03
MW - 3	08/02/16	3974.60	52.52	53.56	1.04	3921.92
MW - 3	11/28/16	3974.60	52.45	53.40	0.95	3922.01
MW - 3	02/21/17	3974.60	52.48	53.31	0.83	3922.00
MW - 3	05/24/17	3974.60	52.50	53.09	0.59	3922.01
MW - 3	07/12/17	3974.60	52.50	53.09	0.59	3922.01
MW - 3	08/11/17	3974.60	52.54	53.11	0.57	3921.97
MW - 3	10/18/17	3974.60	52.67	53.54	0.87	3921.80
MW - 3	11/28/17	3974.60	52.55	53.56	1.01	3921.90
MW - 3	12/19/17	3974.60	52.53	53.66	1.13	3921.90
MW - 3	01/16/18	3974.60	52.45	54.08	1.63	3921.91
MW - 3	02/26/18	3974.60	52.60	53.20	0.60	3921.91
MW - 3	04/03/18	3974.60	52.59	53.24	0.65	3921.91
MW - 3	04/17/18	3974.60	52.52	53.49	0.97	3921.93
MW - 3	05/07/18	3974.60	52.76	52.94	0.18	3921.81
MW - 3	06/26/18	3974.60	52.60	53.61	1.01	3921.85
MW - 3	07/12/18	3974.60	52.48	54.28	1.80	3921.85
MW - 3	08/01/18	3974.60	52.60	54.50	1.90	3921.72
MW - 3	08/09/18	3974.60	52.45	54.32	1.87	3921.87
MW - 3	08/23/18	3974.60	52.47	54.49	2.02	3921.83
MW - 3	08/30/18	3974.60	52.69	53.49	0.80	3921.79
MW - 3	08/31/18	3974.60	52.49	54.38	1.89	3921.83
MW - 3	09/11/18	3974.60	52.53	54.13	1.60	3921.83
MW - 3	09/13/18	3974.60	52.55	53.71	1.16	3921.88
MW - 3	09/19/18	3974.60	52.54	54.19	1.65	3921.81
MW - 3	09/26/18	3974.60	52.31	53.37	1.06	3922.13
MW - 3	10/04/18	3974.60	52.50	53.68	1.18	3921.92
MW - 3	11/14/18	3974.60	52.65	52.88	0.23	3921.92
MW - 3	12/18/18	3974.60	52.64	53.81	1.17	3921.78
MW - 3	02/18/19	3974.60	52.64	53.59	0.95	3921.82
MW - 3	05/14/19	3974.60	52.54	53.94	1.40	3921.85
MW - 3	08/19/19	3974.60	52.85	53.77	0.92	3921.61
MW - 3	11/11/19	3974.60	52.90	53.81	0.91	3921.56
MW - 3	01/08/20	3974.60	52.74	54.16	1.42	3921.65
MW - 3	02/18/20	3974.60	52.73	53.96	1.23	3921.69
MW - 3	05/05/20	3974.60	52.71	54.24	1.53	3921.66

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 3	06/11/20	3974.60	52.73	54.43	1.70	3921.62
MW - 3	09/23/20	3974.60	52.75	54.82	2.07	3921.54
MW - 3	12/04/20	3974.60	52.77	54.84	2.07	3921.52
MW - 3	03/23/21	3974.60	52.86	54.61	1.75	3921.48
MW - 3	06/04/21	3974.60	52.65	55.64	2.99	3921.50
MW - 3	09/30/21	3974.60	52.74	56.12	3.38	3921.35
MW - 3	12/09/21	3974.60	52.49	54.72	2.23	3921.78
MW - 3	02/17/22	3974.60	52.80	55.78	2.98	3921.35
MW - 3	05/18/22	3974.60	52.82	56.19	3.37	3921.27
MW - 3	08/09/22	3974.60	52.82	56.52	3.70	3921.23
MW - 3	11/14/22	3974.60	53.10	55.58	2.48	3921.13
MW - 3	01/06/23	3974.60	52.93	56.43	3.50	3921.15
MW - 3	02/14/23	3974.60	52.95	56.32	3.37	3921.14
MW - 3	05/16/23	3974.60	53.53	55.05	1.52	3920.84
MW - 3	08/08/23	3974.60	53.29	55.26	1.97	3921.01
MW - 3	12/07/23	3974.60	53.32	55.38	2.06	3920.97
MW - 4	03/02/00	3974.53	52.58	54.30	1.72	3921.69
MW - 4	04/25/00	3974.53	52.59	54.38	1.79	3921.67
MW - 4	09/06/00	3974.53	52.44	55.11	2.67	3921.69
MW - 4	11/28/00	3974.53	52.48	55.25	2.77	3921.63
MW - 4	02/21/01	3974.53	52.38	55.15	2.77	3921.73
MW - 4	05/31/01	3974.53	52.43	55.22	2.79	3921.68
MW - 4	08/23/01	3974.53	52.38	55.24	2.86	3921.72
MW - 4	11/21/01	3974.53	52.37	55.15	2.78	3921.74
MW - 4	02/13/02	3974.53	52.42	55.21	2.79	3921.69
MW - 4	06/12/02	3974.53	52.31	55.44	3.13	3921.75
MW - 4	08/26/02	3974.53	52.33	55.50	3.17	3921.72
MW - 4	11/08/02	3974.53	52.94	53.18	0.24	3921.55
MW - 4	11/21/02	3974.53	52.61	54.63	2.02	3921.62
MW - 4	12/27/02	3974.53	52.53	54.86	2.33	3921.65
MW - 4	01/06/03	3974.53	52.74	53.93	1.19	3921.61
MW - 4	01/08/03	3974.53	52.77	53.81	1.04	3921.60
MW - 4	01/10/03	3974.53	52.86	53.31	0.45	3921.60
MW - 4	01/13/03	3974.53	52.87	53.26	0.39	3921.60
MW - 4	02/05/03	3974.53	52.91	52.99	0.08	3921.61
MW - 4	02/26/03	3974.53	52.72	53.86	1.14	3921.64
MW - 4	03/04/03	3974.53	52.70	53.86	1.16	3921.66
MW - 4	03/12/03	3974.53	52.78	53.69	0.91	3921.61
MW - 4	03/18/03	3974.53	52.91	53.30	0.39	3921.56
MW - 4	03/25/03	3974.53	52.85	53.32	0.47	3921.61
MW - 4	03/31/03	3974.53	52.82	53.41	0.59	3921.62
MW - 4	04/09/03	3974.53	52.81	53.33	0.52	3921.64

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	04/14/03	3974.53	52.79	53.48	0.69	3921.64
MW - 4	05/07/03	3974.53	52.50	54.57	2.07	3921.72
MW - 4	05/08/03	3974.53	52.58	54.67	2.09	3921.64
MW - 4	05/13/03	3974.53	52.57	54.66	2.09	3921.65
MW - 4	05/21/03	3974.53	52.58	54.71	2.13	3921.63
MW - 4	05/27/03	3974.53	52.73	53.62	0.89	3921.67
MW - 4	05/28/03	3974.53	52.82	53.65	0.83	3921.59
MW - 4	06/03/03	3974.53	52.68	54.35	1.67	3921.60
MW - 4	06/10/03	3974.53	52.82	53.60	0.78	3921.59
MW - 4	07/01/03	3974.53	52.91	53.66	0.75	3921.51
MW - 4	07/08/03	3974.53	52.77	54.30	1.53	3921.53
MW - 4	07/29/03	3974.53	52.57	54.38	1.81	3921.69
MW - 4	08/04/03	3974.53	52.85	54.17	1.32	3921.48
MW - 4	08/18/03	3974.53	52.84	53.39	0.55	3921.61
MW - 4	08/25/03	3974.53	52.85	54.86	2.01	3921.38
MW - 4	10/06/03	3974.53	52.91	53.17	0.26	3921.58
MW - 4	10/08/03	3974.53	53.12	53.98	0.86	3921.28
MW - 4	10/15/03	3974.53	53.14	53.88	0.74	3921.28
MW - 4	11/12/03	3974.53	53.14	54.94	1.80	3921.12
MW - 4	11/19/03	3974.53	53.10	54.58	1.48	3921.21
MW - 4	12/01/03	3974.53	53.29	53.70	0.41	3921.18
MW - 4	12/10/03	3974.53	52.96	53.50	0.54	3921.49
MW - 4	02/05/04	3974.53	53.32	53.78	0.46	3921.14
MW - 4	02/17/04	3974.53	53.87	54.28	0.41	3920.60
MW - 4	02/25/04	3974.53	53.28	53.80	0.52	3921.17
MW - 4	03/09/04	3974.53	52.84	54.59	1.75	3921.43
MW - 4	03/16/04	3974.53	52.85	54.56	1.71	3921.42
MW - 4	03/22/04	3974.53	52.84	53.14	0.30	3921.65
MW - 4	04/07/04	3974.53	52.90	53.37	0.47	3921.56
MW - 4	04/12/04	3974.53	52.83	54.74	1.91	3921.41
MW - 4	04/19/04	3974.53	52.87	52.99	0.12	3921.64
MW - 4	05/05/04	3974.53	52.82	54.83	2.01	3921.41
MW - 4	05/11/04	3974.53	53.00	54.74	1.74	3921.27
MW - 4	06/07/04	3974.53	52.58	54.57	1.99	3921.65
MW - 4	06/15/04	3974.53	52.60	54.49	1.89	3921.65
MW - 4	06/20/04	3974.53	52.60	54.49	1.89	3921.65
MW - 4	06/21/04	3974.53	52.56	54.55	1.99	3921.67
MW - 4	06/28/04	3974.53	52.57	54.51	1.94	3921.67
MW - 4	07/08/04	3974.53	52.55	54.53	1.98	3921.68
MW - 4	07/12/04	3974.53	52.54	54.52	1.98	3921.69
MW - 4	08/06/04	3974.53	52.58	54.51	1.93	3921.66
MW - 4	08/12/04	3974.53	52.60	54.59	1.99	3921.63
MW - 4	08/17/04	3974.53	52.64	54.72	2.08	3921.58

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	08/26/04	3974.53	52.60	54.79	2.19	3921.60
MW - 4	09/01/04	3974.53	52.67	54.40	1.73	3921.60
MW - 4	09/03/04	3974.53	52.67	54.45	1.78	3921.59
MW - 4	09/08/04	3974.53	52.66	54.63	1.97	3921.57
MW - 4	09/14/04	3974.53	52.69	54.46	1.77	3921.57
MW - 4	09/22/04	3974.53	52.81	54.39	1.58	3921.48
MW - 4	10/01/04	3974.53	52.67	54.62	1.95	3921.57
MW - 4	10/08/04	3974.53	52.69	54.44	1.75	3921.58
MW - 4	10/15/04	3974.53	52.60	54.30	1.70	3921.68
MW - 4	10/22/04	3974.53	52.62	54.56	1.94	3921.62
MW - 4	11/12/04	3974.53	52.68	53.69	1.01	3921.70
MW - 4	11/26/04	3974.53	52.65	54.55	1.90	3921.60
MW - 4	12/02/04	3974.53	52.70	54.50	1.80	3921.56
MW - 4	12/06/04	3974.53	52.77	54.21	1.44	3921.54
MW - 4	12/13/04	3974.53	52.72	54.40	1.68	3921.56
MW - 4	12/15/04	3974.53	52.72	54.40	1.68	3921.56
MW - 4	12/27/04	3974.53	52.65	54.47	1.82	3921.61
MW - 4	01/10/05	3974.53	52.14	54.40	2.26	3922.05
MW - 4	01/18/05	3974.53	52.59	54.15	1.56	3921.71
MW - 4	01/18/05	3974.53	52.68	53.51	0.83	3921.73
MW - 4	01/25/05	3974.53	52.54	54.10	1.56	3921.76
MW - 4	01/27/05	3974.53	52.55	53.90	1.35	3921.78
MW - 4	02/01/05	3974.53	52.56	53.93	1.37	3921.76
MW - 4	02/07/05	3974.53	52.50	54.01	1.51	3921.80
MW - 4	02/11/05	3974.53	52.50	53.98	1.48	3921.81
MW - 4	02/15/05	3974.53	52.53	53.96	1.43	3921.79
MW - 4	02/22/05	3974.53	52.47	54.10	1.63	3921.82
MW - 4	02/24/05	3974.53	52.50	54.15	1.65	3921.78
MW - 4	03/03/05	3974.53	52.46	54.13	1.67	3921.82
MW - 4	03/09/05	3974.53	52.46	54.92	2.46	3921.70
MW - 4	03/22/05	3974.53	52.45	54.05	1.60	3921.84
MW - 4	03/24/05	3974.53	52.45	54.05	1.60	3921.84
MW - 4	03/31/05	3974.53	52.47	54.03	1.56	3921.83
MW - 4	06/22/05	3974.53	52.36	54.10	1.74	3921.91
MW - 4	07/21/05	3974.53	52.89	53.64	0.75	3921.53
MW - 4	08/03/05	3974.53	52.33	52.80	0.47	3922.13
MW - 4	08/12/05	3974.53	52.32	53.40	1.08	3922.05
MW - 4	08/15/05	3974.53	52.35	53.60	1.25	3921.99
MW - 4	08/22/05	3974.53	52.34	53.66	1.32	3921.99
MW - 4	08/30/05	3974.53	52.32	53.70	1.38	3922.00
MW - 4	09/07/05	3974.53	52.32	53.92	1.60	3921.97
MW - 4	09/14/05	3974.53	52.30	53.68	1.38	3922.02
MW - 4	09/20/05	3974.53	52.33	53.59	1.26	3922.01

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	09/21/05	3974.53	52.33	53.69	1.36	3922.00
MW - 4	09/28/05	3974.53	52.30	53.70	1.40	3922.02
MW - 4	10/06/05	3974.53	52.27	53.85	1.58	3922.02
MW - 4	10/13/05	3974.53	52.28	53.81	1.53	3922.02
MW - 4	10/20/05	3974.53	52.30	53.75	1.45	3922.01
MW - 4	10/26/05	3974.53	52.28	53.75	1.47	3922.03
MW - 4	11/03/05	3974.53	52.25	53.75	1.50	3922.06
MW - 4	11/10/05	3974.53	52.24	53.75	1.51	3922.06
MW - 4	11/16/05	3974.53	52.27	53.72	1.45	3922.04
MW - 4	11/23/05	3974.53	52.30	53.68	1.38	3922.02
MW - 4	11/28/05	3974.53	52.23	53.75	1.52	3922.07
MW - 4	12/05/05	3974.53	52.28	53.65	1.37	3922.04
MW - 4	12/12/05	3974.53	52.27	53.68	1.41	3922.05
MW - 4	12/16/05	3974.53	52.40	53.04	0.64	3922.03
MW - 4	12/19/05	3974.53	52.30	53.60	1.30	3922.04
MW - 4	12/29/05	3974.53	52.25	53.71	1.46	3922.06
MW - 4	01/04/06	3974.53	52.38	53.70	1.32	3921.95
MW - 4	01/10/06	3974.53	52.25	53.70	1.45	3922.06
MW - 4	01/17/06	3974.53	52.26	53.65	1.39	3922.06
MW - 4	01/26/06	3974.53	52.23	53.63	1.40	3922.09
MW - 4	01/31/06	3974.53	52.25	53.60	1.35	3922.08
MW - 4	02/07/06	3974.53	52.25	53.56	1.31	3922.08
MW - 4	02/09/06	3974.53	52.27	53.65	1.38	3922.05
MW - 4	02/13/06	3974.53	52.29	53.55	1.26	3922.05
MW - 4	02/22/06	3974.53	52.25	53.71	1.46	3922.06
MW - 4	02/28/06	3974.53	52.29	53.68	1.39	3922.03
MW - 4	03/07/06	3974.53	52.30	53.63	1.33	3922.03
MW - 4	03/15/06	3974.53	52.23	53.55	1.32	3922.10
MW - 4	03/20/06	3974.53	52.22	53.46	1.24	3922.12
MW - 4	03/22/06	3974.53	52.52	52.54	0.02	3922.01
MW - 4	03/29/06	3974.53	52.25	53.32	1.07	3922.12
MW - 4	04/11/06	3974.53	52.22	53.39	1.17	3922.13
MW - 4	04/18/06	3974.53	52.22	53.40	1.18	3922.13
MW - 4	04/25/06	3974.53	52.29	53.14	0.85	3922.11
MW - 4	05/02/06	3974.53	52.22	53.34	1.12	3922.14
MW - 4	05/09/06	3974.53	52.21	53.30	1.09	3922.16
MW - 4	05/16/06	3974.53	52.23	52.31	0.08	3922.29
MW - 4	05/23/06	3974.53	52.23	53.29	1.06	3922.14
MW - 4	05/31/06	3974.53	52.20	53.36	1.16	3922.16
MW - 4	06/06/06	3974.53	52.22	53.26	1.04	3922.15
MW - 4	06/13/06	3974.53	52.23	53.29	1.06	3922.14
MW - 4	06/20/06	3974.53	52.20	53.28	1.08	3922.17
MW - 4	06/21/06	3974.53	52.30	52.90	0.60	3922.14

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	07/06/06	3974.53	52.21	53.30	1.09	3922.16
MW - 4	07/12/06	3974.53	52.23	53.17	0.94	3922.16
MW - 4	07/20/06	3974.53	52.23	53.12	0.89	3922.17
MW - 4	07/25/06	3974.53	52.25	53.11	0.86	3922.15
MW - 4	08/01/06	3974.53	52.24	53.15	0.91	3922.15
MW - 4	08/16/06	3974.53	52.33	52.81	0.48	3922.13
MW - 4	08/23/06	3974.53	52.27	53.00	0.73	3922.15
MW - 4	08/28/06	3974.53	52.27	53.00	0.73	3922.15
MW - 4	09/12/06	3974.53	52.25	53.06	0.81	3922.16
MW - 4	09/22/06	3974.53	52.25	53.15	0.90	3922.15
MW - 4	09/27/06	3974.53	52.27	53.04	0.77	3922.14
MW - 4	10/06/06	3974.53	52.21	53.24	1.03	3922.17
MW - 4	10/10/06	3974.53	52.24	53.16	0.92	3922.15
MW - 4	10/16/06	3974.53	52.23	53.30	1.07	3922.14
MW - 4	10/26/06	3974.53	52.21	53.20	0.99	3922.17
MW - 4	11/03/06	3974.53	52.22	53.18	0.96	3922.17
MW - 4	11/09/06	3974.53	52.20	53.15	0.95	3922.19
MW - 4	11/16/06	3974.53	52.22	53.18	0.96	3922.17
MW - 4	11/22/06	3974.53	52.22	53.11	0.89	3922.18
MW - 4	12/04/06	3974.53	52.21	53.12	0.91	3922.18
MW - 4	12/08/06	3974.53	52.21	53.17	0.96	3922.18
MW - 4	12/15/06	3974.53	52.19	53.12	0.93	3922.20
MW - 4	01/05/07	3974.53	52.18	53.18	1.00	3922.20
MW - 4	01/12/07	3974.53	52.20	53.13	0.93	3922.19
MW - 4	01/18/07	3974.53	52.20	53.14	0.94	3922.19
MW - 4	01/24/07	3974.53	52.20	53.10	0.90	3922.20
MW - 4	01/29/07	3974.53	52.18	53.06	0.88	3922.22
MW - 4	02/09/07	3974.53	52.16	53.04	0.88	3922.24
MW - 4	02/16/07	3974.53	52.20	53.07	0.87	3922.20
MW - 4	02/23/07	3974.53	52.15	53.03	0.88	3922.25
MW - 4	03/02/07	3974.53	52.20	53.10	0.90	3922.20
MW - 4	03/14/07	3974.53	52.19	52.80	0.61	3922.25
MW - 4	03/26/07	3974.53	52.17	52.94	0.77	3922.24
MW - 4	04/03/07	3974.53	52.14	52.98	0.84	3922.26
MW - 4	04/09/07	3974.53	52.16	52.95	0.79	3922.25
MW - 4	04/26/07	3974.53	52.16	52.96	0.80	3922.25
MW - 4	04/30/07	3974.53	52.12	52.94	0.82	3922.29
MW - 4	05/11/07	3974.53	52.15	52.94	0.79	3922.26
MW - 4	05/16/07	3974.53	52.17	52.88	0.71	3922.25
MW - 4	05/22/07	3974.53	52.15	52.87	0.72	3922.27
MW - 4	05/29/07	3974.53	52.14	52.90	0.76	3922.28
MW - 4	06/01/07	3974.53	52.15	52.90	0.75	3922.27
MW - 4	06/08/07	3974.53	52.15	52.90	0.75	3922.27



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	06/11/07	3974.53	52.18	52.81	0.63	3922.26
MW - 4	06/20/07	3974.53	52.15	52.90	0.75	3922.27
MW - 4	07/10/07	3974.53	52.13	52.85	0.72	3922.29
MW - 4	07/20/07	3974.53	52.14	52.83	0.69	3922.29
MW - 4	07/25/07	3974.53	52.14	52.78	0.64	3922.29
MW - 4	08/01/07	3974.53	52.12	52.81	0.69	3922.31
MW - 4	08/10/07	3974.53	52.14	52.81	0.67	3922.29
MW - 4	08/15/07	3974.53	52.13	52.76	0.63	3922.31
MW - 4	08/30/07	3974.53	52.13	52.80	0.67	3922.30
MW - 4	08/31/07	3974.53	52.13	52.80	0.67	3922.30
MW - 4	09/10/07	3974.53	52.13	52.77	0.64	3922.30
MW - 4	09/19/07	3974.53	52.12	52.76	0.64	3922.31
MW - 4	09/27/07	3974.53	52.12	52.72	0.60	3922.32
MW - 4	10/01/07	3974.53	52.12	52.67	0.55	3922.33
MW - 4	10/19/07	3974.53	52.10	52.75	0.65	3922.33
MW - 4	10/26/07	3974.53	52.12	52.68	0.56	3922.33
MW - 4	11/12/07	3974.53	52.14	52.46	0.32	3922.34
MW - 4	11/16/07	3974.53	52.16	52.47	0.31	3922.32
MW - 4	11/29/07	3974.53	59.18	59.88	0.70	3915.25
MW - 4	12/13/07	3974.53	52.10	52.63	0.53	3922.35
MW - 4	01/10/08	3974.53	52.05	52.60	0.55	3922.40
MW - 4	01/17/08	3974.53	52.09	52.60	0.51	3922.36
MW - 4	01/22/08	3974.53	52.08	52.58	0.50	3922.38
MW - 4	2/6/08 #1	3974.53	52.09	52.55	0.46	3922.37
MW - 4	02/06/08 #2	3974.53	52.15	52.25	0.10	3922.37
MW - 4	2/12/08 #1	3974.53	52.09	52.56	0.47	3922.37
MW - 4	2/12/08 #2	3974.53	52.16	52.24	0.08	3922.36
MW - 4	2/20/08 #1	3974.53	52.07	52.25	0.18	3922.43
MW - 4	2/20/08 #2	3974.53	52.14	52.25	0.11	3922.37
MW - 4	2/27/08 #1	3974.53	52.08	52.51	0.43	3922.39
MW - 4	2/27/08 #2	3974.53	52.12	52.25	0.13	3922.39
MW - 4	03/07/08	3974.53	52.05	52.48	0.43	3922.42
MW - 4	3/12/2008 #1	3974.53	52.05	52.48	0.43	3922.42
MW - 4	3/12/08 #2	3974.53	52.11	52.21	0.10	3922.41
MW - 4	3/20/2008 #1	3974.53	52.06	52.47	0.41	3922.41
MW - 4	3/20/08 #2	3974.53	52.11	52.13	0.02	3922.42
MW - 4	3/23/08 #1	3974.53	52.06	52.47	0.41	3922.41
MW - 4	3/23/08 #2	3974.53	52.11	52.22	0.11	3922.40
MW - 4	4/2/08 #1	3974.53	52.07	52.45	0.38	3922.40
MW - 4	4/2/08 #2	3974.53	52.09	52.26	0.17	3922.41
MW - 4	4/9/08 #1	3974.53	52.05	52.45	0.40	3922.42
MW - 4	4/9/08 #2	3974.53	52.09	52.26	0.17	3922.41
MW - 4	04/16/08	3974.53	52.06	52.42	0.36	3922.42

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	04/23/08	3974.53	52.05	52.45	0.40	3922.42
MW - 4	04/30/08	3974.53	52.05	52.41	0.36	3922.43
MW - 4	05/29/08	3974.53	52.05	52.38	0.33	3922.43
MW - 4	06/02/08	3974.53	52.03	52.35	0.32	3922.45
MW - 4	06/03/08	3974.53	52.03	52.35	0.32	3922.45
MW - 4	06/11/08	3974.53	52.03	52.38	0.35	3922.45
MW - 4	06/18/08	3974.53	52.04	52.38	0.34	3922.44
MW - 4	06/23/08	3974.53	52.03	52.36	0.33	3922.45
MW - 4	07/01/08	3974.53	52.05	52.38	0.33	3922.43
MW - 4	07/09/08	3974.53	52.05	52.39	0.34	3922.43
MW - 4	07/15/08	3974.53	52.03	52.37	0.34	3922.45
MW - 4	07/22/08	3974.53	52.03	52.35	0.32	3922.45
MW - 4	08/02/08	3974.53	52.02	52.38	0.36	3922.46
MW - 4	08/13/08	3974.53	52.02	52.55	0.53	3922.43
MW - 4	09/03/08	3974.53	52.02	52.38	0.36	3922.46
MW - 4	09/11/08	3974.53	52.03	52.38	0.35	3922.45
MW - 4	09/19/08	3974.53	52.01	52.33	0.32	3922.47
MW - 4	09/26/08	3974.53	52.02	52.33	0.31	3922.46
MW - 4	10/10/08	3974.53	52.02	52.33	0.31	3922.46
MW - 4	10/17/08	3974.53	52.02	52.29	0.27	3922.47
MW - 4	10/21/08	3974.53	52.04	52.30	0.26	3922.45
MW - 4	10/30/08	3974.53	52.02	52.30	0.28	3922.47
MW - 4	11/04/08	3974.53	52.02	52.32	0.30	3922.47
MW - 4	11/18/08	3974.53	52.04	52.30	0.26	3922.45
MW - 4	11/25/08	3974.53	52.05	52.29	0.24	3922.44
MW - 4	12/10/08	3974.53	52.03	52.32	0.29	3922.46
MW - 4	12/18/08	3974.53	52.03	52.30	0.27	3922.46
MW - 4	01/06/09	3974.53	52.03	52.35	0.32	3922.45
MW - 4	01/14/09	3974.53	52.09	52.29	0.20	3922.41
MW - 4	01/21/09	3974.53	52.08	52.25	0.17	3922.42
MW - 4	01/22/09	3974.53	52.03	53.33	1.30	3922.31
MW - 4	01/30/09	3974.53	52.01	52.25	0.24	3922.48
MW - 4	02/03/09	3974.53	52.00	52.25	0.25	3922.49
MW - 4	02/12/09	3974.53	51.99	52.30	0.31	3922.49
MW - 4	02/19/09	3974.53	52.00	52.29	0.29	3922.49
MW - 4	03/04/09	3974.53	52.07	52.33	0.26	3922.42
MW - 4	03/06/09	3974.53	52.01	52.28	0.27	3922.48
MW - 4	03/11/09	3974.53	52.02	52.28	0.26	3922.47
MW - 4	03/16/09	3974.53	52.11	52.35	0.24	3922.38
MW - 4	03/19/09	3974.53	52.01	52.26	0.25	3922.48
MW - 4	03/24/09	3974.53	51.98	52.05	0.07	3922.54
MW - 4	04/03/09	3974.53	51.99	52.20	0.21	3922.51
MW - 4	04/15/09	3974.53	52.02	52.12	0.10	3922.50

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	04/17/09	3974.53	52.03	52.11	0.08	3922.49
MW - 4	04/21/09	3974.53	51.96	52.19	0.23	3922.54
MW - 4	04/29/09	3974.53	52.01	52.12	0.11	3922.50
MW - 4	05/20/09	3974.53	51.99	52.11	0.12	3922.52
MW - 4	05/20/09	3974.53	51.99	52.11	0.12	3922.52
MW - 4	06/09/09	3974.53	51.98	52.11	0.13	3922.53
MW - 4	06/17/09	3974.53	51.98	52.12	0.14	3922.53
MW - 4	06/23/09	3974.53	51.95	52.17	0.22	3922.55
MW - 4	07/01/09	3974.53	51.98	52.11	0.13	3922.53
MW - 4	07/08/09	3974.53	sheen	52.12	0.00	3922.41
MW - 4	07/15/09	3974.53	sheen	52.02	0.00	3922.51
MW - 4	07/17/09	3974.53	sheen	52.05	0.00	3922.48
MW - 4	07/23/09	3974.53	52.00	52.11	0.11	3922.51
MW - 4	07/24/09	3974.53	52.00	52.10	0.10	3922.52
MW - 4	07/30/09	3974.53	52.00	52.14	0.14	3922.51
MW - 4	08/04/09	3974.53	51.98	52.10	0.12	3922.53
MW - 4	08/12/09	3974.53	51.98	52.12	0.14	3922.53
MW - 4	08/20/09	3974.53	51.99	52.10	0.11	3922.52
MW - 4	08/26/09	3974.53	sheen	52.13	0.00	3922.40
MW - 4	09/02/09	3974.53	sheen	52.01	0.00	3922.52
MW - 4	09/09/09	3974.53	sheen	52.02	0.00	3922.51
MW - 4	09/14/09	3974.53	sheen	52.02	0.00	3922.51
MW - 4	09/21/09	3974.53	sheen	52.03	0.00	3922.50
MW - 4	10/01/09	3974.53	sheen	52.04	0.00	3922.49
MW - 4	10/08/09	3974.53	sheen	52.04	0.00	3922.49
MW - 4	10/14/09	3974.53	sheen	52.03	0.00	3922.50
MW - 4	10/21/09	3974.53	sheen	52.05	0.00	3922.48
MW - 4	10/28/09	3974.53	sheen	52.02	0.00	3922.51
MW - 4	11/04/09	3974.53	sheen	52.01	0.00	3922.52
MW - 4	11/11/09	3974.53	sheen	52.00	0.00	3922.53
MW - 4	11/18/09	3974.53	sheen	52.00	0.00	3922.53
MW - 4	11/25/09	3974.53	sheen	52.01	0.00	3922.52
MW - 4	12/02/09	3974.53	sheen	52.02	0.00	3922.51
MW - 4	12/10/09	3974.53	sheen	52.02	0.00	3922.51
MW - 4	12/17/09	3974.53	sheen	52.06	0.00	3922.47
MW - 4	12/21/09	3974.53	sheen	51.99	0.00	3922.54
MW - 4	12/30/09	3974.53	sheen	52.09	0.00	3922.44
MW - 4	01/07/10	3974.53	sheen	52.00	0.00	3922.53
MW - 4	01/18/10	3974.53	sheen	52.02	0.00	3922.51
MW - 4	02/02/10	3974.53	sheen	52.02	0.00	3922.51
MW - 4	02/11/10	3974.53	sheen	52.01	0.00	3922.52
MW - 4	02/18/10	3974.53	sheen	51.99	0.00	3922.54
MW - 4	02/25/10	3974.53	sheen	52.02	0.00	3922.51

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	03/02/10	3974.53	sheen	52.09	0.00	3922.44
MW - 4	03/04/10	3974.53	sheen	51.92	0.00	3922.61
MW - 4	03/10/10	3974.53	sheen	51.99	0.00	3922.54
MW - 4	03/12/10	3974.53	sheen	52.05	0.00	3922.48
MW - 4	03/15/10	3974.53	sheen	51.99	0.00	3922.54
MW - 4	03/18/10	3974.53	sheen	52.00	0.00	3922.53
MW - 4	03/22/10	3974.53	-	52.05	0.00	3922.48
MW - 4	03/24/10	3974.53	-	52.08	0.00	3922.45
MW - 4	03/30/10	3974.53	sheen	52.04	0.00	3922.49
MW - 4	04/07/10	3974.53	sheen	52.07	0.00	3922.46
MW - 4	04/12/10	3974.53	sheen	51.98	0.00	3922.55
MW - 4	04/16/10	3974.53	sheen	52.29	0.00	3922.24
MW - 4	04/20/10	3974.53	-	52.18	0.00	3922.35
MW - 4	04/27/10	3974.53	sheen	52.24	0.00	3922.29
MW - 4	04/30/10	3974.53	-	52.17	0.00	3922.36
MW - 4	05/12/10	3974.53	sheen	52.23	0.00	3922.30
MW - 4	05/14/10	3974.53	-	52.18	0.00	3922.35
MW - 4	05/17/10	3974.53	-	52.37	0.00	3922.16
MW - 4	05/20/10	3974.53	sheen	52.25	0.00	3922.28
MW - 4	05/25/10	3974.53	sheen	52.10	0.00	3922.43
MW - 4	06/01/10	3974.53	sheen	52.09	0.00	3922.44
MW - 4	06/09/10	3974.53	sheen	52.07	0.00	3922.46
MW - 4	06/16/10	3974.53	sheen	52.05	0.00	3922.48
MW - 4	06/28/10	3974.53	52.15	52.16	0.01	3922.38
MW - 4	07/09/10	3974.53	sheen	52.07	0.00	3922.46
MW - 4	07/14/10	3974.53	sheen	51.96	0.00	3922.57
MW - 4	07/23/10	3974.53	sheen	51.95	0.00	3922.58
MW - 4	07/29/10	3974.53	sheen	51.94	0.00	3922.59
MW - 4	08/05/10	3974.53	sheen	51.95	0.00	3922.58
MW - 4	08/12/10	3974.53	sheen	51.97	0.00	3922.56
MW - 4	08/16/10	3974.53	sheen	51.97	0.00	3922.56
MW - 4	08/18/10	3974.53	sheen	51.95	0.00	3922.58
MW - 4	08/25/10	3974.53	sheen	52.03	0.00	3922.50
MW - 4	09/09/10	3974.53	sheen	51.95	0.00	3922.58
MW - 4	09/30/10	3974.53	sheen	51.95	0.00	3922.58
MW - 4	10/07/10	3974.53	sheen	52.00	0.00	3922.53
MW - 4	10/14/10	3974.53	sheen	52.19	0.00	3922.34
MW - 4	10/21/10	3974.53	sheen	52.21	0.00	3922.32
MW - 4	11/04/10	3974.53	sheen	52.02	0.00	3922.51
MW - 4	11/10/10	3974.53	sheen	52.27	0.00	3922.26
MW - 4	12/01/10	3974.53	sheen	51.99	0.00	3922.54
MW - 4	12/08/10	3974.53	sheen	52.13	0.00	3922.40
MW - 4	01/26/11	3974.53	-	51.99	0.00	3922.54

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	02/28/11	3974.53	-	52.24	0.00	3922.29
MW - 4	03/04/11	3974.53	-	52.00	0.00	3922.53
MW - 4	03/09/11	3974.53	52.09	52.11	0.02	3922.44
MW - 4	04/28/11	3974.53	-	52.03	0.00	3922.50
MW - 4	05/04/11	3974.53	-	52.02	0.00	3922.51
MW - 4	05/11/11	3974.53	-	52.10	0.00	3922.43
MW - 4	05/12/11	3974.53	-	51.97	0.00	3922.56
MW - 4	05/18/11	3974.53	-	52.02	0.00	3922.51
MW - 4	05/23/11	3974.53	-	52.07	0.00	3922.46
MW - 4	06/08/11	3974.53	-	52.07	0.00	3922.46
MW - 4	06/16/11	3974.53	-	52.05	0.00	3922.48
MW - 4	06/22/11	3974.53	-	52.03	0.00	3922.50
MW - 4	06/30/11	3974.53	-	52.02	0.00	3922.51
MW - 4	07/06/11	3974.53	-	51.97	0.00	3922.56
MW - 4	07/13/11	3974.53	-	52.14	0.00	3922.39
MW - 4	07/15/11	3974.53	-	52.02	0.00	3922.51
MW - 4	07/19/11	3974.53	-	52.01	0.00	3922.52
MW - 4	07/21/11	3974.53	-	51.96	0.00	3922.57
MW - 4	07/26/11	3974.53	-	51.98	0.00	3922.55
MW - 4	07/28/11	3974.53	-	51.95	0.00	3922.58
MW - 4	08/02/11	3974.53	-	52.12	0.00	3922.41
MW - 4	08/09/11	3974.53	-	51.93	0.00	3922.60
MW - 4	08/12/11	3974.53	-	51.99	0.00	3922.54
MW - 4	08/15/11	3974.53	-	51.99	0.00	3922.54
MW - 4	08/16/11	3974.53	-	52.10	0.00	3922.43
MW - 4	08/19/11	3974.53	-	52.12	0.00	3922.41
MW - 4	08/23/11	3974.53	-	52.09	0.00	3922.44
MW - 4	08/26/11	3974.53	-	52.12	0.00	3922.41
MW - 4	08/30/11	3974.53	-	52.06	0.00	3922.47
MW - 4	09/01/11	3974.53	-	52.09	0.00	3922.44
MW - 4	09/08/11	3974.53	-	52.14	0.00	3922.39
MW - 4	09/13/11	3974.53	-	52.09	0.00	3922.44
MW - 4	09/15/11	3974.53	-	52.14	0.00	3922.39
MW - 4	09/22/11	3974.53	-	51.98	0.00	3922.55
MW - 4	10/06/11	3974.53	-	51.98	0.00	3922.55
MW - 4	10/11/11	3974.53	-	52.06	0.00	3922.47
MW - 4	10/13/11	3974.53	-	52.16	0.00	3922.37
MW - 4	10/26/11	3974.53	-	52.09	0.00	3922.44
MW - 4	11/22/11	3974.53	-	52.12	0.00	3922.41
MW - 4	12/02/11	3974.53	-	52.03	0.00	3922.50
MW - 4	12/29/11	3974.53	-	51.98	0.00	3922.55
MW - 4	01/26/12	3974.53	-	52.06	0.00	3922.47
MW - 4	01/31/12	3974.53	-	52.72	0.00	3921.81

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	02/15/12	3974.53	-	51.97	0.00	3922.56
MW - 4	02/28/12	3974.53	-	52.02	0.00	3922.51
MW - 4	03/20/12	3974.53	52.03	52.11	0.08	3922.49
MW - 4	03/27/12	3974.53	52.03	52.05	0.02	3922.50
MW - 4	04/10/12	3974.53	52.04	52.13	0.09	3922.48
MW - 4	04/19/12	3974.53	-	52.06	0.00	3922.47
MW - 4	04/26/12	3974.53	-	51.98	0.00	3922.55
MW - 4	05/08/12	3974.53	-	51.99	0.00	3922.54
MW - 4	05/15/12	3974.53	-	51.99	0.00	3922.54
MW - 4	05/17/12	3974.53	-	51.97	0.00	3922.56
MW - 4	06/05/12	3974.53	-	52.07	0.00	3922.46
MW - 4	06/21/12	3974.53	-	52.18	0.00	3922.35
MW - 4	06/28/12	3974.53	-	52.24	0.00	3922.29
MW - 4	07/17/12	3974.53	-	53.08	0.00	3921.45
MW - 4	08/01/12	3974.53	-	52.08	0.00	3922.45
MW - 4	10/02/12	3974.53	52.14	52.19	0.05	3922.38
MW - 4	10/09/12	3974.53	-	52.16	0.00	3922.37
MW - 4	10/16/12	3974.53	52.12	52.13	0.01	3922.41
MW - 4	10/25/12	3974.53	-	52.16	0.00	3922.37
MW - 4	10/30/12	3974.53	-	52.14	0.00	3922.39
MW - 4	11/29/12	3974.53	-	52.22	0.00	3922.31
MW - 4	12/14/12	3974.53	52.18	52.19	0.01	3922.35
MW - 4	02/11/13	3974.53	-	52.15	0.00	3922.38
MW - 4	04/11/13	3974.53	-	52.35	0.00	3922.18
MW - 4	04/15/13	3974.53	-	52.32	0.00	3922.21
MW - 4	04/22/13	3974.53	52.13	52.15	0.02	3922.40
MW - 4	05/06/13	3974.53	52.15	52.18	0.03	3922.38
MW - 4	05/09/13	3974.53	-	52.15	0.00	3922.38
MW - 4	05/20/13	3974.53	-	52.17	0.00	3922.36
MW - 4	05/24/13	3974.53	-	52.31	0.00	3922.22
MW - 4	05/29/13	3974.53	-	52.35	0.00	3922.18
MW - 4	05/31/13	3974.53	-	52.24	0.00	3922.29
MW - 4	06/07/13	3974.53	52.39	52.40	0.01	3922.14
MW - 4	06/12/13	3974.53	-	52.36	0.00	3922.17
MW - 4	06/14/13	3974.53	-	52.33	0.00	3922.20
MW - 4	06/19/13	3974.53	-	52.45	0.00	3922.08
MW - 4	06/21/13	3974.53	-	52.39	0.00	3922.14
MW - 4	06/25/13	3974.53	-	52.16	0.00	3922.37
MW - 4	06/26/13	3974.53	-	52.34	0.00	3922.19
MW - 4	07/03/13	3974.53	52.38	52.39	0.01	3922.15
MW - 4	07/09/13	3974.53	52.39	52.43	0.04	3922.13
MW - 4	07/11/13	3974.53	-	52.38	0.00	3922.15
MW - 4	07/24/13	3974.53	-	52.35	0.00	3922.18

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	07/26/13	3974.53	-	52.34	0.00	3922.19
MW - 4	07/31/13	3974.53	-	52.25	0.00	3922.28
MW - 4	08/02/13	3974.53	-	52.33	0.00	3922.20
MW - 4	08/06/13	3974.53	-	52.26	0.00	3922.27
MW - 4	08/14/13	3974.53	-	52.28	0.00	3922.25
MW - 4	08/21/13	3974.53	-	52.37	0.00	3922.16
MW - 4	08/26/13	3974.53	-	52.36	0.00	3922.17
MW - 4	09/06/13	3974.53	-	52.35	0.00	3922.18
MW - 4	08/30/13	3974.53	-	52.30	0.00	3922.23
MW - 4	09/13/13	3974.53	-	52.30	0.00	3922.23
MW - 4	09/27/13	3974.53	-	52.36	0.00	3922.17
MW - 4	09/30/13	3974.53	-	52.35	0.00	3922.18
MW - 4	10/02/13	3974.53	-	52.44	0.00	3922.09
MW - 4	10/03/13	3974.53	-	52.33	0.00	3922.20
MW - 4	10/11/13	3974.53	-	52.26	0.00	3922.27
MW - 4	10/17/13	3974.53	-	52.28	0.00	3922.25
MW - 4	10/22/13	3974.53	-	52.28	0.00	3922.25
MW - 4	10/24/13	3974.53	-	52.41	0.00	3922.12
MW - 4	10/30/13	3974.53	-	52.36	0.00	3922.17
MW - 4	11/01/13	3974.53	-	52.27	0.00	3922.26
MW - 4	11/04/13	3974.53	-	52.30	0.00	3922.23
MW - 4	11/08/13	3974.53	-	52.40	0.00	3922.13
MW - 4	11/13/13	3974.53	-	52.28	0.00	3922.25
MW - 4	11/15/13	3974.53	-	52.28	0.00	3922.25
MW - 4	11/19/13	3974.53	-	52.33	0.00	3922.20
MW - 4	12/08/13	3974.53	52.28	52.31	0.03	3922.25
MW - 4	12/12/13	3974.53	-	52.30	0.00	3922.23
MW - 4	12/16/13	3974.53	52.31	52.32	0.01	3922.22
MW - 4	12/18/13	3974.53	-	52.35	0.00	3922.18
MW - 4	12/23/13	3974.53	-	52.35	0.00	3922.18
MW - 4	12/30/13	3974.53	-	52.33	0.00	3922.20
MW - 4	01/01/14	3974.53	-	52.31	0.00	3922.22
MW - 4	01/06/14	3974.53	-	52.30	0.00	3922.23
MW - 4	01/15/14	3974.53	-	52.42	0.00	3922.11
MW - 4	01/17/14	3974.53	-	52.31	0.00	3922.22
MW - 4	01/20/14	3974.53	-	52.45	0.00	3922.08
MW - 4	01/22/14	3974.53	-	52.47	0.00	3922.06
MW - 4	01/29/14	3974.53	-	52.34	0.00	3922.19
MW - 4	02/04/14	3974.53	-	52.32	0.00	3922.21
MW - 4	02/13/14	3974.53	-	52.36	0.00	3922.17
MW - 4	02/21/14	3974.53	-	52.47	0.00	3922.06
MW - 4	02/26/14	3974.53	52.59	53.03	0.44	3921.87
MW - 4	03/12/14	3974.53	-	52.42	0.00	3922.11

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	03/14/14	3974.53	-	52.43	0.00	3922.10
MW - 4	03/17/14	3974.53	-	52.41	0.00	3922.12
MW - 4	03/24/14	3974.53	-	52.35	0.00	3922.18
MW - 4	03/26/14	3974.53	-	52.39	0.00	3922.14
MW - 4	04/09/14	3974.53	-	51.28	0.00	3923.25
MW - 4	04/18/14	3974.53	52.28	52.30	0.02	3922.25
MW - 4	04/21/14	3974.53	-	52.28	0.00	3922.25
MW - 4	04/28/14	3974.53	52.29	52.30	0.01	3922.24
MW - 4	05/09/14	3974.53	52.32	52.47	0.15	3922.19
MW - 4	05/12/14	3974.53	52.36	52.42	0.06	3922.16
MW - 4	05/19/14	3974.53	52.31	52.35	0.04	3922.21
MW - 4	05/28/14	3974.53	52.37	52.40	0.03	3922.16
MW - 4	06/04/14	3974.53	52.33	52.40	0.07	3922.19
MW - 4	06/13/14	3974.53	52.42	52.49	0.07	3922.10
MW - 4	06/16/14	3974.53	52.31	52.34	0.03	3922.22
MW - 4	07/02/14	3974.53	52.33	52.41	0.08	3922.19
MW - 4	07/07/14	3974.53	-	52.36	0.00	3922.17
MW - 4	07/18/14	3974.53	-	52.58	0.00	3921.95
MW - 4	07/30/14	3974.53	52.38	52.40	0.02	3922.15
MW - 4	08/11/14	3974.53	52.40	52.43	0.03	3922.13
MW - 4	08/22/14	3974.53	52.40	52.47	0.07	3922.12
MW - 4	08/23/14	3974.53	52.40	52.47	0.07	3922.12
MW - 4	09/10/14	3974.53	52.45	52.56	0.11	3922.06
MW - 4	09/23/14	3974.53	52.46	52.58	0.12	3922.05
MW - 4	09/25/14	3974.53	52.65	52.68	0.03	3921.88
MW - 4	10/03/14	3974.53	52.46	52.51	0.05	3922.06
MW - 4	10/15/14	3974.53	52.49	52.54	0.05	3922.03
MW - 4	10/17/14	3974.53	52.58	52.64	0.06	3921.94
MW - 4	10/24/14	3974.53	52.56	52.59	0.03	3921.97
MW - 4	10/27/14	3974.53	52.54	52.58	0.04	3921.98
MW - 4	10/31/14	3974.53	52.40	52.42	0.02	3922.13
MW - 4	11/03/14	3974.53	52.53	52.59	0.06	3921.99
MW - 4	11/10/14	3974.53	52.40	52.46	0.06	3922.12
MW - 4	11/14/14	3974.53	52.38	52.44	0.06	3922.14
MW - 4	11/17/14	3974.53	-	52.40	0.00	3922.13
MW - 4	11/18/14	3974.53	52.40	52.44	0.04	3922.12
MW - 4	11/21/14	3974.53	52.39	52.46	0.07	3922.13
MW - 4	12/03/14	3974.53	52.38	52.49	0.11	3922.13
MW - 4	12/05/14	3974.53	52.40	52.44	0.04	3922.12
MW - 4	12/12/14	3974.53	52.41	52.51	0.10	3922.11
MW - 4	12/15/14	3974.53	52.41	52.51	0.10	3922.11
MW - 4	12/19/14	3974.53	51.97	52.08	0.11	3922.54
MW - 4	12/22/14	3974.53	51.95	52.04	0.09	3922.57



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	01/05/15	3974.53	51.91	52.06	0.15	3922.60
MW - 4	01/09/15	3974.53	52.35	52.52	0.17	3922.15
MW - 4	01/14/15	3974.53	52.35	52.54	0.19	3922.15
MW - 4	01/21/15	3974.53	51.92	52.08	0.16	3922.59
MW - 4	02/18/15	3974.53	52.40	52.73	0.33	3922.08
MW - 4	02/19/15	3974.53	52.35	52.49	0.14	3922.16
MW - 4	03/09/15	3974.53	51.92	52.09	0.17	3922.58
MW - 4	03/11/15	3974.53	52.33	52.57	0.24	3922.16
MW - 4	03/18/15	3974.53	52.31	52.57	0.26	3922.18
MW - 4	03/31/15	3974.53	51.94	52.06	0.12	3922.57
MW - 4	04/09/15	3974.53	52.28	52.59	0.31	3922.20
MW - 4	04/15/15	3974.53	52.27	52.60	0.33	3922.21
MW - 4	04/22/15	3974.53	52.28	52.65	0.37	3922.19
MW - 4	05/12/15	3974.53	52.31	52.59	0.28	3922.18
MW - 4	05/26/15	3974.53	51.93	52.07	0.14	3922.58
MW - 4	06/01/15	3974.53	52.30	52.58	0.28	3922.19
MW - 4	06/04/15	3974.53	52.32	52.59	0.27	3922.17
MW - 4	06/22/15	3974.53	52.42	52.80	0.38	3922.05
MW - 4	06/26/15	3974.53	52.42	52.77	0.35	3922.06
MW - 4	07/22/15	3974.53	52.27	52.53	0.26	3922.22
MW - 4	07/27/15	3974.53	52.43	52.73	0.30	3922.06
MW - 4	08/18/15	3974.53	52.32	52.56	0.24	3922.17
MW - 4	09/09/15	3974.53	52.49	52.87	0.38	3921.98
MW - 4	09/30/15	3974.53	52.56	53.00	0.44	3921.90
MW - 4	10/08/15	3974.53	52.48	52.64	0.16	3922.03
MW - 4	10/16/15	3974.53	52.54	52.76	0.22	3921.96
MW - 4	10/21/15	3974.53	52.40	52.55	0.15	3922.11
MW - 4	11/18/15	3974.53	52.54	52.65	0.11	3921.97
MW - 4	11/23/15	3974.53	52.40	52.58	0.18	3922.10
MW - 4	12/04/15	3974.60	52.36	52.55	0.19	3922.21
MW - 4	12/09/15	3974.53	52.55	52.85	0.30	3921.94
MW - 4	01/12/16	3974.53	52.41	52.63	0.22	3922.09
MW - 4	01/22/16	3974.53	52.39	52.60	0.21	3922.11
MW - 4	01/25/16	3974.53	52.45	52.50	0.05	3922.07
MW - 4	02/12/16	3974.53	52.47	52.75	0.28	3922.02
MW - 4	02/17/16	3974.53	52.43	52.61	0.18	3922.07
MW - 4	02/24/16	3974.53	52.37	52.54	0.17	3922.13
MW - 4	03/09/16	3974.53	52.47	52.74	0.27	3922.02
MW - 4	03/30/16	3974.53	52.46	52.66	0.20	3922.04
MW - 4	04/13/16	3974.53	52.40	52.65	0.25	3922.09
MW - 4	04/27/16	3974.53	52.48	52.50	0.02	3922.05
MW - 4	05/11/16	3974.53	52.47	52.48	0.01	3922.06
MW - 4	06/03/16	3974.53	52.49	52.60	0.11	3922.02

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	06/13/16	3974.53	52.42	52.45	0.03	3922.11
MW - 4	07/01/16	3974.53	52.50	52.59	0.09	3922.02
MW - 4	07/08/16	3974.53	52.52	52.59	0.07	3922.00
MW - 4	07/12/16	3974.53	52.10	52.50	0.40	3922.37
MW - 4	07/18/16	3974.53	52.49	52.54	0.05	3922.03
MW - 4	08/02/16	3974.53	52.50	52.55	0.05	3922.02
MW - 4	08/12/16	3974.53	-	52.59	0.00	3921.94
MW - 4	08/17/16	3974.53	-	52.53	0.00	3922.00
MW - 4	09/21/16	3974.53	-	52.53	0.00	3922.00
MW - 4	10/21/16	3974.53	-	52.49	0.00	3922.04
MW - 4	10/24/16	3974.53	-	52.67	0.00	3921.86
MW - 4	10/26/16	3974.53	-	52.60	0.00	3921.93
MW - 4	10/31/16	3974.53	-	52.62	0.00	3921.91
MW - 4	11/21/16	3974.53	-	52.49	0.00	3922.04
MW - 4	11/28/16	3974.53	-	52.47	0.00	3922.06
MW - 4	12/07/16	3974.53	-	52.55	0.00	3921.98
MW - 4	12/21/16	3974.53	-	52.46	0.00	3922.07
MW - 4	01/04/17	3974.53	-	52.45	0.00	3922.08
MW - 4	01/12/17	3974.53	-	52.46	0.00	3922.07
MW - 4	01/26/17	3974.53	-	52.57	0.00	3921.96
MW - 4	02/07/17	3974.53	-	52.50	0.00	3922.03
MW - 4	02/21/17	3974.53	-	52.45	0.00	3922.08
MW - 4	02/23/17	3974.53	-	52.44	0.00	3922.09
MW - 4	03/08/17	3974.53	-	52.55	0.00	3921.98
MW - 4	04/07/17	3974.53	52.43	52.45	0.02	3922.10
MW - 4	04/18/17	3974.53	52.44	52.46	0.02	3922.09
MW - 4	05/10/17	3974.53	52.48	52.69	0.21	3922.02
MW - 4	05/24/17	3974.53	52.39	52.59	0.20	3922.11
MW - 4	06/02/17	3974.53	52.39	52.63	0.24	3922.10
MW - 4	07/12/17	3974.53	52.45	52.88	0.43	3922.02
MW - 4	07/19/17	3974.53	52.44	52.83	0.39	3922.03
MW - 4	07/27/17	3974.53	52.42	52.81	0.39	3922.05
MW - 4	08/11/17	3974.53	52.47	52.83	0.36	3922.01
MW - 4	08/24/17	3974.53	52.44	52.91	0.47	3922.02
MW - 4	09/05/17	3974.53	52.45	52.96	0.51	3922.00
MW - 4	10/18/17	3974.53	52.52	53.08	0.56	3921.93
MW - 4	10/25/17	3974.53	52.51	53.98	1.47	3921.80
MW - 4	11/01/17	3974.53	52.51	53.97	1.46	3921.80
MW - 4	11/08/17	3974.53	-	52.48	0.00	3922.05
MW - 4	11/28/17	3974.53	52.49	52.93	0.44	3921.97
MW - 4	12/19/17	3974.53	52.48	52.93	0.45	3921.98
MW - 4	01/16/18	3974.53	52.51	52.89	0.38	3921.96
MW - 4	01/30/18	3974.53	52.49	52.81	0.32	3921.99

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	02/06/18	3974.53	52.56	52.78	0.22	3921.94
MW - 4	02/13/18	3974.53	52.57	52.81	0.24	3921.92
MW - 4	02/26/18	3974.53	52.50	52.69	0.19	3922.00
MW - 4	04/03/18	3974.53	52.47	52.76	0.29	3922.02
MW - 4	04/17/18	3974.53	52.47	52.86	0.39	3922.00
MW - 4	05/07/18	3974.53	52.51	52.93	0.42	3921.96
MW - 4	06/21/18	3974.53	52.51	53.11	0.60	3921.93
MW - 4	06/26/18	3974.53	52.48	53.07	0.59	3921.96
MW - 4	07/12/18	3974.53	52.52	52.94	0.42	3921.95
MW - 4	07/17/18	3974.53	52.53	52.96	0.43	3921.94
MW - 4	08/01/18	3974.53	52.56	52.88	0.32	3921.92
MW - 4	08/09/18	3974.53	52.57	52.82	0.25	3921.92
MW - 4	08/23/18	3974.53	52.59	52.88	0.29	3921.90
MW - 4	08/30/18	3974.53	52.62	52.78	0.16	3921.89
MW - 4	08/31/18	3974.53	52.61	52.83	0.22	3921.89
MW - 4	09/11/18	3974.53	52.61	52.74	0.13	3921.90
MW - 4	09/19/18	3974.53	52.63	52.76	0.13	3921.88
MW - 4	11/01/18	3974.53	52.66	52.73	0.07	3921.86
MW - 4	11/05/18	3974.53	52.63	52.68	0.05	3921.89
MW - 4	10/16/18	3974.53	52.63	52.80	0.17	-
MW - 4	11/14/18	3974.53	52.64	52.68	0.04	3921.88
MW - 4	12/04/18	3974.53	52.64	52.84	0.20	3921.86
MW - 4	12/06/18	3974.53	52.63	52.80	0.17	3921.87
MW - 4	12/18/18	3974.53	52.66	52.75	0.09	3921.86
MW - 4	12/20/18	3974.53	52.65	52.83	0.18	3921.85
MW - 4	12/26/18	3974.53	-	52.66	0.00	3921.87
MW - 4	01/08/19	3974.53	-	52.67	0.00	3921.86
MW - 4	01/10/19	3974.53	-	52.65	0.00	3921.88
MW - 4	01/15/19	3974.53	-	52.69	0.00	3921.84
MW - 4	01/24/19	3974.53	-	52.93	0.00	3921.60
MW - 4	02/11/19	3974.53	-	52.71	0.00	3921.82
MW - 4	02/18/19	3974.53	-	52.72	0.00	3921.81
MW - 4	04/16/19	3974.53	-	52.98	0.00	3921.55
MW - 4	04/23/19	3974.53	-	52.75	0.00	3921.78
MW - 4	04/30/19	3974.53	52.65	52.68	0.03	3921.88
MW - 4	05/07/19	3974.53	-	52.64	0.00	3921.89
MW - 4	05/09/19	3974.53	-	52.70	0.00	3921.83
MW - 4	05/14/19	3974.53	-	52.61	0.00	3921.92
MW - 4	06/04/19	3974.53	-	53.01	0.00	3921.52
MW - 4	06/11/19	3974.53	-	53.05	0.00	3921.48
MW - 4	06/13/19	3974.53	-	53.43	0.00	3921.10
MW - 4	06/17/19	3974.53	-	53.36	0.00	3921.17
MW - 4	07/01/19	3974.53	-	52.74	0.00	3921.79

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	07/02/19	3974.53	-	52.68	0.00	3921.85
MW - 4	08/19/19	3974.53	-	52.87	0.00	3921.66
MW - 4	08/29/19	3974.53	-	52.80	0.00	3921.73
MW - 4	09/03/19	3974.53	-	52.86	0.00	3921.67
MW - 4	09/10/19	3974.53	-	53.02	0.00	3921.51
MW - 4	10/01/19	3974.53	-	52.86	0.00	3921.67
MW - 4	10/22/19	3974.53	-	53.13	0.00	3921.40
MW - 4	11/11/19	3974.53	-	53.12	0.00	3921.41
MW - 4	11/15/19	3974.53	52.80	52.96	0.16	3921.71
MW - 4	01/08/20	3974.53	52.72	53.18	0.46	3921.74
MW - 4	02/13/20	3974.53	52.75	52.85	0.10	3921.77
MW - 4	02/18/20	3974.53	52.75	52.90	0.15	3921.76
MW - 4	05/05/20	3974.53	52.66	53.50	0.84	3921.74
MW - 4	06/11/20	3974.53	52.69	53.71	1.02	3921.69
MW - 4	09/23/20	3974.53	52.70	54.16	1.46	3921.61
MW - 4	12/04/20	3974.53	52.68	54.36	1.68	3921.60
MW - 4	03/23/21	3974.53	52.65	54.67	2.02	3921.58
MW - 4	06/04/21	3974.53	52.62	54.85	2.23	3921.58
MW - 4	08/12/21	3974.53	52.71	55.00	2.29	3921.48
MW - 4	09/30/21	3974.53	52.90	54.24	1.34	3921.43
MW - 4	12/09/21	3974.53	52.98	53.68	0.70	3921.45
MW - 4	02/17/22	3974.53	52.92	54.10	1.18	3921.43
MW - 4	05/18/22	3974.53	52.85	54.74	1.89	3921.40
MW - 4	08/09/22	3974.53	53.03	54.45	1.42	3921.29
MW - 4	11/14/22	3974.53	53.03	54.98	1.95	3921.21
MW - 4	01/06/23	3974.53	52.99	55.14	2.15	3921.22
MW - 4	01/16/23	3974.53	53.23	53.88	0.65	3921.20
MW - 4	02/14/23	3974.53	53.24	53.83	0.59	3921.20
MW - 4	05/16/23	3974.53	53.17	54.36	1.19	3921.18
MW - 4	08/08/23	3974.53	53.18	54.88	1.70	3921.10
MW - 4	12/07/23	3974.53	53.24	55.12	1.88	3921.01
MW - 5	03/02/00	3974.28	52.09	55.50	3.41	3921.68
MW - 5	04/25/00	3974.28	52.04	55.59	3.55	3921.71
MW - 5	09/06/00	3974.28	52.11	55.48	3.37	3921.66
MW - 5	11/28/00	3974.28	52.21	55.46	3.25	3921.58
MW - 5	02/21/01	3974.28	52.07	55.40	3.33	3921.71
MW - 5	05/31/01	3974.28	52.11	55.48	3.37	3921.66
MW - 5	08/23/01	3974.28	52.08	55.45	3.37	3921.69
MW - 5	11/21/01	3974.28	52.20	55.43	3.23	3921.60
MW - 5	02/13/02	3974.28	52.14	55.43	3.29	3921.65
MW - 5	06/12/02	3974.28	52.04	55.65	3.61	3921.70
MW - 5	08/26/02	3974.28	52.04	55.68	3.64	3921.69

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	11/08/02	3974.28	52.71	52.97	0.26	3921.53
MW - 5	11/21/02	3974.28	52.73	53.01	0.28	3921.51
MW - 5	12/27/02	3974.28	52.24	55.09	2.85	3921.61
MW - 5	01/06/03	3974.28	52.30	54.80	2.50	3921.61
MW - 5	01/08/03	3974.28	52.41	54.24	1.83	3921.60
MW - 5	01/10/03	3974.28	52.71	52.96	0.25	3921.53
MW - 5	01/13/03	3974.28	52.69	52.93	0.24	3921.55
MW - 5	02/05/03	3974.28	52.68	52.94	0.26	3921.56
MW - 5	02/26/03	3974.28	52.20	56.05	3.85	3921.50
MW - 5	03/04/03	3974.28	52.19	56.07	3.88	3921.51
MW - 5	03/12/03	3974.28	52.22	55.12	2.90	3921.63
MW - 5	03/18/03	3974.28	52.74	52.96	0.22	3921.51
MW - 5	03/25/03	3974.28	52.68	53.04	0.36	3921.55
MW - 5	03/31/03	3974.28	52.64	53.12	0.48	3921.57
MW - 5	04/09/03	3974.28	52.68	52.91	0.23	3921.57
MW - 5	04/14/03	3974.28	52.71	52.79	0.08	3921.56
MW - 5	05/07/03	3974.28	52.17	54.47	2.30	3921.77
MW - 5	05/08/03	3974.28	52.25	55.04	2.79	3921.61
MW - 5	05/13/03	3974.28	52.32	55.04	2.72	3921.55
MW - 5	05/21/03	3974.27	52.25	55.14	2.89	3921.59
MW - 5	05/27/03	3974.27	52.22	54.96	2.74	3921.64
MW - 5	05/28/03	3974.27	52.27	55.11	2.84	3921.57
MW - 5	06/03/03	3974.27	52.77	52.84	0.07	3921.49
MW - 5	06/10/03	3974.27	52.72	52.90	0.18	3921.52
MW - 5	07/01/03	3974.27	52.79	52.93	0.14	3921.46
MW - 5	07/08/03	3974.27	52.37	54.92	2.55	3921.52
MW - 5	07/29/03	3974.27	52.25	54.83	2.58	3921.63
MW - 5	08/04/03	3974.27	52.61	54.25	1.64	3921.41
MW - 5	08/18/03	3974.27	52.47	53.81	1.34	3921.60
MW - 5	08/25/03	3974.27	52.51	55.32	2.81	3921.34
MW - 5	10/01/03	3974.27	52.72	53.19	0.47	3921.48
MW - 5	10/06/03	3974.27	52.70	52.97	0.27	3921.53
MW - 5	10/08/03	3974.27	52.72	54.74	2.02	3921.25
MW - 5	10/15/03	3974.27	52.73	54.42	1.69	3921.29
MW - 5	11/12/03	3974.27	52.75	55.30	2.55	3921.14
MW - 5	11/19/03	3974.27	52.71	55.27	2.56	3921.18
MW - 5	12/01/03	3974.27	53.19	53.32	0.13	3921.06
MW - 5	12/10/03	3974.27	52.41	54.94	2.53	3921.48
MW - 5	02/05/04	3974.27	53.17	53.26	0.09	3921.09
MW - 5	02/17/04	3974.27	52.44	53.69	1.25	3921.64
MW - 5	02/25/04	3974.27	53.17	53.29	0.12	3921.08
MW - 5	03/09/04	3974.27	52.53	55.09	2.56	3921.36
MW - 5	03/16/04	3974.27	52.41	55.20	2.79	3921.44

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	03/22/04	3974.27	53.00	53.68	0.68	3921.17
MW - 5	04/07/04	3974.27	52.94	53.11	0.17	3921.30
MW - 5	04/12/04	3974.27	52.55	55.00	2.45	3921.35
MW - 5	04/19/04	3974.27	52.90	53.00	0.10	3921.36
MW - 5	05/05/04	3974.27	52.52	55.11	2.59	3921.36
MW - 5	05/11/04	3974.27	52.64	55.29	2.65	3921.23
MW - 5	06/07/04	3974.27	52.25	54.97	2.72	3921.61
MW - 5	06/15/04	3974.27	52.27	54.93	2.66	3921.60
MW - 5	06/20/04	3974.27	52.27	54.93	2.66	3921.60
MW - 5	06/21/04	3974.27	52.23	54.95	2.72	3921.63
MW - 5	06/28/04	3974.27	52.25	54.97	2.72	3921.61
MW - 5	07/08/04	3974.27	52.24	54.96	2.72	3921.62
MW - 5	07/12/04	3974.27	52.23	54.97	2.74	3921.63
MW - 5	08/12/04	3974.27	52.22	54.22	2.00	3921.75
MW - 5	08/17/04	3974.27	52.25	55.25	3.00	3921.57
MW - 5	08/26/04	3974.27	52.25	55.23	2.98	3921.57
MW - 5	09/01/04	3974.27	52.27	55.20	2.93	3921.56
MW - 5	09/03/04	3974.27	52.30	55.16	2.86	3921.54
MW - 5	09/08/04	3974.27	52.27	55.24	2.97	3921.55
MW - 5	09/14/04	3974.27	52.27	55.20	2.93	3921.56
MW - 5	09/22/04	3974.27	52.33	55.10	2.77	3921.52
MW - 5	10/01/04	3974.27	52.27	55.22	2.95	3921.56
MW - 5	10/08/04	3974.27	52.28	55.20	2.92	3921.55
MW - 5	10/15/04	3974.27	52.23	54.91	2.68	3921.64
MW - 5	10/22/04	3974.27	52.21	55.16	2.95	3921.62
MW - 5	11/12/04	3974.27	52.41	53.24	0.83	3921.74
MW - 5	11/26/04	3974.27	52.34	54.80	2.46	3921.56
MW - 5	12/02/04	3974.27	52.39	54.80	2.41	3921.52
MW - 5	12/06/04	3974.27	52.55	53.97	1.42	3921.51
MW - 5	12/13/04	3974.27	52.87	53.35	0.48	3921.33
MW - 5	12/15/04	3974.27	52.87	53.35	0.48	3921.33
MW - 5	12/27/04	3974.27	52.69	53.20	0.51	3921.50
MW - 5	01/10/05	3974.27	52.20	54.68	2.48	3921.70
MW - 5	01/18/05	3974.27	52.26	54.65	2.39	3921.65
MW - 5	01/18/05	3974.27	sheen	52.40	0.00	3921.87
MW - 5	01/25/05	3974.27	52.17	54.70	2.53	3921.72
MW - 5	01/27/05	3974.27	52.18	54.57	2.39	3921.73
MW - 5	02/01/05	3974.27	52.14	54.71	2.57	3921.74
MW - 5	02/07/05	3974.27	52.10	54.67	2.57	3921.78
MW - 5	02/11/05	3974.27	52.11	54.65	2.54	3921.78
MW - 5	02/15/05	3974.27	52.09	54.63	2.54	3921.80
MW - 5	02/22/05	3974.27	52.10	54.60	2.50	3921.80
MW - 5	02/24/05	3974.27	52.08	54.58	2.50	3921.82

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	03/03/05	3974.27	52.02	54.89	2.87	3921.82
MW - 5	03/09/05	3974.27	52.03	54.89	2.86	3921.81
MW - 5	03/22/05	3974.27	52.05	54.25	2.20	3921.89
MW - 5	03/24/05	3974.27	52.05	54.25	2.20	3921.89
MW - 5	03/31/05	3974.27	52.08	54.21	2.13	3921.87
MW - 5	06/22/05	3974.27	52.02	54.80	2.78	3921.83
MW - 5	07/21/05	3974.27	51.94	54.57	2.63	3921.94
MW - 5	08/03/05	3974.27	51.97	54.44	2.47	3921.93
MW - 5	08/30/05	3974.27	51.96	54.45	2.49	3921.94
MW - 5	09/20/05	3974.27	51.94	54.39	2.45	3921.96
MW - 5	09/28/05	3974.27	51.92	54.39	2.47	3921.98
MW - 5	10/06/05	3974.27	51.86	54.64	2.78	3921.99
MW - 5	10/13/05	3974.27	51.89	54.63	2.74	3921.97
MW - 5	10/20/05	3974.27	51.89	54.60	2.71	3921.97
MW - 5	10/26/05	3974.27	51.88	54.89	3.01	3921.94
MW - 5	11/16/05	3974.27	51.86	54.58	2.72	3922.00
MW - 5	11/23/05	3974.27	51.93	54.55	2.62	3921.95
MW - 5	12/12/05	3974.27	51.83	54.54	2.71	3922.03
MW - 5	12/16/05	3974.27	51.99	53.20	1.21	3922.10
MW - 5	12/19/05	3974.27	51.89	54.80	2.91	3921.94
MW - 5	12/29/05	3974.27	51.94	54.57	2.63	3921.94
MW - 5	01/04/06	3974.27	51.99	54.50	2.51	3921.90
MW - 5	01/10/06	3974.27	51.90	54.52	2.62	3921.98
MW - 5	01/17/06	3974.27	51.85	54.50	2.65	3922.02
MW - 5	01/26/06	3974.27	51.83	54.47	2.64	3922.04
MW - 5	01/31/06	3974.27	51.86	54.51	2.65	3922.01
MW - 5	02/07/06	3974.27	51.83	54.45	2.62	3922.05
MW - 5	02/09/06	3974.27	51.86	54.40	2.54	3922.03
MW - 5	02/13/06	3974.27	51.89	54.49	2.60	3921.99
MW - 5	02/22/06	3974.27	51.81	54.45	2.64	3922.06
MW - 5	02/28/06	3974.27	51.83	54.44	2.61	3922.05
MW - 5	03/07/06	3974.27	51.89	54.40	2.51	3922.00
MW - 5	03/15/06	3974.27	51.81	54.40	2.59	3922.07
MW - 5	03/20/06	3974.27	51.77	54.34	2.57	3922.11
MW - 5	03/22/06	3974.27	52.12	53.31	1.19	3921.97
MW - 5	03/29/06	3974.27	51.79	54.30	2.51	3922.10
MW - 5	04/11/06	3974.27	51.76	54.30	2.54	3922.13
MW - 5	04/18/06	3974.27	51.76	54.31	2.55	3922.13
MW - 5	04/25/06	3974.27	51.84	54.25	2.41	3922.07
MW - 5	05/02/06	3974.27	51.76	54.33	2.57	3922.12
MW - 5	05/09/06	3974.27	51.76	54.33	2.57	3922.12
MW - 5	05/16/06	3974.27	51.78	54.30	2.52	3922.11
MW - 5	05/23/06	3974.27	51.76	54.28	2.52	3922.13

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	05/31/06	3974.27	51.76	54.30	2.54	3922.13
MW - 5	06/06/06	3974.27	51.76	54.34	2.58	3922.12
MW - 5	06/13/06	3974.27	51.77	54.26	2.49	3922.13
MW - 5	06/20/06	3974.27	51.76	54.27	2.51	3922.13
MW - 5	06/21/06	3974.27	51.82	53.96	2.14	3922.13
MW - 5	07/06/06	3974.27	51.75	54.21	2.46	3922.15
MW - 5	07/12/06	3974.27	51.81	53.91	2.10	3922.15
MW - 5	07/20/06	3974.27	51.82	52.16	0.34	3922.40
MW - 5	07/25/06	3974.27	51.87	53.84	1.97	3922.10
MW - 5	08/01/06	3974.27	51.81	54.02	2.21	3922.13
MW - 5	08/16/06	3974.27	52.13	52.70	0.57	3922.05
MW - 5	08/23/06	3974.27	51.89	53.53	1.64	3922.13
MW - 5	08/28/06	3974.27	51.86	53.75	1.89	3922.13
MW - 5	09/12/06	3974.27	51.84	53.80	1.96	3922.14
MW - 5	09/22/06	3974.27	51.84	53.80	1.96	3922.14
MW - 5	09/27/06	3974.27	51.81	53.90	2.09	3922.15
MW - 5	10/06/06	3974.27	51.82	53.84	2.02	3922.15
MW - 5	10/10/06	3974.27	51.90	53.86	1.96	3922.08
MW - 5	10/16/06	3974.27	51.87	53.84	1.97	3922.10
MW - 5	10/26/06	3974.27	51.85	53.85	2.00	3922.12
MW - 5	11/03/06	3974.27	51.83	53.82	1.99	3922.14
MW - 5	11/09/06	3974.27	51.83	53.74	1.91	3922.15
MW - 5	11/16/06	3974.27	51.89	53.78	1.89	3922.10
MW - 5	11/22/06	3974.27	51.81	53.87	2.06	3922.15
MW - 5	12/04/06	3974.27	51.84	53.75	1.91	3922.14
MW - 5	12/08/06	3974.27	51.85	53.78	1.93	3922.13
MW - 5	12/15/06	3974.27	51.74	54.05	2.31	3922.18
MW - 5	01/05/07	3974.27	51.77	54.04	2.27	3922.16
MW - 5	01/12/07	3974.27	51.75	54.04	2.29	3922.18
MW - 5	01/18/07	3974.27	51.74	54.03	2.29	3922.19
MW - 5	01/24/07	3974.27	51.76	54.06	2.30	3922.17
MW - 5	01/29/07	3974.27	51.71	53.97	2.26	3922.22
MW - 5	02/09/07	3974.27	51.73	53.98	2.25	3922.20
MW - 5	02/16/07	3974.27	51.73	53.98	2.25	3922.20
MW - 5	02/23/07	3974.27	51.71	53.96	2.25	3922.22
MW - 5	03/02/07	3974.27	51.79	54.05	2.26	3922.14
MW - 5	03/14/07	3974.27	51.78	53.77	1.99	3922.19
MW - 5	03/26/07	3974.27	51.72	53.93	2.21	3922.22
MW - 5	04/03/07	3974.27	51.72	53.93	2.21	3922.22
MW - 5	04/09/07	3974.27	51.71	53.91	2.20	3922.23
MW - 5	04/26/07	3974.27	51.71	53.88	2.17	3922.23
MW - 5	04/30/07	3974.27	51.72	53.84	2.12	3922.23
MW - 5	05/11/07	3974.27	51.73	53.84	2.11	3922.22



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	05/16/07	3974.27	51.71	53.83	2.12	3922.24
MW - 5	05/22/07	3974.27	51.70	53.82	2.12	3922.25
MW - 5	05/29/07	3974.27	51.69	53.82	2.13	3922.26
MW - 5	06/01/07	3974.27	51.71	53.86	2.15	3922.24
MW - 5	06/08/07	3974.27	51.70	53.82	2.12	3922.25
MW - 5	06/11/07	3974.27	51.71	53.80	2.09	3922.25
MW - 5	06/20/07	3974.27	51.70	53.80	2.10	3922.26
MW - 5	07/10/07	3974.27	51.69	53.78	2.09	3922.27
MW - 5	07/20/07	3974.27	51.69	53.76	2.07	3922.27
MW - 5	07/25/07	3974.27	51.68	53.75	2.07	3922.28
MW - 5	08/01/07	3974.27	51.68	53.71	2.03	3922.29
MW - 5	08/10/07	3974.27	51.69	53.74	2.05	3922.27
MW - 5	08/15/07	3974.27	51.68	53.71	2.03	3922.29
MW - 5	08/30/07	3974.27	51.69	53.71	2.02	3922.28
MW - 5	08/31/07	3974.27	51.69	53.71	2.02	3922.28
MW - 5	09/10/07	3974.27	51.69	53.70	2.01	3922.28
MW - 5	09/19/07	3974.27	51.67	53.68	2.01	3922.30
MW - 5	10/01/07	3974.27	52.03	52.32	0.29	3922.20
MW - 5	10/19/07	3974.27	51.89	53.04	1.15	3922.21
MW - 5	11/12/07	3974.27	51.84	52.93	1.09	3922.27
MW - 5	12/13/07	3974.27	51.93	52.74	0.81	3922.22
MW - 5	03/07/08	3974.27	51.77	52.82	1.05	3922.34
MW - 5	3/12/08 #1	3974.27	51.77	52.82	1.05	3922.34
MW - 5	3/12/08 #2	3974.27	51.82	52.50	0.68	3922.35
MW - 5	3/20/2008 #1	3974.27	51.78	52.83	1.05	3922.33
MW - 5	3/20/08 #2	3974.27	51.81	52.57	0.76	3922.35
MW - 5	3/23/08 #1	3974.27	51.84	52.88	1.04	3922.27
MW - 5	3/23/08 #2	3974.27	51.82	52.39	0.57	3922.36
MW - 5	4/2/08 #1	3974.27	51.79	52.99	1.20	3922.30
MW - 5	4/2/08 #2	3974.27	51.76	52.62	0.86	3922.38
MW - 5	4/9/08 #1	3974.27	51.71	53.11	1.40	3922.35
MW - 5	4/9/08 #2	3974.27	51.79	52.65	0.86	3922.35
MW - 5	04/16/08	3974.27	51.73	52.82	1.09	3922.38
MW - 5	04/30/08	3974.27	51.78	52.97	1.19	3922.31
MW - 5	05/29/08	3974.27	51.63	53.27	1.64	3922.39
MW - 5	06/02/08	3974.27	51.63	53.22	1.59	3922.40
MW - 5	06/03/08	3974.27	51.63	53.22	1.59	3922.40
MW - 5	06/11/08	3974.27	51.62	53.25	1.63	3922.41
MW - 5	06/18/08	3974.27	51.62	53.26	1.64	3922.40
MW - 5	06/23/08	3974.27	51.63	53.23	1.60	3922.40
MW - 5	07/01/08	3974.27	51.61	53.22	1.61	3922.42
MW - 5	07/09/08	3974.27	51.65	53.26	1.61	3922.38
MW - 5	07/15/08	3974.27	51.60	53.22	1.62	3922.43

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	07/22/08	3974.27	51.63	53.21	1.58	3922.40
MW - 5	08/02/08	3974.27	51.62	53.22	1.60	3922.41
MW - 5	08/13/08	3974.27	51.62	53.21	1.59	3922.41
MW - 5	09/03/08	3974.27	51.61	53.21	1.60	3922.42
MW - 5	09/11/08	3974.27	51.61	53.20	1.59	3922.42
MW - 5	09/19/08	3974.27	51.60	53.16	1.56	3922.44
MW - 5	09/26/08	3974.27	51.60	53.16	1.56	3922.44
MW - 5	10/10/08	3974.27	51.61	53.18	1.57	3922.42
MW - 5	10/17/08	3974.27	51.61	53.13	1.52	3922.43
MW - 5	10/21/08	3974.27	51.89	53.26	1.37	3922.17
MW - 5	10/30/08	3974.27	51.60	53.11	1.51	3922.44
MW - 5	11/04/08	3974.27	51.61	53.13	1.52	3922.43
MW - 5	11/18/08	3974.27	51.61	53.10	1.49	3922.44
MW - 5	11/25/08	3974.27	51.61	53.12	1.51	3922.43
MW - 5	12/10/08	3974.27	51.59	53.13	1.54	3922.45
MW - 5	12/18/08	3974.27	51.60	53.11	1.51	3922.44
MW - 5	01/07/09	3974.27	51.62	53.16	1.54	3922.42
MW - 5	01/14/09	3974.27	51.61	53.15	1.54	3922.43
MW - 5	01/21/09	3974.27	51.98	52.05	0.07	3922.28
MW - 5	01/22/09	3974.27	51.59	53.09	1.50	3922.46
MW - 5	01/30/09	3974.27	51.60	53.05	1.45	3922.45
MW - 5	02/03/09	3974.27	51.60	53.02	1.42	3922.46
MW - 5	02/12/09	3974.27	51.58	52.02	0.44	3922.62
MW - 5	02/19/09	3974.27	52.59	52.96	0.37	3921.62
MW - 5	03/04/09	3974.27	52.65	53.02	0.37	3921.56
MW - 5	03/06/09	3974.27	51.60	53.04	1.44	3922.45
MW - 5	03/11/09	3974.27	51.60	53.02	1.42	3922.46
MW - 5	03/16/09	3974.27	52.68	53.06	0.38	3921.53
MW - 5	03/19/09	3974.27	51.60	53.01	1.41	3922.46
MW - 5	03/24/09	3974.27	51.55	52.89	1.34	3922.52
MW - 5	04/03/09	3974.27	51.58	52.70	1.12	3922.52
MW - 5	04/15/09	3974.27	51.59	52.91	1.32	3922.48
MW - 5	04/17/09	3974.27	51.61	52.83	1.22	3922.48
MW - 5	04/22/09	3974.27	51.60	52.68	1.08	3922.51
MW - 5	04/29/09	3974.27	51.61	52.96	1.35	3922.46
MW - 5	05/20/09	3974.27	51.58	52.91	1.33	3922.49
MW - 5	05/20/09	3974.27	51.58	52.91	1.33	3922.49
MW - 5	06/09/09	3974.27	51.58	52.95	1.37	3922.48
MW - 5	06/17/09	3974.27	51.59	52.97	1.38	3922.47
MW - 5	06/23/09	3974.27	51.61	52.66	1.05	3922.50
MW - 5	07/01/09	3974.27	51.58	52.96	1.38	3922.48
MW - 5	07/08/09	3974.27	51.58	52.98	1.40	3922.48
MW - 5	07/15/09	3974.27	51.58	52.92	1.34	3922.49

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	07/17/09	3974.27	51.61	52.89	1.28	3922.47
MW - 5	07/23/09	3974.27	51.59	52.95	1.36	3922.48
MW - 5	07/24/09	3974.27	51.61	52.82	1.21	3922.48
MW - 5	07/30/09	3974.27	51.59	52.95	1.36	3922.48
MW - 5	08/04/09	3974.27	51.58	52.93	1.35	3922.49
MW - 5	08/12/09	3974.27	51.58	52.94	1.36	3922.49
MW - 5	08/20/09	3974.27	51.58	52.93	1.35	3922.49
MW - 5	08/26/09	3974.27	51.55	51.92	0.37	3922.66
MW - 5	09/02/09	3974.27	51.56	52.92	1.36	3922.51
MW - 5	09/09/09	3974.27	51.72	52.92	1.20	3922.37
MW - 5	09/14/09	3974.27	51.74	53.92	2.18	3922.20
MW - 5	09/21/09	3974.27	51.92	52.98	1.06	3922.19
MW - 5	10/01/09	3974.27	51.60	52.95	1.35	3922.47
MW - 5	10/08/09	3974.27	51.60	52.94	1.34	3922.47
MW - 5	10/14/09	3974.27	51.92	52.96	1.04	3922.19
MW - 5	10/21/09	3974.27	51.57	52.89	1.32	3922.50
MW - 5	10/28/09	3974.27	51.83	52.90	1.07	3922.28
MW - 5	11/04/09	3974.27	51.56	52.86	1.30	3922.52
MW - 5	11/11/09	3974.27	51.56	52.85	1.29	3922.52
MW - 5	11/18/09	3974.27	51.55	52.86	1.31	3922.52
MW - 5	11/25/09	3974.27	51.58	52.87	1.29	3922.50
MW - 5	12/02/09	3974.27	51.57	52.88	1.31	3922.50
MW - 5	12/10/09	3974.27	51.58	52.87	1.29	3922.50
MW - 5	12/17/09	3974.27	51.62	52.89	1.27	3922.46
MW - 5	12/21/09	3974.27	52.06	52.83	0.77	3922.09
MW - 5	12/30/09	3974.27	51.66	52.84	1.18	3922.43
MW - 5	01/07/10	3974.27	51.65	52.66	1.01	3922.47
MW - 5	01/18/10	3974.27	51.57	52.66	1.09	3922.54
MW - 5	02/02/10	3974.27	51.58	52.74	1.16	3922.52
MW - 5	02/11/10	3974.27	51.56	52.73	1.17	3922.53
MW - 5	02/18/10	3974.27	51.55	52.74	1.19	3922.54
MW - 5	02/25/10	3974.27	51.60	52.80	1.20	3922.49
MW - 5	03/02/10	3974.27	51.64	52.82	1.18	3922.45
MW - 5	03/04/10	3974.27	51.57	52.09	0.52	3922.62
MW - 5	03/10/10	3974.27	51.59	52.78	1.19	3922.50
MW - 5	03/12/10	3974.27	51.61	52.86	1.25	3922.47
MW - 5	03/15/10	3974.27	51.60	52.73	1.13	3922.50
MW - 5	03/18/10	3974.27	51.59	52.73	1.14	3922.51
MW - 5	03/22/10	3974.27	51.62	52.78	1.16	3922.48
MW - 5	03/24/10	3974.27	51.63	52.76	1.13	3922.47
MW - 5	03/30/10	3974.27	51.61	52.79	1.18	3922.48
MW - 5	04/07/10	3974.27	51.64	52.79	1.15	3922.46
MW - 5	04/12/10	3974.27	51.53	52.70	1.17	3922.56

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	04/16/10	3974.27	51.96	53.95	1.99	3922.01
MW - 5	04/20/10	3974.27	51.85	53.52	1.67	3922.17
MW - 5	04/27/10	3974.27	51.98	53.60	1.62	3922.05
MW - 5	04/30/10	3974.27	51.91	53.39	1.48	3922.14
MW - 5	05/12/10	3974.27	51.91	53.50	1.59	3922.12
MW - 5	05/14/10	3974.27	51.93	53.38	1.45	3922.12
MW - 5	05/17/10	3974.27	52.08	53.39	1.31	3921.99
MW - 5	05/20/10	3974.27	51.90	53.51	1.61	3922.13
MW - 5	05/25/10	3974.27	51.86	53.12	1.26	3922.22
MW - 5	06/01/10	3974.27	51.88	53.11	1.23	3922.21
MW - 5	06/09/10	3974.27	51.88	53.12	1.24	3922.20
MW - 5	06/16/10	3974.27	51.85	52.92	1.07	3922.26
MW - 5	06/28/10	3974.27	51.63	53.78	2.15	3922.32
MW - 5	07/09/10	3974.27	51.87	52.91	1.04	3922.24
MW - 5	07/14/10	3974.27	51.58	52.40	0.82	3922.57
MW - 5	07/23/10	3974.27	51.60	52.49	0.89	3922.54
MW - 5	07/29/10	3974.27	51.59	52.40	0.81	3922.56
MW - 5	08/05/10	3974.27	51.61	52.40	0.79	3922.54
MW - 5	08/12/10	3974.27	51.62	52.42	0.80	3922.53
MW - 5	08/16/10	3974.27	51.62	52.42	0.80	3922.53
MW - 5	08/18/10	3974.27	51.59	52.45	0.86	3922.55
MW - 5	08/25/10	3974.27	51.81	52.84	1.03	3922.31
MW - 5	09/02/10	3974.27	51.81	52.88	1.07	3922.30
MW - 5	09/09/10	3974.27	51.62	52.41	0.79	3922.53
MW - 5	09/30/10	3974.27	51.61	52.36	0.75	3922.55
MW - 5	10/07/10	3974.27	51.64	52.35	0.71	3922.52
MW - 5	10/14/10	3974.27	51.88	53.49	1.61	3922.15
MW - 5	10/21/10	3974.27	51.88	53.46	1.58	3922.15
MW - 5	11/04/10	3974.27	51.86	52.77	0.91	3922.27
MW - 5	11/10/10	3974.27	51.88	53.43	1.55	3922.16
MW - 5	12/01/10	3974.27	51.70	52.44	0.74	3922.46
MW - 5	12/08/10	3974.27	51.85	52.77	0.92	3922.28
MW - 5	01/26/11	3974.27	51.59	52.51	0.92	3922.54
MW - 5	02/28/11	3974.27	51.86	53.46	1.60	3922.17
MW - 5	03/04/11	3974.27	51.66	52.44	0.78	3922.49
MW - 5	03/09/11	3974.27	51.75	53.12	1.37	3922.31
MW - 5	04/28/11	3974.27	51.74	52.91	1.17	3922.35
MW - 5	05/04/11	3974.27	51.70	52.90	1.20	3922.39
MW - 5	05/11/11	3974.27	51.69	52.82	1.13	3922.41
MW - 5	05/12/11	3974.27	51.62	52.61	0.99	3922.50
MW - 5	05/18/11	3974.27	51.64	52.75	1.11	3922.46
MW - 5	05/23/11	3974.27	51.76	52.88	1.12	3922.34
MW - 5	06/08/11	3974.27	51.72	53.19	1.47	3922.33

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	06/16/11	3974.27	51.73	53.02	1.29	3922.35
MW - 5	06/22/11	3974.27	51.68	52.88	1.20	3922.41
MW - 5	06/30/11	3974.27	51.64	53.20	1.56	3922.40
MW - 5	07/06/11	3974.27	51.57	52.79	1.22	3922.52
MW - 5	07/13/11	3974.27	51.68	53.12	1.44	3922.37
MW - 5	07/15/11	3974.27	51.75	53.20	1.45	3922.30
MW - 5	07/19/11	3974.27	51.60	52.53	0.93	3922.53
MW - 5	07/21/11	3974.27	51.61	52.80	1.19	3922.48
MW - 5	07/26/11	3974.27	51.76	52.68	0.92	3922.37
MW - 5	07/28/11	3974.27	51.73	52.97	1.24	3922.35
MW - 5	08/02/11	3974.27	51.88	53.58	1.70	3922.14
MW - 5	08/09/11	3974.27	51.82	53.30	1.48	3922.23
MW - 5	08/12/11	3974.27	51.84	52.96	1.12	3922.26
MW - 5	08/15/11	3974.27	51.84	52.96	1.12	3922.26
MW - 5	08/16/11	3974.27	51.66	52.63	0.97	3922.46
MW - 5	08/19/11	3974.27	51.73	52.55	0.82	3922.42
MW - 5	08/23/11	3974.27	51.74	52.75	1.01	3922.38
MW - 5	08/26/11	3974.27	51.78	53.05	1.27	3922.30
MW - 5	08/30/11	3974.27	51.60	52.50	0.90	3922.54
MW - 5	09/01/11	3974.27	51.65	52.16	0.51	3922.54
MW - 5	09/08/11	3974.27	51.80	53.37	1.57	3922.23
MW - 5	09/13/11	3974.27	51.72	53.04	1.32	3922.35
MW - 5	09/15/11	3974.27	51.81	53.17	1.36	3922.26
MW - 5	09/22/11	3974.27	51.61	52.40	0.79	3922.54
MW - 5	10/06/11	3974.27	51.72	52.82	1.10	3922.39
MW - 5	10/11/11	3974.27	51.81	52.96	1.15	3922.29
MW - 5	10/13/11	3974.27	51.87	53.61	1.74	3922.14
MW - 5	10/26/11	3974.27	51.81	53.23	1.42	3922.25
MW - 5	11/22/11	3974.27	51.76	52.83	1.07	3922.35
MW - 5	12/02/11	3974.27	51.59	52.56	0.97	3922.53
MW - 5	12/29/11	3974.27	51.59	52.59	1.00	3922.53
MW - 5	01/26/12	3974.27	51.65	52.82	1.17	3922.44
MW - 5	01/31/12	3974.27	51.68	52.87	1.19	3922.41
MW - 5	02/15/12	3974.27	51.59	52.57	0.98	3922.53
MW - 5	02/28/12	3974.27	51.63	52.70	1.07	3922.48
MW - 5	03/20/12	3974.27	51.72	53.18	1.46	3922.33
MW - 5	03/27/12	3974.27	51.67	53.00	1.33	3922.40
MW - 5	04/10/12	3974.27	51.74	53.11	1.37	3922.32
MW - 5	04/19/12	3974.27	51.67	52.96	1.29	3922.41
MW - 5	04/26/12	3974.27	51.69	52.40	0.71	3922.47
MW - 5	05/08/12	3974.27	51.69	52.40	0.71	3922.47
MW - 5	05/15/12	3974.27	51.58	52.71	1.13	3922.52
MW - 5	05/17/12	3974.27	51.56	52.70	1.14	3922.54

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	06/05/12	3974.27	51.68	53.12	1.44	3922.37
MW - 5	06/21/12	3974.27	51.68	53.24	1.56	3922.36
MW - 5	06/28/12	3974.27	51.67	53.29	1.62	3922.36
MW - 5	07/17/12	3974.27	51.90	52.61	0.71	3922.26
MW - 5	08/01/12	3974.27	51.68	52.81	1.13	3922.42
MW - 5	10/02/12	3974.27	51.69	53.16	1.47	3922.36
MW - 5	10/09/12	3974.27	51.67	53.20	1.53	3922.37
MW - 5	10/16/12	3974.27	51.67	53.09	1.42	3922.39
MW - 5	10/25/12	3974.27	51.67	53.21	1.54	3922.37
MW - 5	10/30/12	3974.27	51.68	53.20	1.52	3922.36
MW - 5	11/29/12	3974.27	51.69	53.54	1.85	3922.30
MW - 5	12/14/12	3974.27	51.70	53.26	1.56	3922.34
MW - 5	02/11/13	3974.27	51.67	53.02	1.35	3922.40
MW - 5	04/11/13	3974.27	51.82	53.84	2.02	3922.15
MW - 5	04/15/13	3974.27	51.85	53.78	1.93	3922.13
MW - 5	04/22/13	3974.27	51.65	53.14	1.49	3922.40
MW - 5	05/06/13	3974.27	51.68	53.16	1.48	3922.37
MW - 5	05/09/13	3974.27	51.67	53.18	1.51	3922.37
MW - 5	05/20/13	3974.27	51.67	53.23	1.56	3922.37
MW - 5	05/24/13	3974.27	51.74	53.86	2.12	3922.21
MW - 5	05/29/13	3974.27	51.66	53.25	1.59	3922.37
MW - 5	05/31/13	3974.27	51.74	53.40	1.66	3922.28
MW - 5	06/07/13	3974.27	51.98	53.99	2.01	3921.99
MW - 5	06/12/13	3974.27	51.93	53.88	1.95	3922.05
MW - 5	06/14/13	3974.27	51.42	53.62	2.20	3922.52
MW - 5	06/19/13	3974.27	51.96	53.88	1.92	3922.02
MW - 5	06/21/13	3974.27	52.01	53.76	1.75	3922.00
MW - 5	06/25/13	3974.27	51.73	52.71	0.98	3922.39
MW - 5	06/26/13	3974.27	51.85	53.57	1.72	3922.16
MW - 5	07/03/13	3974.27	52.03	53.89	1.86	3921.96
MW - 5	07/09/13	3974.27	52.00	54.19	2.19	3921.94
MW - 5	07/11/13	3974.27	51.98	54.00	2.02	3921.99
MW - 5	07/24/13	3974.27	51.95	52.87	0.92	3922.18
MW - 5	07/26/13	3974.27	51.89	53.65	1.76	3922.12
MW - 5	07/31/13	3974.27	51.73	53.38	1.65	3922.29
MW - 5	08/02/13	3974.27	51.93	53.71	1.78	3922.07
MW - 5	08/06/13	3974.27	51.76	53.33	1.57	3922.27
MW - 5	08/14/13	3974.27	51.78	53.42	1.64	3922.24
MW - 5	08/21/13	3974.27	51.92	53.75	1.83	3922.08
MW - 5	08/26/13	3974.27	51.89	53.56	1.67	3922.13
MW - 5	09/06/13	3974.27	51.91	53.75	1.84	3922.08
MW - 5	08/30/13	3974.27	51.77	53.32	1.55	3922.27
MW - 5	09/13/13	3974.27	51.83	53.27	1.44	3922.22

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	09/27/13	3974.27	51.86	53.67	1.81	3922.14
MW - 5	09/30/13	3974.27	51.80	53.52	1.72	3922.21
MW - 5	10/02/13	3974.27	51.94	53.85	1.91	3922.04
MW - 5	10/03/13	3974.27	51.89	53.15	1.26	3922.19
MW - 5	10/11/13	3974.27	51.77	53.33	1.56	3922.27
MW - 5	10/17/13	3974.27	51.77	53.39	1.62	3922.26
MW - 5	10/22/13	3974.27	51.76	53.41	1.65	3922.26
MW - 5	10/24/13	3974.27	51.88	53.71	1.83	3922.12
MW - 5	11/01/13	3974.27	51.80	53.25	1.45	3922.25
MW - 5	11/04/13	3974.27	51.80	53.36	1.56	3922.24
MW - 5	11/08/13	3974.27	51.95	54.00	2.05	3922.01
MW - 5	11/13/13	3974.27	51.77	53.35	1.58	3922.26
MW - 5	11/15/13	3974.27	51.76	53.36	1.60	3922.27
MW - 5	11/18/13	3974.27	51.79	53.45	1.66	3922.23
MW - 5	12/12/13	3974.27	51.80	53.55	1.75	3922.21
MW - 5	12/16/13	3974.27	51.80	53.53	1.73	3922.21
MW - 5	12/18/13	3974.27	51.81	53.54	1.73	3922.20
MW - 5	12/23/13	3974.27	51.84	53.58	1.74	3922.17
MW - 5	12/30/13	3974.27	51.81	53.45	1.64	3922.21
MW - 5	01/01/14	3974.27	51.65	53.76	2.11	3922.30
MW - 5	01/06/14	3974.27	51.73	53.43	1.70	3922.29
MW - 5	01/15/14	3974.27	51.88	53.55	1.67	3922.14
MW - 5	01/17/14	3974.27	51.80	53.32	1.52	3922.24
MW - 5	01/20/14	3974.27	52.01	54.13	2.12	3921.94
MW - 5	01/22/14	3974.27	52.23	54.19	1.96	3921.75
MW - 5	01/29/14	3974.27	51.80	53.50	1.70	3922.22
MW - 5	02/04/14	3974.27	51.76	53.54	1.78	3922.24
MW - 5	02/13/14	3974.27	51.78	53.58	1.80	3922.22
MW - 5	02/21/14	3974.27	52.00	54.28	2.28	3921.93
MW - 5	02/26/14	3974.27	52.04	54.30	2.26	3921.89
MW - 5	03/12/14	3974.27	51.86	53.71	1.85	3922.13
MW - 5	03/14/14	3974.27	51.84	53.64	1.80	3922.16
MW - 5	03/17/14	3974.27	51.86	53.66	1.80	3922.14
MW - 5	03/24/14	3974.27	52.26	54.10	1.84	3921.73
MW - 5	03/26/14	3974.27	52.44	54.02	1.58	3921.59
MW - 5	04/09/14	3974.27	51.78	53.42	1.64	3922.24
MW - 5	04/18/14	3974.27	51.79	53.42	1.63	3922.24
MW - 5	04/21/14	3974.27	51.78	53.47	1.69	3922.24
MW - 5	04/28/14	3974.27	51.77	53.53	1.76	3922.24
MW - 5	05/09/14	3974.27	51.88	53.76	1.88	3922.11
MW - 5	05/12/14	3974.27	51.91	53.90	1.99	3922.06
MW - 5	05/19/14	3974.27	51.81	53.73	1.92	3922.17
MW - 5	05/28/14	3974.27	51.85	53.76	1.91	3922.13

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	06/04/14	3974.27	51.89	53.86	1.97	3922.08
MW - 5	06/13/14	3974.27	51.88	53.86	1.98	3922.09
MW - 5	06/16/14	3974.27	51.83	53.37	1.54	3922.21
MW - 5	07/02/14	3974.27	51.80	53.66	1.86	3922.19
MW - 5	07/07/14	3974.27	51.81	53.70	1.89	3922.18
MW - 5	07/18/14	3974.27	51.98	54.15	2.17	3921.96
MW - 5	07/30/14	3974.27	51.86	53.54	1.68	3922.16
MW - 5	08/11/14	3974.27	51.87	53.67	1.80	3922.13
MW - 5	08/22/14	3974.27	51.89	53.65	1.76	3922.12
MW - 5	08/23/14	3974.27	51.89	53.65	1.76	3922.12
MW - 5	09/10/14	3974.27	51.90	53.96	2.06	3922.06
MW - 5	09/23/14	3974.27	51.92	53.96	2.04	3922.04
MW - 5	09/25/14	3974.27	52.18	54.45	2.27	3921.75
MW - 5	10/03/14	3974.27	51.98	53.96	1.98	3921.99
MW - 5	10/15/14	3974.27	51.49	53.79	2.30	3922.44
MW - 5	10/17/14	3974.27	52.02	54.34	2.32	3921.90
MW - 5	10/24/14	3974.27	52.08	54.12	2.04	3921.88
MW - 5	10/27/14	3974.27	52.06	54.10	2.04	3921.90
MW - 5	10/31/14	3974.27	51.72	53.80	2.08	3922.24
MW - 5	11/03/14	3974.27	51.69	55.75	4.06	3921.97
MW - 5	11/10/14	3974.27	51.87	54.20	2.33	3922.05
MW - 5	11/14/14	3974.27	51.85	53.59	1.74	3922.16
MW - 5	11/17/14	3974.27	51.91	53.47	1.56	3922.13
MW - 5	11/18/14	3974.27	51.91	53.47	1.56	3922.13
MW - 5	11/21/14	3974.27	51.93	53.51	1.58	3922.10
MW - 5	12/03/14	3974.27	51.88	53.69	1.81	3922.12
MW - 5	12/05/14	3974.27	51.90	53.54	1.64	3922.12
MW - 5	12/12/14	3974.27	51.92	53.50	1.58	3922.11
MW - 5	12/15/14	3974.27	51.92	53.50	1.58	3922.11
MW - 5	12/19/14	3974.27	51.94	53.52	1.58	3922.09
MW - 5	12/22/14	3974.27	51.90	53.47	1.57	3922.13
MW - 5	01/05/15	3974.27	51.88	53.42	1.54	3922.16
MW - 5	01/09/15	3974.27	51.86	53.63	1.77	3922.14
MW - 5	01/14/15	3974.27	51.86	53.65	1.79	3922.14
MW - 5	1/21/2015	3974.27	51.86	53.40	1.54	3922.18
MW - 5	02/18/15	3974.27	51.95	53.69	1.74	3922.06
MW - 5	02/19/15	3974.27	51.92	53.30	1.38	3922.14
MW - 5	03/09/15	3974.27	51.87	53.38	1.51	3922.17
MW - 5	03/11/15	3974.27	51.85	53.58	1.73	3922.16
MW - 5	03/18/15	3974.27	51.85	53.52	1.67	3922.17
MW - 5	03/31/15	3974.27	51.88	53.42	1.54	3922.16
MW - 5	04/09/15	3974.27	51.84	53.46	1.62	3922.19
MW - 5	04/15/15	3974.27	51.83	53.51	1.68	3922.19



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	04/22/15	3974.27	51.83	53.55	1.72	3922.18
MW - 5	05/12/15	3974.27	51.84	53.58	1.74	3922.17
MW - 5	05/26/15	3974.27	51.84	53.37	1.53	3922.20
MW - 5	06/01/15	3974.27	51.85	53.58	1.73	3922.16
MW - 5	06/04/15	3974.27	51.84	53.67	1.83	3922.16
MW - 5	06/22/15	3974.27	51.95	54.00	2.05	3922.01
MW - 5	06/26/15	3974.27	52.10	53.93	1.83	3921.90
MW - 5	07/22/15	3974.27	52.02	53.53	1.51	3922.02
MW - 5	07/27/15	3974.27	52.08	53.83	1.75	3921.93
MW - 5	08/18/15	3974.27	51.85	53.31	1.46	3922.20
MW - 5	09/09/15	3974.27	52.00	54.15	2.15	3921.95
MW - 5	09/30/15	3974.27	52.14	54.50	2.36	3921.78
MW - 5	10/08/15	3974.27	51.98	53.90	1.92	3922.00
MW - 5	10/16/15	3974.27	52.08	54.27	2.19	3921.86
MW - 5	10/21/15	3974.27	52.50	53.84	1.34	3921.57
MW - 5	11/18/15	3974.27	52.03	53.95	1.92	3921.95
MW - 5	11/23/15	3974.27	51.94	53.52	1.58	3922.09
MW - 5	12/04/15	3974.27	51.85	53.69	1.84	3922.14
MW - 5	12/09/15	3974.27	52.14	54.19	2.05	3921.82
MW - 5	01/12/16	3974.27	51.90	53.83	1.93	3922.08
MW - 5	01/22/16	3974.27	51.93	53.65	1.72	3922.08
MW - 5	01/25/16	3974.27	52.00	53.80	1.80	3922.00
MW - 5	02/12/16	3974.27	52.03	54.13	2.10	3921.93
MW - 5	02/17/16	3974.27	52.00	53.86	1.86	3921.99
MW - 5	02/24/16	3974.27	51.90	53.58	1.68	3922.12
MW - 5	03/09/16	3974.27	52.01	54.11	2.10	3921.95
MW - 5	03/30/16	3974.27	52.03	54.07	2.04	3921.93
MW - 5	04/13/16	3974.27	52.00	54.09	2.09	3921.96
MW - 5	04/27/16	3974.27	52.01	54.00	1.99	3921.96
MW - 5	05/11/16	3974.27	51.99	53.96	1.97	3921.98
MW - 5	06/03/16	3974.27	52.02	54.13	2.11	3921.93
MW - 5	06/13/16	3974.27	51.91	53.61	1.70	3922.11
MW - 5	07/01/16	3974.27	52.05	53.93	1.88	3921.94
MW - 5	07/08/16	3974.27	51.98	53.87	1.89	3922.01
MW - 5	07/12/16	3974.27	51.95	53.06	1.11	3922.15
MW - 5	07/18/16	3974.27	51.99	53.83	1.84	3922.00
MW - 5	08/02/16	3974.27	52.00	53.48	1.48	3922.05
MW - 5	08/12/16	3974.27	52.12	54.18	2.06	3921.84
MW - 5	08/17/16	3974.27	51.97	53.94	1.97	3922.00
MW - 5	09/21/16	3974.27	51.95	53.82	1.87	3922.04
MW - 5	10/21/16	3974.27	51.92	53.73	1.81	3922.08
MW - 5	10/24/16	3974.27	52.08	54.12	2.04	3921.88
MW - 5	10/26/16	3974.27	52.39	52.52	0.13	3921.86

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	10/31/16	3974.27	52.06	54.09	2.03	3921.91
MW - 5	11/21/16	3974.27	52.45	52.66	0.21	3921.79
MW - 5	11/28/16	3974.27	51.90	53.87	1.97	3922.07
MW - 5	12/07/16	3974.27	52.09	54.46	2.37	3921.82
MW - 5	12/14/16	3974.27	52.09	54.19	2.10	3921.87
MW - 5	12/21/16	3974.27	51.92	53.76	1.84	3922.07
MW - 5	01/04/17	3974.27	51.90	53.86	1.96	3922.08
MW - 5	01/12/17	3974.27	51.90	53.88	1.98	3922.07
MW - 5	01/26/17	3974.27	52.03	53.45	1.42	3922.03
MW - 5	02/07/17	3974.27	51.95	54.00	2.05	3922.01
MW - 5	02/21/17	3974.27	51.90	53.84	1.94	3922.08
MW - 5	02/23/17	3974.27	51.89	53.79	1.90	3922.10
MW - 5	03/08/17	3974.27	52.02	53.95	1.93	3921.96
MW - 5	04/07/17	3974.27	51.88	53.81	1.93	3922.10
MW - 5	04/18/17	3974.27	51.88	53.84	1.96	3922.10
MW - 5	05/10/17	3974.27	51.98	54.20	2.22	3921.96
MW - 5	05/24/17	3974.27	51.62	54.72	3.10	3922.19
MW - 5	06/02/17	3974.27	51.82	53.80	1.98	3922.15
MW - 5	07/12/17	3974.27	52.04	54.15	2.11	3921.91
MW - 5	07/19/17	3974.27	52.05	53.94	1.89	3921.94
MW - 5	07/27/17	3974.27	51.93	53.85	1.92	3922.05
MW - 5	08/11/17	3974.27	52.01	54.10	2.09	3921.95
MW - 5	08/24/17	3974.27	51.95	53.98	2.03	3922.02
MW - 5	09/05/17	3974.27	51.97	54.04	2.07	3921.99
MW - 5	10/18/17	3974.27	52.01	54.21	2.20	3921.93
MW - 5	10/25/17	3974.27	52.01	53.94	1.93	3921.97
MW - 5	10/25/17	3974.27	51.97	54.05	2.08	3921.99
MW - 5	11/01/17	3974.27	51.99	53.96	1.97	3921.98
MW - 5	11/08/17	3974.27	51.97	54.05	2.08	3921.99
MW - 5	11/28/17	3974.27	51.99	54.08	2.09	3921.97
MW - 5	12/19/17	3974.27	51.97	54.09	2.12	3921.98
MW - 5	01/16/18	3974.27	51.97	54.15	2.18	3921.97
MW - 5	01/30/18	3974.27	51.96	54.05	2.09	3922.00
MW - 5	02/06/18	3974.27	51.98	54.11	2.13	3921.97
MW - 5	02/13/18	3974.27	52.01	54.12	2.11	3921.94
MW - 5	02/26/18	3974.27	51.99	53.96	1.97	3921.98
MW - 5	04/03/18	3974.27	51.98	53.91	1.93	3922.00
MW - 5	04/17/18	3974.27	51.95	53.97	2.02	3922.02
MW - 5	05/07/18	3974.27	52.08	54.14	2.06	3921.88
MW - 5	06/21/18	3974.27	51.99	54.20	2.21	3921.95
MW - 5	06/26/18	3974.27	52.00	54.19	2.19	3921.94
MW - 5	07/12/18	3974.27	52.01	54.32	2.31	3921.91
MW - 5	07/17/18	3974.27	52.00	54.22	2.22	3921.94

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	08/01/18	3974.27	52.02	54.16	2.14	3921.93
MW - 5	08/09/18	3974.27	52.02	54.27	2.25	3921.91
MW - 5	08/23/18	3974.27	52.02	54.31	2.29	3921.91
MW - 5	08/30/18	3974.27	52.04	53.16	1.12	3922.06
MW - 5	08/31/18	3974.27	52.04	54.29	2.25	3921.89
MW - 5	09/11/18	3974.27	52.11	54.07	1.96	3921.87
MW - 5	09/19/18	3974.27	52.04	53.98	1.94	3921.94
MW - 5	10/16/18	3974.27	52.06	54.28	2.22	3921.88
MW - 5	11/01/18	3974.27	52.08	54.16	2.08	3921.88
MW - 5	11/05/18	3974.27	52.06	54.11	2.05	3921.90
MW - 5	11/14/18	3974.27	52.05	54.14	2.09	3921.91
MW - 5	12/04/18	3974.27	52.07	54.19	2.12	3921.88
MW - 5	12/06/18	3974.27	52.04	54.11	2.07	3921.92
MW - 5	12/18/18	3974.27	52.08	54.29	2.21	3921.86
MW - 5	12/20/18	3974.27	52.07	54.35	2.28	3921.86
MW - 5	12/26/18	3974.27	52.05	54.25	2.20	3921.89
MW - 5	01/08/19	3974.27	52.06	54.31	2.25	3921.87
MW - 5	01/10/19	3974.27	52.08	54.29	2.21	3921.86
MW - 5	01/15/19	3974.27	52.11	54.21	2.10	3921.85
MW - 5	01/24/19	3974.27	52.33	53.98	1.65	3921.69
MW - 5	02/11/19	3974.27	52.27	54.02	1.75	3921.74
MW - 5	02/18/19	3974.27	52.00	54.03	2.03	3921.97
MW - 5	04/16/19	3974.27	52.19	53.96	1.77	3921.81
MW - 5	04/23/19	3974.27	52.16	55.02	2.86	3921.68
MW - 5	04/30/19	3974.27	52.03	54.41	2.38	3921.88
MW - 5	05/07/19	3974.27	52.10	54.03	1.93	3921.88
MW - 5	05/09/19	3974.27	52.62	53.96	1.34	3921.45
MW - 5	05/14/19	3974.27	51.98	53.95	1.97	3921.99
MW - 5	06/04/19	3974.27	52.23	54.29	2.06	3921.73
MW - 5	06/11/19	3974.27	52.39	54.35	1.96	3921.59
MW - 5	06/13/19	3974.27	52.28	54.27	1.99	3921.69
MW - 5	06/17/19	3974.27	52.05	54.06	2.01	3921.92
MW - 5	07/01/19	3974.27	52.02	54.31	2.29	3921.91
MW - 5	07/02/19	3974.27	52.10	54.19	2.09	3921.86
MW - 5	08/19/19	3974.27	52.11	54.16	2.05	3921.85
MW - 5	08/29/19	3974.27	52.16	54.21	2.05	3921.80
MW - 5	09/03/19	3974.27	52.12	53.28	1.16	3921.98
MW - 5	09/10/19	3974.27	52.13	53.27	1.14	3921.97
MW - 5	10/01/19	3974.27	52.13	53.25	1.12	3921.97
MW - 5	10/22/19	3974.27	52.25	53.38	1.13	3921.85
MW - 5	11/11/19	3974.27	52.17	54.21	2.04	3921.79
MW - 5	11/15/19	3974.27	52.10	55.12	3.02	3921.72
MW - 5	01/08/20	3974.27	52.05	55.10	3.05	3921.76

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	02/13/20	3974.27	52.19	54.43	2.24	3921.74
MW - 5	02/18/20	3974.27	52.08	54.84	2.76	3921.78
MW - 5	05/05/20	3974.27	52.08	55.01	2.93	3921.75
MW - 5	06/11/20	3974.27	52.08	55.16	3.08	3921.73
MW - 5	09/23/20	3974.27	52.17	55.34	3.17	3921.62
MW - 5	12/04/20	3974.27	52.18	55.42	3.24	3921.60
MW - 5	03/23/21	3974.27	52.18	55.58	3.40	3921.58
MW - 5	06/04/21	3974.27	52.16	55.67	3.51	3921.58
MW - 5	08/12/21	3974.27	52.26	55.87	3.61	3921.47
MW - 5	09/30/21	3974.27	52.29	55.93	3.64	3921.43
MW - 5	12/09/21	3974.27	52.38	55.45	3.07	3921.43
MW - 5	02/17/22	3974.27	52.32	55.99	3.67	3921.40
MW - 5	03/08/22	3974.27	52.30	56.03	3.73	3921.41
MW - 5	05/18/22	3974.27	52.33	56.12	3.79	3921.37
MW - 5	06/21/22	3974.27	52.43	56.05	3.62	3921.30
MW - 5	06/30/22	3974.27	52.49	55.79	3.30	3921.29
MW - 5	07/20/22	3974.27	52.30	56.39	4.09	3921.36
MW - 5	07/26/22	3974.27	52.44	56.14	3.70	3921.28
MW - 5	08/09/22	3974.27	52.40	56.16	3.76	3921.31
MW - 5	09/23/22	3974.27	52.44	55.99	3.55	3921.30
MW - 5	09/27/22	3974.27	52.53	56.00	3.47	3921.22
MW - 5	10/06/22	3974.27	52.48	56.26	3.78	3921.22
MW - 5	10/12/22	3974.27	52.52	56.09	3.57	3921.21
MW - 5	11/02/22	3974.27	52.27	56.47	4.20	3921.37
MW - 5	11/15/22	3974.27	52.48	56.22	3.74	3921.23
MW - 5	01/06/23	3974.27	52.60	56.20	3.60	3921.13
MW - 5	01/12/23	3974.27	52.61	56.00	3.39	3921.15
MW - 5	01/16/23	3974.27	52.65	55.80	3.15	3921.15
MW - 5	02/14/23	3974.27	52.55	56.08	3.53	3921.19
MW - 5	03/21/23	3974.27	52.62	56.15	3.53	3921.12
MW - 5	03/28/23	3974.27	52.62	56.00	3.38	3921.14
MW - 5	04/04/23	3974.27	52.61	56.00	3.39	3921.15
MW - 5	04/20/23	3974.27	52.62	56.07	3.45	3921.13
MW - 5	04/27/23	3974.27	52.61	55.91	3.30	3921.17
MW - 5	05/16/23	3974.27	52.52	56.22	3.70	3921.20
MW - 5	06/12/23	3974.27	52.60	56.15	3.55	3921.14
MW - 5	06/22/23	3974.27	52.64	56.19	3.55	3921.10
MW - 5	07/03/23	3974.27	52.65	56.17	3.52	3921.09
MW - 5	07/17/23	3974.27	52.65	56.18	3.53	3921.09
MW - 5	07/28/23	3974.27	52.59	56.29	3.70	3921.13
MW - 5	08/07/23	3974.27	52.38	56.59	4.21	3921.26
MW - 5	08/08/23	3974.27	52.58	56.40	3.82	3921.12
MW - 5	09/18/23	3974.27	52.62	56.45	3.83	3921.08

TABLE 7

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	10/11/23	3974.27	52.58	56.63	4.05	3921.08
MW - 5	12/07/23	3974.27	52.62	56.62	4.00	3921.05
MW - 6	03/02/00	3974.72	53.10	53.84	0.74	3921.51
MW - 6	04/25/00	3974.72	53.14	53.91	0.77	3921.46
MW - 6	09/06/00	3974.72	52.81	55.87	3.06	3921.45
MW - 6	11/28/00	3974.72	52.91	55.62	2.71	3921.40
MW - 6	02/21/01	3974.72	52.79	55.42	2.63	3921.54
MW - 6	05/31/01	3974.72	52.95	54.83	1.88	3921.49
MW - 6	08/23/01	3974.72	52.69	55.95	3.26	3921.54
MW - 6	11/21/01	3974.72	53.42	55.42	2.00	3921.00
MW - 6	02/13/02	3974.72	52.74	56.04	3.30	3921.49
MW - 6	06/12/02	3974.72	52.63	56.16	3.53	3921.56
MW - 6	08/26/02	3974.72	52.67	56.24	3.57	3921.51
MW - 6	11/08/02	3974.72	53.03	55.06	2.03	3921.39
MW - 6	11/21/02	3974.72	53.10	54.57	1.47	3921.40
MW - 6	12/27/02	3974.72	52.95	54.97	2.02	3921.47
MW - 6	01/06/03	3974.72	52.90	55.38	2.48	3921.45
MW - 6	01/08/03	3974.72	52.88	55.42	2.54	3921.46
MW - 6	01/10/03	3974.72	52.86	55.86	3.00	3921.41
MW - 6	01/13/03	3974.72	52.85	55.55	2.70	3921.47
MW - 6	02/05/03	3974.72	52.80	55.81	3.01	3921.47
MW - 6	02/26/03	3974.72	52.71	56.09	3.38	3921.50
MW - 6	03/04/03	3974.72	52.72	56.09	3.37	3921.49
MW - 6	03/12/03	3974.72	52.73	56.18	3.45	3921.47
MW - 6	03/18/03	3974.72	52.71	56.25	3.54	3921.48
MW - 6	03/25/03	3974.72	52.71	56.18	3.47	3921.49
MW - 6	03/31/03	3974.72	52.69	56.21	3.52	3921.50
MW - 6	04/09/03	3974.72	52.73	53.02	0.29	3921.95
MW - 6	04/14/03	3974.72	52.61	53.00	0.39	3922.05
MW - 6	05/07/03	3974.72	52.92	56.21	3.29	3921.31
MW - 6	05/08/03	3974.72	52.75	56.04	3.29	3921.48
MW - 6	05/13/03	3974.72	52.80	59.21	6.41	3920.96
MW - 6	05/21/03	3974.72	52.73	56.11	3.38	3921.48
MW - 6	05/27/03	3974.72	53.12	56.50	3.38	3921.09
MW - 6	05/28/03	3974.72	53.20	56.65	3.45	3921.00
MW - 6	06/03/03	3974.72	53.19	56.68	3.49	3921.01
MW - 6	06/10/03	3974.72	52.73	56.25	3.52	3921.46
MW - 6	07/01/03	3974.72	52.77	56.31	3.54	3921.42
MW - 6	07/08/03	3974.72	52.77	56.40	3.63	3921.41
MW - 6	07/30/03	3974.72	52.62	56.23	3.61	3921.56
MW - 6	08/04/03	3974.72	52.40	56.45	4.05	3921.71
MW - 6	08/18/03	3974.72	52.97	54.18	1.21	3921.57

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	08/25/03	3974.72	53.40	57.02	3.62	3920.78
MW - 6	10/01/03	3974.72	52.77	54.90	2.13	3921.63
MW - 6	10/06/03	3974.72	52.72	56.26	3.54	3921.47
MW - 6	10/08/03	3974.72	53.05	56.62	3.57	3921.13
MW - 6	10/15/03	3974.72	53.47	57.10	3.63	3920.71
MW - 6	11/12/03	3974.72	53.11	55.91	2.80	3921.19
MW - 6	11/19/03	3974.72	53.12	56.70	3.58	3921.06
MW - 6	12/01/03	3974.72	53.08	56.70	3.62	3921.10
MW - 6	12/10/03	3974.72	52.82	56.33	3.51	3921.37
MW - 6	02/05/04	3974.72	53.63	57.18	3.55	3920.56
MW - 6	02/17/04	3974.72	52.89	56.34	3.45	3921.31
MW - 6	02/25/04	3974.72	53.60	57.13	3.53	3920.59
MW - 6	03/09/04	3974.72	52.91	56.40	3.49	3921.29
MW - 6	03/16/04	3974.72	53.14	54.19	1.05	3921.42
MW - 6	03/22/04	3974.72	53.04	55.22	2.18	3921.35
MW - 6	04/07/04	3974.72	53.14	53.69	0.55	3921.50
MW - 6	04/12/04	3974.72	53.50	56.43	2.93	3920.78
MW - 6	04/19/04	3974.72	53.10	53.49	0.39	3921.56
MW - 6	05/05/04	3974.72	53.04	56.06	3.02	3921.23
MW - 6	05/11/04	3974.72	52.19	56.21	4.02	3921.93
MW - 6	06/07/04	3974.72	52.77	55.87	3.10	3921.49
MW - 6	06/15/04	3974.72	52.78	55.90	3.12	3921.47
MW - 6	06/20/04	3974.72	52.78	55.90	3.12	3921.47
MW - 6	06/21/04	3974.72	52.77	55.77	3.00	3921.50
MW - 6	06/28/04	3974.72	52.77	55.91	3.14	3921.48
MW - 6	07/08/04	3974.72	52.75	55.87	3.12	3921.50
MW - 6	07/12/04	3974.72	52.76	55.90	3.14	3921.49
MW - 6	08/06/04	3974.72	52.83	55.80	2.97	3921.44
MW - 6	08/12/04	3974.72	52.85	55.82	2.97	3921.42
MW - 6	08/17/04	3974.72	52.77	55.94	3.17	3921.47
MW - 6	09/01/04	3974.72	53.21	54.22	1.01	3921.36
MW - 6	09/03/04	3974.72	53.31	54.02	0.71	3921.30
MW - 6	09/08/04	3974.72	52.16	53.52	1.36	3922.36
MW - 6	09/14/04	3974.72	53.20	54.26	1.06	3921.36
MW - 6	09/22/04	3974.72	53.22	54.14	0.92	3921.36
MW - 6	10/01/04	3974.72	53.10	54.89	1.79	3921.35
MW - 6	10/08/04	3974.72	53.25	54.05	0.80	3921.35
MW - 6	10/15/04	3974.72	53.11	53.88	0.77	3921.49
MW - 6	10/22/04	3974.72	53.05	54.55	1.50	3921.45
MW - 6	11/12/04	3974.72	53.22	54.16	0.94	3921.36
MW - 6	11/26/04	3974.72	53.11	54.55	1.44	3921.39
MW - 6	12/02/04	3974.72	53.79	55.20	1.41	3920.72
MW - 6	12/06/04	3974.72	53.87	54.96	1.09	3920.69

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	12/13/04	3974.72	53.51	54.51	1.00	3921.06
MW - 6	12/15/04	3974.72	53.51	54.51	1.00	3921.06
MW - 6	12/27/04	3974.72	53.85	55.60	1.75	3920.61
MW - 6	01/10/05	3974.72	53.02	54.20	1.18	3921.52
MW - 6	01/18/05	3974.72	52.96	54.49	1.53	3921.53
MW - 6	01/18/05	3974.72	53.14	53.52	0.38	3921.52
MW - 6	01/25/05	3974.72	53.08	53.78	0.70	3921.54
MW - 6	01/27/05	3974.72	53.21	53.42	0.21	3921.48
MW - 6	02/01/05	3974.72	53.19	53.51	0.32	3921.48
MW - 6	02/07/05	3974.72	53.14	53.54	0.40	3921.52
MW - 6	02/11/05	3974.72	53.15	53.55	0.40	3921.51
MW - 6	02/15/05	3974.72	53.10	53.52	0.42	3921.56
MW - 6	02/22/05	3974.72	53.09	53.58	0.49	3921.56
MW - 6	02/24/05	3974.72	53.08	53.65	0.57	3921.55
MW - 6	03/03/05	3974.72	53.02	53.61	0.59	3921.61
MW - 6	03/09/05	3974.72	53.02	53.64	0.62	3921.61
MW - 6	03/22/05	3974.72	53.57	54.20	0.63	3921.06
MW - 6	03/24/05	3974.72	53.57	54.20	0.63	3921.06
MW - 6	03/31/05	3974.72	53.60	54.20	0.60	3921.03
MW - 6	06/22/05	3974.72	52.91	53.92	1.01	3921.66
MW - 6	07/21/05	3974.72	52.80	53.80	1.00	3921.77
MW - 6	08/03/05	3974.72	52.82	53.70	0.88	3921.77
MW - 6	08/12/05	3974.72	52.87	53.62	0.75	3921.74
MW - 6	08/15/05	3974.72	52.91	53.30	0.39	3921.75
MW - 6	08/22/05	3974.72	52.70	53.69	0.99	3921.87
MW - 6	09/07/05	3974.72	52.67	54.31	1.64	3921.80
MW - 6	09/14/05	3974.72	52.78	53.31	0.53	3921.86
MW - 6	09/20/05	3974.72	52.75	53.91	1.16	3921.80
MW - 6	09/21/05	3974.72	52.76	53.54	0.78	3921.84
MW - 6	09/28/05	3974.72	52.70	54.00	1.30	3921.83
MW - 6	10/06/05	3974.72	52.80	53.66	0.86	3921.79
MW - 6	10/13/05	3974.72	52.80	53.51	0.71	3921.81
MW - 6	10/20/05	3974.72	52.84	53.81	0.97	3921.73
MW - 6	10/26/05	3974.72	52.83	53.42	0.59	3921.80
MW - 6	11/03/05	3974.72	52.73	53.70	0.97	3921.84
MW - 6	11/10/05	3974.72	52.68	53.99	1.31	3921.84
MW - 6	11/16/05	3974.72	52.79	53.50	0.71	3921.82
MW - 6	11/23/05	3974.72	52.80	53.45	0.65	3921.82
MW - 6	11/28/05	3974.72	52.69	53.76	1.07	3921.87
MW - 6	12/05/05	3974.72	52.80	53.53	0.73	3921.81
MW - 6	12/12/05	3974.72	52.76	53.56	0.80	3921.84
MW - 6	12/16/05	3974.72	52.97	53.56	0.59	3921.66
MW - 6	12/19/05	3974.72	52.81	53.48	0.67	3921.81

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	12/29/05	3974.72	52.79	53.53	0.74	3921.82
MW - 6	01/04/06	3974.72	52.81	53.50	0.69	3921.81
MW - 6	01/10/06	3974.72	52.72	53.50	0.78	3921.88
MW - 6	01/17/06	3974.72	52.69	53.81	1.12	3921.86
MW - 6	01/26/06	3974.72	52.68	53.83	1.15	3921.87
MW - 6	01/31/06	3974.72	52.70	53.73	1.03	3921.87
MW - 6	02/07/06	3974.72	52.73	53.60	0.87	3921.86
MW - 6	02/09/06	3974.72	52.87	53.13	0.26	3921.81
MW - 6	02/13/06	3974.72	52.73	53.51	0.78	3921.87
MW - 6	02/22/06	3974.72	52.76	53.29	0.53	3921.88
MW - 6	02/28/06	3974.72	52.75	53.28	0.53	3921.89
MW - 6	03/07/06	3974.72	52.79	53.25	0.46	3921.86
MW - 6	03/15/06	3974.72	52.72	53.37	0.65	3921.90
MW - 6	03/20/06	3974.72	52.71	53.30	0.59	3921.92
MW - 6	03/22/06	3974.72	52.94	52.95	0.01	3921.78
MW - 6	03/29/06	3974.72	52.78	52.99	0.21	3921.91
MW - 6	04/11/06	3974.72	52.72	53.17	0.45	3921.93
MW - 6	04/18/06	3974.72	52.72	53.15	0.43	3921.94
MW - 6	04/25/06	3974.72	52.79	52.93	0.14	3921.91
MW - 6	05/02/06	3974.72	52.74	53.10	0.36	3921.93
MW - 6	05/09/06	3974.72	52.72	53.03	0.31	3921.95
MW - 6	05/16/06	3974.72	52.72	53.20	0.48	3921.93
MW - 6	05/23/06	3974.72	52.74	53.15	0.41	3921.92
MW - 6	05/31/06	3974.72	52.71	53.13	0.42	3921.95
MW - 6	06/06/06	3974.72	52.71	53.10	0.39	3921.95
MW - 6	06/13/06	3974.72	52.70	53.11	0.41	3921.96
MW - 6	06/20/06	3974.72	52.71	53.13	0.42	3921.95
MW - 6	06/21/06	3974.72	52.75	53.07	0.32	3921.92
MW - 6	07/06/06	3974.72	52.68	53.31	0.63	3921.95
MW - 6	07/12/06	3974.72	52.66	53.46	0.80	3921.94
MW - 6	07/20/06	3974.72	52.65	53.27	0.62	3921.98
MW - 6	07/25/06	3974.72	52.65	53.40	0.75	3921.96
MW - 6	08/01/06	3974.72	52.68	53.34	0.66	3921.94
MW - 6	08/16/06	3974.72	52.65	53.54	0.89	3921.94
MW - 6	08/23/06	3974.72	52.67	53.42	0.75	3921.94
MW - 6	08/28/06	3974.72	52.73	53.23	0.50	3921.92
MW - 6	09/12/06	3974.72	52.25	53.52	1.27	3922.28
MW - 6	09/22/06	3974.72	53.15	54.00	0.85	3921.44
MW - 6	09/27/06	3974.72	52.67	53.18	0.51	3921.97
MW - 6	10/06/06	3974.72	52.61	53.54	0.93	3921.97
MW - 6	10/10/06	3974.72	52.70	53.20	0.50	3921.95
MW - 6	10/16/06	3974.72	52.69	53.21	0.52	3921.95
MW - 6	10/26/06	3974.72	52.65	53.40	0.75	3921.96



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	11/03/06	3974.72	52.64	53.30	0.66	3921.98
MW - 6	11/09/06	3974.72	52.65	53.25	0.60	3921.98
MW - 6	11/16/06	3974.72	52.68	53.21	0.53	3921.96
MW - 6	11/22/06	3974.72	52.67	53.17	0.50	3921.98
MW - 6	12/04/06	3974.72	52.63	53.39	0.76	3921.98
MW - 6	12/08/06	3974.72	52.59	53.49	0.90	3922.00
MW - 6	12/15/06	3974.72	52.64	53.23	0.59	3921.99
MW - 6	01/05/07	3974.72	52.53	53.63	1.10	3922.03
MW - 6	01/12/07	3974.72	52.63	53.23	0.60	3922.00
MW - 6	01/18/07	3974.72	52.66	53.19	0.53	3921.98
MW - 6	01/24/07	3974.72	52.65	53.17	0.52	3921.99
MW - 6	01/29/07	3974.72	52.65	53.14	0.49	3922.00
MW - 6	02/09/07	3974.72	52.61	53.28	0.67	3922.01
MW - 6	02/16/07	3974.72	52.62	53.24	0.62	3922.01
MW - 6	02/23/07	3974.72	52.60	53.13	0.53	3922.04
MW - 6	03/02/07	3974.72	52.57	53.40	0.83	3922.03
MW - 6	03/14/07	3974.72	52.60	53.16	0.56	3922.04
MW - 6	03/26/07	3974.72	52.57	53.33	0.76	3922.04
MW - 6	04/03/07	3974.72	52.55	53.42	0.87	3922.04
MW - 6	04/09/07	3974.72	52.60	53.21	0.61	3922.03
MW - 6	04/26/07	3974.72	52.51	53.52	1.01	3922.06
MW - 6	04/30/07	3974.72	52.61	54.03	1.42	3921.90
MW - 6	05/11/07	3974.72	52.55	53.26	0.71	3922.06
MW - 6	05/16/07	3974.72	52.62	53.00	0.38	3922.04
MW - 6	05/22/07	3974.72	52.60	53.09	0.49	3922.05
MW - 6	05/29/07	3974.72	52.57	53.14	0.57	3922.06
MW - 6	06/01/07	3974.72	52.56	53.26	0.70	3922.06
MW - 6	06/08/07	3974.72	52.56	53.11	0.55	3922.08
MW - 6	06/11/07	3974.72	52.57	52.95	0.38	3922.09
MW - 6	06/20/07	3974.72	52.55	53.20	0.65	3922.07
MW - 6	07/10/07	3974.72	52.51	53.31	0.80	3922.09
MW - 6	07/11/07	3974.72	52.14	53.50	1.36	3922.38
MW - 6	07/25/07	3974.72	52.52	53.25	0.73	3922.09
MW - 6	08/01/07	3974.72	52.54	53.14	0.60	3922.09
MW - 6	08/10/07	3974.72	52.54	53.14	0.60	3922.09
MW - 6	08/15/07	3974.72	52.56	53.00	0.44	3922.09
MW - 6	08/30/07	3974.72	52.49	53.32	0.83	3922.11
MW - 6	08/31/07	3974.72	52.49	53.22	0.73	3922.12
MW - 6	09/10/07	3974.72	52.45	53.60	1.15	3922.10
MW - 6	09/19/07	3974.72	52.43	53.60	1.17	3922.11
MW - 6	10/01/07	3974.72	52.53	53.29	0.76	3922.08
MW - 6	10/19/07	3974.72	52.45	53.60	1.15	3922.10
MW - 6	11/12/07	3974.72	52.41	53.50	1.09	3922.15

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	03/07/08	3974.72	52.36	53.65	1.29	3922.17
MW - 6	3/12/08 #1	3974.72	52.36	53.65	1.29	3922.17
MW - 6	3/12/08#2	3974.72	52.50	52.67	0.17	3922.19
MW - 6	3/20/2008 #1	3974.72	52.45	53.09	0.64	3922.17
MW - 6	3/20/08#2	3974.72	52.42	53.12	0.70	3922.20
MW - 6	3/23/08 #1	3974.72	52.43	53.02	0.59	3922.20
MW - 6	3/23/08 #2	3974.72	52.51	52.61	0.10	3922.20
MW - 6	4/2/08 #1	3974.72	52.50	52.98	0.48	3922.15
MW - 6	4/2/08 #2	3974.72	52.49	52.72	0.23	3922.20
MW - 6	4/9/08 #1	3974.72	52.41	52.95	0.54	3922.23
MW - 6	4/9/08 #2	3974.72	52.48	52.65	0.17	3922.21
MW - 6	04/16/08	3974.72	52.42	52.97	0.55	3922.22
MW - 6	04/23/08	3974.72	52.44	52.91	0.47	3922.21
MW - 6	04/30/08	3974.72	52.42	52.93	0.51	3922.22
MW - 6	05/29/08	3974.72	52.39	52.96	0.57	3922.24
MW - 6	06/02/08	3974.72	52.42	52.82	0.40	3922.24
MW - 6	06/03/08	3974.72	52.42	52.82	0.40	3922.24
MW - 6	06/11/08	3974.72	52.40	52.99	0.59	3922.23
MW - 6	06/18/08	3974.72	52.43	52.89	0.46	3922.22
MW - 6	06/23/08	3974.72	52.42	52.79	0.37	3922.24
MW - 6	07/01/08	3974.72	52.41	52.97	0.56	3922.23
MW - 6	07/09/08	3974.72	52.42	52.95	0.53	3922.22
MW - 6	07/15/08	3974.72	52.42	52.85	0.43	3922.24
MW - 6	07/22/08	3974.72	52.38	53.00	0.62	3922.25
MW - 6	08/02/08	3974.72	52.36	53.10	0.74	3922.25
MW - 6	08/13/08	3974.72	52.36	53.18	0.82	3922.24
MW - 6	09/03/08	3974.72	52.29	53.47	1.18	3922.25
MW - 6	09/11/08	3974.72	52.41	52.91	0.50	3922.24
MW - 6	09/19/08	3974.72	52.40	52.89	0.49	3922.25
MW - 6	09/26/08	3974.72	52.38	52.92	0.54	3922.26
MW - 6	10/10/08	3974.72	52.39	52.91	0.52	3922.25
MW - 6	10/17/08	3974.72	52.41	52.81	0.40	3922.25
MW - 6	10/21/08	3974.72	52.42	52.74	0.32	3922.25
MW - 6	10/30/08	3974.72	52.38	52.90	0.52	3922.26
MW - 6	11/04/08	3974.72	52.42	52.78	0.36	3922.25
MW - 6	11/18/08	3974.72	52.37	53.05	0.68	3922.25
MW - 6	11/25/08	3974.72	52.40	52.87	0.47	3922.25
MW - 6	11/25/08	3974.72	-	52.80	0.00	3921.92
MW - 6	12/10/08	3974.72	52.33	53.09	0.76	3922.28
MW - 6	12/18/08	3974.72	52.31	53.19	0.88	3922.28
MW - 6	01/06/09	3974.72	52.32	53.17	0.85	3922.27
MW - 6	01/14/09	3974.72	52.41	52.97	0.56	3922.23
MW - 6	01/21/09	3974.72	52.41	52.79	0.38	3922.25

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	01/22/09	3974.72	52.38	52.73	0.35	3922.29
MW - 6	01/30/09	3974.72	52.38	52.82	0.44	3922.27
MW - 6	02/03/09	3974.72	52.40	52.71	0.31	3922.27
MW - 6	02/12/09	3974.72	52.39	52.90	0.51	3922.25
MW - 6	02/19/09	3974.72	52.39	52.94	0.55	3922.25
MW - 6	03/04/09	3974.72	52.42	52.96	0.54	3922.22
MW - 6	03/06/09	3974.72	52.31	53.03	0.72	3922.30
MW - 6	03/11/09	3974.72	52.37	52.82	0.45	3922.28
MW - 6	03/16/09	3974.72	52.45	53.00	0.55	3922.19
MW - 6	03/19/09	3974.72	52.37	52.79	0.42	3922.29
MW - 6	03/24/09	3974.72	52.29	52.81	0.52	3922.35
MW - 6	04/03/09	3974.72	52.31	53.01	0.70	3922.31
MW - 6	04/15/09	3974.72	52.28	53.12	0.84	3922.31
MW - 6	04/17/09	3974.72	52.39	52.63	0.24	3922.29
MW - 6	04/22/09	3974.72	52.31	53.00	0.69	3922.31
MW - 6	04/29/09	3974.72	52.34	52.82	0.48	3922.31
MW - 6	05/20/09	3974.72	52.32	52.95	0.63	3922.31
MW - 6	05/20/09	3974.72	52.32	52.95	0.63	3922.31
MW - 6	06/09/09	3974.72	52.29	52.95	0.66	3922.33
MW - 6	06/17/09	3974.72	52.35	52.80	0.45	3922.30
MW - 6	06/23/09	3974.72	52.32	53.00	0.68	3922.30
MW - 6	07/01/09	3974.72	52.33	52.82	0.49	3922.32
MW - 6	07/08/09	3974.72	52.38	52.67	0.29	3922.30
MW - 6	07/15/09	3974.72	52.35	52.68	0.33	3922.32
MW - 6	07/17/09	3974.72	52.39	52.65	0.26	3922.29
MW - 6	07/23/09	3974.72	52.38	52.65	0.27	3922.30
MW - 6	07/24/09	3974.72	52.40	52.50	0.10	3922.31
MW - 6	07/30/09	3974.72	52.36	52.61	0.25	3922.32
MW - 6	08/04/09	3974.72	52.38	52.62	0.24	3922.30
MW - 6	08/12/09	3974.72	52.35	52.73	0.38	3922.31
MW - 6	08/20/09	3974.72	52.30	52.83	0.53	3922.34
MW - 6	08/26/09	3974.72	52.31	52.96	0.65	3922.31
MW - 6	09/02/09	3974.72	52.35	52.72	0.37	3922.31
MW - 6	09/09/09	3974.72	52.36	52.64	0.28	3922.32
MW - 6	09/14/09	3974.72	52.37	52.63	0.26	3922.31
MW - 6	09/21/09	3974.72	52.36	52.69	0.33	3922.31
MW - 6	10/01/09	3974.72	52.38	52.75	0.37	3922.28
MW - 6	10/08/09	3974.72	52.38	52.75	0.37	3922.28
MW - 6	10/14/09	3974.72	52.38	52.67	0.29	3922.30
MW - 6	10/21/09	3974.72	52.31	52.88	0.57	3922.32
MW - 6	10/28/09	3974.72	52.34	52.67	0.33	3922.33
MW - 6	11/04/09	3974.72	52.36	52.62	0.26	3922.32
MW - 6	11/11/09	3974.72	52.32	52.60	0.28	3922.36

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	11/18/09	3974.72	52.35	52.65	0.30	3922.33
MW - 6	11/25/09	3974.72	52.36	52.68	0.32	3922.31
MW - 6	12/02/09	3974.72	52.36	52.65	0.29	3922.32
MW - 6	12/10/09	3974.72	52.35	52.66	0.31	3922.32
MW - 6	12/17/09	3974.72	52.41	52.68	0.27	3922.27
MW - 6	12/21/09	3974.72	52.36	52.54	0.18	3922.33
MW - 6	12/30/09	3974.72	52.40	52.79	0.39	3922.26
MW - 6	01/07/10	3974.72	52.35	52.55	0.20	3922.34
MW - 6	01/18/10	3974.72	52.40	52.52	0.12	3922.30
MW - 6	02/02/10	3974.72	52.29	52.86	0.57	3922.34
MW - 6	02/11/10	3974.72	52.30	52.61	0.31	3922.37
MW - 6	02/18/10	3974.72	52.30	52.68	0.38	3922.36
MW - 6	02/25/10	3974.72	52.41	52.61	0.20	3922.28
MW - 6	03/02/10	3974.72	52.43	52.58	0.15	3922.27
MW - 6	03/04/10	3974.72	52.46	52.56	0.10	3922.25
MW - 6	03/10/10	3974.72	52.37	52.53	0.16	3922.33
MW - 6	03/12/10	3974.72	52.43	52.56	0.13	3922.27
MW - 6	03/15/10	3974.72	52.36	52.50	0.14	3922.34
MW - 6	03/18/10	3974.72	52.35	52.46	0.11	3922.35
MW - 6	03/22/10	3974.72	52.41	52.54	0.13	3922.29
MW - 6	03/24/10	3974.72	sheen	52.54	0.00	3922.18
MW - 6	03/30/10	3974.72	sheen	52.55	0.00	3922.17
MW - 6	04/07/10	3974.72	sheen	52.53	0.00	3922.19
MW - 6	04/12/10	3974.72	sheen	52.41	0.00	3922.31
MW - 6	04/16/10	3974.72	sheen	52.89	0.00	3921.83
MW - 6	04/20/10	3974.72	sheen	53.00	0.00	3921.72
MW - 6	04/27/10	3974.72	sheen	52.84	0.00	3921.88
MW - 6	04/30/10	3974.72	sheen	52.82	0.00	3921.90
MW - 6	05/12/10	3974.72	sheen	52.74	0.00	3921.98
MW - 6	05/14/10	3974.72	sheen	52.84	0.00	3921.88
MW - 6	05/17/10	3974.72	sheen	52.96	0.00	3921.76
MW - 6	05/20/10	3974.72	sheen	52.73	0.00	3921.99
MW - 6	05/25/10	3974.72	sheen	52.57	0.00	3922.15
MW - 6	06/01/10	3974.72	sheen	52.28	0.00	3922.44
MW - 6	06/09/10	3974.72	sheen	52.60	0.00	3922.12
MW - 6	06/16/10	3974.72	sheen	52.56	0.00	3922.16
MW - 6	06/28/10	3974.72	sheen	52.63	0.00	3922.09
MW - 6	07/09/10	3974.72	sheen	52.54	0.00	3922.18
MW - 6	07/14/10	3974.72	sheen	52.36	0.00	3922.36
MW - 6	07/23/10	3974.72	sheen	52.42	0.00	3922.30
MW - 6	07/29/10	3974.72	sheen	52.43	0.00	3922.29
MW - 6	08/05/10	3974.72	sheen	52.40	0.00	3922.32
MW - 6	08/12/10	3974.72	sheen	52.46	0.00	3922.26

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	08/16/10	3974.72	sheen	52.46	0.00	3922.26
MW - 6	08/18/10	3974.72	sheen	52.35	0.00	3922.37
MW - 6	08/25/10	3974.72	sheen	52.42	0.00	3922.30
MW - 6	09/02/10	3974.72	sheen	52.29	0.00	3922.43
MW - 6	09/08/10	3974.72	sheen	52.46	0.00	3922.26
MW - 6	09/30/10	3974.72	sheen	52.37	0.00	3922.35
MW - 6	10/07/10	3974.72	sheen	52.45	0.00	3922.27
MW - 6	10/14/10	3974.72	sheen	52.75	0.00	3921.97
MW - 6	10/21/10	3974.72	sheen	52.73	0.00	3921.99
MW - 6	11/04/10	3974.72	sheen	52.35	0.00	3922.37
MW - 6	11/10/10	3974.72	sheen	52.73	0.00	3921.99
MW - 6	12/01/10	3974.72	sheen	52.41	0.00	3922.31
MW - 6	12/08/10	3974.72	sheen	52.44	0.00	3922.28
MW - 6	01/26/11	3974.72	sheen	52.45	0.00	3922.27
MW - 6	02/28/11	3974.72	-	52.72	0.00	3922.00
MW - 6	03/04/11	3974.72	52.41	52.45	0.04	3922.30
MW - 6	03/09/11	3974.72	52.52	52.58	0.06	3922.19
MW - 6	04/28/11	3974.72	52.38	52.47	0.09	3922.33
MW - 6	05/04/11	3974.72	52.35	52.40	0.05	3922.36
MW - 6	05/11/11	3974.72	52.46	52.49	0.03	3922.26
MW - 6	05/12/11	3974.72	-	52.44	0.00	3922.28
MW - 6	05/18/11	3974.72	-	52.35	0.00	3922.37
MW - 6	05/23/11	3974.72	52.29	52.49	0.20	3922.40
MW - 6	06/08/11	3974.72	-	52.51	0.00	3922.21
MW - 6	06/16/11	3974.72	52.30	52.41	0.11	3922.40
MW - 6	06/22/11	3974.72	52.32	52.41	0.09	3922.39
MW - 6	06/30/11	3974.72	52.40	52.64	0.24	3922.28
MW - 6	07/06/11	3974.72	-	52.37	0.00	3922.35
MW - 6	07/13/11	3974.72	-	52.40	0.00	3922.32
MW - 6	07/15/11	3974.72	-	52.46	0.00	3922.26
MW - 6	07/19/11	3974.72	-	52.46	0.00	3922.26
MW - 6	07/21/11	3974.72	-	52.38	0.00	3922.34
MW - 6	07/26/11	3974.72	-	52.43	0.00	3922.29
MW - 6	07/28/11	3974.72	-	52.42	0.00	3922.30
MW - 6	08/02/11	3974.72	-	52.64	0.00	3922.08
MW - 6	08/09/11	3974.72	-	52.48	0.00	3922.24
MW - 6	08/12/11	3974.72	-	52.60	0.00	3922.12
MW - 6	08/15/11	3974.72	-	52.60	0.00	3922.12
MW - 6	08/16/11	3974.72	-	52.42	0.00	3922.30
MW - 6	08/19/11	3974.72	-	52.50	0.00	3922.22
MW - 6	08/23/11	3974.72	-	52.55	0.00	3922.17
MW - 6	08/26/11	3974.72	-	52.57	0.00	3922.15
MW - 6	08/30/11	3974.72	-	52.38	0.00	3922.34

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	09/01/11	3974.72	-	52.42	0.00	3922.30
MW - 6	09/08/11	3974.72	-	52.64	0.00	3922.08
MW - 6	09/13/11	3974.72	-	52.54	0.00	3922.18
MW - 6	09/15/11	3974.72	-	52.60	0.00	3922.12
MW - 6	09/22/11	3974.72	-	52.46	0.00	3922.26
MW - 6	10/06/11	3974.72	-	52.46	0.00	3922.26
MW - 6	10/11/11	3974.72	-	52.45	0.00	3922.27
MW - 6	10/13/11	3974.72	52.60	52.64	0.04	3922.11
MW - 6	10/26/11	3974.72	52.41	52.64	0.23	3922.28
MW - 6	11/22/11	3974.72	-	52.57	0.00	3922.15
MW - 6	12/02/11	3974.72	-	52.41	0.00	3922.31
MW - 6	12/29/11	3974.72	-	52.35	0.00	3922.37
MW - 6	01/26/12	3974.72	-	52.57	0.00	3922.15
MW - 6	01/31/12	3974.72	-	52.44	0.00	3922.28
MW - 6	02/15/12	3974.72	-	52.38	0.00	3922.34
MW - 6	02/28/12	3974.72	-	52.37	0.00	3922.35
MW - 6	03/20/12	3974.72	52.43	52.59	0.16	3922.27
MW - 6	03/27/12	3974.72	52.44	52.61	0.17	3922.25
MW - 6	04/10/12	3974.72	52.45	52.70	0.25	3922.23
MW - 6	04/19/12	3974.72	52.44	52.67	0.23	3922.25
MW - 6	04/26/12	3974.72	52.32	52.46	0.14	3922.38
MW - 6	05/08/12	3974.72	52.33	52.47	0.14	3922.37
MW - 6	05/15/12	3974.72	52.31	52.63	0.32	3922.36
MW - 6	05/17/12	3974.72	52.30	52.62	0.32	3922.37
MW - 6	06/05/12	3974.72	52.33	52.78	0.45	3922.32
MW - 6	06/21/12	3974.72	52.33	52.89	0.56	3922.31
MW - 6	06/28/12	3974.72	52.32	52.94	0.62	3922.31
MW - 6	07/17/12	3974.72	52.31	52.97	0.66	3922.31
MW - 6	08/01/12	3974.72	52.42	52.73	0.31	3922.25
MW - 6	10/02/12	3974.72	52.41	53.29	0.88	3922.18
MW - 6	10/09/12	3974.72	52.58	52.88	0.30	3922.10
MW - 6	10/16/12	3974.72	52.47	52.83	0.36	3922.20
MW - 6	10/25/12	3974.72	52.46	52.90	0.44	3922.19
MW - 6	10/30/12	3974.72	52.46	52.95	0.49	3922.19
MW - 6	11/29/12	3974.72	52.54	53.10	0.56	3922.10
MW - 6	12/14/12	3974.72	52.48	53.09	0.61	3922.15
MW - 6	02/11/13	3974.72	52.41	53.08	0.67	3922.21
MW - 6	03/18/13	3974.72	52.52	52.74	0.22	3922.17
MW - 6	04/11/13	3974.72	52.89	52.90	0.01	3921.83
MW - 6	05/06/13	3974.72	52.53	52.60	0.07	3922.18
MW - 6	05/29/13	3974.72	52.89	52.91	0.02	3921.83
MW - 6	06/26/13	3974.72	-	52.90	0.00	3921.82
MW - 6	07/31/13	3974.72	-	52.76	0.00	3921.96

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	08/06/13	3974.72	52.72	52.73	0.01	3922.00
MW - 6	09/30/13	3974.72	52.78	52.79	0.01	3921.94
MW - 6	11/18/13	3974.72	52.66	52.71	0.05	3922.05
MW - 6	02/04/14	3974.72	52.62	52.72	0.10	3922.09
MW - 6	04/28/14	3974.72	52.66	52.74	0.08	3922.05
MW - 6	05/28/14	3974.72	52.83	52.85	0.02	3921.89
MW - 6	07/30/14	3974.72	52.84	52.96	0.12	3921.86
MW - 6	08/23/14	3974.72	52.97	53.04	0.07	3921.74
MW - 6	09/10/14	3974.72	52.85	53.00	0.15	3921.85
MW - 6	09/23/14	3974.72	52.90	52.98	0.08	3921.81
MW - 6	10/31/14	3974.72	52.79	52.87	0.08	3921.92
MW - 6	11/18/14	3974.72	52.81	52.85	0.04	3921.90
MW - 6	01/05/15	3974.72	52.78	53.04	0.26	3921.90
MW - 6	01/09/15	3974.72	52.74	52.80	0.06	3921.97
MW - 6	01/14/15	3974.72	52.75	52.81	0.06	3921.96
MW - 6	01/21/15	3974.72	52.77	53.06	0.29	3921.91
MW - 6	02/19/15	3974.72	-	52.85	0.00	3921.87
MW - 6	03/09/15	3974.72	52.78	53.06	0.28	3921.90
MW - 6	03/11/15	3974.72	52.75	52.83	0.08	3921.96
MW - 6	03/31/15	3974.72	52.79	53.10	0.31	3921.88
MW - 6	04/09/15	3974.72	-	52.75	0.00	3921.97
MW - 6	04/15/15	3974.72	-	52.75	0.00	3921.97
MW - 6	04/22/15	3974.72	-	52.76	0.00	3921.96
MW - 6	05/12/15	3974.72	52.72	52.76	0.04	3921.99
MW - 6	05/26/15	3974.72	52.78	52.97	0.19	3921.91
MW - 6	06/01/15	3974.72	52.74	52.78	0.04	3921.97
MW - 6	06/04/15	3974.72	52.75	52.84	0.09	3921.96
MW - 6	07/27/15	3974.72	-	53.26	0.00	3921.46
MW - 6	08/18/15	3974.72	-	52.75	0.00	3921.97
MW - 6	10/08/15	3974.72	-	53.34	0.00	3921.38
MW - 6	10/21/15	3974.72	-	52.83	0.00	3921.89
MW - 6	11/23/15	3974.72	-	52.80	0.00	3921.92
MW - 6	01/12/16	3974.72	-	52.85	0.00	3921.87
MW - 6	02/11/16	3974.72	-	52.81	0.00	3921.91
MW - 6	02/24/16	3974.72	-	52.80	0.00	3921.92
MW - 6	06/13/16	3974.72	-	52.82	0.00	3921.90
MW - 6	08/02/16	3974.72	52.89	52.90	0.01	3921.83
MW - 6	11/28/16	3974.72	-	52.87	0.00	3921.85
MW - 6	02/21/17	3974.72	-	52.93	0.00	3921.79
MW - 6	05/24/17	3974.72	52.82	52.91	0.09	3921.89
MW - 6	07/12/17	3974.72	-	52.91	0.00	3921.81
MW - 6	08/11/17	3974.72	52.80	52.84	0.04	3921.91
MW - 6	10/18/17	3974.72	52.94	53.09	0.15	3921.76

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	11/28/17	3974.72	52.93	53.11	0.18	3921.76
MW - 6	12/19/17	3974.72	52.96	53.07	0.11	3921.74
MW - 6	01/16/18	3974.72	52.94	53.08	0.14	3921.76
MW - 6	02/26/18	3974.72	52.91	53.06	0.15	3921.79
MW - 6	04/03/18	3974.72	52.91	52.98	0.07	3921.80
MW - 6	04/17/18	3974.72	52.91	52.98	0.07	3921.80
MW - 6	05/07/18	3974.72	52.95	53.10	0.15	3921.75
MW - 6	06/26/18	3974.72	52.98	53.14	0.16	3921.72
MW - 6	07/12/18	3974.72	52.97	53.20	0.23	3921.72
MW - 6	08/01/18	3974.72	53.01	53.24	0.23	3921.68
MW - 6	08/09/18	3974.72	52.93	53.21	0.28	3921.75
MW - 6	08/23/18	3974.72	52.99	53.29	0.30	3921.69
MW - 6	08/30/18	3974.72	53.01	53.31	0.30	3921.67
MW - 6	08/31/18	3974.72	52.98	53.30	0.32	3921.69
MW - 6	09/11/18	3974.72	53.02	53.11	0.09	3921.69
MW - 6	09/13/18	3974.72	53.01	53.07	0.06	3921.70
MW - 6	09/19/18	3974.72	53.03	53.10	0.07	3921.68
MW - 6	09/26/18	3974.72	53.01	53.06	0.05	3921.70
MW - 6	10/04/18	3974.72	53.02	53.06	0.04	3921.69
MW - 6	11/14/18	3974.72	53.04	53.06	0.02	3921.68
MW - 6	12/18/18	3974.72	53.02	53.06	0.04	3921.69
MW - 6	02/18/19	3974.72	53.02	53.04	0.02	3921.70
MW - 6	05/14/19	3974.72	53.02	53.04	0.02	3921.70
MW - 6	08/19/19	3974.72	53.24	53.27	0.03	3921.48
MW - 6	01/08/20	3974.72	53.18	53.22	0.04	3921.53
MW - 6	02/18/20	3974.72	53.20	53.25	0.05	3921.51
MW - 6	05/05/20	3974.72	53.18	53.28	0.10	3921.53
MW - 6	06/11/20	3974.72	53.20	53.27	0.07	3921.51
MW - 6	09/23/20	3974.72	53.30	53.36	0.06	3921.41
MW - 6	12/04/20	3974.72	53.32	53.38	0.06	3921.39
MW - 6	03/23/21	3974.72	53.37	53.49	0.12	3921.33
MW - 6	06/04/21	3974.72	53.34	53.42	0.08	3921.37
MW - 6	09/30/21	3974.72	53.47	53.60	0.13	3921.23
MW - 6	12/09/21	3974.72	53.47	53.50	0.03	3921.25
MW - 6	02/17/22	3974.72	53.51	53.55	0.04	3921.20
MW - 6	03/08/22	3974.72	53.53	53.63	0.10	3921.18
MW - 6	05/18/22	3974.72	53.54	53.62	0.08	3921.17
MW - 6	08/09/22	3974.72	53.62	53.71	0.09	3921.09
MW - 6	11/15/22	3974.72	53.74	53.75	0.01	3920.98
MW - 6	02/14/23	3974.72	53.76	53.79	0.03	3920.96
MW - 6	05/16/23	3974.72	-	53.77	0.00	3920.95
MW - 6	08/08/23	3974.72	-	53.83	0.00	3920.89



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	12/07/23	3974.72	-	53.88	0.00	3920.84
MW - 7	03/02/00	3974.60	-	53.17	0.00	3921.43
MW - 7	04/25/00	3974.60	-	53.23	0.00	3921.37
MW - 7	09/06/00	3974.60	-	53.28	0.00	3921.32
MW - 7	11/28/00	3974.60	-	53.28	0.00	3921.32
MW - 7	02/21/01	3974.60	-	53.18	0.00	3921.42
MW - 7	05/31/01	3974.60	-	53.15	0.00	3921.45
MW - 7	08/23/01	3974.60	-	53.14	0.00	3921.46
MW - 7	11/21/01	3974.60	-	53.19	0.00	3921.41
MW - 7	02/13/02	3974.60	-	53.22	0.00	3921.38
MW - 7	06/12/02	3974.60	-	53.18	0.00	3921.42
MW - 7	08/26/02	3974.60	-	53.19	0.00	3921.41
MW - 7	11/21/02	3974.60	-	53.23	0.00	3921.37
MW - 7	02/05/03	3974.60	-	53.20	0.00	3921.40
MW - 7	05/07/03	3974.60	-	53.18	0.00	3921.42
MW - 7	08/18/03	3974.60	-	53.21	0.00	3921.39
MW - 7	12/01/03	3974.60	-	53.24	0.00	3921.36
MW - 7	02/05/04	3974.60	-	53.27	0.00	3921.33
MW - 7	05/05/04	3974.60	-	53.22	0.00	3921.38
MW - 7	09/01/04	3974.60	-	53.30	0.00	3921.30
MW - 7	12/15/04	3974.60	-	53.25	0.00	3921.35
MW - 7	03/22/05	3974.60	-	53.03	0.00	3921.57
MW - 7	06/22/05	3974.60	-	52.95	0.00	3921.65
MW - 7	09/21/05	3974.60	-	52.87	0.00	3921.73
MW - 7	12/16/05	3974.60	-	52.80	0.00	3921.80
MW - 7	03/20/06	3974.60	-	52.73	0.00	3921.87
MW - 7	06/21/06	3974.60	-	52.69	0.00	3921.91
MW - 7	09/27/06	3974.60	-	52.67	0.00	3921.93
MW - 7	12/04/06	3974.60	-	52.68	0.00	3921.92
MW - 7	03/14/07	3974.60	-	52.64	0.00	3921.96
MW - 7	05/29/07	3974.60	-	52.61	0.00	3921.99
MW - 7	08/30/07	3974.60	-	52.58	0.00	3922.02
MW - 7	11/12/07	3974.60	-	52.54	0.00	3922.06
MW - 7	03/07/08	3974.60	-	52.49	0.00	3922.11
MW - 7	06/02/08	3974.60	-	52.43	0.00	3922.17
MW - 7	09/03/08	3974.60	-	52.44	0.00	3922.16
MW - 7	12/08/08	3974.60	-	52.41	0.00	3922.19
MW - 7	02/19/09	3974.60	-	52.41	0.00	3922.19
MW - 7	05/20/09	3974.60	-	52.35	0.00	3922.25
MW - 7	08/12/09	3974.60	-	52.34	0.00	3922.26
MW - 7	11/25/09	3974.60	-	52.34	0.00	3922.26

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 7	01/07/10	3974.60	-	52.33	0.00	3922.27
MW - 7	02/11/10	3974.60	-	52.31	0.00	3922.29
MW - 7	05/17/10	3974.60	-	52.39	0.00	3922.21
MW - 7	08/16/10	3974.60	-	52.40	0.00	3922.20
MW - 7	11/10/10	3974.60	-	52.39	0.00	3922.21
MW - 7	02/28/11	3974.60	-	53.42	0.00	3921.18
MW - 7	05/12/11	3974.60	-	52.31	0.00	3922.29
MW - 7	08/15/11	3974.60	-	52.42	0.00	3922.18
MW - 7	11/22/11	3974.60	-	52.37	0.00	3922.23
MW - 7	02/28/12	3974.60	-	52.35	0.00	3922.25
MW - 7	05/17/12	3974.60	-	52.28	0.00	3922.32
MW - 7	08/01/12	3974.60	-	52.39	0.00	3922.21
MW - 7	10/25/12	3974.60	-	52.47	0.00	3922.13
MW - 7	11/29/12	3974.60	-	52.56	0.00	3922.04
MW - 7	02/11/13	3974.60	-	52.44	0.00	3922.16
MW - 7	04/11/13	3974.60	-	52.76	0.00	3921.84
MW - 7	05/06/13	3974.60	-	52.46	0.00	3922.14
MW - 7	05/29/13	3974.60	-	52.71	0.00	3921.89
MW - 7	06/26/13	3974.60	-	52.68	0.00	3921.92
MW - 7	07/31/13	3974.60	-	52.62	0.00	3921.98
MW - 7	08/06/13	3974.60	-	52.62	0.00	3921.98
MW - 7	09/30/13	3974.60	-	52.65	0.00	3921.95
MW - 7	11/19/13	3974.60	-	52.65	0.00	3921.95
MW - 7	12/08/13	3974.60	-	52.60	0.00	3922.00
MW - 7	02/04/14	3974.60	-	52.61	0.00	3921.99
MW - 7	04/28/14	3974.60	-	52.61	0.00	3921.99
MW - 7	05/28/14	3974.60	-	52.74	0.00	3921.86
MW - 7	07/30/14	3974.60	-	52.70	0.00	3921.90
MW - 7	08/23/14	3974.60	-	52.76	0.00	3921.84
MW - 7	10/31/14	3974.60	-	52.75	0.00	3921.85
MW - 7	11/18/14	3974.60	-	52.71	0.00	3921.89
MW - 7	01/09/15	3974.60	-	52.68	0.00	3921.92
MW - 7	02/19/15	3974.60	-	52.71	0.00	3921.89
MW - 7	03/09/15	3974.60	-	52.78	0.00	3921.82
MW - 7	04/09/15	3974.60	-	52.64	0.00	3921.96
MW - 7	05/12/15	3974.60	-	52.64	0.00	3921.96
MW - 7	07/27/15	3974.60	-	52.78	0.00	3921.82
MW - 7	08/18/15	3974.60	-	52.66	0.00	3921.94
MW - 7	10/08/15	3974.60	-	52.88	0.00	3921.72
MW - 7	11/23/15	3974.60	-	52.70	0.00	3921.90
MW - 7	01/12/16	3974.60	-	52.74	0.00	3921.86
MW - 7	02/24/16	3974.60	-	52.74	0.00	3921.86
MW - 7	06/13/16	3974.60	-	52.72	0.00	3921.88

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 7	08/02/16	3974.60	-	52.86	0.00	3921.74
MW - 7	11/28/16	3974.60	-	52.80	0.00	3921.80
MW - 7	02/21/17	3974.60	-	52.77	0.00	3921.83
MW - 7	05/24/17	3974.60	-	52.73	0.00	3921.87
MW - 7	07/12/17	3974.60	-	52.85	0.00	3921.75
MW - 7	08/11/17	3974.60	-	52.80	0.00	3921.80
MW - 7	10/18/17	3974.60	-	52.92	0.00	3921.68
MW - 7	11/28/17	3974.60	-	52.89	0.00	3921.71
MW - 7	01/16/18	3974.60	-	52.89	0.00	3921.71
MW - 7	02/26/18	3974.60	-	52.84	0.00	3921.76
MW - 7	04/03/18	3974.60	-	52.47	0.00	3922.13
MW - 7	04/17/18	3974.60	-	52.86	0.00	3921.74
MW - 7	05/07/18	3974.60	-	52.91	0.00	3921.69
MW - 7	06/26/18	3974.60	-	52.92	0.00	3921.68
MW - 7	08/09/18	3974.60	-	52.93	0.00	3921.67
MW - 7	09/11/18	3974.60	-	52.94	0.00	3921.66
MW - 7	11/14/18	3974.60	-	53.03	0.00	3921.57
MW - 7	12/18/18	3974.60	-	52.97	0.00	3921.63
MW - 7	02/18/19	3974.60	-	52.99	0.00	3921.61
MW - 7	05/14/19	3974.60	-	52.95	0.00	3921.65
MW - 7	08/19/19	3974.60	-	53.16	0.00	3921.44
MW - 7	11/11/19	3974.60	-	53.12	0.00	3921.48
MW - 7	02/18/20	3974.60	-	53.08	0.00	3921.52
MW - 7	05/05/20	3974.60	-	53.12	0.00	3921.48
MW - 7	06/11/20	3974.60	-	53.14	0.00	3921.46
MW - 7	09/23/20	3974.60	-	53.26	0.00	3921.34
MW - 7	12/04/20	3974.60	-	53.27	0.00	3921.33
MW - 7	12/24/20	3974.60	-	53.26	0.00	3921.34
MW - 7	03/23/21	3974.60	-	53.28	0.00	3921.32
MW - 7	06/04/21	3974.60	-	53.29	0.00	3921.31
MW - 7	09/30/21	3974.60	-	53.43	0.00	3921.17
MW - 7	12/09/21	3974.60	-	53.45	0.00	3921.15
MW - 7	02/17/22	3974.60	-	53.35	0.00	3921.25
MW - 7	05/16/22	3974.60	-	53.51	0.00	3921.09
MW - 7	08/08/22	3974.60	-	53.61	0.00	3920.99
MW - 7	11/16/22	3974.60	-	53.61	0.00	3920.99
MW - 7	02/13/23	3974.60	-	53.64	0.00	3920.96
MW - 7	05/15/23	3974.60	-	53.74	0.00	3920.86
MW - 7	08/08/23	3974.60	-	53.77	0.00	3920.83
MW - 7	12/08/23	3974.60	-	53.85	0.00	3920.75
MW - 8	03/02/00	3974.48	-	52.89	0.00	3921.59
MW - 8	04/25/00	3974.48	-	52.96	0.00	3921.52

TABLE 7

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 8	09/06/00	3974.48	-	53.00	0.00	3921.48
MW - 8	11/28/00	3974.48	-	53.00	0.00	3921.48
MW - 8	02/21/01	3974.48	-	52.90	0.00	3921.58
MW - 8	05/31/01	3974.48	-	52.85	0.00	3921.63
MW - 8	08/23/01	3974.48	-	52.87	0.00	3921.61
MW - 8	11/21/01	3974.48	-	52.92	0.00	3921.56
MW - 8	02/13/02	3974.48	-	52.96	0.00	3921.52
MW - 8	06/12/02	3974.48	-	52.93	0.00	3921.55
MW - 8	08/26/02	3974.48	-	52.92	0.00	3921.56
MW - 8	11/21/02	3974.48	-	52.98	0.00	3921.50
MW - 8	02/05/03	3974.48	-	52.90	0.00	3921.58
MW - 8	05/07/03	3974.48	-	52.89	0.00	3921.59
MW - 8	08/18/03	3974.48	-	52.96	0.00	3921.52
MW - 8	12/01/03	3974.48	-	53.00	0.00	3921.48
MW - 8	02/05/04	3974.48	-	52.99	0.00	3921.49
MW - 8	05/05/04	3974.48	-	52.98	0.00	3921.50
MW - 8	09/01/04	3974.48	-	53.05	0.00	3921.43
MW - 8	12/15/04	3974.48	-	53.00	0.00	3921.48
MW - 8	03/22/05	3974.48	-	52.80	0.00	3921.68
MW - 8	06/22/05	3974.48	-	52.68	0.00	3921.80
MW - 8	09/14/05	PLUGGED & ABANDONED				
MW - 9	03/02/00	3975.06	53.07	54.26	1.19	3921.81
MW - 9	04/25/00	3975.06	53.11	54.34	1.23	3921.77
MW - 9	09/06/00	3975.06	53.04	55.02	1.98	3921.72
MW - 9	11/28/00	3975.06	53.13	54.90	1.77	3921.66
MW - 9	02/02/01	3975.06	53.14	54.19	1.05	3921.76
MW - 9	05/31/01	3975.06	53.08	54.81	1.73	3921.72
MW - 9	08/23/01	3975.06	52.88	55.30	2.42	3921.82
MW - 9	11/21/01	3975.06	53.15	54.20	1.05	3921.75
MW - 9	02/13/02	3975.06	52.86	55.73	2.87	3921.77
MW - 9	06/12/02	3975.06	52.82	55.67	2.85	3921.81
MW - 9	08/26/02	3975.06	52.83	55.70	2.87	3921.80
MW - 9	11/08/02	3975.06	52.90	55.81	2.91	3921.72
MW - 9	11/21/02	3975.06	52.90	55.77	2.87	3921.73
MW - 9	12/27/02	3975.06	53.13	54.68	1.55	3921.70
MW - 9	01/06/03	3975.06	53.07	54.97	1.90	3921.71
MW - 9	01/08/03	3975.06	53.04	55.02	1.98	3921.72
MW - 9	01/10/03	3975.06	53.03	55.09	2.06	3921.72
MW - 9	01/13/03	3975.06	53.03	55.09	2.06	3921.72
MW - 9	02/05/03	3975.06	52.96	55.30	2.34	3921.75
MW - 9	02/26/03	3975.06	52.96	55.52	2.56	3921.72
MW - 9	03/04/03	3975.06	52.96	55.56	2.60	3921.71

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	03/12/03	3975.06	52.94	55.46	2.52	3921.74
MW - 9	03/18/03	3975.06	53.02	57.71	4.69	3921.34
MW - 9	03/25/03	3975.06	53.37	53.40	0.03	3921.69
MW - 9	03/31/03	3975.06	53.36	53.39	0.03	3921.70
MW - 9	04/09/03	3975.06	53.31	53.72	0.41	3921.69
MW - 9	04/14/03	3975.06	53.28	53.40	0.12	3921.76
MW - 9	05/07/03	3975.06	53.07	54.49	1.42	3921.78
MW - 9	05/08/03	3975.06	53.04	54.59	1.55	3921.79
MW - 9	05/13/03	3975.06	53.18	54.84	1.66	3921.63
MW - 9	05/21/03	3975.06	53.08	54.97	1.89	3921.70
MW - 9	05/27/03	3975.06	53.07	55.10	2.03	3921.69
MW - 9	05/28/03	3975.06	53.11	55.35	2.24	3921.61
MW - 9	06/03/03	3975.06	53.34	54.20	0.86	3921.59
MW - 9	06/10/03	3975.06	53.40	53.46	0.06	3921.65
MW - 9	07/01/03	3975.06	53.48	53.97	0.49	3921.51
MW - 9	07/08/03	3975.06	53.38	53.94	0.56	3921.60
MW - 9	07/29/03	3975.06	53.12	54.49	1.37	3921.73
MW - 9	08/04/03	3975.06	53.32	54.96	1.64	3921.49
MW - 9	08/18/03	3975.06	53.31	54.09	0.78	3921.63
MW - 9	08/25/03	3975.06	53.29	55.42	2.13	3921.45
MW - 9	10/01/03	3975.06	53.18	53.41	0.23	3921.85
MW - 9	10/06/03	3975.06	53.30	53.86	0.56	3921.68
MW - 9	10/08/03	3975.06	53.60	54.33	0.73	3921.35
MW - 9	10/15/03	3975.06	53.64	54.02	0.38	3921.36
MW - 9	11/12/03	3975.06	53.61	54.98	1.37	3921.24
MW - 9	11/19/03	3975.06	53.51	55.20	1.69	3921.30
MW - 9	12/01/03	3975.06	53.54	55.31	1.77	3921.25
MW - 9	12/10/03	3975.06	53.21	54.93	1.72	3921.59
MW - 9	02/05/04	3975.06	53.60	55.27	1.67	3921.21
MW - 9	02/17/04	3975.06	53.33	54.62	1.29	3921.54
MW - 9	02/25/04	3975.06	53.62	55.29	1.67	3921.19
MW - 9	03/09/04	3975.06	53.41	55.55	2.14	3921.33
MW - 9	03/16/04	3975.06	53.28	55.11	1.83	3921.51
MW - 9	03/22/04	3975.06	53.41	53.89	0.48	3921.58
MW - 9	04/07/04	3975.06	53.73	53.81	0.08	3921.32
MW - 9	04/12/04	3975.06	53.55	53.96	0.41	3921.45
MW - 9	04/19/04	3975.06	53.69	53.86	0.17	3921.34
MW - 9	05/05/04	3975.06	53.50	54.22	0.72	3921.45
MW - 9	05/11/04	3975.06	53.60	54.98	1.38	3921.25
MW - 9	06/07/04	3975.06	53.10	54.64	1.54	3921.73
MW - 9	06/15/04	3975.06	53.11	54.69	1.58	3921.71
MW - 9	06/20/04	3975.06	53.11	54.69	1.58	3921.71
MW - 9	06/21/04	3975.06	53.08	54.57	1.49	3921.76

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	06/28/04	3975.06	53.08	54.86	1.78	3921.71
MW - 9	07/08/04	3975.06	53.09	54.79	1.70	3921.72
MW - 9	07/12/04	3975.06	53.10	54.81	1.71	3921.70
MW - 9	08/12/04	3975.06	53.26	54.66	1.40	3921.59
MW - 9	08/17/04	3975.06	53.27	54.85	1.58	3921.55
MW - 9	08/26/04	3975.06	53.38	54.30	0.92	3921.54
MW - 9	09/01/04	3975.06	53.44	54.08	0.64	3921.52
MW - 9	09/03/04	3975.06	53.44	53.99	0.55	3921.54
MW - 9	09/08/04	3975.06	53.38	54.40	1.02	3921.53
MW - 9	09/14/04	3975.06	53.44	54.13	0.69	3921.52
MW - 9	09/22/04	3975.06	53.51	54.20	0.69	3921.45
MW - 9	10/01/04	3975.06	53.36	54.50	1.14	3921.53
MW - 9	10/08/04	3975.06	53.53	54.11	0.58	3921.44
MW - 9	10/15/04	3975.06	53.35	54.36	1.01	3921.56
MW - 9	10/22/04	3975.06	53.50	54.19	0.69	3921.46
MW - 9	11/12/04	3975.06	53.62	54.40	0.78	3921.32
MW - 9	11/26/04	3975.06	53.45	54.50	1.05	3921.45
MW - 9	12/02/04	3975.06	53.43	54.39	0.96	3921.49
MW - 9	12/06/04	3975.06	53.42	54.10	0.68	3921.54
MW - 9	12/13/04	3975.06	53.43	54.00	0.57	3921.54
MW - 9	12/15/04	3975.06	53.43	54.00	0.57	3921.54
MW - 9	12/27/04	3975.06	53.40	54.30	0.90	3921.53
MW - 9	01/10/05	3975.06	53.34	53.81	0.47	3921.65
MW - 9	01/18/05	3975.06	53.30	53.90	0.60	3921.67
MW - 9	01/25/05	3975.06	53.25	54.05	0.80	3921.69
MW - 9	01/27/05	3975.06	53.33	53.51	0.18	3921.70
MW - 9	02/01/05	3975.06	53.22	53.66	0.44	3921.77
MW - 9	02/07/05	3975.06	53.19	53.60	0.41	3921.81
MW - 9	02/11/05	3975.06	53.20	53.59	0.39	3921.80
MW - 9	02/15/05	3975.06	53.05	53.55	0.50	3921.94
MW - 9	02/22/05	3975.06	53.20	53.59	0.39	3921.80
MW - 9	02/24/05	3975.06	53.05	53.70	0.65	3921.91
MW - 9	03/03/05	3975.06	53.13	53.78	0.65	3921.83
MW - 9	03/09/05	3975.06	53.13	53.78	0.65	3921.83
MW - 9	03/22/05	3975.06	52.90	53.85	0.95	3922.02
MW - 9	03/24/05	3975.06	52.90	53.85	0.95	3922.02
MW - 9	03/31/05	3975.06	52.92	53.76	0.84	3922.01
MW - 9	06/22/05	3975.06	53.82	54.18	0.36	3921.19
MW - 9	07/21/05	3975.06	52.94	53.55	0.61	3922.03
MW - 9	08/03/05	3975.06	52.87	53.86	0.99	3922.04
MW - 9	08/12/05	3975.06	52.92	53.63	0.71	3922.03
MW - 9	08/15/05	3975.06	52.92	53.48	0.56	3922.06
MW - 9	08/22/05	3975.06	52.87	53.64	0.77	3922.07

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	08/30/05	3975.06	52.80	53.97	1.17	3922.08
MW - 9	09/07/05	3975.06	52.83	53.74	0.91	3922.09
MW - 9	09/14/05	3975.06	52.85	53.40	0.55	3922.13
MW - 9	09/20/05	3975.06	52.80	53.90	1.10	3922.10
MW - 9	09/21/05	3975.06	52.86	53.62	0.76	3922.09
MW - 9	09/28/05	3975.06	52.78	54.02	1.24	3922.09
MW - 9	10/06/05	3975.06	52.83	53.70	0.87	3922.10
MW - 9	10/13/05	3975.06	52.86	53.64	0.78	3922.08
MW - 9	10/20/05	3975.06	52.81	53.50	0.69	3922.15
MW - 9	10/26/05	3975.06	52.87	53.60	0.73	3922.08
MW - 9	11/03/05	3975.06	52.77	53.88	1.11	3922.12
MW - 9	11/10/05	3975.06	52.76	53.83	1.07	3922.14
MW - 9	11/16/05	3975.06	52.84	53.59	0.75	3922.11
MW - 9	11/23/05	3975.06	52.90	53.51	0.61	3922.07
MW - 9	11/28/05	3975.06	52.75	53.80	1.05	3922.15
MW - 9	12/05/05	3975.06	52.85	53.48	0.63	3922.12
MW - 9	12/12/05	3975.06	52.84	53.50	0.66	3922.12
MW - 9	12/16/05	3975.06	53.00	53.41	0.41	3922.00
MW - 9	12/19/05	3975.06	52.89	53.51	0.62	3922.08
MW - 9	12/29/05	3975.06	52.73	53.55	0.82	3922.21
MW - 9	01/04/06	3975.06	52.76	53.51	0.75	3922.19
MW - 9	01/10/06	3975.06	52.68	53.51	0.83	3922.26
MW - 9	01/17/06	3975.06	52.77	53.85	1.08	3922.13
MW - 9	01/26/06	3975.06	52.75	53.80	1.05	3922.15
MW - 9	01/31/06	3975.06	52.79	53.75	0.96	3922.13
MW - 9	02/07/06	3975.06	52.79	53.70	0.91	3922.13
MW - 9	02/09/06	3975.06	52.90	53.10	0.20	3922.13
MW - 9	02/13/06	3975.06	52.76	53.58	0.82	3922.18
MW - 9	02/22/06	3975.06	52.79	53.60	0.81	3922.15
MW - 9	02/28/06	3975.06	52.77	53.60	0.83	3922.17
MW - 9	03/07/06	3975.06	52.76	53.58	0.82	3922.18
MW - 9	03/15/06	3975.06	52.75	53.60	0.85	3922.18
MW - 9	03/20/06	3975.06	52.75	53.52	0.77	3922.19
MW - 9	03/22/06	3975.06	52.96	52.98	0.02	3922.10
MW - 9	03/29/06	3975.06	52.80	53.21	0.41	3922.20
MW - 9	04/11/06	3975.06	52.74	53.42	0.68	3922.22
MW - 9	04/18/06	3975.06	52.75	53.41	0.66	3922.21
MW - 9	04/25/06	3975.06	52.83	53.07	0.24	3922.19
MW - 9	05/02/06	3975.06	52.74	53.34	0.60	3922.23
MW - 9	05/09/06	3975.06	52.73	53.34	0.61	3922.24
MW - 9	05/16/06	3975.06	52.74	53.43	0.69	3922.22
MW - 9	05/23/06	3975.06	52.71	53.48	0.77	3922.23
MW - 9	05/31/06	3975.06	52.71	53.54	0.83	3922.23

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	06/06/06	3975.06	52.73	53.88	1.15	3922.16
MW - 9	06/13/06	3975.06	52.72	53.38	0.66	3922.24
MW - 9	06/20/06	3975.06	52.72	53.38	0.66	3922.24
MW - 9	06/21/06	3975.06	52.79	53.07	0.28	3922.23
MW - 9	07/06/06	3975.06	52.69	53.52	0.83	3922.25
MW - 9	07/12/06	3975.06	52.66	53.66	1.00	3922.25
MW - 9	07/20/06	3975.06	52.63	53.61	0.98	3922.28
MW - 9	07/25/06	3975.06	52.75	53.70	0.95	3922.17
MW - 9	08/01/06	3975.06	52.70	53.49	0.79	3922.24
MW - 9	08/16/06	3975.06	52.68	53.69	1.01	3922.23
MW - 9	08/23/06	3975.06	52.70	53.47	0.77	3922.24
MW - 9	08/28/06	3975.06	52.72	53.36	0.64	3922.24
MW - 9	09/12/06	3975.06	52.67	53.65	0.98	3922.24
MW - 9	09/22/06	3975.06	52.65	53.60	0.95	3922.27
MW - 9	09/27/06	3975.06	52.70	53.38	0.68	3922.26
MW - 9	10/06/06	3975.06	52.64	53.64	1.00	3922.27
MW - 9	10/10/06	3975.06	52.71	53.30	0.59	3922.26
MW - 9	10/16/06	3975.06	52.74	53.39	0.65	3922.22
MW - 9	10/26/06	3975.06	52.68	53.49	0.81	3922.26
MW - 9	11/03/06	3975.06	52.69	53.39	0.70	3922.27
MW - 9	11/09/06	3975.06	52.70	53.35	0.65	3922.26
MW - 9	11/16/06	3975.06	52.70	53.35	0.65	3922.26
MW - 9	11/22/06	3975.06	52.71	53.29	0.58	3922.26
MW - 9	12/04/06	3975.06	52.66	53.45	0.79	3922.28
MW - 9	12/08/06	3975.06	52.65	53.55	0.90	3922.28
MW - 9	12/15/06	3975.06	52.67	53.32	0.65	3922.29
MW - 9	01/05/07	3975.06	52.61	53.62	1.01	3922.30
MW - 9	01/12/07	3975.06	52.66	53.37	0.71	3922.29
MW - 9	01/18/07	3975.06	52.68	53.30	0.62	3922.29
MW - 9	01/24/07	3975.06	52.69	53.28	0.59	3922.28
MW - 9	01/29/07	3975.06	52.67	53.20	0.53	3922.31
MW - 9	02/09/07	3975.06	52.63	53.36	0.73	3922.32
MW - 9	02/16/07	3975.06	52.65	53.34	0.69	3922.31
MW - 9	02/23/07	3975.06	52.63	53.29	0.66	3922.33
MW - 9	03/02/07	3975.06	52.62	53.45	0.83	3922.32
MW - 9	03/14/07	3975.06	52.66	53.09	0.43	3922.34
MW - 9	03/26/07	3975.06	52.63	53.26	0.63	3922.34
MW - 9	04/03/07	3975.06	52.60	53.38	0.78	3922.34
MW - 9	04/09/07	3975.06	52.61	53.27	0.66	3922.35
MW - 9	04/26/07	3975.06	52.58	53.44	0.86	3922.35
MW - 9	04/30/07	3975.06	52.22	53.26	1.04	3922.68
MW - 9	05/11/07	3975.06	52.59	53.65	1.06	3922.31
MW - 9	05/16/07	3975.06	52.64	53.11	0.47	3922.35



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	05/22/07	3975.06	52.64	53.14	0.50	3922.35
MW - 9	05/29/07	3975.06	52.61	53.16	0.55	3922.37
MW - 9	06/01/07	3975.06	52.59	53.23	0.64	3922.37
MW - 9	06/08/07	3975.06	52.61	53.20	0.59	3922.36
MW - 9	06/11/07	3975.06	52.65	53.01	0.36	3922.36
MW - 9	06/20/07	3975.06	52.60	53.23	0.63	3922.37
MW - 9	07/10/07	3975.06	52.56	53.35	0.79	3922.38
MW - 9	07/20/07	3975.06	52.56	53.33	0.77	3922.38
MW - 9	07/25/07	3975.06	52.69	53.16	0.47	3922.30
MW - 9	08/01/07	3975.06	52.58	53.14	0.56	3922.40
MW - 9	08/10/07	3975.06	52.29	53.16	0.87	3922.64
MW - 9	08/15/07	3975.06	52.60	53.05	0.45	3922.39
MW - 9	08/30/07	3975.06	52.56	53.26	0.70	3922.40
MW - 9	08/31/07	3975.06	52.56	53.26	0.70	3922.40
MW - 9	09/10/07	3975.06	52.53	53.34	0.81	3922.41
MW - 9	09/19/07	3975.06	52.53	53.30	0.77	3922.41
MW - 9	09/27/07	3975.06	52.55	53.15	0.60	3922.42
MW - 9	10/01/07	3975.06	52.58	52.99	0.41	3922.42
MW - 9	10/19/07	3975.06	52.50	53.35	0.85	3922.43
MW - 9	10/26/07	3975.06	52.53	53.15	0.62	3922.44
MW - 9	11/12/07	3975.06	52.73	53.16	0.43	3922.27
MW - 9	11/16/07	3975.06	52.62	52.83	0.21	3922.41
MW - 9	11/29/07	3975.06	52.66	53.01	0.35	3922.35
MW - 9	12/13/07	3975.06	52.51	53.20	0.69	3922.45
MW - 9	01/10/08	3975.06	52.49	53.18	0.69	3922.47
MW - 9	01/17/08	3975.06	52.50	53.13	0.63	3922.47
MW - 9	01/22/08	3975.06	52.49	53.12	0.63	3922.48
MW - 9	2/6/2008 #1	3975.06	52.53	52.97	0.44	3922.46
MW - 9	02/06/08 #2	3975.06	52.50	52.66	0.16	3922.54
MW - 9	2/12/08 #1	3975.06	52.54	52.90	0.36	3922.47
MW - 9	2/12/08 #2	3975.06	52.60	52.63	0.03	3922.46
MW - 9	2/20/08 #1	3975.06	52.52	52.93	0.41	3922.48
MW - 9	2/20/08 #2	3975.06	52.58	52.68	0.10	3922.47
MW - 9	2/27/08 #1	3975.06	52.52	52.91	0.39	3922.48
MW - 9	2/27/08 #2	3975.06	52.57	52.66	0.09	3922.48
MW - 9	03/07/08	3975.06	52.52	53.00	0.48	3922.47
MW - 9	3/12/08 #1	3975.06	52.52	53.00	0.48	3922.47
MW - 9	3/12/08 #2	3975.06	52.56	52.66	0.10	3922.49
MW - 9	3/20/08 #1	3975.06	52.50	52.92	0.42	3922.50
MW - 9	3/20/08#2	3975.06	52.54	52.70	0.16	3922.50
MW - 9	3/23/08 #1	3975.06	52.49	52.89	0.40	3922.51
MW - 9	3/23/08 #2	3975.06	52.55	52.63	0.08	3922.50
MW - 9	4/2/08 #1	3975.06	52.51	52.86	0.35	3922.50

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	4/2/08 #2	3975.06	52.54	52.68	0.14	3922.50
MW - 9	4/9/08 #1	3975.06	52.48	52.87	0.39	3922.52
MW - 9	4/9/08 #2	3975.06	52.53	52.72	0.19	3922.50
MW - 9	04/16/08	3975.06	52.48	52.89	0.41	3922.52
MW - 9	04/23/08	3975.06	52.49	52.86	0.37	3922.51
MW - 9	04/30/08	3975.06	52.47	52.90	0.43	3922.53
MW - 9	05/29/08	3975.06	52.48	52.85	0.37	3922.52
MW - 9	06/02/08	3975.06	52.48	52.77	0.29	3922.54
MW - 9	06/03/08	3975.06	52.48	52.77	0.29	3922.54
MW - 9	06/11/08	3975.06	52.47	52.87	0.40	3922.53
MW - 9	06/18/08	3975.06	52.47	52.89	0.42	3922.53
MW - 9	06/23/08	3975.06	52.49	52.78	0.29	3922.53
MW - 9	07/01/08	3975.06	52.48	52.86	0.38	3922.52
MW - 9	07/09/08	3975.06	52.59	52.86	0.27	3922.43
MW - 9	07/15/08	3975.06	52.48	52.80	0.32	3922.53
MW - 9	07/22/08	3975.06	52.47	52.85	0.38	3922.53
MW - 9	08/02/08	3975.06	52.46	52.90	0.44	3922.53
MW - 9	08/13/08	3975.06	52.45	52.88	0.43	3922.55
MW - 9	09/03/08	3975.06	52.42	52.98	0.56	3922.56
MW - 9	09/11/08	3975.06	52.46	52.85	0.39	3922.54
MW - 9	09/19/08	3975.06	52.44	52.82	0.38	3922.56
MW - 9	09/26/08	3975.06	52.46	52.81	0.35	3922.55
MW - 9	10/10/08	3975.06	52.44	52.81	0.37	3922.56
MW - 9	10/17/08	3975.06	52.47	52.78	0.31	3922.54
MW - 9	10/21/08	3975.06	52.46	52.70	0.24	3922.56
MW - 9	10/30/08	3975.06	52.45	52.78	0.33	3922.56
MW - 9	11/04/08	3975.06	52.46	52.75	0.29	3922.56
MW - 9	11/18/08	3975.06	52.46	52.84	0.38	3922.54
MW - 9	11/25/08	3975.06	52.46	52.76	0.30	3922.56
MW - 9	12/10/08	3975.06	52.42	52.84	0.42	3922.58
MW - 9	12/18/08	3975.06	52.43	52.80	0.37	3922.57
MW - 9	01/06/09	3975.06	52.43	52.89	0.46	3922.56
MW - 9	01/14/09	3975.06	52.45	52.89	0.44	3922.54
MW - 9	01/21/09	3975.06	47.11	47.60	0.49	3927.88
MW - 9	01/22/09	3975.06	52.42	52.75	0.33	3922.59
MW - 9	01/30/09	3975.06	52.43	52.76	0.33	3922.58
MW - 9	02/03/09	3975.06	52.44	52.69	0.25	3922.58
MW - 9	02/12/09	3975.06	52.43	52.79	0.36	3922.58
MW - 9	02/19/09	3975.06	52.44	52.82	0.38	3922.56
MW - 9	03/04/09	3975.06	52.49	52.89	0.40	3922.51
MW - 9	03/06/09	3975.06	52.40	52.84	0.44	3922.59
MW - 9	03/11/09	3975.06	52.44	52.78	0.34	3922.57
MW - 9	03/16/09	3975.06	52.53	52.92	0.39	3922.47

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	03/19/09	3975.06	52.43	52.74	0.31	3922.58
MW - 9	03/24/09	3975.06	52.39	52.74	0.35	3922.62
MW - 9	04/03/09	3975.06	52.73	52.82	0.09	3922.32
MW - 9	04/15/09	3975.06	52.40	52.75	0.35	3922.61
MW - 9	04/17/09	3975.06	52.43	52.61	0.18	3922.60
MW - 9	04/22/09	3975.06	52.38	52.81	0.43	3922.62
MW - 9	04/29/09	3975.06	52.39	52.74	0.35	3922.62
MW - 9	05/20/09	3975.06	52.39	52.76	0.37	3922.61
MW - 9	05/20/09	3975.06	52.39	52.76	0.37	3922.61
MW - 9	06/09/09	3975.06	52.38	52.78	0.40	3922.62
MW - 9	06/17/09	3975.06	52.40	52.22	-0.18	3922.69
MW - 9	06/23/09	3975.06	52.36	52.83	0.47	3922.63
MW - 9	07/01/09	3975.06	52.39	52.25	-0.14	3922.69
MW - 9	07/08/09	3975.06	52.40	52.68	0.28	3922.62
MW - 9	07/15/09	3975.06	52.38	52.66	0.28	3922.64
MW - 9	07/17/09	3975.06	52.41	52.63	0.22	3922.62
MW - 9	07/23/09	3975.06	52.41	52.66	0.25	3922.61
MW - 9	07/24/09	3975.06	52.46	52.56	0.10	3922.59
MW - 9	07/30/09	3975.06	52.41	52.65	0.24	3922.61
MW - 9	08/04/09	3975.06	52.04	52.62	0.58	3922.93
MW - 9	08/12/09	3975.06	52.40	52.69	0.29	3922.62
MW - 9	08/20/09	3975.06	52.38	52.74	0.36	3922.63
MW - 9	08/26/09	3975.06	52.31	52.83	0.52	3922.67
MW - 9	09/02/09	3975.06	52.40	52.69	0.29	3922.62
MW - 9	09/09/09	3975.06	52.39	52.72	0.33	3922.62
MW - 9	09/14/09	3975.06	52.40	52.65	0.25	3922.62
MW - 9	09/21/09	3975.06	52.39	52.69	0.30	3922.63
MW - 9	10/01/09	3975.06	52.41	52.72	0.31	3922.60
MW - 9	10/08/09	3975.06	52.43	52.76	0.33	3922.58
MW - 9	10/14/09	3975.06	52.39	52.68	0.29	3922.63
MW - 9	10/21/09	3975.06	52.37	52.73	0.36	3922.64
MW - 9	10/28/09	3975.06	52.38	52.67	0.29	3922.64
MW - 9	11/04/09	3975.06	52.39	52.64	0.25	3922.63
MW - 9	11/11/09	3975.06	52.38	52.63	0.25	3922.64
MW - 9	11/18/09	3975.06	52.38	52.65	0.27	3922.64
MW - 9	11/25/09	3975.06	52.39	52.64	0.25	3922.63
MW - 9	12/02/09	3975.06	52.39	52.68	0.29	3922.63
MW - 9	12/10/09	3975.06	52.39	52.65	0.26	3922.63
MW - 9	12/17/09	3975.06	52.45	52.63	0.18	3922.58
MW - 9	12/21/09	3975.06	52.41	52.65	0.24	3922.61
MW - 9	12/30/09	3975.06	52.45	52.73	0.28	3922.57
MW - 9	01/07/10	3975.06	52.39	52.61	0.22	3922.64
MW - 9	01/18/10	3975.06	52.36	52.69	0.33	3922.65

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	02/02/10	3975.06	52.36	52.70	0.34	3922.65
MW - 9	02/11/10	3975.06	52.35	52.62	0.27	3922.67
MW - 9	02/18/10	3975.06	52.34	52.66	0.32	3922.67
MW - 9	02/25/10	3975.06	52.44	52.70	0.26	3922.58
MW - 9	03/02/10	3975.06	52.45	52.68	0.23	3922.58
MW - 9	03/04/10	3975.06	52.34	52.58	0.24	3922.68
MW - 9	03/10/10	3975.06	52.36	52.60	0.24	3922.66
MW - 9	03/12/10	3975.06	52.48	52.64	0.16	3922.56
MW - 9	03/15/10	3975.06	52.38	52.58	0.20	3922.65
MW - 9	03/18/10	3975.06	52.37	52.56	0.19	3922.66
MW - 9	03/22/10	3975.06	52.43	52.64	0.21	3922.60
MW - 9	03/24/10	3975.06	52.47	52.60	0.13	3922.57
MW - 9	03/30/10	3975.06	52.44	52.64	0.20	3922.59
MW - 9	04/07/10	3975.06	52.45	52.71	0.26	3922.57
MW - 9	04/12/10	3975.06	52.34	52.52	0.18	3922.69
MW - 9	04/16/10	3975.06	52.51	52.69	0.18	3922.52
MW - 9	04/20/10	3975.06	52.41	52.53	0.12	3922.63
MW - 9	04/27/10	3975.06	52.41	52.50	0.09	3922.64
MW - 9	04/30/10	3975.06	52.39	52.49	0.10	3922.66
MW - 9	05/12/10	3975.06	52.27	52.33	0.06	3922.78
MW - 9	05/14/10	3975.06	52.41	52.51	0.10	3922.64
MW - 9	05/17/10	3975.06	52.38	52.42	0.04	3922.67
MW - 9	05/20/10	3975.06	52.29	52.32	0.03	3922.77
MW - 9	05/25/10	3975.06	52.27	52.34	0.07	3922.78
MW - 9	06/01/10	3975.06	52.28	52.33	0.05	3922.77
MW - 9	06/09/10	3975.06	52.30	52.34	0.04	3922.75
MW - 9	06/16/10	3975.06	52.40	52.50	0.10	3922.65
MW - 9	06/28/10	3975.06	52.39	52.49	0.10	3922.66
MW - 9	07/09/10	3975.06	52.42	52.50	0.08	3922.63
MW - 9	07/14/10	3975.06	52.34	52.50	0.16	3922.70
MW - 9	07/23/10	3975.06	52.35	52.51	0.16	3922.69
MW - 9	07/29/10	3975.06	52.35	52.52	0.17	3922.68
MW - 9	08/05/10	3975.06	52.35	52.60	0.25	3922.67
MW - 9	08/12/10	3975.06	52.35	52.54	0.19	3922.68
MW - 9	08/16/10	3975.06	52.35	52.54	0.19	3922.68
MW - 9	08/18/10	3975.06	52.35	52.54	0.19	3922.68
MW - 9	08/25/10	3975.06	52.41	52.63	0.22	3922.62
MW - 9	09/02/10	3975.06	52.35	52.51	0.16	3922.69
MW - 9	09/08/10	3975.06	52.37	52.52	0.15	3922.67
MW - 9	09/30/10	3975.06	52.35	52.53	0.18	3922.68
MW - 9	10/07/10	3975.06	52.36	52.52	0.16	3922.68
MW - 9	10/14/10	3975.06	52.37	52.54	0.17	3922.66
MW - 9	10/21/10	3975.06	52.39	52.52	0.13	3922.65

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	11/04/10	3975.06	52.35	52.53	0.18	3922.68
MW - 9	11/10/10	3975.06	52.41	52.49	0.08	3922.64
MW - 9	12/01/10	3975.06	52.31	52.56	0.25	3922.71
MW - 9	12/08/10	3975.06	52.39	52.54	0.15	3922.65
MW - 9	01/26/11	3975.06	52.31	52.64	0.33	3922.70
MW - 9	02/28/11	3975.06	52.40	52.53	0.13	3922.64
MW - 9	03/04/11	3975.06	52.28	52.54	0.26	3922.74
MW - 9	03/09/11	3975.06	52.32	52.54	0.22	3922.71
MW - 9	04/28/11	3975.06	52.27	52.51	0.24	3922.75
MW - 9	05/04/11	3975.06	52.21	52.51	0.30	3922.81
MW - 9	05/11/11	3975.06	52.34	52.54	0.20	3922.69
MW - 9	05/12/11	3975.06	52.25	52.48	0.23	3922.78
MW - 9	05/18/11	3975.06	52.23	52.41	0.18	3922.80
MW - 9	05/23/11	3975.06	52.20	52.48	0.28	3922.82
MW - 9	06/08/11	3975.06	52.41	52.73	0.32	3922.60
MW - 9	06/16/11	3975.06	52.32	52.62	0.30	3922.70
MW - 9	06/22/11	3975.06	52.21	52.54	0.33	3922.80
MW - 9	06/30/11	3975.06	52.39	52.65	0.26	3922.63
MW - 9	07/06/11	3975.06	52.34	52.52	0.18	3922.69
MW - 9	07/13/11	3975.06	52.36	52.59	0.23	3922.67
MW - 9	07/15/11	3975.06	52.35	52.58	0.23	3922.68
MW - 9	07/19/11	3975.06	52.34	52.54	0.20	3922.69
MW - 9	07/21/11	3975.06	52.33	52.43	0.10	3922.72
MW - 9	07/26/11	3975.06	52.35	52.49	0.14	3922.69
MW - 9	07/28/11	3975.06	52.30	52.46	0.16	3922.74
MW - 9	08/02/11	3975.06	52.34	52.65	0.31	3922.67
MW - 9	08/09/11	3975.06	52.30	52.47	0.17	3922.73
MW - 9	08/12/11	3975.06	52.36	52.52	0.16	3922.68
MW - 9	08/15/11	3975.06	52.33	52.52	0.19	3922.70
MW - 9	08/16/11	3975.06	52.37	52.54	0.17	3922.66
MW - 9	08/19/11	3975.06	52.37	52.48	0.11	3922.67
MW - 9	08/23/11	3975.06	52.33	52.45	0.12	3922.71
MW - 9	08/26/11	3975.06	52.35	52.56	0.21	3922.68
MW - 9	08/30/11	3975.06	52.21	52.47	0.26	3922.81
MW - 9	09/01/11	3975.06	52.40	52.47	0.07	3922.65
MW - 9	09/08/11	3975.06	-	52.45	0.00	3922.61
MW - 9	09/13/11	3975.06	-	52.36	0.00	3922.70
MW - 9	09/15/11	3975.06	-	52.53	0.00	3922.53
MW - 9	09/22/11	3975.06	-	52.37	0.00	3922.69
MW - 9	10/06/11	3975.06	-	52.46	0.00	3922.60
MW - 9	10/11/11	3975.06	-	52.46	0.00	3922.60
MW - 9	10/13/11	3975.06	-	52.48	0.00	3922.58
MW - 9	10/26/11	3975.06	-	52.51	0.00	3922.55

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	11/22/11	3975.06	52.51	52.55	0.04	3922.54
MW - 9	12/02/11	3975.06	-	52.49	0.00	3922.57
MW - 9	12/29/11	3975.06	-	52.45	0.00	3922.61
MW - 9	01/26/12	3975.06	52.42	52.45	0.03	3922.64
MW - 9	01/31/12	3975.06	-	52.35	0.00	3922.71
MW - 9	02/15/12	3975.06	52.40	52.42	0.02	3922.66
MW - 9	02/28/12	3975.06	52.38	52.39	0.01	3922.68
MW - 9	03/20/12	3975.06	52.35	52.47	0.12	3922.69
MW - 9	03/27/12	3975.06	52.35	52.51	0.16	3922.69
MW - 9	04/10/12	3975.06	52.38	52.57	0.19	3922.65
MW - 9	04/19/12	3975.06	52.34	52.52	0.18	3922.69
MW - 9	04/26/12	3975.06	52.37	52.51	0.14	3922.67
MW - 9	05/08/12	3975.06	52.37	52.51	0.14	3922.67
MW - 9	05/15/12	3975.06	52.38	52.61	0.23	3922.65
MW - 9	05/17/12	3975.06	52.37	52.60	0.23	3922.66
MW - 9	06/05/12	3975.06	52.36	52.61	0.25	3922.66
MW - 9	06/21/12	3975.06	52.36	52.72	0.36	3922.65
MW - 9	06/28/12	3975.06	52.34	52.78	0.44	3922.65
MW - 9	07/17/12	3975.06	52.43	52.76	0.33	3922.58
MW - 9	08/01/12	3975.06	52.49	52.72	0.23	3922.54
MW - 9	10/02/12	3975.06	52.52	52.96	0.44	3922.47
MW - 9	10/09/12	3975.06	52.38	52.60	0.22	3922.65
MW - 9	10/16/12	3975.06	52.52	52.83	0.31	3922.49
MW - 9	10/25/12	3975.06	52.51	52.93	0.42	3922.49
MW - 9	10/30/12	3975.06	52.51	52.92	0.41	3922.49
MW - 9	11/29/12	3975.06	52.44	52.95	0.51	3922.54
MW - 9	12/14/12	3975.06	52.48	52.92	0.44	3922.51
MW - 9	02/11/13	3975.06	52.46	52.98	0.52	3922.52
MW - 9	04/11/13	3975.06	52.52	52.85	0.33	3922.49
MW - 9	04/15/13	3975.06	52.39	52.66	0.27	3922.63
MW - 9	04/22/13	3975.06	52.51	52.79	0.28	3922.51
MW - 9	05/06/13	3975.06	52.53	52.90	0.37	3922.47
MW - 9	05/09/13	3975.06	52.53	52.93	0.40	3922.47
MW - 9	05/20/13	3975.06	52.53	52.99	0.46	3922.46
MW - 9	05/24/13	3975.06	52.61	53.07	0.46	3922.38
MW - 9	05/29/13	3975.06	52.47	52.54	0.07	3922.58
MW - 9	05/31/13	3975.06	52.49	52.75	0.26	3922.53
MW - 9	06/07/13	3975.06	52.45	52.73	0.28	3922.57
MW - 9	06/12/13	3975.06	52.43	52.69	0.26	3922.59
MW - 9	06/14/13	3975.06	52.44	52.70	0.26	3922.58
MW - 9	06/19/13	3975.06	52.43	52.58	0.15	3922.61
MW - 9	06/21/13	3975.06	52.47	52.61	0.14	3922.57
MW - 9	06/25/13	3975.06	52.43	52.63	0.20	3922.60

TABLE 7

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	06/26/13	3975.06	52.57	52.75	0.18	3922.46
MW - 9	07/03/13	3975.06	52.62	52.92	0.30	3922.40
MW - 9	07/09/13	3975.06	52.69	53.05	0.36	3922.32
MW - 9	07/11/13	3975.06	52.52	52.84	0.32	3922.49
MW - 9	07/24/13	3975.06	52.47	52.83	0.36	3922.54
MW - 9	07/26/13	3975.06	52.45	52.78	0.33	3922.56
MW - 9	07/31/13	3975.06	52.45	52.81	0.36	3922.56
MW - 9	08/02/13	3975.06	52.48	52.85	0.37	3922.52
MW - 9	08/06/13	3975.06	52.49	52.87	0.38	3922.51
MW - 9	08/14/13	3975.06	52.45	52.86	0.41	3922.55
MW - 9	08/21/13	3975.06	52.50	52.94	0.44	3922.49
MW - 9	08/26/13	3975.06	52.53	52.95	0.42	3922.47
MW - 9	09/06/13	3975.06	52.60	53.03	0.43	3922.40
MW - 9	08/30/13	3975.06	52.50	52.87	0.37	3922.50
MW - 9	09/13/13	3975.06	52.62	52.91	0.29	3922.40
MW - 9	09/27/13	3975.06	52.58	53.00	0.42	3922.42
MW - 9	09/30/13	3975.06	52.55	52.95	0.40	3922.45
MW - 9	10/02/13	3975.06	52.53	52.93	0.40	3922.47
MW - 9	10/03/13	3975.06	52.52	52.92	0.40	3922.48
MW - 9	10/11/13	3975.06	52.62	52.98	0.36	3922.39
MW - 9	10/17/13	3975.06	52.64	52.97	0.33	3922.37
MW - 9	10/22/13	3975.06	52.65	52.95	0.30	3922.37
MW - 9	10/24/13	3975.06	52.70	52.91	0.21	3922.33
MW - 9	10/30/13	3975.06	52.66	52.94	0.28	3922.36
MW - 9	11/01/13	3975.06	52.64	52.87	0.23	3922.39
MW - 9	11/04/13	3975.06	52.66	52.98	0.32	3922.35
MW - 9	11/08/13	3975.06	52.65	53.00	0.35	3922.36
MW - 9	11/13/13	3975.06	52.63	53.01	0.38	3922.37
MW - 9	11/15/13	3975.06	52.63	53.03	0.40	3922.37
MW - 9	11/18/13	3975.06	52.65	53.15	0.50	3922.34
MW - 9	12/12/13	3975.06	52.65	53.23	0.58	3922.32
MW - 9	12/16/13	3975.06	52.64	53.25	0.61	3922.33
MW - 9	12/18/13	3975.06	52.66	53.21	0.55	3922.32
MW - 9	12/23/13	3975.06	52.60	53.05	0.45	3922.39
MW - 9	12/30/13	3975.06	52.60	52.95	0.35	3922.41
MW - 9	01/09/15	3974.60	-	52.68	0.00	3921.92
MW - 9	01/06/14	3975.06	52.62	53.02	0.40	3922.38
MW - 9	01/15/14	3975.06	52.63	53.09	0.46	3922.36
MW - 9	01/17/14	3975.06	52.62	53.05	0.43	3922.38
MW - 9	01/20/14	3975.06	52.63	52.96	0.33	3922.38
MW - 9	01/22/14	3975.06	52.77	52.90	0.13	3922.27
MW - 9	01/29/14	3975.06	52.66	53.17	0.51	3922.32
MW - 9	02/04/14	3975.06	52.64	53.11	0.47	3922.35

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	02/13/14	3975.06	52.65	53.20	0.55	3922.33
MW - 9	02/21/14	3975.06	52.59	53.05	0.46	3922.40
MW - 9	02/26/14	3975.06	52.61	55.16	2.55	3922.07
MW - 9	03/12/14	3975.06	52.58	53.10	0.52	3922.40
MW - 9	03/14/14	3975.06	52.56	53.05	0.49	3922.43
MW - 9	03/17/14	3975.06	52.56	53.08	0.52	3922.42
MW - 9	03/24/14	3975.06	52.56	52.94	0.38	3922.44
MW - 9	03/26/14	3975.06	52.60	52.91	0.31	3922.41
MW - 9	04/09/14	3975.06	52.63	53.02	0.39	3922.37
MW - 9	04/18/14	3975.06	52.65	53.00	0.35	3922.36
MW - 9	04/21/14	3975.06	52.65	52.99	0.34	3922.36
MW - 9	04/28/14	3975.06	52.65	53.03	0.38	3922.35
MW - 9	05/09/14	3975.06	52.67	53.15	0.48	3922.32
MW - 9	05/12/14	3975.06	52.64	52.95	0.31	3922.37
MW - 9	05/19/14	3975.06	52.62	52.98	0.36	3922.39
MW - 9	05/28/14	3975.06	52.69	52.90	0.21	3922.34
MW - 9	06/04/14	3975.06	52.66	52.81	0.15	3922.38
MW - 9	06/13/14	3975.06	52.63	52.85	0.22	3922.40
MW - 9	06/16/14	3975.06	52.69	52.90	0.21	3922.34
MW - 9	07/02/14	3975.06	52.70	53.11	0.41	3922.30
MW - 9	07/07/14	3975.06	52.73	53.04	0.31	3922.28
MW - 9	07/18/14	3975.06	52.73	53.10	0.37	3922.27
MW - 9	07/30/14	3975.06	52.69	53.13	0.44	3922.30
MW - 9	08/11/14	3975.06	52.70	53.20	0.50	3922.29
MW - 9	08/22/14	3975.06	52.74	53.33	0.59	3922.23
MW - 9	08/23/14	3975.06	52.74	53.33	0.59	3922.23
MW - 9	09/10/14	3975.06	52.79	53.45	0.66	3922.17
MW - 9	09/23/14	3975.06	52.83	53.29	0.46	3922.16
MW - 9	09/25/14	3975.06	52.98	53.35	0.37	3922.02
MW - 9	10/03/14	3975.06	52.76	53.28	0.52	3922.22
MW - 9	10/15/14	3975.06	52.79	53.44	0.65	3922.17
MW - 9	10/17/14	3975.06	52.79	53.40	0.61	3922.18
MW - 9	10/24/14	3975.06	52.77	53.02	0.25	3922.25
MW - 9	10/27/14	3975.06	52.74	53.00	0.26	3922.28
MW - 9	10/31/14	3975.06	52.76	53.14	0.38	3922.24
MW - 9	11/03/14	3975.06	52.58	53.21	0.63	3922.39
MW - 9	11/10/14	3975.06	52.75	53.11	0.36	3922.26
MW - 9	11/14/14	3975.06	52.77	53.04	0.27	3922.25
MW - 9	11/17/14	3975.06	52.90	53.03	0.13	3922.14
MW - 9	11/18/14	3975.06	52.90	53.03	0.13	3922.14
MW - 9	11/21/14	3975.06	52.82	53.03	0.21	3922.21
MW - 9	12/03/14	3975.06	52.78	53.17	0.39	3922.22
MW - 9	12/05/14	3975.06	52.81	53.03	0.22	3922.22



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	12/12/14	3975.06	52.83	53.05	0.22	3922.20
MW - 9	12/15/14	3975.06	52.83	53.05	0.22	3922.20
MW - 9	12/19/14	3975.06	52.80	53.03	0.23	3922.23
MW - 9	12/22/14	3975.06	52.78	53.01	0.23	3922.25
MW - 9	01/05/15	3975.06	52.74	52.97	0.23	3922.29
MW - 9	01/09/15	3975.06	52.73	53.23	0.50	3922.26
MW - 9	01/14/15	3975.06	52.72	53.28	0.56	3922.26
MW - 9	01/21/15	3975.06	52.71	52.96	0.25	3922.31
MW - 9	02/18/15	3975.06	52.72	53.00	0.28	3922.30
MW - 9	02/19/15	3975.06	52.73	53.06	0.33	3922.28
MW - 9	03/09/15	3975.06	52.73	52.98	0.25	3922.29
MW - 9	03/11/15	3975.06	52.70	53.26	0.56	3922.28
MW - 9	03/18/15	3975.06	52.76	53.08	0.32	3922.25
MW - 9	03/31/15	3975.06	52.74	52.97	0.23	3922.29
MW - 9	04/09/15	3975.06	52.63	53.28	0.65	3922.33
MW - 9	04/15/15	3975.06	52.66	53.31	0.65	3922.30
MW - 9	04/22/15	3975.06	52.66	53.34	0.68	3922.30
MW - 9	05/12/15	3975.06	52.70	53.23	0.53	3922.28
MW - 9	05/26/15	3975.06	52.74	52.94	0.20	3922.29
MW - 9	06/01/15	3975.06	52.69	53.24	0.55	3922.29
MW - 9	06/04/15	3975.06	52.71	53.26	0.55	3922.27
MW - 9	06/22/15	3975.06	52.64	53.26	0.62	3922.33
MW - 9	06/26/15	3975.06	52.73	53.36	0.63	3922.24
MW - 9	07/22/15	3975.06	52.57	53.09	0.52	3922.41
MW - 9	07/27/15	3975.06	52.71	53.08	0.37	3922.29
MW - 9	08/18/15	3975.06	52.01	53.05	1.04	3922.89
MW - 9	09/09/15	3975.06	52.73	53.29	0.56	3922.25
MW - 9	10/08/15	3975.06	52.73	53.08	0.35	3922.28
MW - 9	09/30/15	3975.06	52.81	53.35	0.54	3922.17
MW - 9	10/16/15	3975.06	52.85	53.29	0.44	3922.14
MW - 9	10/21/15	3975.06	52.75	53.40	0.65	3922.21
MW - 9	11/18/15	3975.06	52.75	53.15	0.40	3922.25
MW - 9	11/23/15	3975.06	52.78	52.99	0.21	3922.25
MW - 9	12/04/15	3975.06	52.75	53.18	0.43	3922.25
MW - 9	12/09/15	3975.06	52.85	53.26	0.41	3922.15
MW - 9	01/12/16	3975.06	52.81	53.35	0.54	3922.17
MW - 9	01/22/16	3975.06	52.74	53.25	0.51	3922.24
MW - 9	01/25/16	3975.06	52.84	53.07	0.23	3922.19
MW - 9	02/12/16	3975.06	52.85	53.08	0.23	3922.18
MW - 9	02/17/16	3975.06	52.78	53.19	0.41	3922.22
MW - 9	02/24/16	3975.06	52.78	53.00	0.22	3922.25
MW - 9	03/09/16	3975.06	52.70	53.01	0.31	3922.31
MW - 9	03/30/16	3975.06	52.24	53.08	0.84	3922.69

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	04/13/16	3975.06	52.70	52.81	0.11	3922.34
MW - 9	04/27/16	3975.06	52.82	53.02	0.20	3922.21
MW - 9	05/11/16	3975.06	52.92	53.00	0.08	3922.13
MW - 9	06/03/16	3975.06	52.90	53.13	0.23	3922.13
MW - 9	07/01/16	3975.06	52.82	53.08	0.26	3922.20
MW - 9	07/08/16	3975.06	52.84	53.15	0.31	3922.17
MW - 9	07/12/16	3975.06	52.19	52.57	0.38	3922.81
MW - 9	07/18/16	3975.06	52.83	53.10	0.27	3922.19
MW - 9	08/02/16	3975.06	52.85	53.05	0.20	3922.18
MW - 9	08/12/16	3975.06	52.85	53.28	0.43	3922.15
MW - 9	08/17/16	3975.06	52.81	53.26	0.45	3922.18
MW - 9	09/21/16	3975.06	52.82	53.39	0.57	3922.15
MW - 9	10/21/16	3975.06	52.73	52.74	0.01	3922.33
MW - 9	10/24/16	3975.06	52.88	52.89	0.01	3922.18
MW - 9	10/26/16	3975.06	52.85	53.13	0.28	3922.17
MW - 9	10/31/16	3975.06	52.85	52.86	0.01	3922.21
MW - 9	11/21/16	3975.06	52.92	53.28	0.36	3922.09
MW - 9	11/28/16	3975.06	52.80	53.35	0.55	3922.18
MW - 9	12/07/16	3975.06	52.83	53.46	0.63	3922.14
MW - 9	12/14/16	3975.06	52.90	53.40	0.50	3922.09
MW - 9	12/21/16	3975.06	52.82	53.20	0.38	3922.18
MW - 9	01/04/17	3975.06	52.80	53.32	0.52	3922.18
MW - 9	01/12/17	3975.06	52.81	53.34	0.53	3922.17
MW - 9	01/26/17	3975.06	52.83	53.45	0.62	3922.14
MW - 9	02/07/17	3975.06	52.77	53.46	0.69	3922.19
MW - 9	02/21/17	3975.06	52.76	53.48	0.72	3922.19
MW - 9	02/23/17	3975.06	52.75	53.46	0.71	3922.20
MW - 9	03/08/17	3975.06	52.76	53.38	0.62	3922.21
MW - 9	04/07/17	3975.06	52.72	53.51	0.79	3922.22
MW - 9	04/18/17	3975.06	52.73	53.55	0.82	3922.21
MW - 9	05/10/17	3975.06	52.76	53.63	0.87	3922.17
MW - 9	05/24/17	3975.06	52.73	53.58	0.85	3922.20
MW - 9	06/02/17	3975.06	52.71	53.58	0.87	3922.22
MW - 9	07/12/17	3975.06	52.72	53.59	0.87	3922.21
MW - 9	07/19/17	3975.06	52.73	53.59	0.86	3922.20
MW - 9	07/27/17	3975.06	52.73	53.61	0.88	3922.20
MW - 9	08/11/17	3975.06	52.72	53.57	0.85	3922.21
MW - 9	08/24/17	3975.06	52.79	53.73	0.94	3922.13
MW - 9	09/05/17	3975.06	52.82	53.78	0.96	3922.10
MW - 9	10/18/17	3975.06	52.82	53.71	0.89	3922.11
MW - 9	10/25/17	3975.06	52.86	53.49	0.63	3922.11
MW - 9	11/01/17	3975.06	52.85	53.31	0.46	3922.14
MW - 9	11/08/17	3975.06	52.88	53.44	0.56	3922.10

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	11/28/17	3975.06	52.88	53.54	0.66	3922.08
MW - 9	12/19/17	3975.06	52.85	53.63	0.78	3922.09
MW - 9	01/16/18	3975.06	52.87	53.62	0.75	3922.08
MW - 9	01/30/18	3975.06	52.86	53.52	0.66	3922.10
MW - 9	02/06/18	3975.06	52.90	53.49	0.59	3922.07
MW - 9	02/13/18	3975.06	52.92	53.49	0.57	3922.05
MW - 9	02/26/18	3975.06	52.88	53.32	0.44	3922.11
MW - 9	04/03/18	3975.06	52.83	53.51	0.68	3922.13
MW - 9	04/17/18	3975.06	52.83	53.69	0.86	3922.10
MW - 9	05/07/18	3975.06	52.77	53.58	0.81	3922.17
MW - 9	06/21/18	3975.06	51.83	53.85	2.02	3922.93
MW - 9	06/26/18	3975.06	52.85	53.82	0.97	3922.06
MW - 9	07/12/18	3975.06	52.98	53.41	0.43	3922.02
MW - 9	07/17/18	3975.06	52.94	53.44	0.50	3922.05
MW - 9	08/01/18	3975.06	53.96	54.47	0.51	3921.02
MW - 9	08/09/18	3975.06	52.97	53.45	0.48	3922.02
MW - 9	08/23/18	3975.06	52.99	53.29	0.30	3922.03
MW - 9	08/30/18	3975.06	52.99	53.50	0.51	3921.99
MW - 9	08/31/18	3975.06	52.97	53.57	0.60	3922.00
MW - 9	09/11/18	3975.06	53.02	53.31	0.29	3922.00
MW - 9	09/19/18	3975.06	53.02	53.41	0.39	3921.98
MW - 9	10/16/18	3975.06	53.01	53.54	0.53	3921.97
MW - 9	11/01/18	3975.06	53.03	53.50	0.47	3921.96
MW - 9	11/05/18	3975.06	53.01	53.49	0.48	3921.98
MW - 9	11/14/18	3975.06	52.98	53.41	0.43	3922.02
MW - 9	12/04/18	3975.06	52.98	53.75	0.77	3921.96
MW - 9	12/06/18	3975.06	53.02	53.71	0.69	3921.94
MW - 9	12/18/18	3975.06	-	53.14	0.00	3921.92
MW - 9	12/20/18	3975.06	53.13	53.25	0.12	3921.91
MW - 9	12/26/18	3975.06	-	53.17	0.00	3921.89
MW - 9	01/08/19	3975.06	-	53.09	0.00	3921.97
MW - 9	01/10/19	3975.06	-	53.11	0.00	3921.95
MW - 9	01/15/19	3975.06	-	53.13	0.00	3921.93
MW - 9	01/24/19	3975.06	-	53.32	0.00	3921.74
MW - 9	02/11/19	3975.06	-	53.16	0.00	3921.90
MW - 9	02/18/19	3975.06	-	53.21	0.00	3921.85
MW - 9	04/16/19	3975.06	-	53.09	0.00	3921.97
MW - 9	04/23/19	3975.06	-	53.22	0.00	3921.84
MW - 9	04/30/19	3975.06	-	53.09	0.00	3921.97
MW - 9	05/07/19	3975.06	-	53.08	0.00	3921.98
MW - 9	05/09/19	3975.06	-	53.14	0.00	3921.92
MW - 9	05/14/19	3975.06	-	53.10	0.00	3921.96
MW - 9	06/04/19	3975.06	-	53.04	0.00	3922.02

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	06/11/19	3975.06	-	53.40	0.00	3921.66
MW - 9	06/13/19	3975.06	-	53.01	0.00	3922.05
MW - 9	06/17/19	3975.06	-	53.07	0.00	3921.99
MW - 9	07/01/19	3975.06	-	53.41	0.00	3921.65
MW - 9	07/02/19	3975.06	-	53.09	0.00	3921.97
MW - 9	08/19/19	3975.06	-	53.32	0.00	3921.74
MW - 9	08/29/19	3975.06	-	53.04	0.00	3922.02
MW - 9	09/03/19	3975.06	-	53.07	0.00	3921.99
MW - 9	09/10/19	3975.06	-	52.84	0.00	3922.22
MW - 9	10/01/19	3975.06	-	53.04	0.00	3922.02
MW - 9	10/22/19	3975.06	-	53.01	0.00	3922.05
MW - 9	11/11/19	3975.06	-	53.69	0.00	3921.37
MW - 9	11/15/19	3975.06	53.28	53.43	0.15	3921.76
MW - 9	01/08/20	3975.06	53.15	53.66	0.51	3921.83
MW - 9	02/18/20	3975.06	53.18	53.30	0.12	3921.86
MW - 9	05/05/20	3975.06	53.12	53.86	0.74	3921.83
MW - 9	06/11/20	3975.06	53.10	54.07	0.97	3921.81
MW - 9	09/23/20	3975.06	53.13	54.53	1.40	3921.72
MW - 9	12/04/20	3975.06	53.12	54.75	1.63	3921.70
MW - 9	03/23/21	3975.06	53.10	54.98	1.88	3921.68
MW - 9	06/04/21	3975.06	53.07	55.12	2.05	3921.68
MW - 9	08/12/21	3975.06	53.15	55.31	2.16	3921.59
MW - 9	09/30/21	3975.06	53.36	54.54	1.18	3921.52
MW - 9	12/09/21	3975.06	53.45	53.98	0.53	3921.53
MW - 9	02/17/22	3975.06	53.42	54.18	0.76	3921.53
MW - 9	03/08/22	3975.06	53.46	54.32	0.86	3921.47
MW - 9	05/18/22	3975.06	53.56	54.24	0.68	3921.40
MW - 9	08/09/22	3975.06	53.69	54.15	0.46	3921.30
MW - 9	11/15/22	3975.06	53.70	54.32	0.62	3921.27
MW - 9	02/14/23	3975.06	53.74	54.50	0.76	3921.21
MW - 9	05/16/23	3975.06	53.67	54.59	0.92	3921.25
MW - 9	08/08/23	3975.06	53.70	54.78	1.08	3921.20
MW - 9	12/07/23	3975.06	53.84	54.55	0.71	3921.11
MW - 10	03/02/00	3975.02	53.44	53.99	0.55	3921.50
MW - 10	04/25/00	3975.02	-	53.18	0.00	3921.84
MW - 10	09/06/00	3975.02	-	53.22	0.00	3921.80
MW - 10	11/28/00	3975.02	-	53.23	0.00	3921.79
MW - 10	02/21/01	3975.02	-	53.15	0.00	3921.87
MW - 10	05/31/01	3975.02	-	53.08	0.00	3921.94
MW - 10	08/23/01	3975.02	-	53.10	0.00	3921.92
MW - 10	11/21/01	3975.02	-	53.13	0.00	3921.89
MW - 10	02/13/02	3975.02	-	53.16	0.00	3921.86

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 10	06/12/02	3975.02	-	53.14	0.00	3921.88
MW - 10	08/26/02	3975.02	-	53.14	0.00	3921.88
MW - 10	11/21/02	3975.02	-	53.20	0.00	3921.82
MW - 10	02/05/03	3975.02	-	53.90	0.00	3921.12
MW - 10	05/07/03	3975.02	-	53.14	0.00	3921.88
MW - 10	08/18/03	3975.02	-	53.19	0.00	3921.83
MW - 10	12/01/03	3975.02	-	53.23	0.00	3921.79
MW - 10	02/05/04	3975.02	-	53.23	0.00	3921.79
MW - 10	05/05/04	3975.02	-	53.20	0.00	3921.82
MW - 10	09/01/04	3975.02	-	53.25	0.00	3921.77
MW - 10	12/15/04	3975.02	-	53.20	0.00	3921.82
MW - 10	03/22/05	3975.02	-	53.00	0.00	3922.02
MW - 10	06/22/05	3975.02	-	52.91	0.00	3922.11
MW - 10	09/21/05	3975.02	-	52.84	0.00	3922.18
MW - 10	12/16/05	3975.02	-	52.76	0.00	3922.26
MW - 10	03/20/06	3975.02	-	52.71	0.00	3922.31
MW - 10	06/21/06	3975.02	-	52.71	0.00	3922.31
MW - 10	09/27/06	3975.02	-	52.64	0.00	3922.38
MW - 10	12/04/06	3975.02	-	52.64	0.00	3922.38
MW - 10	03/14/07	3975.02	-	52.57	0.00	3922.45
MW - 10	05/29/07	3975.02	-	52.54	0.00	3922.48
MW - 10	08/30/07	3975.02	-	52.53	0.00	3922.49
MW - 10	11/12/07	3975.02	-	52.43	0.00	3922.59
MW - 10	03/07/08	3975.02	-	52.41	0.00	3922.61
MW - 10	06/02/08	3975.02	-	52.34	0.00	3922.68
MW - 10	09/03/08	3975.02	-	52.38	0.00	3922.64
MW - 10	12/08/08	3975.02	-	52.33	0.00	3922.69
MW - 10	02/19/09	3975.02	-	52.31	0.00	3922.71
MW - 10	05/20/09	3975.02	-	52.28	0.00	3922.74
MW - 10	08/12/09	3975.02	-	52.27	0.00	3922.75
MW - 10	11/25/09	3975.02	-	52.29	0.00	3922.73
MW - 10	01/07/10	3975.02	-	52.25	0.00	3922.77
MW - 10	02/11/10	3975.02	-	52.24	0.00	3922.78
MW - 10	05/17/10	3975.02	-	52.41	0.00	3922.61
MW - 10	08/16/10	3975.02	-	52.41	0.00	3922.61
MW - 10	11/10/10	3975.02	-	52.42	0.00	3922.60
MW - 10	02/28/11	3975.02	-	52.42	0.00	3922.60
MW - 10	05/12/11	3975.02	-	52.11	0.00	3922.91
MW - 10	08/15/11	3975.02	-	52.13	0.00	3922.89
MW - 10	11/22/11	3975.02	-	52.20	0.00	3922.82
MW - 10	02/28/12	3975.02	-	52.22	0.00	3922.80
MW - 10	05/17/12	3975.02	-	52.25	0.00	3922.77
MW - 10	08/01/12	3975.02	-	52.36	0.00	3922.66

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 10	10/25/12	3975.02	-	52.41	0.00	3922.61
MW - 10	11/29/12	3975.02	-	52.33	0.00	3922.69
MW - 10	02/11/13	3975.02	-	52.36	0.00	3922.66
MW - 10	04/11/13	3975.02	-	52.34	0.00	3922.68
MW - 10	05/06/13	3975.02	-	52.44	0.00	3922.58
MW - 10	05/29/13	3975.02	-	52.41	0.00	3922.61
MW - 10	06/26/13	3975.02	-	52.36	0.00	3922.66
MW - 10	07/31/13	3975.02	-	52.29	0.00	3922.73
MW - 10	08/06/13	3975.02	-	52.33	0.00	3922.69
MW - 10	09/30/13	3975.02	-	52.40	0.00	3922.62
MW - 10	11/18/13	3975.02	-	52.56	0.00	3922.46
MW - 10	02/04/14	3975.02	-	52.58	0.00	3922.44
MW - 10	04/28/14	3975.02	-	52.55	0.00	3922.47
MW - 10	05/28/14	3975.02	-	52.50	0.00	3922.52
MW - 10	07/30/14	3975.02	-	52.59	0.00	3922.43
MW - 10	08/23/14	3975.02	-	52.67	0.00	3922.35
MW - 10	10/31/14	3975.02	-	52.64	0.00	3922.38
MW - 10	11/18/14	3975.02	-	52.66	0.00	3922.36
MW - 10	01/09/15	3975.02	-	52.64	0.00	3922.38
MW - 10	02/19/15	3975.02	-	52.61	0.00	3922.41
MW - 10	03/31/15	3975.02	-	52.55	0.00	3922.47
MW - 10	04/09/15	3975.02	-	52.58	0.00	3922.44
MW - 10	05/12/15	3975.02	-	52.59	0.00	3922.43
MW - 10	07/27/15	3975.02	-	52.58	0.00	3922.44
MW - 10	08/18/15	3975.02	-	52.51	0.00	3922.51
MW - 10	10/08/15	3975.02	-	52.57	0.00	3922.45
MW - 10	11/23/15	3975.02	-	52.62	0.00	3922.40
MW - 10	01/12/16	3975.02	-	52.68	0.00	3922.34
MW - 10	02/24/16	3975.02	-	52.66	0.00	3922.36
MW - 10	06/13/16	3975.02	-	52.66	0.00	3922.36
MW - 10	08/02/16	3975.02	-	52.77	0.00	3922.25
MW - 10	11/28/16	3975.02	-	52.75	0.00	3922.27
MW - 10	02/21/17	3975.02	-	52.72	0.00	3922.30
MW - 10	05/24/17	3975.02	-	52.70	0.00	3922.32
MW - 10	07/12/17	3975.02	-	52.67	0.00	3922.35
MW - 10	08/11/17	3975.02	-	52.65	0.00	3922.37
MW - 10	10/18/17	3975.02	-	52.79	0.00	3922.23
MW - 10	11/28/17	3975.02	-	52.83	0.00	3922.19
MW - 10	01/16/18	3975.02	-	52.82	0.00	3922.20
MW - 10	02/26/18	3975.02	-	52.79	0.00	3922.23
MW - 10	04/03/18	3975.02	-	52.77	0.00	3922.25
MW - 10	04/17/18	3975.02	-	52.78	0.00	3922.24
MW - 10	05/07/18	3975.02	-	52.71	0.00	3922.31

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 10	06/26/18	3975.02	-	52.84	0.00	3922.18
MW - 10	08/09/18	3975.02	-	52.91	0.00	3922.11
MW - 10	09/11/18	3975.02	-	52.92	0.00	3922.10
MW - 10	11/14/18	3975.02	-	52.92	0.00	3922.10
MW - 10	11/27/18	3975.02	-	52.92	0.00	3922.10
MW - 10	12/18/18	3975.02	-	52.92	0.00	3922.10
MW - 10	02/18/19	3975.02	-	52.94	0.00	3922.08
MW - 10	05/14/19	3975.02	-	52.92	0.00	3922.10
MW - 10	08/19/19	3975.02	-	53.10	0.00	3921.92
MW - 10	11/11/19	3975.02	-	53.11	0.00	3921.91
MW - 10	02/18/20	3975.02	-	53.05	0.00	3921.97
MW - 10	05/05/20	3975.02	-	53.09	0.00	3921.93
MW - 10	06/11/20	3975.02	-	53.10	0.00	3921.92
MW - 10	09/23/20	3975.02	-	53.21	0.00	3921.81
MW - 10	12/04/20	3975.02	-	53.24	0.00	3921.78
MW - 10	12/24/20	3975.02	-	53.25	0.00	3921.77
MW - 10	03/23/21	3975.02	-	53.22	0.00	3921.80
MW - 10	06/04/21	3975.02	-	53.26	0.00	3921.76
MW - 10	09/30/21	3975.02	-	53.36	0.00	3921.66
MW - 10	12/09/21	3975.02	-	53.40	0.00	3921.62
MW - 10	03/08/22	3975.02	-	53.41	0.00	3921.61
MW - 10	05/18/22	3975.02	-	53.47	0.00	3921.55
MW - 10	08/09/22	3975.02	-	53.54	0.00	3921.48
MW - 10	11/15/22	3975.02	-	53.56	0.00	3921.46
MW - 10	02/14/23	3975.02	-	53.58	0.00	3921.44
MW - 10	05/16/23	3975.02	-	53.65	0.00	3921.37
MW - 10	08/08/23	3975.02	-	53.78	0.00	3921.24
MW - 10	12/07/23	3975.02	-	53.79	0.00	3921.23
MW - 11	03/02/00	3975.30	-	53.84	0.00	3921.46
MW - 11	04/25/00	3975.30	-	53.91	0.00	3921.39
MW - 11	09/06/00	3975.30	-	53.95	0.00	3921.35
MW - 11	11/28/00	3975.30	-	53.96	0.00	3921.34
MW - 11	02/21/01	3975.30	-	53.79	0.00	3921.51
MW - 11	05/31/01	3975.30	-	53.77	0.00	3921.53
MW - 11	08/23/01	3975.30	-	53.83	0.00	3921.47
MW - 11	11/21/01	3975.30	-	53.87	0.00	3921.43
MW - 11	02/13/02	3975.30	-	52.85	0.00	3922.45
MW - 11	06/12/02	3975.30	-	53.87	0.00	3921.43
MW - 11	08/26/02	3975.30	-	53.89	0.00	3921.41
MW - 11	11/21/02	3975.30	-	53.93	0.00	3921.37
MW - 11	02/05/03	3975.30	-	53.90	0.00	3921.40
MW - 11	05/07/03	3975.30	-	53.86	0.00	3921.44

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 11	08/18/03	3975.30	-	53.93	0.00	3921.37
MW - 11	12/01/03	3975.30	-	53.96	0.00	3921.34
MW - 11	02/05/04	3975.30	-	53.97	0.00	3921.33
MW - 11	05/05/04	3975.30	-	53.93	0.00	3921.37
MW - 11	09/01/04	3975.30	-	54.00	0.00	3921.30
MW - 11	12/15/04	3975.30	-	53.95	0.00	3921.35
MW - 11	03/22/05	3975.30	-	53.75	0.00	3921.55
MW - 11	06/22/05	3975.30	-	53.64	0.00	3921.66
MW - 11	09/21/05	3975.30	-	53.56	0.00	3921.74
MW - 11	12/16/05	3975.30	-	53.60	0.00	3921.70
MW - 11	03/20/06	3975.30	-	53.45	0.00	3921.85
MW - 11	06/21/06	3975.30	-	53.43	0.00	3921.87
MW - 11	09/27/06	3975.30	-	53.42	0.00	3921.88
MW - 11	12/04/06	3975.30	-	53.37	0.00	3921.93
MW - 11	03/14/07	3975.30	-	53.33	0.00	3921.97
MW - 11	05/29/07	3975.30	-	53.29	0.00	3922.01
MW - 11	08/30/07	3975.30	-	53.27	0.00	3922.03
MW - 11	11/12/07	3975.30	-	53.23	0.00	3922.07
MW - 11	03/07/08	3975.30	-	53.17	0.00	3922.13
MW - 11	06/02/08	3975.30	-	53.12	0.00	3922.18
MW - 11	09/03/08	3975.30	-	53.12	0.00	3922.18
MW - 11	12/08/08	3975.30	-	53.10	0.00	3922.20
MW - 11	02/19/09	3975.30	-	53.08	0.00	3922.22
MW - 11	05/20/09	3975.30	-	53.04	0.00	3922.26
MW - 11	08/12/09	3975.30	-	53.03	0.00	3922.27
MW - 11	11/25/09	3975.30	-	53.03	0.00	3922.27
MW - 11	01/07/10	3975.30	-	53.02	0.00	3922.28
MW - 11	02/11/10	3975.30	-	52.99	0.00	3922.31
MW - 11	05/17/10	3975.30	-	53.16	0.00	3922.14
MW - 11	08/16/10	3975.30	-	53.15	0.00	3922.15
MW - 11	11/10/10	3975.30	-	53.17	0.00	3922.13
MW - 11	02/28/11	3975.30	-	53.15	0.00	3922.15
MW - 11	05/12/11	3975.30	-	52.96	0.00	3922.34
MW - 11	08/15/11	3975.30	-	53.10	0.00	3922.20
MW - 11	11/22/11	3975.30	-	53.05	0.00	3922.25
MW - 11	02/28/12	3975.30	-	53.01	0.00	3922.29
MW - 11	05/17/12	3975.30	-	53.00	0.00	3922.30
MW - 11	08/01/12	3975.30	-	53.12	0.00	3922.18
MW - 11	10/25/12	3975.30	-	53.15	0.00	3922.15
MW - 11	11/29/12	3975.30	-	53.23	0.00	3922.07
MW - 11	02/11/13	3975.30	-	53.16	0.00	3922.14
MW - 11	04/11/13	3975.30	-	53.39	0.00	3921.91
MW - 11	05/06/13	3975.30	-	53.19	0.00	3922.11



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 11	05/29/13	3975.30	-	53.34	0.00	3921.96
MW - 11	06/26/13	3975.30	-	53.36	0.00	3921.94
MW - 11	07/31/13	3975.30	-	53.29	0.00	3922.01
MW - 11	08/06/13	3975.30	-	53.26	0.00	3922.04
MW - 11	09/30/13	3975.30	-	53.35	0.00	3921.95
MW - 11	11/18/13	3975.30	-	53.32	0.00	3921.98
MW - 11	02/04/14	3975.30	-	53.30	0.00	3922.00
MW - 11	04/28/14	3975.30	-	53.31	0.00	3921.99
MW - 11	05/28/14	3975.30	-	53.40	0.00	3921.90
MW - 11	07/30/14	3975.30	-	53.40	0.00	3921.90
MW - 11	08/23/14	3975.30	-	53.43	0.00	3921.87
MW - 11	10/31/14	3975.30	-	53.45	0.00	3921.85
MW - 11	11/18/14	3975.30	-	53.43	0.00	3921.87
MW - 11	01/09/15	3975.30	-	53.39	0.00	3921.91
MW - 11	02/19/15	3975.30	-	53.40	0.00	3921.90
MW - 11	03/31/15	3975.30	-	53.40	0.00	3921.90
MW - 11	04/09/15	3975.30	-	53.33	0.00	3921.97
MW - 11	05/12/15	3975.30	-	53.55	0.00	3921.75
MW - 11	07/27/15	3975.30	-	53.42	0.00	3921.88
MW - 11	08/18/15	3975.30	-	53.36	0.00	3921.94
MW - 11	10/08/15	3975.30	-	53.48	0.00	3921.82
MW - 11	11/23/15	3975.30	-	53.42	0.00	3921.88
MW - 11	01/12/16	3975.30	-	53.43	0.00	3921.87
MW - 11	02/24/16	3975.30	-	53.45	0.00	3921.85
MW - 11	06/13/16	3975.30	-	53.43	0.00	3921.87
MW - 11	08/02/16	3975.30	-	53.56	0.00	3921.74
MW - 11	11/28/16	3975.30	-	53.49	0.00	3921.81
MW - 11	02/21/17	3975.30	-	53.48	0.00	3921.82
MW - 11	05/24/17	3975.30	-	53.45	0.00	3921.85
MW - 11	07/12/17	3975.30	-	53.47	0.00	3921.83
MW - 11	08/11/17	3975.30	-	53.47	0.00	3921.83
MW - 11	10/18/17	3975.30	-	53.60	0.00	3921.70
MW - 11	11/28/17	3975.30	-	53.58	0.00	3921.72
MW - 11	01/16/18	3975.30	-	53.58	0.00	3921.72
MW - 11	02/26/18	3975.30	-	53.54	0.00	3921.76
MW - 11	04/03/18	3975.30	-	53.54	0.00	3921.76
MW - 11	04/17/18	3975.30	-	53.53	0.00	3921.77
MW - 11	05/07/18	3975.30	-	53.61	0.00	3921.69
MW - 11	06/26/18	3975.30	-	53.60	0.00	3921.70
MW - 11	08/09/18	3975.30	-	53.63	0.00	3921.67
MW - 11	09/11/18	3975.30	-	53.66	0.00	3921.64
MW - 11	11/14/18	3975.30	-	53.69	0.00	3921.61
MW - 11	12/18/18	3975.30	-	53.66	0.00	3921.64

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 11	02/18/19	3975.30	-	53.69	0.00	3921.61
MW - 11	05/14/19	3975.30	-	53.66	0.00	3921.64
MW - 11	08/19/19	3975.30	-	53.84	0.00	3921.46
MW - 11	11/11/19	3975.30	-	53.84	0.00	3921.46
MW - 11	02/18/20	3975.30	-	53.80	0.00	3921.50
MW - 11	05/05/20	3975.30	-	53.83	0.00	3921.47
MW - 11	06/11/20	3975.30	-	53.85	0.00	3921.45
MW - 11	09/23/20	3975.30	-	53.96	0.00	3921.34
MW - 11	12/04/20	3975.30	-	53.99	0.00	3921.31
MW - 11	12/24/20	3975.30	-	54.00	0.00	3921.30
MW - 11	03/23/21	3975.30	-	53.96	0.00	3921.34
MW - 11	06/04/21	3975.30	-	54.01	0.00	3921.29
MW - 11	09/30/21	3975.30	-	54.13	0.00	3921.17
MW - 11	12/09/21	3975.30	-	54.14	0.00	3921.16
MW - 11	02/17/22	3975.30	-	54.15	0.00	3921.15
MW - 11	05/18/22	3975.30	-	54.18	0.00	3921.12
MW - 11	08/08/22	3975.30	-	54.38	0.00	3920.92
MW - 11	11/16/22	3975.30	-	54.22	0.00	3921.08
MW - 11	02/13/23	3975.30	-	54.32	0.00	3920.98
MW - 11	05/15/23	3975.30	-	54.40	0.00	3920.90
MW - 11	08/08/23	3975.30	-	54.48	0.00	3920.82
MW - 11	12/09/23	3975.30	-	54.53	0.00	3920.77
MW - 12	03/02/00	3974.55	-	52.80	0.00	3921.75
MW - 12	04/25/00	3974.55	-	52.86	0.00	3921.69
MW - 12	09/06/00	3974.55	-	52.90	0.00	3921.65
MW - 12	11/28/00	3974.55	-	52.92	0.00	3921.63
MW - 12	02/21/01	3974.55	-	52.75	0.00	3921.80
MW - 12	05/31/01	3974.55	-	52.75	0.00	3921.80
MW - 12	08/31/01	3974.55	-	52.78	0.00	3921.77
MW - 12	11/21/01	3974.55	-	52.82	0.00	3921.73
MW - 12	02/13/02	3974.55	-	52.85	0.00	3921.70
MW - 12	06/12/02	3974.55	-	52.83	0.00	3921.72
MW - 12	08/26/02	3974.55	-	52.83	0.00	3921.72
MW - 12	11/21/02	3974.55	-	52.89	0.00	3921.66
MW - 12	02/05/03	3974.55	-	52.88	0.00	3921.67
MW - 12	05/07/03	3974.55	-	52.82	0.00	3921.73
MW - 12	08/18/03	3974.55	-	52.89	0.00	3921.66
MW - 12	12/01/03	3974.55	-	52.93	0.00	3921.62
MW - 12	02/05/04	3974.55	-	52.92	0.00	3921.63
MW - 12	05/05/04	3974.55	-	52.90	0.00	3921.65
MW - 12	09/01/04	3974.55	-	52.94	0.00	3921.61
MW - 12	12/15/04	3974.55	-	52.90	0.00	3921.65

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 12	03/22/05	3974.55	-	52.69	0.00	3921.86
MW - 12	06/22/05	3974.55	-	52.58	0.00	3921.97
MW - 12	09/21/05	3974.55	-	52.51	0.00	3922.04
MW - 12	12/16/05	3974.55	-	52.46	0.00	3922.09
MW - 12	03/20/06	3974.55	-	52.39	0.00	3922.16
MW - 12	06/21/06	3974.55	-	52.36	0.00	3922.19
MW - 12	09/27/06	3974.55	-	52.44	0.00	3922.11
MW - 12	12/04/06	3974.55	-	52.33	0.00	3922.22
MW - 12	03/14/07	3974.55	-	52.28	0.00	3922.27
MW - 12	05/29/07	3974.55	-	52.26	0.00	3922.29
MW - 12	08/30/07	3974.55	-	52.23	0.00	3922.32
MW - 12	11/12/07	3974.55	-	52.20	0.00	3922.35
MW - 12	03/07/08	3974.55	-	52.12	0.00	3922.43
MW - 12	06/02/08	3974.55	-	52.05	0.00	3922.50
MW - 12	09/03/08	3974.55	-	52.07	0.00	3922.48
MW - 12	12/08/08	3974.55	-	52.05	0.00	3922.50
MW - 12	02/19/09	3974.55	-	52.02	0.00	3922.53
MW - 12	05/20/09	3974.55	-	51.99	0.00	3922.56
MW - 12	08/12/09	3974.55	-	51.97	0.00	3922.58
MW - 12	11/25/09	3974.55	-	51.98	0.00	3922.57
MW - 12	01/07/10	3974.55	-	51.95	0.00	3922.60
MW - 12	02/11/10	3974.55	-	51.95	0.00	3922.60
MW - 12	05/17/10	3974.55	-	52.13	0.00	3922.42
MW - 12	08/16/10	3974.55	-	52.13	0.00	3922.42
MW - 12	11/10/10	3974.55	-	52.13	0.00	3922.42
MW - 12	02/28/11	3974.55	-	52.12	0.00	3922.43
MW - 12	05/12/11	3974.55	-	51.92	0.00	3922.63
MW - 12	08/15/11	3974.55	-	52.08	0.00	3922.47
MW - 12	11/22/11	3974.55	-	51.97	0.00	3922.58
MW - 12	02/28/12	3974.55	-	51.97	0.00	3922.58
MW - 12	05/17/12	3974.55	-	51.95	0.00	3922.60
MW - 12	08/01/12	3974.55	-	52.06	0.00	3922.49
MW - 12	10/25/12	3974.55	-	52.12	0.00	3922.43
MW - 12	11/29/12	3974.55	-	52.19	0.00	3922.36
MW - 12	02/11/13	3974.55	-	52.08	0.00	3922.47
MW - 12	04/11/13	3974.55	-	52.30	0.00	3922.25
MW - 12	05/06/13	3974.55	-	52.13	0.00	3922.42
MW - 12	05/29/13	3974.55	-	52.26	0.00	3922.29
MW - 12	06/26/13	3974.55	-	52.31	0.00	3922.24
MW - 12	07/31/13	3974.55	-	52.21	0.00	3922.34
MW - 12	08/06/13	3974.55	-	52.21	0.00	3922.34
MW - 12	09/30/13	3974.55	-	52.25	0.00	3922.30
MW - 12	11/18/13	3974.55	-	52.27	0.00	3922.28

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 12	12/08/13	3974.55	-	52.28	0.00	3922.27
MW - 12	02/04/14	3974.55	-	52.26	0.00	3922.29
MW - 12	04/28/14	3974.55	-	52.26	0.00	3922.29
MW - 12	05/28/14	3974.55	-	52.32	0.00	3922.23
MW - 12	07/30/14	3974.55	-	52.35	0.00	3922.20
MW - 12	08/23/14	3974.55	-	52.38	0.00	3922.17
MW - 12	10/31/14	3974.55	-	52.39	0.00	3922.16
MW - 12	11/18/14	3974.55	-	52.38	0.00	3922.17
MW - 12	01/09/15	3974.55	-	52.34	0.00	3922.21
MW - 12	02/19/15	3974.55	-	52.34	0.00	3922.21
MW - 12	03/31/15	3974.55	-	52.35	0.00	3922.20
MW - 12	04/09/15	3974.55	-	52.28	0.00	3922.27
MW - 12	05/12/15	3974.55	-	52.29	0.00	3922.26
MW - 12	07/27/15	3974.55	-	52.36	0.00	3922.19
MW - 12	08/18/15	3974.55	-	52.33	0.00	3922.22
MW - 12	10/08/15	3974.55	-	52.42	0.00	3922.13
MW - 12	11/23/15	3974.55	-	52.35	0.00	3922.20
MW - 12	01/12/16	3974.55	-	52.38	0.00	3922.17
MW - 12	02/24/16	3974.55	-	52.38	0.00	3922.17
MW - 12	06/13/16	3974.55	-	52.37	0.00	3922.18
MW - 12	08/02/16	3974.55	-	52.52	0.00	3922.03
MW - 12	11/28/16	3974.55	-	52.45	0.00	3922.10
MW - 12	02/21/17	3974.55	-	52.42	0.00	3922.13
MW - 12	05/24/17	3974.55	-	52.39	0.00	3922.16
MW - 12	07/12/17	3974.55	-	52.49	0.00	3922.06
MW - 12	08/11/17	3974.55	-	52.51	0.00	3922.04
MW - 12	10/18/17	3974.55	-	52.55	0.00	3922.00
MW - 12	11/28/17	3974.55	-	52.52	0.00	3922.03
MW - 12	01/16/18	3974.55	-	52.52	0.00	3922.03
MW - 12	02/26/18	3974.55	-	52.49	0.00	3922.06
MW - 12	04/03/18	3974.55	-	52.84	0.00	3921.71
MW - 12	04/17/18	3974.55	-	52.49	0.00	3922.06
MW - 12	05/07/18	3974.55	-	52.55	0.00	3922.00
MW - 12	06/26/18	3974.55	-	52.54	0.00	3922.01
MW - 12	08/09/18	3974.55	-	52.59	0.00	3921.96
MW - 12	09/11/18	3974.55	-	52.61	0.00	3921.94
MW - 12	11/14/18	3974.55	-	52.64	0.00	3921.91
MW - 12	12/18/18	3974.55	-	52.62	0.00	3921.93
MW - 12	02/18/19	3974.55	-	52.64	0.00	3921.91
MW - 12	05/14/19	3974.55	-	52.59	0.00	3921.96
MW - 12	08/19/19	3974.55	-	52.79	0.00	3921.76
MW - 12	11/11/19	3974.55	-	52.79	0.00	3921.76
MW - 12	02/18/20	3974.55	-	52.75	0.00	3921.80

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 12	05/05/20	3974.55	-	52.78	0.00	3921.77
MW - 12	06/11/20	3974.55	-	52.80	0.00	3921.75
MW - 12	09/23/20	3974.55	-	52.92	0.00	3921.63
MW - 12	12/04/20	3974.55	-	52.94	0.00	3921.61
MW - 12	12/24/20	3974.55	-	52.92	0.00	3921.63
MW - 12	03/23/21	3974.55	-	52.93	0.00	3921.62
MW - 12	06/04/21	3974.55	-	52.96	0.00	3921.59
MW - 12	09/30/21	3974.55	-	53.06	0.00	3921.49
MW - 12	12/09/21	3974.55	-	53.08	0.00	3921.47
MW - 12	02/17/22	3974.55	-	53.10	0.00	3921.45
MW - 12	05/16/22	3974.55	-	53.16	0.00	3921.39
MW - 12	08/08/22	3974.55	-	53.22	0.00	3921.33
MW - 12	11/16/22	3974.55	-	53.27	0.00	3921.28
MW - 12	02/13/23	3974.55	-	53.25	0.00	3921.30
MW - 12	05/15/23	3974.55	-	53.37	0.00	3921.18
MW - 12	08/08/23	3974.55	-	53.78	0.00	3920.77
MW - 12	12/08/23	3974.55	-	53.48	0.00	3921.07
MW - 13	03/02/00	3975.00	-	53.77	0.00	3921.23
MW - 13	04/25/00	3975.00	-	53.85	0.00	3921.15
MW - 13	09/06/00	3975.00	-	53.90	0.00	3921.10
MW - 13	11/28/00	3975.00	-	53.91	0.00	3921.09
MW - 13	02/21/01	3975.00	-	53.80	0.00	3921.20
MW - 13	05/31/01	3975.00	-	53.72	0.00	3921.28
MW - 13	08/23/01	3975.00	-	53.76	0.00	3921.24
MW - 13	11/21/01	3975.00	-	53.83	0.00	3921.17
MW - 13	02/13/02	3975.00	-	53.86	0.00	3921.14
MW - 13	06/12/02	3975.00	-	53.81	0.00	3921.19
MW - 13	08/26/02	3975.00	-	53.82	0.00	3921.18
MW - 13	11/21/02	3975.00	-	53.89	0.00	3921.11
MW - 13	02/05/03	3975.00	-	53.85	0.00	3921.15
MW - 13	05/07/03	3975.00	-	53.78	0.00	3921.22
MW - 13	08/18/03	3975.00	-	53.88	0.00	3921.12
MW - 13	12/01/03	3975.00	-	53.91	0.00	3921.09
MW - 13	02/05/04	3975.00	-	53.90	0.00	3921.10
MW - 13	05/05/04	3975.00	-	53.90	0.00	3921.10
MW - 13	09/01/04	3975.00	-	53.93	0.00	3921.07
MW - 13	12/15/04	3975.00	-	53.88	0.00	3921.12
MW - 13	03/22/05	3975.00	-	53.64	0.00	3921.36
MW - 13	06/22/05	3975.00	-	53.58	0.00	3921.42
MW - 13	09/21/05	3975.00	-	53.51	0.00	3921.49
MW - 13	12/16/05	3975.00	-	53.44	0.00	3921.56
MW - 13	03/20/06	3975.00	-	53.43	0.00	3921.57

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 13	06/21/06	3975.00	-	53.38	0.00	3921.62
MW - 13	09/27/06	3975.00	-	53.33	0.00	3921.67
MW - 13	12/04/06	3975.00	-	53.33	0.00	3921.67
MW - 13	02/09/07	3975.00	-	52.32	0.00	3922.68
MW - 13	02/23/07	3975.00	-	53.27	0.00	3921.73
MW - 13	03/14/07	3975.00	-	53.28	0.00	3921.72
MW - 13	05/29/07	3975.00	-	53.26	0.00	3921.74
MW - 13	08/30/07	3975.00	-	53.22	0.00	3921.78
MW - 13	11/12/07	3975.00	-	53.19	0.00	3921.81
MW - 13	03/07/08	3975.00	-	53.13	0.00	3921.87
MW - 13	06/02/08	3975.00	-	53.07	0.00	3921.93
MW - 13	09/03/08	3975.00	-	53.07	0.00	3921.93
MW - 13	12/08/08	3975.00	-	53.05	0.00	3921.95
MW - 13	02/19/09	3975.00	-	53.02	0.00	3921.98
MW - 13	05/20/09	3975.00	-	52.99	0.00	3922.01
MW - 13	08/12/09	3975.00	-	52.99	0.00	3922.01
MW - 13	11/04/09	3975.00	-	52.94	0.00	3922.06
MW - 13	11/11/09	3975.00	-	52.94	0.00	3922.06
MW - 13	11/18/09	3975.00	-	52.95	0.00	3922.05
MW - 13	11/25/09	3975.00	-	52.97	0.00	3922.03
MW - 13	12/02/09	3975.00	-	52.95	0.00	3922.05
MW - 13	01/07/10	3975.00	-	52.94	0.00	3922.06
MW - 13	02/02/10	3975.00	-	52.90	0.00	3922.10
MW - 13	02/11/10	3975.00	-	52.92	0.00	3922.08
MW - 13	05/17/10	3975.00	-	53.06	0.00	3921.94
MW - 13	08/16/10	3975.00	-	53.06	0.00	3921.94
MW - 13	11/10/10	3975.00	-	53.09	0.00	3921.91
MW - 13	02/28/11	3975.00	-	53.07	0.00	3921.93
MW - 13	03/04/11	3975.00	-	52.92	0.00	3922.08
MW - 13	04/28/11	3975.00	-	52.92	0.00	3922.08
MW - 13	05/04/11	3975.00	-	52.91	0.00	3922.09
MW - 13	05/11/11	3975.00	-	52.91	0.00	3922.09
MW - 13	05/12/11	3975.00	-	52.92	0.00	3922.08
MW - 13	05/18/11	3975.00	-	52.92	0.00	3922.08
MW - 13	05/23/11	3975.00	-	52.93	0.00	3922.07
MW - 13	06/08/11	3975.00	-	52.93	0.00	3922.07
MW - 13	06/16/11	3975.00	-	52.93	0.00	3922.07
MW - 13	06/22/11	3975.00	-	52.94	0.00	3922.06
MW - 13	06/30/11	3975.00	-	52.94	0.00	3922.06
MW - 13	07/06/11	3975.00	-	52.94	0.00	3922.06
MW - 13	07/13/11	3975.00	-	52.95	0.00	3922.05
MW - 13	07/15/11	3975.00	-	52.95	0.00	3922.05
MW - 13	07/19/11	3975.00	-	52.95	0.00	3922.05

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 13	07/21/11	3975.00	-	52.94	0.00	3922.06
MW - 13	07/25/11	3975.00	-	52.95	0.00	3922.05
MW - 13	07/28/11	3975.00	-	52.96	0.00	3922.04
MW - 13	08/02/11	3975.00	-	52.96	0.00	3922.04
MW - 13	08/09/11	3975.00	-	52.95	0.00	3922.05
MW - 13	08/12/11	3975.00	-	52.96	0.00	3922.04
MW - 13	08/15/11	3975.00	-	53.00	0.00	3922.00
MW - 13	08/16/11	3975.00	-	52.97	0.00	3922.03
MW - 13	08/19/11	3975.00	-	52.97	0.00	3922.03
MW - 13	08/23/11	3975.00	-	52.98	0.00	3922.02
MW - 13	09/01/11	3975.00	-	52.97	0.00	3922.03
MW - 13	09/15/11	3975.00	-	52.98	0.00	3922.02
MW - 13	09/22/11	3975.00	-	52.96	0.00	3922.04
MW - 13	10/11/11	3975.00	-	52.99	0.00	3922.01
MW - 13	10/13/11	3975.00	-	53.03	0.00	3921.97
MW - 13	11/22/11	3975.00	-	52.96	0.00	3922.04
MW - 13	12/29/11	3975.00	-	52.96	0.00	3922.04
MW - 13	01/26/12	3975.00	-	52.97	0.00	3922.03
MW - 13	01/31/12	3975.00	-	52.99	0.00	3922.01
MW - 13	02/15/12	3975.00	-	52.95	0.00	3922.05
MW - 13	02/28/12	3975.00	-	52.95	0.00	3922.05
MW - 13	03/20/12	3975.00	-	53.03	0.00	3921.97
MW - 13	03/27/12	3975.00	-	54.96	0.00	3920.04
MW - 13	04/10/12	3975.00	-	52.98	0.00	3922.02
MW - 13	04/19/12	3975.00	-	52.98	0.00	3922.02
MW - 13	04/26/12	3975.00	-	52.96	0.00	3922.04
MW - 13	05/08/12	3975.00	-	52.97	0.00	3922.03
MW - 13	05/15/12	3975.00	-	52.94	0.00	3922.06
MW - 13	05/17/12	3975.00	-	52.93	0.00	3922.07
MW - 13	06/05/12	3975.00	-	53.00	0.00	3922.00
MW - 13	06/21/12	3975.00	-	52.64	0.00	3922.36
MW - 13	06/28/12	3975.00	-	52.70	0.00	3922.30
MW - 13	07/17/12	3975.00	-	53.01	0.00	3921.99
MW - 13	08/01/12	3975.00	-	53.04	0.00	3921.96
MW - 13	10/02/12	3975.00	-	53.31	0.00	3921.69
MW - 13	10/09/12	3975.00	-	53.19	0.00	3921.81
MW - 13	10/16/12	3975.00	-	53.13	0.00	3921.87
MW - 13	10/25/12	3975.00	-	53.14	0.00	3921.86
MW - 13	10/30/12	3975.00	-	53.11	0.00	3921.89
MW - 13	11/29/12	3975.00	-	53.14	0.00	3921.86
MW - 13	12/14/12	3975.00	-	53.16	0.00	3921.84
MW - 13	02/11/13	3975.00	-	53.09	0.00	3921.91
MW - 13	04/11/13	3975.00	-	53.29	0.00	3921.71

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 13	04/15/13	3975.00	-	53.20	0.00	3921.80
MW - 13	04/22/13	3975.00	-	53.14	0.00	3921.86
MW - 13	05/06/13	3975.00	-	53.14	0.00	3921.86
MW - 13	05/09/13	3975.00	-	53.14	0.00	3921.86
MW - 13	05/20/13	3975.00	-	53.14	0.00	3921.86
MW - 13	05/24/13	3975.00	-	53.25	0.00	3921.75
MW - 13	05/29/13	3975.00	-	53.26	0.00	3921.74
MW - 13	05/31/13	3975.00	-	53.23	0.00	3921.77
MW - 13	06/07/13	3975.00	-	53.31	0.00	3921.69
MW - 13	06/12/13	3975.00	-	53.30	0.00	3921.70
MW - 13	06/14/13	3975.00	-	53.25	0.00	3921.75
MW - 13	06/19/13	3975.00	-	53.24	0.00	3921.76
MW - 13	06/21/13	3975.00	-	53.28	0.00	3921.72
MW - 13	06/25/13	3975.00	-	53.21	0.00	3921.79
MW - 13	06/26/13	3975.00	-	53.26	0.00	3921.74
MW - 13	07/03/13	3975.00	-	53.26	0.00	3921.74
MW - 13	07/09/13	3975.00	-	53.25	0.00	3921.75
MW - 13	07/11/13	3975.00	-	53.31	0.00	3921.69
MW - 13	07/24/13	3975.00	-	53.22	0.00	3921.78
MW - 13	07/26/13	3975.00	-	53.29	0.00	3921.71
MW - 13	07/31/13	3975.00	-	53.25	0.00	3921.75
MW - 13	08/02/13	3975.00	-	53.29	0.00	3921.71
MW - 13	08/06/13	3975.00	-	53.22	0.00	3921.78
MW - 13	08/14/13	3975.00	-	53.28	0.00	3921.72
MW - 13	08/21/13	3975.00	-	53.32	0.00	3921.68
MW - 13	08/26/13	3975.00	-	53.29	0.00	3921.71
MW - 13	09/06/13	3975.00	-	53.30	0.00	3921.70
MW - 13	08/30/13	3975.00	-	53.28	0.00	3921.72
MW - 13	09/13/13	3975.00	-	53.23	0.00	3921.77
MW - 13	09/27/13	3975.00	-	53.34	0.00	3921.66
MW - 13	09/30/13	3975.00	-	53.35	0.00	3921.65
MW - 13	10/02/13	3975.00	-	53.30	0.00	3921.70
MW - 13	10/03/13	3975.00	-	53.28	0.00	3921.72
MW - 13	10/11/13	3975.00	-	53.21	0.00	3921.79
MW - 13	10/17/13	3975.00	-	53.22	0.00	3921.78
MW - 13	10/22/13	3975.00	-	53.22	0.00	3921.78
MW - 13	10/24/13	3975.00	-	53.37	0.00	3921.63
MW - 13	10/30/13	3975.00	-	53.34	0.00	3921.66
MW - 13	11/01/13	3975.00	-	53.25	0.00	3921.75
MW - 13	11/04/13	3975.00	-	53.29	0.00	3921.71
MW - 13	11/08/13	3975.00	-	53.32	0.00	3921.68
MW - 13	11/13/13	3975.00	-	53.25	0.00	3921.75
MW - 13	11/15/13	3975.00	-	53.25	0.00	3921.75



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 13	11/19/13	3975.00	-	53.25	0.00	3921.75
MW - 13	12/12/13	3975.00	-	53.31	0.00	3921.69
MW - 13	12/16/13	3975.00	-	53.30	0.00	3921.70
MW - 13	12/18/13	3975.00	-	53.30	0.00	3921.70
MW - 13	12/23/13	3975.00	-	53.36	0.00	3921.64
MW - 13	12/30/13	3975.00	-	53.33	0.00	3921.67
MW - 13	01/01/14	3975.00	-	53.27	0.00	3921.73
MW - 13	01/06/14	3975.00	-	53.26	0.00	3921.74
MW - 13	01/15/14	3975.00	-	53.38	0.00	3921.62
MW - 13	01/17/14	3975.00	-	53.26	0.00	3921.74
MW - 13	01/20/14	3975.00	-	53.21	0.00	3921.79
MW - 13	01/22/14	3975.00	-	52.87	0.00	3922.13
MW - 13	01/29/14	3975.00	-	53.31	0.00	3921.69
MW - 13	02/04/14	3975.00	-	53.28	0.00	3921.72
MW - 13	02/13/14	3975.00	-	53.30	0.00	3921.70
MW - 13	02/21/14	3975.00	-	53.37	0.00	3921.63
MW - 13	02/26/14	3975.00	-	53.40	0.00	3921.60
MW - 13	03/12/14	3975.00	-	53.40	0.00	3921.60
MW - 13	03/14/14	3975.00	-	53.37	0.00	3921.63
MW - 13	03/17/14	3975.00	-	53.37	0.00	3921.63
MW - 13	03/24/14	3975.00	-	53.33	0.00	3921.67
MW - 13	03/26/14	3975.00	-	53.34	0.00	3921.66
MW - 13	04/09/14	3975.00	-	53.24	0.00	3921.76
MW - 13	04/28/14	3975.00	-	53.24	0.00	3921.76
MW - 13	05/28/14	3975.00	-	53.34	0.00	3921.66
MW - 13	07/30/14	3975.00	-	53.36	0.00	3921.64
MW - 13	08/23/14	3975.00	-	53.40	0.00	3921.60
MW - 13	10/31/14	3975.00	-	53.40	0.00	3921.60
MW - 13	11/18/14	3975.00	-	53.38	0.00	3921.62
MW - 13	01/09/15	3975.00	-	53.35	0.00	3921.65
MW - 13	02/19/15	3975.00	-	53.34	0.00	3921.66
MW - 13	03/31/15	3975.00	-	53.35	0.00	3921.65
MW - 13	04/09/15	3975.00	-	53.29	0.00	3921.71
MW - 13	05/12/15	3975.00	-	53.30	0.00	3921.70
MW - 13	07/27/15	3975.00	-	53.37	0.00	3921.63
MW - 13	08/18/15	3975.00	-	53.35	0.00	3921.65
MW - 13	10/08/15	3975.00	-	53.43	0.00	3921.57
MW - 13	11/23/15	3975.00	-	53.34	0.00	3921.66
MW - 13	01/12/16	3975.00	-	53.38	0.00	3921.62
MW - 13	02/24/16	3975.00	-	53.35	0.00	3921.65
MW - 13	06/13/16	3975.00	-	53.35	0.00	3921.65
MW - 13	08/02/16	3975.00	-	53.49	0.00	3921.51
MW - 13	11/28/16	3975.00	-	53.42	0.00	3921.58

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 13	02/21/17	3975.00	-	53.43	0.00	3921.57
MW - 13	05/24/17	3975.00	-	53.41	0.00	3921.59
MW - 13	07/12/17	3975.00	-	53.50	0.00	3921.50
MW - 13	08/11/17	3975.00	-	53.47	0.00	3921.53
MW - 13	10/18/17	3975.00	-	53.54	0.00	3921.46
MW - 13	11/28/17	3975.00	-	53.52	0.00	3921.48
MW - 13	01/16/18	3975.00	-	53.52	0.00	3921.48
MW - 13	02/26/18	3975.00	-	53.49	0.00	3921.51
MW - 13	04/03/18	3975.00	-	53.48	0.00	3921.52
MW - 13	04/17/18	3975.00	-	53.48	0.00	3921.52
MW - 13	05/07/18	3975.00	-	53.66	0.00	3921.34
MW - 13	06/26/18	3975.00	-	53.55	0.00	3921.45
MW - 13	08/09/18	3975.00	-	53.57	0.00	3921.43
MW - 13	09/11/18	3975.00	-	53.61	0.00	3921.39
MW - 13	09/11/18	3975.00	-	53.65	0.00	3921.35
MW - 13	11/14/18	3974.55	-	53.65	0.00	3920.90
MW - 13	12/18/18	3975.00	-	53.60	0.00	3921.40
MW - 13	02/18/19	3975.00	-	53.64	0.00	3921.36
MW - 13	05/14/19	3975.00	-	53.60	0.00	3921.40
MW - 13	08/19/19	3975.00	-	53.79	0.00	3921.21
MW - 13	11/11/19	3975.00	-	53.84	0.00	3921.16
MW - 13	02/18/20	3975.00	-	53.76	0.00	3921.24
MW - 13	05/05/20	3975.00	-	53.76	0.00	3921.24
MW - 13	06/11/20	3975.00	-	53.80	0.00	3921.20
MW - 13	09/23/20	3975.00	-	53.91	0.00	3921.09
MW - 13	12/04/20	3975.00	-	53.93	0.00	3921.07
MW - 13	03/23/21	3975.00	-	53.90	0.00	3921.10
MW - 13	06/04/21	3975.00	-	53.95	0.00	3921.05
MW - 13	09/30/21	3975.00	-	54.06	0.00	3920.94
MW - 13	12/09/21	3975.00	-	54.10	0.00	3920.90
MW - 13	02/17/22	3975.00	-	54.08	0.00	3920.92
MW - 13	05/17/22	3975.00	-	54.14	0.00	3920.86
MW - 13	08/08/22	3975.00	-	54.24	0.00	3920.76
MW - 13	11/16/22	3975.00	-	54.27	0.00	3920.73
MW - 13	02/13/23	3975.00	-	54.28	0.00	3920.72
MW - 13	05/16/23	3975.00	-	54.33	0.00	3920.67
MW - 13	08/08/23	3975.00	-	54.41	0.00	3920.59
MW - 13	12/08/23	3975.00	-	54.58	0.00	3920.42
MW - 14	03/02/00	3976.15	-	54.49	0.00	3921.66
MW - 14	04/25/00	3976.15	-	54.55	0.00	3921.60
MW - 14	09/06/00	3976.15	-	54.61	0.00	3921.54
MW - 14	11/28/00	3976.15	-	54.61	0.00	3921.54

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 14	02/21/01	3976.15	-	54.44	0.00	3921.71
MW - 14	05/31/01	3976.15	-	54.45	0.00	3921.70
MW - 14	08/23/01	3976.15	-	54.47	0.00	3921.68
MW - 14	11/21/01	3976.15	-	54.50	0.00	3921.65
MW - 14	02/13/02	3976.15	-	54.55	0.00	3921.60
MW - 14	06/12/02	3976.15	-	54.52	0.00	3921.63
MW - 14	08/26/02	3976.15	-	54.53	0.00	3921.62
MW - 14	11/21/02	3976.15	-	54.57	0.00	3921.58
MW - 14	02/05/03	3976.15	-	54.52	0.00	3921.63
MW - 14	05/07/03	3976.15	-	54.51	0.00	3921.64
MW - 14	08/18/03	3976.15	-	54.57	0.00	3921.58
MW - 14	12/01/03	3976.15	-	54.61	0.00	3921.54
MW - 14	02/05/04	3976.15	-	54.60	0.00	3921.55
MW - 14	05/05/04	3976.15	-	54.58	0.00	3921.57
MW - 14	09/01/04	3976.15	-	54.65	0.00	3921.50
MW - 14	12/15/04	3976.15	-	54.60	0.00	3921.55
MW - 14	03/22/05	3976.15	-	54.40	0.00	3921.75
MW - 14	06/22/05	3976.15	-	54.29	0.00	3921.86
MW - 14	09/21/05	3976.15	-	54.21	0.00	3921.94
MW - 14	12/16/05	3976.15	-	54.14	0.00	3922.01
MW - 14	03/20/06	3976.15	-	54.11	0.00	3922.04
MW - 14	06/21/06	3976.15	-	54.06	0.00	3922.09
MW - 14	09/27/06	3976.15	-	54.04	0.00	3922.11
MW - 14	12/04/06	3976.15	-	54.02	0.00	3922.13
MW - 14	02/09/07	3976.15	-	54.01	0.00	3922.14
MW - 14	02/23/07	3976.15	-	53.96	0.00	3922.19
MW - 14	03/14/07	3976.15	-	53.99	0.00	3922.16
MW - 14	05/29/07	3976.15	-	53.94	0.00	3922.21
MW - 14	08/30/07	3976.15	-	53.92	0.00	3922.23
MW - 14	11/12/07	3976.15	-	53.87	0.00	3922.28
MW - 14	03/07/08	3976.15	-	53.81	0.00	3922.34
MW - 14	06/02/08	3976.15	-	53.75	0.00	3922.40
MW - 14	09/03/08	3976.15	-	53.75	0.00	3922.40
MW - 14	12/08/08	3976.15	-	53.70	0.00	3922.45
MW - 14	02/19/09	3976.15	-	53.71	0.00	3922.44
MW - 14	05/20/09	3976.15	-	53.69	0.00	3922.46
MW - 14	08/12/09	3976.15	-	53.69	0.00	3922.46
MW - 14	11/04/09	3976.15	-	53.66	0.00	3922.49
MW - 14	11/11/09	3976.15	-	53.66	0.00	3922.49
MW - 14	11/18/09	3976.15	-	53.65	0.00	3922.50
MW - 14	11/25/09	3976.15	-	53.65	0.00	3922.50
MW - 14	12/02/09	3976.15	-	52.02	0.00	3924.13
MW - 14	01/07/10	3976.15	-	53.64	0.00	3922.51

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 14	02/02/10	3976.15	-	53.63	0.00	3922.52
MW - 14	02/11/10	3976.15	-	53.63	0.00	3922.52
MW - 14	05/17/10	3976.15	-	53.72	0.00	3922.43
MW - 14	08/16/10	3976.15	-	53.71	0.00	3922.44
MW - 14	11/10/10	3976.15	-	53.70	0.00	3922.45
MW - 14	02/28/11	3976.15	-	53.71	0.00	3922.44
MW - 14	03/04/11	3976.15	-	53.56	0.00	3922.59
MW - 14	04/28/11	3976.15	-	53.63	0.00	3922.52
MW - 14	05/04/11	3976.15	-	52.38	0.00	3923.77
MW - 14	05/11/11	3976.15	-	53.59	0.00	3922.56
MW - 14	05/12/11	3976.15	-	53.58	0.00	3922.57
MW - 14	05/18/11	3976.15	-	53.57	0.00	3922.58
MW - 14	05/23/11	3976.15	-	53.62	0.00	3922.53
MW - 14	06/08/11	3976.15	-	53.45	0.00	3922.70
MW - 14	06/16/11	3976.15	-	53.53	0.00	3922.62
MW - 14	06/22/11	3976.15	-	53.52	0.00	3922.63
MW - 14	06/30/11	3976.15	-	53.71	0.00	3922.44
MW - 14	07/06/11	3976.15	-	53.60	0.00	3922.55
MW - 14	07/13/11	3976.15	-	53.66	0.00	3922.49
MW - 14	07/15/11	3976.15	-	53.67	0.00	3922.48
MW - 14	07/19/11	3976.15	-	53.62	0.00	3922.53
MW - 14	07/21/11	3976.15	-	53.58	0.00	3922.57
MW - 14	07/25/11	3976.15	-	53.57	0.00	3922.58
MW - 14	07/28/11	3976.15	-	53.62	0.00	3922.53
MW - 14	08/02/11	3976.15	-	53.70	0.00	3922.45
MW - 14	08/09/11	3976.15	-	53.66	0.00	3922.49
MW - 14	08/12/11	3976.15	-	53.67	0.00	3922.48
MW - 14	08/15/11	3976.15	-	53.67	0.00	3922.48
MW - 14	08/16/11	3976.15	-	53.66	0.00	3922.49
MW - 14	08/19/11	3976.15	-	53.69	0.00	3922.46
MW - 14	08/23/11	3976.15	-	53.71	0.00	3922.44
MW - 14	08/26/11	3976.15	-	53.72	0.00	3922.43
MW - 14	08/30/11	3976.15	-	53.63	0.00	3922.52
MW - 14	09/01/11	3976.15	-	53.68	0.00	3922.47
MW - 14	09/15/11	3976.15	-	53.68	0.00	3922.47
MW - 14	09/22/11	3976.15	-	53.61	0.00	3922.54
MW - 14	10/11/11	3976.15	-	53.72	0.00	3922.43
MW - 14	10/13/11	3976.15	-	53.76	0.00	3922.39
MW - 14	10/26/11	3976.15	-	53.70	0.00	3922.45
MW - 14	11/22/11	3976.15	-	53.66	0.00	3922.49
MW - 14	12/29/11	3976.15	-	53.63	0.00	3922.52
MW - 14	01/26/12	3976.15	-	53.64	0.00	3922.51
MW - 14	02/28/12	3976.15	-	53.62	0.00	3922.53

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 14	03/20/12	3976.15	-	53.68	0.00	3922.47
MW - 14	03/27/12	3976.15	-	53.65	0.00	3922.50
MW - 14	05/17/12	3976.15	-	53.64	0.00	3922.51
MW - 14	08/01/12	3976.15	-	53.75	0.00	3922.40
MW - 14	10/25/12	3976.15	-	53.80	0.00	3922.35
MW - 14	11/29/12	3976.15	-	53.81	0.00	3922.34
MW - 14	02/11/13	3976.15	-	53.73	0.00	3922.42
MW - 14	04/11/13	3976.15	-	53.96	0.00	3922.19
MW - 14	05/06/13	3976.15	-	53.82	0.00	3922.33
MW - 14	05/29/13	3976.15	-	53.93	0.00	3922.22
MW - 14	06/26/13	3976.15	-	53.86	0.00	3922.29
MW - 14	07/31/13	3976.15	-	53.79	0.00	3922.36
MW - 14	08/06/13	3976.15	-	53.82	0.00	3922.33
MW - 14	09/30/13	3976.15	-	53.90	0.00	3922.25
MW - 14	11/19/13	3976.15	-	53.96	0.00	3922.19
MW - 14	02/04/14	3976.15	-	53.95	0.00	3922.20
MW - 14	04/28/14	3976.15	-	53.94	0.00	3922.21
MW - 14	05/28/14	3976.15	-	53.96	0.00	3922.19
MW - 14	07/30/14	3976.15	-	54.00	0.00	3922.15
MW - 14	08/23/14	3976.15	-	54.06	0.00	3922.09
MW - 14	10/31/14	3976.15	-	54.04	0.00	3922.11
MW - 14	11/18/14	3976.15	-	54.05	0.00	3922.10
MW - 14	11/18/14	3976.15	-	52.46	0.00	3923.69
MW - 14	01/09/15	3976.15	-	54.02	0.00	3922.13
MW - 14	02/19/15	3976.15	-	54.02	0.00	3922.13
MW - 14	03/31/15	3976.15	-	54.02	0.00	3922.13
MW - 14	04/09/15	3976.15	-	53.96	0.00	3922.19
MW - 14	05/12/15	3976.15	-	53.98	0.00	3922.17
MW - 14	07/27/15	3976.15	-	54.04	0.00	3922.11
MW - 14	08/18/15	3976.15	-	53.92	0.00	3922.23
MW - 14	10/08/15	3976.15	-	54.05	0.00	3922.10
MW - 14	11/23/15	3976.15	-	54.01	0.00	3922.14
MW - 14	01/12/16	3976.15	-	54.07	0.00	3922.08
MW - 14	02/24/16	3976.15	-	54.06	0.00	3922.09
MW - 14	06/13/16	3976.15	-	54.06	0.00	3922.09
MW - 14	08/02/16	3976.15	-	54.18	0.00	3921.97
MW - 14	11/28/16	3976.15	-	54.14	0.00	3922.01
MW - 14	02/21/17	3976.15	-	54.11	0.00	3922.04
MW - 14	05/24/17	3976.15	-	54.08	0.00	3922.07
MW - 14	07/12/17	3976.15	-	54.14	0.00	3922.01
MW - 14	08/11/17	3976.15	-	54.16	0.00	3921.99
MW - 14	10/18/17	3976.15	-	54.21	0.00	3921.94
MW - 14	11/28/17	3976.15	-	54.21	0.00	3921.94

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 14	01/16/18	3976.15	-	54.21	0.00	3921.94
MW - 14	02/26/18	3976.15	-	54.18	0.00	3921.97
MW - 14	04/03/18	3976.15	-	54.16	0.00	3921.99
MW - 14	04/17/18	3976.15	-	54.18	0.00	3921.97
MW - 14	05/07/18	3976.15	-	54.20	0.00	3921.95
MW - 14	06/26/18	3976.15	-	54.25	0.00	3921.90
MW - 14	08/09/18	3976.15	-	54.28	0.00	3921.87
MW - 14	11/14/18	3976.15	-	54.31	0.00	3921.84
MW - 14	11/27/18	3976.15	-	54.34	0.00	3921.81
MW - 14	12/18/18	3976.15	-	54.31	0.00	3921.84
MW - 14	02/18/19	3976.15	-	54.33	0.00	3921.82
MW - 14	05/14/19	3976.15	-	54.29	0.00	3921.86
MW - 14	08/19/19	3976.15	-	54.47	0.00	3921.68
MW - 14	11/11/19	3976.15	-	54.49	0.00	3921.66
MW - 14	02/18/20	3976.15	-	54.45	0.00	3921.70
MW - 14	05/05/20	3976.15	-	54.46	0.00	3921.69
MW - 14	06/11/20	3976.15	-	54.50	0.00	3921.65
MW - 14	09/23/20	3976.15	-	54.60	0.00	3921.55
MW - 14	12/04/20	3976.15	-	54.62	0.00	3921.53
MW - 14	03/23/21	3976.15	-	54.60	0.00	3921.55
MW - 14	06/04/21	3976.15	-	54.65	0.00	3921.50
MW - 14	09/30/21	3976.15	-	54.78	0.00	3921.37
MW - 14	12/09/21	3976.15	-	54.79	0.00	3921.36
MW - 14	02/17/22	3976.15	-	54.74	0.00	3921.41
MW - 14	03/08/22	3976.15	-	54.79	0.00	3921.36
MW - 14	05/18/22	3976.15	-	54.87	0.00	3921.28
MW - 14	08/09/22	3976.15	-	54.93	0.00	3921.22
MW - 14	11/15/22	3976.15	-	54.96	0.00	3921.19
MW - 14	02/14/23	3976.15	-	54.98	0.00	3921.17
MW - 14	05/16/23	3976.15	-	55.04	0.00	3921.11
MW - 14	08/08/23	3976.15	-	55.15	0.00	3921.00
MW - 14	12/07/23	3976.15	-	55.16	0.00	3920.99
MW - 15	03/02/00	3974.69	-	53.31	0.00	3921.38
MW - 15	04/25/00	3974.69	-	53.39	0.00	3921.30
MW - 15	09/06/00	3974.69	-	53.45	0.00	3921.24
MW - 15	11/28/00	3974.69	-	53.45	0.00	3921.24
MW - 15	02/21/01	3974.69	-	53.35	0.00	3921.34
MW - 15	05/31/01	3974.69	-	53.25	0.00	3921.44
MW - 15	08/23/01	3974.69	-	53.32	0.00	3921.37
MW - 15	11/21/01	3974.69	-	53.46	0.00	3921.23
MW - 15	02/13/02	3974.69	-	53.39	0.00	3921.30
MW - 15	06/12/02	3974.69	-	53.36	0.00	3921.33

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 15	08/26/02	3974.69	-	53.45	0.00	3921.24
MW - 15	11/21/02	3974.69	-	53.42	0.00	3921.27
MW - 15	02/05/03	3974.69	-	53.40	0.00	3921.29
MW - 15	05/07/03	3974.69	-	53.35	0.00	3921.34
MW - 15	08/18/03	3974.69	-	53.41	0.00	3921.28
MW - 15	12/01/03	3974.69	-	53.45	0.00	3921.24
MW - 15	02/05/04	3974.69	-	53.45	0.00	3921.24
MW - 15	05/05/04	3974.69	-	53.42	0.00	3921.27
MW - 15	09/01/04	3974.69	-	53.47	0.00	3921.22
MW - 15	12/15/04	3974.69	-	53.40	0.00	3921.29
MW - 15	03/22/05	3974.69	-	53.19	0.00	3921.50
MW - 15	06/22/05	3974.69	-	53.14	0.00	3921.55
MW - 15	09/21/05	3974.69	-	53.05	0.00	3921.64
MW - 15	12/16/05	3974.69	-	52.99	0.00	3921.70
MW - 15	03/20/06	3974.69	-	52.96	0.00	3921.73
MW - 15	06/21/06	3974.69	-	52.91	0.00	3921.78
MW - 15	09/27/06	3974.69	-	52.88	0.00	3921.81
MW - 15	12/04/06	3974.69	-	52.88	0.00	3921.81
MW - 15	02/09/07	3974.69	-	52.87	0.00	3921.82
MW - 15	02/23/07	3974.69	-	52.80	0.00	3921.89
MW - 15	03/14/07	3974.69	-	52.81	0.00	3921.88
MW - 15	05/29/07	3974.69	-	52.79	0.00	3921.90
MW - 15	08/30/07	3974.69	-	52.77	0.00	3921.92
MW - 15	11/12/07	3974.69	-	52.73	0.00	3921.96
MW - 15	03/07/08	3974.69	-	52.66	0.00	3922.03
MW - 15	06/02/08	3974.69	-	52.60	0.00	3922.09
MW - 15	09/03/08	3974.69	-	52.62	0.00	3922.07
MW - 15	12/08/08	3974.69	-	52.62	0.00	3922.07
MW - 15	02/19/09	3974.69	-	52.56	0.00	3922.13
MW - 15	05/20/09	3974.69	-	52.53	0.00	3922.16
MW - 15	08/12/09	3974.69	-	52.53	0.00	3922.16
MW - 15	11/04/09	3974.69	-	52.47	0.00	3922.22
MW - 15	11/11/09	3974.69	-	52.46	0.00	3922.23
MW - 15	11/18/09	3974.69	-	52.50	0.00	3922.19
MW - 15	11/25/09	3974.69	-	52.51	0.00	3922.18
MW - 15	12/02/09	3974.69	-	52.49	0.00	3922.20
MW - 15	01/07/10	3974.69	-	52.50	0.00	3922.19
MW - 15	02/02/10	3974.69	-	52.47	0.00	3922.22
MW - 15	02/11/10	3974.69	-	52.47	0.00	3922.22
MW - 15	05/17/10	3974.69	-	52.59	0.00	3922.10
MW - 15	08/16/10	3974.69	-	52.59	0.00	3922.10
MW - 15	11/10/10	3974.69	-	52.58	0.00	3922.11
MW - 15	02/28/11	3974.69	-	52.59	0.00	3922.10

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 15	03/04/11	3974.69	-	52.43	0.00	3922.26
MW - 15	04/28/11	3974.69	-	52.38	0.00	3922.31
MW - 15	05/04/11	3974.69	-	52.37	0.00	3922.32
MW - 15	05/11/11	3974.69	-	52.39	0.00	3922.30
MW - 15	05/12/11	3974.69	-	52.48	0.00	3922.21
MW - 15	05/18/11	3974.69	-	52.51	0.00	3922.18
MW - 15	05/23/11	3974.69	-	52.30	0.00	3922.39
MW - 15	06/08/11	3974.69	-	52.53	0.00	3922.16
MW - 15	06/16/11	3974.69	-	52.46	0.00	3922.23
MW - 15	06/22/11	3974.69	-	52.44	0.00	3922.25
MW - 15	06/30/11	3974.69	-	52.49	0.00	3922.20
MW - 15	07/06/11	3974.69	-	52.48	0.00	3922.21
MW - 15	07/13/11	3974.69	-	52.49	0.00	3922.20
MW - 15	07/15/11	3974.69	-	52.54	0.00	3922.15
MW - 15	07/19/11	3974.69	-	52.50	0.00	3922.19
MW - 15	07/21/11	3974.69	-	52.52	0.00	3922.17
MW - 15	07/26/11	3974.69	-	52.50	0.00	3922.19
MW - 15	07/28/11	3974.69	-	52.58	0.00	3922.11
MW - 15	08/02/11	3974.69	-	52.63	0.00	3922.06
MW - 15	08/09/11	3974.69	-	52.65	0.00	3922.04
MW - 15	08/12/11	3974.69	-	52.70	0.00	3921.99
MW - 15	08/15/11	3974.69	-	52.70	0.00	3921.99
MW - 15	08/16/11	3974.69	-	52.69	0.00	3922.00
MW - 15	08/19/11	3974.69	-	52.72	0.00	3921.97
MW - 15	08/23/11	3974.69	-	52.74	0.00	3921.95
MW - 15	08/26/11	3974.69	-	52.76	0.00	3921.93
MW - 15	08/30/11	3974.69	-	52.50	0.00	3922.19
MW - 15	09/01/11	3974.69	-	52.53	0.00	3922.16
MW - 15	09/15/11	3974.69	-	52.58	0.00	3922.11
MW - 15	09/22/11	3974.69	-	52.52	0.00	3922.17
MW - 15	10/11/11	3974.69	-	52.13	0.00	3922.56
MW - 15	10/13/11	3974.69	-	52.64	0.00	3922.05
MW - 15	10/26/11	3974.69	-	52.59	0.00	3922.10
MW - 15	11/22/11	3974.69	-	52.54	0.00	3922.15
MW - 15	12/29/11	3974.69	-	52.46	0.00	3922.23
MW - 15	01/26/12	3974.69	-	52.55	0.00	3922.14
MW - 15	01/31/12	3974.69	-	52.56	0.00	3922.13
MW - 15	02/15/12	3974.69	-	52.50	0.00	3922.19
MW - 15	02/28/12	3974.69	-	52.51	0.00	3922.18
MW - 15	03/20/12	3974.69	-	52.57	0.00	3922.12
MW - 15	03/27/12	3974.69	-	52.54	0.00	3922.15
MW - 15	04/10/12	3974.69	-	52.54	0.00	3922.15
MW - 15	04/19/12	3974.69	-	52.55	0.00	3922.14



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 15	04/26/12	3974.69	-	52.49	0.00	3922.20
MW - 15	05/08/12	3974.69	-	52.50	0.00	3922.19
MW - 15	05/15/12	3974.69	-	52.51	0.00	3922.18
MW - 15	05/17/12	3974.69	-	52.49	0.00	3922.20
MW - 15	06/05/12	3974.69	-	52.53	0.00	3922.16
MW - 15	06/21/12	3974.69	-	53.09	0.00	3921.60
MW - 15	06/28/12	3974.69	-	53.16	0.00	3921.53
MW - 15	08/01/12	3974.69	-	52.60	0.00	3922.09
MW - 15	10/02/12	3974.69	-	52.70	0.00	3921.99
MW - 15	10/09/12	3974.69	-	52.75	0.00	3921.94
MW - 15	10/16/12	3974.69	-	52.67	0.00	3922.02
MW - 15	10/25/12	3974.69	-	52.67	0.00	3922.02
MW - 15	10/30/12	3974.69	-	52.68	0.00	3922.01
MW - 15	11/29/12	3974.69	-	52.73	0.00	3921.96
MW - 15	12/14/12	3974.69	-	52.71	0.00	3921.98
MW - 15	02/11/13	3974.69	-	52.65	0.00	3922.04
MW - 15	04/11/13	3974.69	-	52.91	0.00	3921.78
MW - 15	04/15/13	3974.69	-	52.91	0.00	3921.78
MW - 15	04/22/13	3974.69	-	52.66	0.00	3922.03
MW - 15	05/06/13	3974.69	-	52.66	0.00	3922.03
MW - 15	05/09/13	3974.69	-	52.68	0.00	3922.01
MW - 15	05/20/13	3974.69	-	52.69	0.00	3922.00
MW - 15	05/24/13	3974.69	-	52.83	0.00	3921.86
MW - 15	05/29/13	3974.69	-	52.92	0.00	3921.77
MW - 15	05/31/13	3974.69	-	52.82	0.00	3921.87
MW - 15	06/07/13	3974.69	-	52.93	0.00	3921.76
MW - 15	06/12/13	3974.69	-	52.91	0.00	3921.78
MW - 15	06/14/13	3974.69	-	52.86	0.00	3921.83
MW - 15	06/19/13	3974.69	-	52.88	0.00	3921.81
MW - 15	06/21/13	3974.69	-	52.94	0.00	3921.75
MW - 15	06/25/13	3974.69	-	52.75	0.00	3921.94
MW - 15	06/26/13	3974.69	-	52.88	0.00	3921.81
MW - 15	07/03/13	3974.69	-	52.86	0.00	3921.83
MW - 15	07/09/13	3974.69	-	52.87	0.00	3921.82
MW - 15	07/11/13	3974.69	-	52.92	0.00	3921.77
MW - 15	07/24/13	3974.69	-	52.84	0.00	3921.85
MW - 15	07/26/13	3974.69	-	52.88	0.00	3921.81
MW - 15	07/31/13	3974.69	-	52.83	0.00	3921.86
MW - 15	08/02/13	3974.69	-	52.87	0.00	3921.82
MW - 15	08/06/13	3974.69	-	52.78	0.00	3921.91
MW - 15	08/14/13	3974.69	-	52.89	0.00	3921.80
MW - 15	08/21/13	3974.69	-	52.91	0.00	3921.78
MW - 15	08/26/13	3974.69	-	52.87	0.00	3921.82

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 15	09/06/13	3974.69	-	52.87	0.00	3921.82
MW - 15	08/30/13	3974.69	-	52.84	0.00	3921.85
MW - 15	09/13/13	3974.69	-	52.80	0.00	3921.89
MW - 15	09/27/13	3974.69	-	52.93	0.00	3921.76
MW - 15	09/30/13	3974.69	-	52.91	0.00	3921.78
MW - 15	10/02/13	3974.69	-	52.92	0.00	3921.77
MW - 15	10/03/13	3974.69	-	52.88	0.00	3921.81
MW - 15	10/11/13	3974.69	-	52.76	0.00	3921.93
MW - 15	10/17/13	3974.69	-	52.79	0.00	3921.90
MW - 15	10/22/13	3974.69	-	52.78	0.00	3921.91
MW - 15	10/24/13	3974.69	-	52.96	0.00	3921.73
MW - 15	10/30/13	3974.69	-	52.92	0.00	3921.77
MW - 15	11/01/13	3974.69	-	52.85	0.00	3921.84
MW - 15	11/04/13	3974.69	-	52.83	0.00	3921.86
MW - 15	11/08/13	3974.69	-	52.95	0.00	3921.74
MW - 15	11/13/13	3974.69	-	52.80	0.00	3921.89
MW - 15	11/15/13	3974.69	-	52.81	0.00	3921.88
MW - 15	11/19/13	3974.69	-	52.79	0.00	3921.90
MW - 15	12/08/13	3974.69	-	52.79	0.00	3921.90
MW - 15	12/12/13	3974.69	-	52.85	0.00	3921.84
MW - 15	12/16/13	3974.69	-	52.83	0.00	3921.86
MW - 15	12/18/13	3974.69	-	52.84	0.00	3921.85
MW - 15	12/23/13	3974.69	-	52.94	0.00	3921.75
MW - 15	12/30/13	3974.69	-	52.89	0.00	3921.80
MW - 15	01/01/14	3974.69	-	52.85	0.00	3921.84
MW - 15	01/06/14	3974.69	-	52.83	0.00	3921.86
MW - 15	01/15/14	3974.69	-	52.98	0.00	3921.71
MW - 15	01/17/14	3974.69	-	52.82	0.00	3921.87
MW - 15	01/20/14	3974.69	-	52.80	0.00	3921.89
MW - 15	01/22/14	3974.69	-	53.36	0.00	3921.33
MW - 15	01/29/14	3974.69	-	52.84	0.00	3921.85
MW - 15	02/04/14	3974.69	-	52.81	0.00	3921.88
MW - 15	02/13/14	3974.69	-	52.83	0.00	3921.86
MW - 15	02/21/14	3974.69	-	52.98	0.00	3921.71
MW - 15	02/26/14	3974.69	-	53.00	0.00	3921.69
MW - 15	03/12/14	3974.69	-	52.98	0.00	3921.71
MW - 15	03/14/14	3974.69	-	52.95	0.00	3921.74
MW - 15	03/17/14	3974.69	-	52.94	0.00	3921.75
MW - 15	03/24/14	3974.69	-	52.92	0.00	3921.77
MW - 15	03/26/14	3974.69	-	52.91	0.00	3921.78
MW - 15	04/09/14	3974.69	-	52.79	0.00	3921.90
MW - 15	04/28/14	3974.69	-	52.80	0.00	3921.89
MW - 15	05/28/14	3974.69	-	52.92	0.00	3921.77

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 15	06/18/14	3974.69	-	52.83	0.00	3921.86
MW - 15	07/30/14	3974.69	-	52.89	0.00	3921.80
MW - 15	08/23/14	3974.69	-	52.93	0.00	3921.76
MW - 15	10/31/14	3974.69	-	52.94	0.00	3921.75
MW - 15	11/18/14	3974.69	-	52.91	0.00	3921.78
MW - 15	01/09/15	3974.69	-	52.87	0.00	3921.82
MW - 15	02/19/15	3974.69	-	52.90	0.00	3921.79
MW - 15	03/31/15	3974.69	-	52.93	0.00	3921.76
MW - 15	04/09/15	3974.69	-	52.80	0.00	3921.89
MW - 15	05/12/15	3974.69	-	52.84	0.00	3921.85
MW - 15	07/27/15	3974.69	-	52.95	0.00	3921.74
MW - 15	08/18/15	3974.69	-	52.88	0.00	3921.81
MW - 15	10/08/15	3974.69	-	53.03	0.00	3921.66
MW - 15	11/23/15	3974.69	-	52.91	0.00	3921.78
MW - 15	01/12/16	3974.69	-	52.90	0.00	3921.79
MW - 15	02/24/16	3974.69	-	52.90	0.00	3921.79
MW - 15	06/13/16	3974.69	-	52.93	0.00	3921.76
MW - 15	08/02/16	3974.69	-	53.07	0.00	3921.62
MW - 15	11/28/16	3974.69	-	52.98	0.00	3921.71
MW - 15	02/21/17	3974.69	-	52.95	0.00	3921.74
MW - 15	05/24/17	3974.69	-	52.93	0.00	3921.76
MW - 15	07/12/17	3974.69	-	53.05	0.00	3921.64
MW - 15	08/11/17	3974.69	-	53.01	0.00	3921.68
MW - 15	10/18/17	3974.69	-	53.09	0.00	3921.60
MW - 15	11/28/17	3974.69	-	53.06	0.00	3921.63
MW - 15	01/16/18	3974.69	-	53.05	0.00	3921.64
MW - 15	02/26/18	3974.69	-	53.01	0.00	3921.68
MW - 15	04/03/18	3974.69	-	53.02	0.00	3921.67
MW - 15	04/17/18	3974.69	-	53.01	0.00	3921.68
MW - 15	05/07/18	3974.69	-	53.11	0.00	3921.58
MW - 15	06/26/18	3974.69	-	53.08	0.00	3921.61
MW - 15	08/09/18	3974.69	-	53.14	0.00	3921.55
MW - 15	09/11/18	3974.69	-	53.15	0.00	3921.54
MW - 15	09/11/18	3974.69	-	53.21	0.00	3921.48
MW - 15	11/14/18	3974.69	-	53.21	0.00	3921.48
MW - 15	12/18/18	3974.69	-	53.12	0.00	3921.57
MW - 15	02/18/19	3974.69	-	53.16	0.00	3921.53
MW - 15	05/14/19	3974.69	-	53.11	0.00	3921.58
MW - 15	08/19/19	3974.69	-	53.30	0.00	3921.39
MW - 15	11/11/19	3974.69	-	53.32	0.00	3921.37
MW - 15	02/18/20	3974.69	-	53.28	0.00	3921.41
MW - 15	05/05/20	3974.69	-	53.31	0.00	3921.38
MW - 15	06/11/20	3974.69	-	53.34	0.00	3921.35

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 15	09/23/20	3974.69	-	53.45	0.00	3921.24
MW - 15	12/04/20	3974.69	-	53.47	0.00	3921.22
MW - 15	03/23/21	3974.69	-	53.44	0.00	3921.25
MW - 15	06/04/21	3974.69	-	53.51	0.00	3921.18
MW - 15	09/30/21	3974.69	-	53.61	0.00	3921.08
MW - 15	12/09/21	3974.69	-	53.62	0.00	3921.07
MW - 15	02/17/22	3974.69	-	53.63	0.00	3921.06
MW - 15	03/08/22	3974.69	-	53.60	0.00	3921.09
MW - 15	05/18/22	3974.69	-	53.71	0.00	3920.98
MW - 15	08/09/22	3974.69	-	53.79	0.00	3920.90
MW - 15	11/15/22	3974.69	-	53.80	0.00	3920.89
MW - 15	02/14/23	3974.69	-	53.77	0.00	3920.92
MW - 15	05/16/23	3974.69	-	53.98	0.00	3920.71
MW - 15	08/08/23	3974.69	-	53.95	0.00	3920.74
MW - 15	12/07/23	3974.69	-	54.03	0.00	3920.66
MW - 16	12/23/02	3975.12	-	53.44	0.00	3921.68
MW - 16	01/10/03	3975.12	-	53.45	0.00	3921.67
MW - 16	05/07/03	3975.12	-	53.38	0.00	3921.74
MW - 16	08/18/03	3975.12	-	53.44	0.00	3921.68
MW - 16	12/01/03	3975.12	-	53.48	0.00	3921.64
MW - 16	02/05/04	3975.12	-	53.48	0.00	3921.64
MW - 16	05/05/04	3975.12	-	53.41	0.00	3921.71
MW - 16	09/01/04	3975.12	-	53.52	0.00	3921.60
MW - 16	12/15/04	3975.12	-	53.48	0.00	3921.64
MW - 16	03/22/05	3975.12	-	53.26	0.00	3921.86
MW - 16	06/22/05	3975.12	-	53.15	0.00	3921.97
MW - 16	09/21/05	3975.12	-	53.08	0.00	3922.04
MW - 16	12/16/05	3975.12	-	53.02	0.00	3922.10
MW - 16	03/20/06	3975.12	-	52.97	0.00	3922.15
MW - 16	06/21/06	3975.12	-	52.94	0.00	3922.18
MW - 16	09/27/06	3975.12	-	52.90	0.00	3922.22
MW - 16	12/04/06	3975.12	-	52.88	0.00	3922.24
MW - 16	03/14/07	3975.12	-	52.84	0.00	3922.28
MW - 16	05/29/07	3975.12	-	52.80	0.00	3922.32
MW - 16	08/30/07	3975.12	-	52.78	0.00	3922.34
MW - 16	11/12/07	3975.12	-	52.73	0.00	3922.39
MW - 16	03/07/08	3975.12	-	52.66	0.00	3922.46
MW - 16	06/02/08	3975.12	-	52.62	0.00	3922.50
MW - 16	09/03/08	3975.12	-	52.63	0.00	3922.49
MW - 16	12/08/08	3975.12	-	52.57	0.00	3922.55
MW - 16	02/19/09	3975.12	-	52.58	0.00	3922.54
MW - 16	05/20/09	3975.12	-	52.54	0.00	3922.58

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 16	08/12/09	3975.12	-	52.55	0.00	3922.57
MW - 16	11/25/09	3975.12	-	52.51	0.00	3922.61
MW - 16	01/07/10	3975.12	-	52.51	0.00	3922.61
MW - 16	02/11/10	3975.12	-	52.48	0.00	3922.64
MW - 16	05/17/10	3975.12	-	52.60	0.00	3922.52
MW - 16	08/16/10	3975.12	-	52.61	0.00	3922.51
MW - 16	11/10/10	3975.12	-	52.61	0.00	3922.51
MW - 16	02/28/11	3975.12	-	52.60	0.00	3922.52
MW - 16	05/12/11	3975.12	-	52.29	0.00	3922.83
MW - 16	08/15/11	3975.12	-	52.56	0.00	3922.56
MW - 16	11/22/11	3975.12	-	52.40	0.00	3922.72
MW - 16	02/28/12	3975.12	-	52.41	0.00	3922.71
MW - 16	05/17/12	3975.12	-	52.50	0.00	3922.62
MW - 16	08/01/12	3975.12	-	52.61	0.00	3922.51
MW - 16	10/25/12	3975.12	-	52.64	0.00	3922.48
MW - 16	11/29/12	3975.12	-	52.41	0.00	3922.71
MW - 16	02/11/13	3975.12	-	52.59	0.00	3922.53
MW - 16	04/11/13	3975.12	-	52.19	0.00	3922.93
MW - 16	05/06/13	3975.12	-	52.67	0.00	3922.45
MW - 16	05/29/13	3975.12	-	52.42	0.00	3922.70
MW - 16	06/26/13	3975.12	-	52.19	0.00	3922.93
MW - 16	07/31/13	3975.12	-	52.32	0.00	3922.80
MW - 16	08/06/13	3975.12	-	52.42	0.00	3922.70
MW - 16	09/30/13	3975.12	-	52.49	0.00	3922.63
MW - 16	11/19/13	3975.12	-	52.81	0.00	3922.31
MW - 16	02/04/14	3975.12	-	52.81	0.00	3922.31
MW - 16	04/28/14	3975.12	-	52.81	0.00	3922.31
MW - 16	05/28/14	3975.12	-	52.66	0.00	3922.46
MW - 16	07/30/14	3975.12	-	52.80	0.00	3922.32
MW - 16	08/23/14	3975.12	-	52.90	0.00	3922.22
MW - 16	10/31/14	3975.12	-	52.86	0.00	3922.26
MW - 16	11/18/14	3975.12	-	52.90	0.00	3922.22
MW - 16	01/09/15	3975.12	-	52.88	0.00	3922.24
MW - 16	02/19/15	3975.12	-	52.84	0.00	3922.28
MW - 16	03/31/15	3975.12	-	52.72	0.00	3922.40
MW - 16	04/09/15	3975.12	-	52.80	0.00	3922.32
MW - 16	05/12/15	3975.12	-	52.86	0.00	3922.26
MW - 16	07/27/15	3975.12	-	52.72	0.00	3922.40
MW - 16	08/18/15	3975.12	-	52.60	0.00	3922.52
MW - 16	10/08/15	3975.12	-	52.69	0.00	3922.43
MW - 16	11/23/15	3975.12	-	52.81	0.00	3922.31
MW - 16	01/12/16	3975.12	-	52.92	0.00	3922.20
MW - 16	02/24/16	3975.12	-	52.90	0.00	3922.22

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 16	06/13/16	3975.12	-	52.91	0.00	3922.21
MW - 16	08/02/16	3975.12	-	52.96	0.00	3922.16
MW - 16	11/28/16	3975.12	-	53.00	0.00	3922.12
MW - 16	02/21/17	3975.12	-	52.98	0.00	3922.14
MW - 16	05/24/17	3975.12	-	52.95	0.00	3922.17
MW - 16	07/12/17	3975.12	-	52.95	0.00	3922.17
MW - 16	08/11/17	3975.12	-	52.95	0.00	3922.17
MW - 16	10/18/17	3975.12	-	52.91	0.00	3922.21
MW - 16	11/28/17	3975.12	-	53.07	0.00	3922.05
MW - 16	01/16/18	3975.12	-	53.08	0.00	3922.04
MW - 16	02/26/18	3975.12	-	53.02	0.00	3922.10
MW - 16	04/03/18	3975.12	-	53.01	0.00	3922.11
MW - 16	04/17/18	3975.12	-	53.04	0.00	3922.08
MW - 16	05/07/18	3975.12	-	52.72	0.00	3922.40
MW - 16	06/26/18	3975.12	-	53.10	0.00	3922.02
MW - 16	08/09/18	3975.12	-	53.14	0.00	3921.98
MW - 16	11/14/18	3975.12	-	53.16	0.00	3921.96
MW - 16	12/18/18	3975.12	-	53.19	0.00	3921.93
MW - 16	02/18/18	3975.12	-	53.22	0.00	3921.90
MW - 16	02/18/19	3975.12	-	53.22	0.00	3921.90
MW - 16	05/14/19	3975.12	-	53.16	0.00	3921.96
MW - 16	08/19/19	3975.12	-	53.37	0.00	3921.75
MW - 16	11/11/19	3975.12	-	53.36	0.00	3921.76
MW - 16	02/18/20	3975.12	-	53.30	0.00	3921.82
MW - 16	05/05/20	3975.12	-	53.34	0.00	3921.78
MW - 16	06/11/20	3975.12	-	53.35	0.00	3921.77
MW - 16	09/23/20	3975.12	-	53.44	0.00	3921.68
MW - 16	12/04/20	3975.12	-	53.47	0.00	3921.65
MW - 16	12/24/20	3975.12	-	53.49	0.00	3921.63
MW - 16	03/23/21	3975.12	-	53.47	0.00	3921.65
MW - 16	06/04/21	3975.12	-	53.52	0.00	3921.60
MW - 16	09/30/21	3975.12	-	53.62	0.00	3921.50
MW - 16	12/09/21	3975.12	-	53.67	0.00	3921.45
MW - 16	02/17/22	3975.12	-	53.66	0.00	3921.46
MW - 16	05/16/22	3975.12	-	53.73	0.00	3921.39
MW - 16	08/08/22	3975.12	-	53.78	0.00	3921.34
MW - 16	11/16/22	3975.12	-	53.82	0.00	3921.30
MW - 16	02/13/23	3975.12	-	53.84	0.00	3921.28
MW - 16	05/15/23	3975.12	-	53.91	0.00	3921.21
MW - 16	08/08/23	3975.12	-	53.98	0.00	3921.14
MW - 16	12/08/23	3975.12	-	54.03	0.00	3921.09
MW - 17	12/23/02	3975.93	-	54.41	0.00	3921.52

TABLE 7

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 17	01/10/03	3975.93	-	54.35	0.00	3921.58
MW - 17	05/07/03	3975.93	-	54.35	0.00	3921.58
MW - 17	08/18/03	3975.93	-	54.36	0.00	3921.57
MW - 17	12/01/03	3975.93	-	54.47	0.00	3921.46
MW - 17	02/05/04	3975.93	-	54.44	0.00	3921.49
MW - 17	05/05/04	3975.93	-	54.42	0.00	3921.51
MW - 17	09/01/04	3975.93	-	54.50	0.00	3921.43
MW - 17	12/15/04	3975.93	-	54.44	0.00	3921.49
MW - 17	03/22/05	3975.93	-	54.23	0.00	3921.70
MW - 17	06/22/05	3975.93	-	54.13	0.00	3921.80
MW - 17	09/21/05	3975.93	-	54.56	0.00	3921.37
MW - 17	12/16/05	3975.93	-	54.00	0.00	3921.93
MW - 17	03/20/06	3975.93	-	53.94	0.00	3921.99
MW - 17	08/09/06	PLUGGED & ABANDONED				
MW - 18	05/20/09	-	-	53.72	0.00	-
MW - 18	08/12/09	-	-	53.72	0.00	-
MW - 18	11/25/09	-	-	53.70	0.00	-
MW - 18	01/07/10	-	-	53.70	0.00	-
MW - 18	02/11/10	-	-	53.67	0.00	-
MW - 18	05/17/10	-	-	53.79	0.00	-
MW - 18	08/16/10	-	-	53.79	0.00	-
MW - 18	11/10/10	-	-	53.80	0.00	-
MW - 18	02/28/11	-	-	53.79	0.00	-
MW - 18	05/12/11	-	-	53.65	0.00	-
MW - 18	08/15/11	-	-	53.70	0.00	-
MW - 18	11/22/11	-	-	53.71	0.00	-
MW - 18	02/28/12	-	-	53.69	0.00	-
MW - 18	05/17/12	-	-	53.68	0.00	-
MW - 18	08/01/12	-	-	53.79	0.00	-
MW - 18	10/25/12	-	-	53.84	0.00	-
MW - 18	11/29/12	-	-	53.87	0.00	-
MW - 18	02/11/13	-	-	53.85	0.00	-
MW - 18	04/11/13	-	-	53.95	0.00	-
MW - 18	05/06/13	-	-	53.85	0.00	-
MW - 18	05/29/13	-	-	53.90	0.00	-
MW - 18	06/26/13	-	-	53.94	0.00	-
MW - 18	07/31/13	-	-	53.94	0.00	-
MW - 18	08/06/13	-	-	53.93	0.00	-
MW - 18	09/30/13	-	-	53.99	0.00	-
MW - 18	11/19/13	-	-	54.01	0.00	-
MW - 18	02/04/14	-	-	54.00	0.00	-
MW - 18	04/28/14	-	-	53.99	0.00	-

TABLE 7

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 18	05/28/14	-	-	54.04	0.00	-
MW - 18	07/30/14	-	-	54.11	0.00	-
MW - 18	08/23/14	-	-	54.12	0.00	-
MW - 18	10/31/14	-	-	54.16	0.00	-
MW - 18	11/18/14	-	-	54.12	0.00	-
MW - 18	01/09/15	-	-	54.07	0.00	-
MW - 18	02/19/15	-	-	54.06	0.00	-
MW - 18	03/31/15	-	-	54.06	0.00	-
MW - 18	04/09/15	-	-	54.03	0.00	-
MW - 18	05/12/15	-	-	54.02	0.00	-
MW - 18	07/27/15	-	-	54.10	0.00	-
MW - 18	08/18/15	-	-	54.10	0.00	-
MW - 18	10/08/15	-	-	54.15	0.00	-
MW - 18	11/23/15	-	-	54.10	0.00	-
MW - 18	01/12/16	-	-	54.10	0.00	-
MW - 18	02/24/16	-	-	54.11	0.00	-
MW - 18	06/13/16	-	-	54.12	0.00	-
MW - 18	08/02/16	-	-	54.26	0.00	-
MW - 18	11/28/16	-	-	54.16	0.00	-
MW - 18	02/21/17	-	-	54.15	0.00	-
MW - 18	05/24/17	-	-	54.14	0.00	-
MW - 18	07/12/17	-	-	53.21	0.00	-
MW - 18	08/11/17	-	-	54.21	0.00	-
MW - 18	10/18/17	-	-	54.27	0.00	-
MW - 18	11/28/17	-	-	54.23	0.00	-
MW - 18	01/16/18	-	-	54.24	0.00	-
MW - 18	02/26/18	-	-	54.22	0.00	-
MW - 18	04/03/18	-	-	54.21	0.00	-
MW - 18	04/17/18	-	-	54.21	0.00	-
MW - 18	05/07/18	-	-	54.37	0.00	-
MW - 18	06/26/18	-	-	54.18	0.00	-
MW - 18	08/09/18	-	-	54.32	0.00	-
MW - 18	09/11/18	-	-	54.34	0.00	-
MW - 18	11/14/18	-	-	54.39	0.00	-
MW - 18	12/18/18	-	-	54.34	0.00	-
MW - 18	02/18/19	-	-	54.37	0.00	-
MW - 18	05/14/19	-	-	54.34	0.00	-
MW - 18	08/19/19	-	-	54.53	0.00	-
MW - 18	11/11/19	-	-	54.57	0.00	-
MW - 18	02/18/20	-	-	54.49	0.00	-
MW - 18	05/05/20	-	-	54.50	0.00	-
MW - 18	06/11/20	-	-	54.54	0.00	-
MW - 18	09/23/20	-	-	54.65	0.00	-



TABLE 7

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 18	12/04/20	-	-	54.66	0.00	-
MW - 18	03/23/21	-	-	54.63	0.00	-
MW - 18	06/04/21	-	-	54.69	0.00	-
MW - 18	09/30/21	-	-	54.78	0.00	-
MW - 18	12/09/21	-	-	54.81	0.00	-
MW - 18	02/17/22	-	-	54.80	0.00	-
MW - 18	05/17/22	-	-	54.85	0.00	-
MW - 18	08/08/22	-	-	54.96	0.00	-
MW - 18	11/16/22	-	-	55.00	0.00	-
MW - 18	02/14/23	-	-	54.98	0.00	-
MW - 18	05/16/23	-	-	55.09	0.00	-
MW - 18	08/08/23	-	-	55.18	0.00	-
MW - 18	12/08/23	-	-	55.19	0.00	-
RW - 1	11/08/02	3970.79	48.44	51.55	3.11	3921.88
RW - 1	11/21/02	3970.79	49.01	49.04	0.03	3921.78
RW - 1	12/27/02	3970.79	48.48	51.37	2.89	3921.88
RW - 1	01/06/03	3970.79	49.48	51.13	1.65	3921.06
RW - 1	01/08/03	3970.79	48.46	51.20	2.74	3921.92
RW - 1	01/10/03	3970.79	48.95	48.97	0.02	3921.84
RW - 1	01/13/03	3970.79	48.65	50.36	1.71	3921.88
RW - 1	02/05/03	3970.79	48.51	51.32	2.81	3921.86
RW - 1	02/26/03	3970.79	48.41	51.34	2.93	3921.94
RW - 1	03/04/03	3970.79	48.41	51.34	2.93	3921.94
RW - 1	03/12/03	3970.79	48.44	51.41	2.97	3921.90
RW - 1	03/18/03	3970.79	48.51	51.51	3.00	3921.83
RW - 1	03/25/03	3970.79	48.85	49.04	0.19	3921.91
RW - 1	03/31/03	3970.79	48.92	49.07	0.15	3921.85
RW - 1	04/09/03	3970.79	48.97	49.00	0.03	3921.82
RW - 1	04/14/03	3970.79	sheen	48.99	0.00	3921.80
RW - 1	05/07/03	3970.79	48.39	51.12	2.73	3921.99
RW - 1	05/08/03	3970.79	48.46	51.21	2.75	3921.92
RW - 1	05/13/03	3970.79	48.49	51.32	2.83	3921.88
RW - 1	05/21/03	3970.79	48.57	51.36	2.79	3921.80
RW - 1	05/27/03	3970.79	48.44	51.27	2.83	3921.93
RW - 1	05/28/03	3970.79	48.54	51.45	2.91	3921.81
RW - 1	06/03/03	3970.79	48.52	51.48	2.96	3921.83
RW - 1	06/09/03	3970.79	48.46	51.40	2.94	3921.89
RW - 1	07/01/03	3970.79	48.51	51.40	2.89	3921.85
RW - 1	07/08/03	3970.79	48.53	49.37	0.84	3922.13
RW - 1	07/29/03	3970.79	48.43	51.24	2.81	3921.94
RW - 1	08/04/03	3970.79	48.71	51.60	2.89	3921.65
RW - 1	08/18/03	3970.79	48.69	49.08	0.39	3922.04

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 1	08/25/03	3970.79	48.69	51.65	2.96	3921.66
RW - 1	10/01/03	3970.79	48.60	49.12	0.52	3922.11
RW - 1	10/06/03	3970.79	48.97	49.04	0.07	3921.81
RW - 1	10/08/03	3970.79	49.14	50.18	1.04	3921.49
RW - 1	10/15/03	3970.79	49.15	49.75	0.60	3921.55
RW - 1	11/12/03	3970.79	48.12	51.02	2.90	3922.24
RW - 1	11/19/03	3970.79	58.42	51.34	-7.08	3913.43
RW - 1	12/01/03	3970.79	49.21	50.49	1.28	3921.39
RW - 1	12/10/03	3970.79	48.68	50.92	2.24	3921.77
RW - 1	02/05/04	3970.79	49.18	51.71	2.53	3921.23
RW - 1	02/17/04	3970.79	48.71	51.51	2.80	3921.66
RW - 1	02/25/04	3970.79	49.15	51.67	2.52	3921.26
RW - 1	03/09/04	3970.79	48.60	49.32	0.72	3922.08
RW - 1	03/16/04	3970.79	48.62	50.13	1.51	3921.94
RW - 1	03/22/04	3970.79	48.79	51.92	3.13	3921.53
RW - 1	04/07/04	3970.79	48.70	49.22	0.52	3922.01
RW - 1	04/12/04	3970.79	48.68	51.04	2.36	3921.76
RW - 1	04/19/04	3970.79	48.61	49.10	0.49	3922.11
RW - 1	05/05/04	3970.79	48.70	51.51	2.81	3921.67
RW - 1	05/11/04	3970.79	48.83	51.77	2.94	3921.52
RW - 1	06/07/04	3970.79	48.43	51.31	2.88	3921.93
RW - 1	11/26/04	3970.79	48.50	51.30	2.80	3921.87
RW - 1	12/02/04	3970.79	48.53	51.22	2.69	3921.86
RW - 1	12/06/04	3970.79	48.72	51.03	2.31	3921.72
RW - 1	12/13/04	3970.79	48.96	51.10	2.14	3921.51
RW - 1	12/15/04	3970.79	48.96	51.10	2.14	3921.51
RW - 1	12/27/04	3970.79	48.46	51.20	2.74	3921.92
RW - 1	01/10/05	3970.79	48.40	51.00	2.60	3922.00
RW - 1	01/18/05	3970.79	48.55	51.05	2.50	3921.87
RW - 1	01/18/05	3970.79	48.75	49.35	0.60	3921.95
RW - 1	01/25/05	3970.79	48.44	50.55	2.11	3922.03
RW - 1	01/27/05	3970.79	48.52	51.10	2.58	3921.88
RW - 1	02/01/05	3970.79	48.50	50.25	1.75	3922.03
RW - 1	02/07/05	3970.79	48.45	50.30	1.85	3922.06
RW - 1	02/11/05	3970.79	48.47	50.27	1.80	3922.05
RW - 1	02/15/05	3970.79	48.35	50.34	1.99	3922.14
RW - 1	02/22/05	3970.79	48.30	50.79	2.49	3922.12
RW - 1	02/24/05	3970.79	48.27	50.79	2.52	3922.14
RW - 1	03/03/05	3970.79	48.52	50.85	2.33	3921.92
RW - 1	03/09/05	3970.79	48.55	50.87	2.32	3921.89
RW - 1	03/22/05	3970.79	48.25	50.95	2.70	3922.14
RW - 1	03/24/05	3970.79	48.25	50.95	2.70	3922.14
RW - 1	03/31/05	3970.79	48.28	50.91	2.63	3922.12

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 1	06/22/05	3970.79	48.28	50.18	1.90	3922.23
RW - 1	07/21/05	3970.79	48.15	50.82	2.67	3922.24
RW - 1	08/03/05	3970.79	48.13	50.76	2.63	3922.27
RW - 1	08/12/05	3970.79	48.13	50.78	2.65	3922.26
RW - 1	08/15/05	3970.79	48.22	50.24	2.02	3922.27
RW - 1	08/22/05	3970.79	48.13	50.51	2.38	3922.30
RW - 1	08/30/05	3970.79	48.14	50.62	2.48	3922.28
RW - 1	09/07/05	3970.79	48.14	50.55	2.41	3922.29
RW - 1	09/14/05	3970.79	48.20	50.55	2.35	3922.24
RW - 1	09/20/05	3970.79	48.16	50.40	2.24	3922.29
RW - 1	09/21/05	3970.79	48.22	50.56	2.34	3922.22
RW - 1	09/28/05	3970.79	48.12	50.55	2.43	3922.31
RW - 1	10/06/05	3970.79	48.16	50.51	2.35	3922.28
RW - 1	10/13/05	3970.79	48.15	50.49	2.34	3922.29
RW - 1	10/20/05	3970.79	48.19	50.40	2.21	3922.27
RW - 1	10/26/05	3970.79	48.18	50.35	2.17	3922.28
RW - 1	11/03/05	3970.79	48.10	50.50	2.40	3922.33
RW - 1	11/10/05	3970.79	48.11	50.54	2.43	3922.32
RW - 1	11/16/05	3970.79	48.13	50.40	2.27	3922.32
RW - 1	11/23/05	3970.79	48.17	50.37	2.20	3922.29
RW - 1	11/28/05	3970.79	48.08	50.50	2.42	3922.35
RW - 1	12/05/05	3970.79	48.19	50.30	2.11	3922.28
RW - 1	12/12/05	3970.79	48.15	50.33	2.18	3922.31
RW - 1	12/16/05	3970.79	48.84	49.98	1.14	3921.78
RW - 1	12/19/05	3970.79	48.21	50.35	2.14	3922.26
RW - 1	12/29/05	3970.79	48.12	50.41	2.29	3922.33
RW - 1	01/04/06	3970.79	48.14	50.40	2.26	3922.31
RW - 1	01/10/06	3970.79	48.10	50.53	2.43	3922.33
RW - 1	01/17/06	3970.79	48.10	50.45	2.35	3922.34
RW - 1	01/26/06	3970.79	48.10	50.45	2.35	3922.34
RW - 1	01/31/06	3970.79	48.10	50.42	2.32	3922.34
RW - 1	02/07/06	3970.79	48.11	50.34	2.23	3922.35
RW - 1	02/09/06	3970.79	48.12	50.43	2.31	3922.32
RW - 1	02/13/06	3970.79	48.12	50.45	2.33	3922.32
RW - 1	02/22/06	3970.79	48.13	50.47	2.34	3922.31
RW - 1	02/28/06	3970.79	48.11	50.46	2.35	3922.33
RW - 1	03/07/06	3970.79	48.13	50.39	2.26	3922.32
RW - 1	03/15/06	3970.79	48.09	50.36	2.27	3922.36
RW - 1	03/20/06	3970.79	48.10	50.27	2.17	3922.36
RW - 1	03/22/06	3970.79	48.14	50.43	2.29	3922.31
RW - 1	03/29/06	3970.79	48.09	50.40	2.31	3922.35
RW - 1	04/11/06	3970.79	47.96	50.37	2.41	3922.47
RW - 1	04/18/06	3970.79	48.02	50.31	2.29	3922.43

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 1	04/25/06	3970.79	48.05	50.29	2.24	3922.40
RW - 1	05/02/06	3970.79	48.00	50.31	2.31	3922.44
RW - 1	05/09/06	3970.79	48.03	50.21	2.18	3922.43
RW - 1	05/16/06	3970.79	48.05	50.22	2.17	3922.41
RW - 1	05/23/06	3970.79	48.03	50.20	2.17	3922.43
RW - 1	05/31/06	3970.79	48.06	50.18	2.12	3922.41
RW - 1	06/06/06	3970.79	48.10	50.09	1.99	3922.39
RW - 1	06/13/06	3970.79	48.05	50.05	2.00	3922.44
RW - 1	06/20/06	3970.79	48.10	50.10	2.00	3922.39
RW - 1	06/21/06	3970.79	48.26	49.08	0.82	3922.41
RW - 1	07/06/06	3970.79	48.09	50.18	2.09	3922.39
RW - 1	07/12/06	3970.79	48.06	50.17	2.11	3922.41
RW - 1	07/20/06	3970.79	49.89	50.16	0.27	3920.86
RW - 1	07/25/06	3970.79	48.01	50.21	2.20	3922.45
RW - 1	08/01/06	3970.79	48.01	50.23	2.22	3922.45
RW - 1	08/16/06	3970.79	48.01	50.25	2.24	3922.44
RW - 1	08/23/06	3970.79	48.06	50.11	2.05	3922.42
RW - 1	08/28/06	3970.79	48.03	50.03	2.00	3922.46
RW - 1	09/12/06	3970.79	48.09	49.80	1.71	3922.44
RW - 1	09/22/06	3970.79	48.14	49.90	1.76	3922.39
RW - 1	09/27/06	3970.79	48.20	49.60	1.40	3922.38
RW - 1	10/06/06	3970.79	48.04	50.00	1.96	3922.46
RW - 1	10/10/06	3970.79	48.20	49.34	1.14	3922.42
RW - 1	10/16/06	3970.79	48.13	49.52	1.39	3922.45
RW - 1	10/26/06	3970.79	48.05	49.83	1.78	3922.47
RW - 1	11/03/06	3970.79	48.18	49.70	1.52	3922.38
RW - 1	11/09/06	3970.79	48.10	49.60	1.50	3922.47
RW - 1	11/16/06	3970.79	48.19	49.16	0.97	3922.45
RW - 1	11/22/06	3970.79	48.20	49.56	1.36	3922.39
RW - 1	12/04/06	3970.79	48.10	49.84	1.74	3922.43
RW - 1	12/08/06	3970.79	48.08	49.99	1.91	3922.42
RW - 1	12/15/06	3970.79	48.09	49.53	1.44	3922.48
RW - 1	01/05/07	3970.79	48.05	50.10	2.05	3922.43
RW - 1	01/12/07	3970.79	48.13	49.70	1.57	3922.42
RW - 1	01/18/07	3970.79	48.11	49.51	1.40	3922.47
RW - 1	01/24/07	3970.79	48.18	49.46	1.28	3922.42
RW - 1	01/29/07	3970.79	48.21	49.33	1.12	3922.41
RW - 1	02/09/07	3970.79	48.03	48.05	0.02	3922.76
RW - 1	02/16/07	3970.79	48.10	49.77	1.67	3922.44
RW - 1	03/02/07	3970.79	48.00	49.82	1.82	3922.52
RW - 1	03/14/07	3970.79	48.11	49.20	1.09	3922.52
RW - 1	03/26/07	3970.79	48.09	49.42	1.33	3922.50
RW - 1	04/03/07	3970.79	47.99	49.80	1.81	3922.53

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 1	04/09/07	3970.79	48.01	49.60	1.59	3922.54
RW - 1	04/26/07	3970.79	47.96	49.87	1.91	3922.54
RW - 1	04/30/07	3970.79	48.14	49.05	0.91	3922.51
RW - 1	05/11/07	3970.79	48.01	49.65	1.64	3922.53
RW - 1	05/16/07	3970.79	48.14	49.07	0.93	3922.51
RW - 1	05/22/07	3970.79	48.08	49.03	0.95	3922.57
RW - 1	05/29/07	3970.79	48.06	49.29	1.23	3922.55
RW - 1	06/01/07	3970.79	48.00	49.46	1.46	3922.57
RW - 1	06/08/07	3970.79	48.03	49.37	1.34	3922.56
RW - 1	06/11/07	3970.79	48.17	49.00	0.83	3922.50
RW - 1	06/20/07	3970.79	48.00	49.50	1.50	3922.57
RW - 1	07/10/07	3970.79	48.01	49.56	1.55	3922.55
RW - 1	07/20/07	3970.79	47.99	49.60	1.61	3922.56
RW - 1	07/25/07	3970.79	48.04	49.22	1.18	3922.57
RW - 1	08/01/07	3970.79	48.02	49.24	1.22	3922.59
RW - 1	08/10/07	3970.79	48.02	49.37	1.35	3922.57
RW - 1	08/15/07	3970.79	48.03	49.16	1.13	3922.59
RW - 1	08/30/07	3970.79	47.97	49.61	1.64	3922.57
RW - 1	08/31/07	3970.79	47.97	49.61	1.64	3922.57
RW - 1	09/19/07	3970.79	47.92	49.73	1.81	3922.60
RW - 1	09/27/07	3970.79	47.98	49.39	1.41	3922.60
RW - 1	10/01/07	3970.79	48.02	49.06	1.04	3922.61
RW - 1	10/19/07	3970.79	47.92	49.62	1.70	3922.62
RW - 1	10/26/07	3970.79	47.97	49.39	1.42	3922.61
RW - 1	11/12/07	3970.79	47.93	49.58	1.65	3922.61
RW - 1	11/16/07	3970.79	47.92	49.31	1.39	3922.66
RW - 1	11/29/07	3970.79	47.92	50.01	2.09	3922.56
RW - 1	12/13/07	3970.79	47.90	49.54	1.64	3922.64
RW - 1	01/10/08	3970.79	47.90	49.50	1.60	3922.65
RW - 1	01/17/08	3970.79	47.92	49.37	1.45	3922.65
RW - 1	01/22/08	3970.79	47.90	49.43	1.53	3922.66
RW - 1	02/06/08	3970.79	47.09	49.05	1.96	3923.41
RW - 1	2/12/08 #1	3970.79	48.01	48.91	0.90	3922.65
RW - 1	2/12/08 #2	3970.79	48.19	48.21	0.02	3922.60
RW - 1	2/27/08 #1	3970.79	48.00	48.98	0.98	3922.64
RW - 1	2/27/08 #2	3970.79	48.15	48.21	0.06	3922.63
RW - 1	03/07/08	3970.79	47.92	49.21	1.29	3922.68
RW - 1	3/12/08 #1	3970.79	47.92	49.21	1.29	3922.68
RW - 1	3/12/08 #2	3970.79	48.04	48.31	0.27	3922.71
RW - 1	3/20/2008#1	3970.79	48.23	48.50	0.27	3922.52
RW - 1	3/20/08#2	3970.79	48.10	48.45	0.35	3922.64
RW - 1	3/23/08 #1	3970.79	47.99	48.99	1.00	3922.65
RW - 1	3/23/08 #2	3970.79	48.17	48.21	0.04	3922.61

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 1	4/2/08 #1	3970.79	47.98	48.92	0.94	3922.67
RW - 1	4/2/08 #2	3970.79	48.09	48.42	0.33	3922.65
RW - 1	4/9/08 #1	3970.79	47.95	48.98	1.03	3922.69
RW - 1	4/9/08 #2	3970.79	48.12	48.15	0.03	3922.67
RW - 1	04/16/08	3970.79	47.98	48.87	0.89	3922.68
RW - 1	04/23/08	3970.79	47.98	48.91	0.93	3922.67
RW - 1	04/30/08	3970.79	47.92	49.07	1.15	3922.70
RW - 1	05/29/08	3970.79	47.97	48.85	0.88	3922.69
RW - 1	06/02/08	3970.79	47.99	48.70	0.71	3922.69
RW - 1	06/03/08	3970.79	47.99	48.70	0.71	3922.69
RW - 1	06/11/08	3970.79	47.91	48.99	1.08	3922.72
RW - 1	06/18/08	3970.79	47.96	48.84	0.88	3922.70
RW - 1	06/23/08	3970.79	47.99	48.70	0.71	3922.69
RW - 1	07/01/08	3970.79	47.94	49.02	1.08	3922.69
RW - 1	07/09/08	3970.79	47.95	48.91	0.96	3922.70
RW - 1	07/15/08	3970.79	47.98	48.76	0.78	3922.69
RW - 1	07/22/08	3970.79	47.94	49.00	1.06	3922.69
RW - 1	08/02/08	3970.79	47.92	48.96	1.04	3922.71
RW - 1	08/13/08	3970.79	47.90	49.03	1.13	3922.72
RW - 1	09/03/08	3970.79	47.83	49.22	1.39	3922.75
RW - 1	09/11/08	3970.79	47.94	48.86	0.92	3922.71
RW - 1	09/19/08	3970.79	47.91	48.85	0.94	3922.74
RW - 1	09/26/08	3970.79	47.89	49.00	1.11	3922.73
RW - 1	10/10/08	3970.79	47.91	48.84	0.93	3922.74
RW - 1	10/17/08	3970.79	47.74	47.93	0.19	3923.02
RW - 1	10/21/08	3970.79	47.95	48.52	0.57	3922.75
RW - 1	10/30/08	3970.79	47.89	48.95	1.06	3922.74
RW - 1	11/04/08	3970.79	48.00	48.61	0.61	3922.70
RW - 1	11/18/08	3970.79	47.91	49.03	1.12	3922.71
RW - 1	11/25/08	3970.79	47.90	49.12	1.22	3922.71
RW - 1	11/25/08	3970.79	48.70	48.72	0.02	3922.09
RW - 1	12/10/08	3970.79	47.87	49.05	1.18	3922.74
RW - 1	12/18/08	3970.79	47.84	49.10	1.26	3922.76
RW - 1	01/06/09	3970.79	47.84	49.07	1.23	3922.77
RW - 1	01/14/09	3970.79	47.09	48.75	1.66	3923.45
RW - 1	01/21/09	3970.79	47.91	48.84	0.93	3922.74
RW - 1	01/22/09	3970.79	48.00	48.21	0.21	3922.76
RW - 1	01/30/09	3970.79	47.91	48.74	0.83	3922.76
RW - 1	02/03/09	3970.79	47.99	48.57	0.58	3922.71
RW - 1	02/12/09	3970.79	47.89	48.91	1.02	3922.75
RW - 1	02/19/09	3970.79	47.85	49.00	1.15	3922.77
RW - 1	03/04/09	3970.79	47.92	48.97	1.05	3922.71
RW - 1	03/06/09	3970.79	47.82	49.00	1.18	3922.79

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 1	03/11/09	3970.79	47.94	48.60	0.66	3922.75
RW - 1	03/16/09	3970.79	47.95	49.00	1.05	3922.68
RW - 1	03/19/09	3970.79	47.90	48.72	0.82	3922.77
RW - 1	03/24/09	3970.79	47.89	48.49	0.60	3922.81
RW - 1	04/03/09	3970.79	47.85	48.90	1.05	3922.78
RW - 1	04/15/09	3970.79	47.86	48.80	0.94	3922.79
RW - 1	04/17/09	3970.79	47.98	48.25	0.27	3922.77
RW - 1	04/22/09	3970.79	47.83	48.88	1.05	3922.80
RW - 1	04/29/09	3970.79	47.84	48.79	0.95	3922.81
RW - 1	05/20/09	3970.79	47.82	48.88	1.06	3922.81
RW - 1	06/09/09	3970.79	47.82	48.95	1.13	3922.80
RW - 1	06/17/09	3970.79	47.88	48.81	0.93	3922.77
RW - 1	06/23/09	3970.79	47.83	48.87	1.04	3922.80
RW - 1	07/01/09	3970.79	47.82	48.88	1.06	3922.81
RW - 1	07/08/09	3970.79	47.89	48.61	0.72	3922.79
RW - 1	07/15/09	3970.79	47.86	48.64	0.78	3922.81
RW - 1	07/17/09	3970.79	47.91	48.60	0.69	3922.78
RW - 1	07/23/09	3970.79	47.83	48.88	1.05	3922.80
RW - 1	07/24/09	3970.79	47.96	48.17	0.21	3922.80
RW - 1	07/30/09	3970.79	47.91	48.60	0.69	3922.78
RW - 1	08/04/09	3970.79	47.91	48.48	0.57	3922.79
RW - 1	08/12/09	3970.79	47.88	48.73	0.85	3922.78
RW - 1	08/20/09	3970.79	47.92	48.75	0.83	3922.75
RW - 1	08/26/09	3970.79	47.83	48.80	0.97	3922.81
RW - 1	09/02/09	3970.79	47.87	48.75	0.88	3922.79
RW - 1	09/09/09	3970.79	47.90	48.61	0.71	3922.78
RW - 1	09/14/09	3970.79	47.92	48.45	0.53	3922.79
RW - 1	09/21/09	3970.79	47.86	48.71	0.85	3922.80
RW - 1	10/01/09	3970.79	47.88	48.84	0.96	3922.77
RW - 1	10/08/09	3970.79	47.90	48.76	0.86	3922.76
RW - 1	10/14/09	3970.79	47.87	48.70	0.83	3922.80
RW - 1	10/21/09	3970.79	47.82	48.59	0.77	3922.85
RW - 1	10/28/09	3970.79	47.85	48.69	0.84	3922.81
RW - 1	11/04/09	3970.79	47.90	48.63	0.73	3922.78
RW - 1	11/11/09	3970.79	47.87	48.60	0.73	3922.81
RW - 1	11/18/09	3970.79	47.88	48.61	0.73	3922.80
RW - 1	11/25/09	3970.79	47.90	48.58	0.68	3922.79
RW - 1	12/02/09	3970.79	47.86	48.80	0.94	3922.79
RW - 1	12/10/09	3970.79	47.87	48.61	0.74	3922.81
RW - 1	12/17/09	3970.79	47.94	48.59	0.65	3922.75
RW - 1	12/21/09	3970.79	47.87	48.52	0.65	3922.82
RW - 1	12/30/09	3970.79	48.02	48.49	0.47	3922.70
RW - 1	01/07/10	3970.79	47.95	48.20	0.25	3922.80

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 1	01/18/10	3970.79	47.91	48.28	0.37	3922.82
RW - 1	02/02/10	3970.79	47.88	48.55	0.67	3922.81
RW - 1	02/11/10	3970.79	47.84	48.51	0.67	3922.85
RW - 1	02/18/10	3970.79	47.82	48.60	0.78	3922.85
RW - 1	02/25/10	3970.79	47.99	48.34	0.35	3922.75
RW - 1	03/02/10	3970.79	48.05	48.28	0.23	3922.71
RW - 1	03/04/10	3970.79	47.97	48.10	0.13	3922.80
RW - 1	03/10/10	3970.79	47.93	48.26	0.33	3922.81
RW - 1	03/12/10	3970.79	47.98	48.37	0.39	3922.75
RW - 1	03/15/10	3970.79	48.00	48.10	0.10	3922.78
RW - 1	03/18/10	3970.79	47.88	48.42	0.54	3922.83
RW - 1	03/22/10	3970.79	48.00	48.23	0.23	3922.76
RW - 1	05/17/10	3970.79	50.39	50.48	0.09	3920.39
RW - 1	05/20/10	3970.79	50.08	50.39	0.31	3920.66
RW - 1	03/04/11	3970.79	50.30	50.62	0.32	3920.44
RW - 1	05/12/11	3970.79	48.55	49.30	0.75	3922.13
RW - 1	08/02/11	3970.79	51.80	52.10	0.30	3918.95
RW - 1	08/09/11	3970.79	49.80	50.42	0.62	3920.90
RW - 1	08/12/11	3970.79	-	49.20	0.00	3921.59
RW - 1	08/15/11	3970.79	-	49.20	0.00	3921.59
RW - 1	08/23/11	3970.79	51.60	52.30	0.70	3919.09
RW - 1	08/26/11	3970.79	48.11	48.90	0.79	3922.56
RW - 1	11/22/11	3970.79	49.10	50.04	0.94	3921.55
RW - 1	12/02/11	3970.79	47.82	48.80	0.98	3922.82
RW - 1	12/29/11	3970.79	47.93	48.66	0.73	3922.75
RW - 1	01/26/12	3970.79	48.75	50.46	1.71	3921.78
RW - 1	02/28/12	3970.79	49.24	51.24	2.00	3921.25
RW - 1	05/17/12	3970.79	47.82	49.02	1.20	3922.79
RW - 1	08/01/12	3970.79	47.94	49.13	1.19	3922.67
RW - 1	10/25/12	3970.79	47.96	49.39	1.43	3922.62
RW - 1	11/29/12	3970.79	47.97	49.62	1.65	3922.57
RW - 1	02/11/13	3970.79	47.86	49.79	1.93	3922.64
RW - 1	04/11/13	3970.79	-	48.41	0.00	3922.38
RW - 1	05/06/13	3970.79	47.98	49.25	1.27	3922.62
RW - 1	05/29/13	3970.79	-	48.33	0.00	3922.46
RW - 1	06/26/13	3970.79	-	49.73	0.00	3921.06
RW - 1	07/31/13	3970.79	48.13	49.15	1.02	3922.51
RW - 1	08/06/13	3970.79	48.30	48.37	0.07	3922.48
RW - 1	09/30/13	3970.79	48.21	48.96	0.75	3922.47
RW - 1	11/18/13	3970.79	48.23	48.76	0.53	3922.48
RW - 1	02/04/14	3970.79	48.29	48.54	0.25	3922.46
RW - 1	05/28/14	3970.79	48.18	49.66	1.48	3922.39
RW - 1	07/30/14	3970.79	48.36	48.44	0.08	3922.42



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 1	08/23/14	3970.79	-	49.66	0.00	3921.13
RW - 1	09/10/14	3970.79	48.50	48.80	0.30	3922.25
RW - 1	09/23/14	3970.79	48.59	48.79	0.20	3922.17
RW - 1	10/31/14	3970.79	48.32	48.60	0.28	3922.43
RW - 1	11/18/14	3970.79	48.42	48.60	0.18	3922.34
RW - 1	01/05/15	3970.79	52.80	53.17	0.37	3917.93
RW - 1	01/09/15	3970.79	48.29	48.98	0.69	3922.40
RW - 1	01/14/15	3970.79	48.31	49.15	0.84	3922.35
RW - 1	01/21/15	3970.79	52.84	53.18	0.34	3917.90
RW - 1	02/11/15	3970.79	52.83	53.18	0.35	3917.91
RW - 1	02/19/15	3970.79	49.00	50.10	1.10	3921.63
RW - 1	03/09/15	3970.79	52.86	53.20	0.34	3917.88
RW - 1	03/11/15	3970.79	53.13	53.48	0.35	3917.61
RW - 1	03/31/15	3970.79	52.86	53.20	0.34	3917.88
RW - 1	04/09/15	3970.79	48.34	48.40	0.06	3922.44
RW - 1	04/15/15	3970.79	48.31	48.45	0.14	3922.46
RW - 1	04/22/15	3970.79	48.33	48.64	0.31	3922.41
RW - 1	05/12/15	3970.79	48.29	48.87	0.58	3922.41
RW - 1	05/26/15	3970.79	52.81	53.15	0.34	3917.93
RW - 1	06/01/15	3970.79	48.28	48.81	0.53	3922.43
RW - 1	06/04/15	3970.79	48.28	48.66	0.38	3922.45
RW - 1	07/27/15	3970.79	48.45	49.07	0.62	3922.25
RW - 1	08/18/15	3970.79	48.14	49.39	1.25	3922.46
RW - 1	10/08/15	3970.79	48.48	49.13	0.65	3922.21
RW - 1	10/21/15	3970.79	48.35	48.39	0.04	3922.43
RW - 1	11/23/15	3970.79	48.38	49.57	1.19	3922.23
RW - 1	01/12/16	3970.79	48.46	50.10	1.64	3922.08
RW - 1	02/11/16	3970.79	48.13	50.00	1.87	3922.38
RW - 1	02/24/16	3970.79	48.12	49.96	1.84	3922.39
RW - 1	06/13/16	3970.79	48.90	50.95	2.05	3921.58
RW - 1	08/02/16	3970.79	48.20	50.17	1.97	3922.29
RW - 1	11/28/16	3970.79	48.27	49.78	1.51	3922.29
RW - 1	02/21/17	3970.79	48.19	50.16	1.97	3922.30
RW - 1	05/24/17	3970.79	48.18	50.29	2.11	3922.29
RW - 1	07/12/17	3970.79	48.89	49.91	1.02	3921.75
RW - 1	08/11/17	3970.79	48.83	49.81	0.98	3921.81
RW - 1	10/18/17	3970.79	49.55	52.18	2.63	3920.85
RW - 1	11/28/17	3970.79	48.29	50.28	1.99	3922.20
RW - 1	12/19/17	3970.79	48.30	49.92	1.62	3922.25
RW - 1	01/16/18	3970.79	48.30	50.21	1.91	3922.20
RW - 1	02/26/18	3970.79	48.40	49.40	1.00	3922.24
RW - 1	04/03/18	3970.79	48.42	49.36	0.94	3922.23
RW - 1	04/17/18	3970.79	48.23	50.00	1.77	3922.29

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 1	05/07/18	3970.79	48.41	49.56	1.15	3922.21
RW - 1	06/26/18	3970.79	48.31	50.16	1.85	3922.20
RW - 1	07/12/18	3970.79	48.61	50.52	1.91	3921.89
RW - 1	08/01/18	3970.79	48.29	49.89	1.60	3922.26
RW - 1	08/09/18	3970.79	48.34	49.49	1.15	3922.28
RW - 1	08/23/18	3970.79	48.30	50.23	1.93	3922.20
RW - 1	08/30/18	3970.79	48.41	50.04	1.63	3922.14
RW - 1	08/31/18	3970.79	48.54	49.82	1.28	3922.06
RW - 1	09/11/18	3970.79	48.51	49.33	0.82	3922.16
RW - 1	09/13/18	3970.79	48.52	49.51	0.99	3922.12
RW - 1	09/19/18	3970.79	48.54	49.29	0.75	3922.14
RW - 1	09/26/18	3970.79	48.51	49.53	1.02	3922.13
RW - 1	10/04/18	3970.79	48.47	49.50	1.03	3922.17
RW - 1	11/14/18	3970.79	48.44	48.73	0.29	3922.31
RW - 1	12/18/18	3970.79	48.99	50.92	1.93	3921.51
RW - 1	02/18/19	3970.79	48.59	50.57	1.98	3921.90
RW - 1	05/14/19	3970.79	48.27	49.66	1.39	3922.31
RW - 1	08/19/19	3970.79	49.63	50.51	0.88	3921.03
RW - 1	11/11/19	3970.79	49.65	50.54	0.89	3921.01
RW - 1	01/08/20	3970.79	48.45	50.49	2.04	3922.03
RW - 1	02/18/20	3970.79	48.49	50.49	2.00	3922.00
RW - 1	05/05/20	3970.79	48.42	50.49	2.07	3922.06
RW - 1	06/11/20	3970.79	48.50	50.99	2.49	3921.92
RW - 1	09/23/20	3970.79	48.53	51.31	2.78	3921.84
RW - 1	12/04/20	3970.79	48.59	51.05	2.46	3921.83
RW - 1	03/23/21	3970.79	48.48	51.50	3.02	3921.86
RW - 1	06/04/21	3970.79	48.46	51.76	3.30	3921.84
RW - 1	09/30/21	3970.79	48.57	51.95	3.38	3921.71
RW - 1	12/09/21	3970.79	48.92	50.28	1.36	3921.67
RW - 1	02/17/22	3970.79	48.60	52.01	3.41	3921.68
RW - 1	05/18/22	3970.79	48.60	52.27	3.67	3921.64
RW - 1	08/09/22	3970.79	48.65	52.60	3.95	3921.55
RW - 1	11/14/22	3970.79	48.88	51.90	3.02	3921.46
RW - 1	02/14/23	3970.79	48.75	52.50	3.75	3921.48
RW - 1	05/16/23	3970.79	49.21	50.62	1.41	3921.37
RW - 1	08/08/23	3970.79	49.03	51.75	2.72	3921.35
RW - 1	12/07/23	3970.79	48.98	52.60	3.62	3921.27
RW - 2	05/20/10	-	-	54.42	0.00	-
RW - 2	03/04/11	-	sheen	54.05	0.00	-
RW - 2	05/12/11	-	-	52.69	0.00	-
RW - 2	08/02/11	-	sheen	55.00	0.00	-
RW - 2	08/09/11	-	sheen	55.50	0.00	-

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 2	08/12/11	-	sheen	54.07	0.00	-
RW - 2	08/15/11	-	sheen	54.01	0.00	-
RW - 2	08/23/11	-	sheen	53.92	0.00	-
RW - 2	08/26/11	-	sheen	52.75	0.00	-
RW - 2	12/02/11	-	52.60	52.93	0.33	-
RW - 2	12/29/11	-	52.62	52.96	0.34	-
RW - 2	01/26/12	-	52.89	53.13	0.24	-
RW - 2	02/28/12	-	52.55	53.18	0.63	-
RW - 2	05/17/12	-	52.47	53.31	0.84	-
RW - 2	08/01/12	-	52.59	53.42	0.83	-
RW - 2	10/25/12	-	52.65	53.53	0.88	-
RW - 2	11/29/12	-	52.73	53.56	0.83	-
RW - 2	02/11/13	-	52.76	52.86	0.10	-
RW - 2	04/11/13	-	53.05	53.07	0.02	-
RW - 2	05/06/13	-	52.77	52.89	0.12	-
RW - 2	05/29/13	-	53.00	53.09	0.09	-
RW - 2	06/26/13	-	53.04	53.29	0.25	-
RW - 2	07/31/13	-	52.89	53.09	0.20	-
RW - 2	08/06/13	-	52.89	53.03	0.14	-
RW - 2	09/30/13	-	52.95	53.14	0.19	-
RW - 2	11/18/13	-	52.90	53.18	0.28	-
RW - 2	02/04/14	-	52.86	53.19	0.33	-
RW - 2	04/28/14	-	52.83	53.41	0.58	-
RW - 2	05/28/14	-	52.96	53.35	0.39	-
RW - 2	07/30/14	-	53.10	53.28	0.18	-
RW - 2	08/23/14	-	53.35	53.47	0.12	-
RW - 2	09/10/14	-	53.07	53.40	0.33	-
RW - 2	09/23/14	-	53.00	53.30	0.30	-
RW - 2	10/31/14	-	52.99	53.24	0.25	-
RW - 2	11/18/14	-	52.90	53.27	0.37	-
RW - 2	01/05/15	-	52.73	53.48	0.75	-
RW - 2	01/09/15	-	52.98	53.15	0.17	-
RW - 2	01/14/15	-	53.00	53.17	0.17	-
RW - 2	01/21/15	-	52.76	53.47	0.71	-
RW - 2	02/11/15	-	52.74	53.46	0.72	-
RW - 2	02/19/15	-	53.28	53.32	0.04	-
RW - 2	03/09/15	-	52.73	53.46	0.73	-
RW - 2	03/11/15	-	52.96	53.14	0.18	-
RW - 2	03/31/15	-	52.77	53.49	0.72	-
RW - 2	04/09/15	-	52.93	53.12	0.19	-
RW - 2	04/15/15	-	52.93	53.23	0.30	-
RW - 2	04/22/15	-	52.92	53.22	0.30	-
RW - 2	05/12/15	-	52.98	53.15	0.17	-

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 2	05/26/15	-	52.74	53.45	0.71	-
RW - 2	06/01/15	-	52.96	53.08	0.12	-
RW - 2	06/04/15	-	52.96	53.13	0.17	-
RW - 2	07/27/15	-	53.14	53.19	0.05	-
RW - 2	08/18/15	-	52.95	53.11	0.16	-
RW - 2	10/08/15	-	53.17	53.65	0.48	-
RW - 2	10/21/15	-	53.02	53.45	0.43	-
RW - 2	11/23/15	-	52.45	53.60	1.15	-
RW - 2	01/12/16	-	53.09	53.42	0.33	-
RW - 2	02/11/16	-	52.99	53.52	0.53	-
RW - 2	02/24/16	-	51.90	53.58	1.68	-
RW - 2	06/13/16	-	52.99	53.29	0.30	-
RW - 2	08/02/16	-	53.09	53.56	0.47	-
RW - 2	11/28/16	-	53.03	53.38	0.35	-
RW - 2	02/21/17	-	53.01	53.30	0.29	-
RW - 2	05/24/17	-	53.02	53.37	0.35	-
RW - 2	07/12/17	-	53.02	53.37	0.35	-
RW - 2	10/18/17	-	53.14	53.71	0.57	-
RW - 2	11/28/17	-	53.10	53.64	0.54	-
RW - 2	12/19/17	-	53.10	53.65	0.55	-
RW - 2	01/16/18	-	53.12	53.53	0.41	-
RW - 2	02/26/18	-	53.22	53.54	0.32	-
RW - 2	04/03/18	-	53.24	53.57	0.33	-
RW - 2	04/17/18	-	53.08	53.47	0.39	-
RW - 2	05/07/18	-	53.18	53.54	0.36	-
RW - 2	06/26/18	-	53.11	53.53	0.42	-
RW - 2	07/12/18	-	53.16	53.59	0.43	-
RW - 2	08/01/18	-	53.23	53.70	0.47	-
RW - 2	08/09/18	-	52.17	53.64	1.47	-
RW - 2	08/23/18	-	53.18	53.69	0.51	-
RW - 2	08/30/18	-	53.21	53.78	0.57	-
RW - 2	08/31/18	-	53.21	53.67	0.46	-
RW - 2	08/31/18	-	53.61	54.84	1.23	-
RW - 2	09/11/18	-	53.27	53.39	0.12	-
RW - 2	09/13/18	-	53.29	53.35	0.06	-
RW - 2	09/19/18	-	53.27	53.35	0.08	-
RW - 2	09/26/18	-	53.26	53.36	0.10	-
RW - 2	10/04/18	-	53.28	53.33	0.05	-
RW - 2	11/14/18	-	53.29	53.32	0.03	-
RW - 2	12/18/18	-	53.27	53.37	0.10	-
RW - 2	02/18/19	-	53.27	53.38	0.11	-
RW - 2	05/14/19	-	53.25	53.40	0.15	-
RW - 2	08/19/19	-	53.34	53.43	0.09	-

TABLE 7

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 2	11/11/19	-	53.34	53.48	0.14	-
RW - 2	01/08/20	-	53.38	53.62	0.24	-
RW - 2	02/18/20	-	53.42	53.63	0.21	-
RW - 2	05/05/20	-	53.37	53.71	0.34	-
RW - 2	06/11/20	-	53.41	53.80	0.39	-
RW - 2	09/23/20	-	53.55	53.61	0.06	-
RW - 2	12/04/20	-	53.57	53.58	0.01	-
RW - 2	03/23/21	-	53.57	53.80	0.23	-
RW - 2	06/04/21	-	53.48	54.27	0.79	-
RW - 2	09/30/21	-	53.53	54.89	1.36	-
RW - 2	12/09/21	-	53.68	54.14	0.46	-
RW - 2	02/17/22	-	53.63	54.39	0.76	-
RW - 2	05/18/22	-	53.56	54.97	1.41	-
RW - 2	08/09/22	-	53.57	55.49	1.92	-
RW - 2	11/14/22	-	53.70	55.53	1.83	-
RW - 2	02/14/23	-	53.64	55.91	2.27	-
RW - 2	05/16/23	-	53.60	56.10	2.50	-
RW - 2	08/08/23	-	53.65	56.34	2.69	-
RW - 2	12/07/23	-	53.67	56.59	2.92	-
RW - 3	05/20/10	-	54.73	58.80	4.07	-
RW - 3	03/04/11	-	54.66	55.70	1.04	-
RW - 3	05/12/11	-	53.84	54.65	0.81	-
RW - 3	08/02/11	-	54.35	55.32	0.97	-
RW - 3	08/09/11	-	54.24	55.50	1.26	-
RW - 3	08/12/11	-	54.26	55.65	1.39	-
RW - 3	08/15/11	-	54.24	55.50	1.26	-
RW - 3	08/23/11	-	53.92	54.85	0.93	-
RW - 3	08/26/11	-	53.07	53.95	0.88	-
RW - 3	12/02/11	-	53.01	53.97	0.96	-
RW - 3	12/29/11	-	53.11	53.84	0.73	-
RW - 3	01/26/12	-	53.55	54.08	0.53	-
RW - 3	02/28/12	-	53.00	54.14	1.14	-
RW - 3	05/17/12	-	53.10	53.62	0.52	-
RW - 3	08/01/12	-	53.22	53.74	0.52	-
RW - 3	10/25/12	-	53.13	54.32	1.19	-
RW - 3	11/29/12	-	53.26	53.87	0.61	-
RW - 3	02/11/13	-	53.16	54.00	0.84	-
RW - 3	04/11/13	-	53.44	54.19	0.75	-
RW - 3	05/06/13	-	53.18	54.10	0.92	-
RW - 3	05/29/13	-	53.35	54.16	0.81	-
RW - 3	06/26/13	-	53.38	54.26	0.88	-
RW - 3	07/31/13	-	53.20	54.55	1.35	-

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 3	08/06/13	-	53.19	54.66	1.47	-
RW - 3	09/30/13	-	53.27	54.71	1.44	-
RW - 3	11/18/13	-	52.22	53.72	1.50	-
RW - 3	02/04/14	-	53.24	54.21	0.97	-
RW - 3	04/28/14	-	53.12	55.14	2.02	-
RW - 3	05/28/14	-	53.19	55.55	2.36	-
RW - 3	07/30/14	-	52.58	53.03	0.45	-
RW - 3	08/23/14	-	52.98	53.71	0.73	-
RW - 3	09/10/14	-	53.62	53.78	0.16	-
RW - 3	09/23/14	-	53.58	53.98	0.40	-
RW - 3	10/31/14	-	53.53	53.67	0.14	-
RW - 3	11/18/14	-	53.55	53.73	0.18	-
RW - 3	01/05/15	-	52.77	53.54	0.77	-
RW - 3	01/09/15	-	53.48	53.86	0.38	-
RW - 3	01/14/15	-	53.48	53.86	0.38	-
RW - 3	01/21/15	-	52.78	53.56	0.78	-
RW - 3	02/11/15	-	52.77	53.54	0.77	-
RW - 3	02/19/15	-	53.47	53.98	0.51	-
RW - 3	03/09/15	-	52.75	53.55	0.80	-
RW - 3	03/11/15	-	53.42	54.14	0.72	-
RW - 3	03/31/15	-	52.78	53.57	0.79	-
RW - 3	04/09/15	-	53.36	54.20	0.84	-
RW - 3	04/15/15	-	53.34	54.30	0.96	-
RW - 3	04/22/15	-	53.33	54.34	1.01	-
RW - 3	05/12/15	-	53.39	54.10	0.71	-
RW - 3	05/26/15	-	52.84	53.52	0.68	-
RW - 3	06/01/15	-	53.42	54.02	0.60	-
RW - 3	06/04/15	-	53.40	54.04	0.64	-
RW - 3	07/27/15	-	53.48	54.45	0.97	-
RW - 3	08/18/15	-	53.09	54.45	1.36	-
RW - 3	10/08/15	-	53.38	54.99	1.61	-
RW - 3	10/21/15	-	53.28	55.05	1.77	-
RW - 3	11/23/15	-	52.55	52.57	0.02	-
RW - 3	01/12/16	-	53.35	55.10	1.75	-
RW - 3	02/11/16	-	53.48	54.18	0.70	-
RW - 3	02/24/16	-	53.48	54.05	0.57	-
RW - 3	06/13/16	-	53.43	54.46	1.03	-
RW - 3	08/02/16	-	53.49	54.46	0.97	-
RW - 3	11/28/16	-	53.44	54.37	0.93	-
RW - 3	02/21/17	-	53.39	54.63	1.24	-
RW - 3	05/24/17	-	53.34	54.88	1.54	-
RW - 3	07/12/17	-	53.37	54.90	1.53	-
RW - 3	08/11/17	-	53.57	54.85	1.28	-

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 3	10/18/17	-	53.52	55.25	1.73	-
RW - 3	11/28/17	-	53.43	55.04	1.61	-
RW - 3	12/19/17	-	53.44	55.07	1.63	-
RW - 3	01/16/18	-	53.46	55.02	1.56	-
RW - 3	02/26/18	-	53.52	54.40	0.88	-
RW - 3	04/03/18	-	53.42	55.16	1.74	-
RW - 3	04/17/18	-	53.43	54.97	1.54	-
RW - 3	05/07/18	-	53.52	54.15	0.63	-
RW - 3	06/26/18	-	53.52	54.83	1.31	-
RW - 3	07/12/18	-	53.51	55.10	1.59	-
RW - 3	08/01/18	-	53.51	55.25	1.74	-
RW - 3	08/09/18	-	53.62	54.59	0.97	-
RW - 3	08/23/18	-	53.64	54.74	1.10	-
RW - 3	08/30/18	-	53.62	54.80	1.18	-
RW - 3	09/11/18	-	53.76	54.11	0.35	-
RW - 3	09/13/18	-	53.75	54.09	0.34	-
RW - 3	09/19/18	-	53.78	54.05	0.27	-
RW - 3	09/26/18	-	53.77	54.10	0.33	-
RW - 3	10/04/18	-	53.76	54.12	0.36	-
RW - 3	11/14/18	-	53.72	53.88	0.16	-
RW - 3	12/18/18	-	53.66	54.65	0.99	-
RW - 3	02/18/19	-	53.49	55.01	1.52	-
RW - 3	05/14/19	-	53.46	55.46	2.00	-
RW - 3	08/19/19	-	53.67	55.63	1.96	-
RW - 3	11/11/19	-	53.72	55.64	1.92	-
RW - 3	01/08/20	-	53.55	55.95	2.40	-
RW - 3	02/18/20	-	53.63	55.94	2.31	-
RW - 3	05/05/20	-	53.59	55.91	2.32	-
RW - 3	06/11/20	-	53.57	56.12	2.55	-
RW - 3	09/23/20	-	53.60	56.63	3.03	-
RW - 3	12/04/20	-	53.61	56.62	3.01	-
RW - 3	03/23/21	-	53.70	56.36	2.66	-
RW - 3	06/04/21	-	53.60	56.89	3.29	-
RW - 3	08/12/21	-	53.65	57.00	3.35	-
RW - 3	09/30/21	-	53.76	56.98	3.22	-
RW - 3	12/09/21	-	54.10	55.23	1.13	-
RW - 3	02/17/22	-	53.85	56.71	2.86	-
RW - 3	05/18/22	-	53.75	57.17	3.42	-
RW - 3	06/30/22	-	53.87	57.09	3.22	-
RW - 3	07/20/22	-	54.00	56.59	2.59	-
RW - 3	07/26/22	-	54.20	55.64	1.44	-
RW - 3	08/09/22	-	54.13	55.87	1.74	-
RW - 3	09/27/22	-	53.98	57.09	3.11	-

TABLE 7

HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 3	10/06/22	-	54.14	56.27	2.13	-
RW - 3	11/14/22	-	54.15	56.36	2.21	-
RW - 3	01/12/23	-	54.00	57.18	3.18	-
RW - 3	02/14/23	-	54.13	56.57	2.44	-
RW - 3	03/02/23	-	54.15	56.90	2.75	-
RW - 3	03/28/23	-	54.26	55.91	1.65	-
RW - 3	04/11/23	-	54.29	55.69	1.40	-
RW - 3	05/16/23	-	54.19	56.32	2.13	-
RW - 3	08/08/23	-	54.16	56.85	2.69	-
RW - 3	12/07/23	-	54.21	57.02	2.81	-
RW - 4	05/20/10	-	55.62	59.23	3.61	-
RW - 4	03/04/11	-	53.13	55.08	1.95	-
RW - 4	05/12/11	-	53.58	55.35	1.77	-
RW - 4	08/02/11	-	55.71	58.75	3.04	-
RW - 4	08/09/11	-	55.02	58.91	3.89	-
RW - 4	08/12/11	-	54.40	58.55	4.15	-
RW - 4	08/15/11	-	55.02	58.91	3.89	-
RW - 4	08/23/11	-	54.42	57.62	3.20	-
RW - 4	08/26/11	-	52.93	55.20	2.27	-
RW - 4	12/02/11	-	52.69	55.52	2.83	-
RW - 4	12/29/11	-	52.83	55.21	2.38	-
RW - 4	01/26/12	-	52.99	55.36	2.37	-
RW - 4	02/28/12	-	52.94	55.00	2.06	-
RW - 4	05/17/12	-	52.85	54.81	1.96	-
RW - 4	08/01/12	-	52.97	54.92	1.95	-
RW - 4	10/25/12	-	53.03	54.91	1.88	-
RW - 4	11/29/12	-	53.07	55.00	1.93	-
RW - 4	02/11/13	-	52.99	54.92	1.93	-
RW - 4	04/11/13	-	53.22	55.13	1.91	-
RW - 4	05/06/13	-	53.07	54.76	1.69	-
RW - 4	05/29/13	-	53.19	55.05	1.86	-
RW - 4	06/26/13	-	52.83	56.36	3.53	-
RW - 4	07/31/13	-	52.47	57.93	5.46	-
RW - 4	08/06/13	-	52.40	58.42	6.02	-
RW - 4	09/30/13	-	52.72	57.32	4.60	-
RW - 4	11/18/13	-	53.15	55.15	2.00	-
RW - 4	02/04/14	-	53.14	55.11	1.97	-
RW - 4	04/28/14	-	53.10	55.57	2.47	-
RW - 4	05/28/14	-	53.08	56.15	3.07	-
RW - 4	07/30/14	-	53.66	54.20	0.54	-
RW - 4	08/23/14	-	-	53.94	0.00	-
RW - 4	09/10/14	-	53.54	54.40	0.86	-



TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 4	09/23/14	-	53.46	54.80	1.34	-
RW - 4	10/31/14	-	53.50	53.85	0.35	-
RW - 4	11/18/14	-	53.49	54.19	0.70	-
RW - 4	01/05/15	-	52.71	53.74	1.03	-
RW - 4	01/09/15	-	53.42	54.37	0.95	-
RW - 4	01/14/15	-	53.42	54.45	1.03	-
RW - 4	01/21/15	-	-	53.67	0.00	-
RW - 4	02/11/15	-	52.72	53.70	0.98	-
RW - 4	02/19/15	-	53.55	54.10	0.55	-
RW - 4	03/09/15	-	-	53.67	0.00	-
RW - 4	03/11/15	-	53.45	54.14	0.69	-
RW - 4	03/31/15	-	52.69	53.68	0.99	-
RW - 4	04/09/15	-	53.33	54.62	1.29	-
RW - 4	04/15/15	-	53.30	54.69	1.39	-
RW - 4	04/22/15	-	53.30	54.73	1.43	-
RW - 4	05/12/15	-	53.33	54.68	1.35	-
RW - 4	05/26/15	-	52.79	53.64	0.85	-
RW - 4	06/01/15	-	53.35	54.63	1.28	-
RW - 4	06/04/15	-	53.31	54.68	1.37	-
RW - 4	07/27/15	-	53.23	55.83	2.60	-
RW - 4	08/18/15	-	53.01	55.96	2.95	-
RW - 4	10/08/15	-	53.16	55.08	1.92	-
RW - 4	10/21/15	-	53.14	55.85	2.71	-
RW - 4	11/23/15	-	53.37	55.55	2.18	-
RW - 4	01/12/16	-	53.35	55.19	1.84	-
RW - 4	02/11/16	-	53.52	53.90	0.38	-
RW - 4	02/24/16	-	53.43	54.44	1.01	-
RW - 4	06/13/16	-	53.36	55.28	1.92	-
RW - 4	08/02/16	-	53.31	55.70	2.39	-
RW - 4	11/28/16	-	53.29	55.40	2.11	-
RW - 4	02/21/17	-	53.30	55.37	2.07	-
RW - 4	05/24/17	-	53.30	55.23	1.93	-
RW - 4	07/12/17	-	53.35	55.28	1.93	-
RW - 4	08/11/17	-	53.35	55.26	1.91	-
RW - 4	10/18/17	-	53.14	55.31	2.17	-
RW - 4	11/28/17	-	53.51	54.87	1.36	-
RW - 4	12/19/17	-	53.44	55.07	1.63	-
RW - 4	01/16/18	-	53.44	55.32	1.88	-
RW - 4	02/26/18	-	53.56	54.52	0.96	-
RW - 4	04/17/18	-	53.42	55.14	1.72	-
RW - 4	05/07/18	-	53.55	54.97	1.42	-
RW - 4	08/01/18	-	53.56	55.40	1.84	-
RW - 4	08/09/18	-	53.50	55.41	1.91	-

TABLE 7

## HISTORICAL GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
 TNM 97-04 (TOWNSEND)  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE GW-0294

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 4	08/23/18	-	53.49	55.56	2.07	-
RW - 4	08/30/18	-	53.63	55.01	1.38	-
RW - 4	08/31/18	-	53.53	55.42	1.89	-
RW - 4	09/11/18	-	53.64	54.92	1.28	-
RW - 4	09/13/18	-	53.61	54.88	1.27	-
RW - 4	09/19/18	-	53.63	54.91	1.28	-
RW - 4	09/26/18	-	53.61	55.11	1.50	-
RW - 4	10/04/18	-	53.58	55.12	1.54	-
RW - 4	11/14/18	-	53.57	55.01	1.44	-
RW - 4	12/18/18	-	53.57	55.43	1.86	-
RW - 4	02/18/19	-	53.49	55.71	2.22	-
RW - 4	05/14/19	-	53.44	55.84	2.40	-
RW - 4	08/19/19	-	53.54	56.29	2.75	-
RW - 4	11/11/19	-	53.37	56.31	2.94	-
RW - 4	01/08/20	-	53.60	55.92	2.32	-
RW - 4	02/18/20	-	53.93	56.19	2.26	-
RW - 4	05/05/20	-	53.62	56.02	2.40	-
RW - 4	06/11/20	-	53.58	56.24	2.66	-
RW - 4	09/23/20	-	53.64	56.60	2.96	-
RW - 4	12/04/20	-	53.66	56.62	2.96	-
RW - 4	03/23/21	-	53.73	56.42	2.69	-
RW - 4	06/04/21	-	53.60	57.03	3.43	-
RW - 4	08/12/21	-	53.64	57.25	3.61	-
RW - 4	09/30/21	-	53.74	57.24	3.50	-
RW - 4	12/09/21	-	53.95	56.11	2.16	-
RW - 4	02/17/22	-	53.80	57.26	3.46	-
RW - 4	05/18/22	-	53.75	57.48	3.73	-
RW - 4	06/21/22	-	53.82	57.51	3.69	-
RW - 4	06/30/22	-	53.93	57.13	3.20	-
RW - 4	07/20/22	-	53.92	57.32	3.40	-
RW - 4	07/26/22	-	54.06	56.61	2.55	-
RW - 4	08/09/22	-	53.98	56.78	2.80	-
RW - 4	09/23/22	-	53.92	57.48	3.56	-
RW - 4	09/27/22	-	54.10	56.72	2.62	-
RW - 4	10/06/22	-	54.18	56.49	2.31	-
RW - 4	11/14/22	-	54.07	57.09	3.02	-
RW - 4	01/12/23	-	53.96	57.58	3.62	-
RW - 4	02/14/23	-	54.01	57.40	3.39	-
RW - 4	03/21/23	-	53.97	57.55	3.58	-
RW - 4	03/28/23	-	54.20	56.50	2.30	-
RW - 4	04/11/23	-	54.13	56.76	2.63	-
RW - 4	05/16/23	-	54.16	56.72	2.56	-

**TABLE 7**

**HISTORICAL GROUNDWATER ELEVATION DATA**

**PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE GW-0294**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>TOP OF CASING ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
RW - 4	08/08/23	-	54.21	56.84	2.63	-
RW - 4	12/07/23	-	54.20	57.28	3.08	-

**TABLE 8**

**HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER**

**PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294**

*All Concentrations are reported in mg/L*

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 1	03/02/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	04/05/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	09/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	11/28/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	02/21/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	05/31/01	<0.001	<0.001	<0.001	<0.001	
MW - 1	08/23/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	11/21/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	02/13/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	06/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	08/26/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	11/21/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	02/06/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	05/07/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	08/18/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	12/01/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 1	02/05/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 1	12/15/04	<0.001	<0.001	<0.001	<0.001	
MW - 1	03/22/05	Not Sampled on Current Sample Schedule				
MW - 1	06/22/05	Not Sampled on Current Sample Schedule				
MW - 1	09/14/05	Plugged and Abandoned				
MW - 2	03/22/05	Not Sampled Due to PSH in Well				
MW - 2	06/22/05	Not Sampled Due to PSH in Well				
MW - 2	09/21/05	Not Sampled Due to PSH in Well				
MW - 2	12/16/05	Not Sampled Due to PSH in Well				
MW - 2	03/20/06	Not Sampled Due to PSH in Well				
MW - 2	06/21/06	Not Sampled Due to PSH in Well				
MW - 2	09/27/06	Not Sampled Due to PSH in Well				
MW - 2	12/04/06	Not Sampled Due to PSH in Well				
MW - 2	03/14/07	Not Sampled Due to PSH in Well				
MW - 2	05/29/07	Not Sampled Due to PSH in Well				
MW - 2	08/30/07	Not Sampled Due to PSH in Well				
MW - 2	11/12/07	Not Sampled Due to PSH in Well				
MW - 2	03/07/08	Not Sampled Due to PSH in Well				
MW - 2	06/02/08	Not Sampled Due to PSH in Well				
MW - 2	09/03/08	Not Sampled Due to PSH in Well				
MW - 2	12/10/08	<b>13.80</b>	<b>5.200</b>	<b>0.864</b>	<b>2.700</b>	

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 2	02/19/09	Not Sampled Due to PSH in Well				
MW - 2	05/20/09	Not Sampled Due to PSH in Well				
MW - 2	08/12/09	Not Sampled Due to PSH in Well				
MW - 2	11/25/09	<b>12.00</b>	<b>6.380</b>	<b>0.834</b>	<b>2.940</b>	
MW - 2	02/11/10	Not Sampled Due to PSH in Well				
MW - 2	05/17/10	Not Sampled Due to PSH in Well				
MW - 2	08/16/10	Not Sampled Due to PSH in Well				
MW - 2	11/10/10	Not Sampled Due to PSH in Well				
MW - 2	02/28/11	Not Sampled Due to PSH in Well				
MW - 2	05/12/11	Not Sampled Due to PSH in Well				
MW - 2	08/15/11	Not Sampled Due to PSH in Well				
MW - 2	11/22/11	Not Sampled Due to PSH in Well				
MW - 2	02/28/12	Not Sampled Due to PSH in Well				
MW - 2	05/17/12	Not Sampled Due to PSH in Well				
MW - 2	08/01/12	Not Sampled Due to PSH in Well				
MW - 2	11/29/12	Not Sampled Due to PSH in Well				
MW - 2	02/11/13	Not Sampled Due to PSH in Well				
MW - 2	05/06/13	Not Sampled Due to PSH in Well				
MW - 2	08/06/13	Not Sampled Due to PSH in Well				
MW - 2	11/18/13	Not Sampled Due to PSH in Well				
MW - 2	02/04/14	Not Sampled Due to PSH in Well				
MW - 2	05/28/14	Not Sampled Due to PSH in Well				
MW - 2	08/23/14	Not Sampled Due to PSH in Well				
MW - 2	11/18/14	Not Sampled Due to PSH in Well				
MW - 2	02/19/15	Not Sampled Due to PSH in Well				
MW - 2	05/12/15	Not Sampled Due to PSH in Well				
MW - 2	08/18/15	Not Sampled Due to PSH in Well				
MW - 2	11/23/15	Not Sampled Due to PSH in Well				
MW - 2	02/24/16	Not Sampled Due to PSH in Well				
MW - 2	06/13/16	Not Sampled Due to PSH in Well				
MW - 2	08/03/16	Not Sampled Due to PSH in Well				
MW - 2	11/28/16	Not Sampled Due to PSH in Well				
MW - 2	02/21/17	Not Sampled Due to PSH in Well				
MW - 2	05/24/17	Not Sampled Due to PSH in Well				
MW - 2	08/11/17	Not Sampled Due to PSH in Well				
MW - 2	11/28/17	Not Sampled Due to PSH in Well				
MW - 2	02/26/18	Not Sampled Due to PSH in Well				
MW - 2	05/07/18	Not Sampled Due to PSH in Well				

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 2	08/09/18	Not Sampled Due to PSH in Well				
MW - 2	11/14/18	Not Sampled Due to PSH in Well				
MW - 2	02/18/19	Not Sampled Due to PSH in Well				
MW - 2	05/14/19	Not Sampled Due to PSH in Well				
MW - 2	08/19/19	Not Sampled Due to PSH in Well				
MW - 2	11/11/19	Not Sampled Due to PSH in Well				
MW - 2	02/18/20	Not Sampled Due to PSH in Well				
MW - 2	06/11/20	Not Sampled Due to PSH in Well				
MW - 2	09/23/20	Not Sampled Due to PSH in Well				
MW - 2	12/04/20	Not Sampled Due to PSH in Well				
MW - 2	03/23/21	Not Sampled Due to PSH in Well				
MW - 2	06/04/21	Not Sampled Due to PSH in Well				
MW - 2	09/30/21	Not Sampled Due to PSH in Well				
MW - 2	12/09/21	<b>0.224</b>	0.00297	0.116	0.485	
MW - 2	02/17/22	Not Sampled Due to PSH in Well				
MW - 2	05/18/22	Not Sampled Due to PSH in Well				
MW - 2	08/09/22	Not Sampled Due to PSH in Well				
MW - 2	11/14/22	Not Sampled Due to PSH in Well				
MW - 2	02/13/23	Not Sampled Due to PSH in Well				
MW - 2	05/16/23	Not Sampled Due to PSH in Well				
MW - 2	08/08/23	Not Sampled Due to PSH in Well				
MW - 2	12/08/23	Not Sampled Due to PSH in Well				
MW - 3	03/22/05	Not Sampled Due to PSH in Well				
MW - 3	06/22/05	Not Sampled Due to PSH in Well				
MW - 3	09/21/05	Not Sampled Due to PSH in Well				
MW - 3	12/16/05	Not Sampled Due to PSH in Well				
MW - 3	03/20/06	Not Sampled Due to PSH in Well				
MW - 3	06/21/06	Not Sampled Due to PSH in Well				
MW - 3	09/27/06	Not Sampled Due to PSH in Well				
MW - 3	12/04/06	Not Sampled Due to PSH in Well				
MW - 3	03/14/07	Not Sampled Due to PSH in Well				
MW - 3	05/29/07	Not Sampled Due to PSH in Well				
MW - 3	08/30/07	Not Sampled Due to PSH in Well				
MW - 3	11/12/07	Not Sampled Due to PSH in Well				
MW - 3	03/07/08	Not Sampled Due to PSH in Well				
MW - 3	06/02/08	Not Sampled Due to PSH in Well				
MW - 3	09/03/08	Not Sampled Due to PSH in Well				

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**TABLE 8**

**HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER**

**PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294**

*All Concentrations are reported in mg/L*

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 3	12/10/08	<b>10.10</b>	<b>6.40</b>	<b>1.040</b>	<b>2.80</b>	
MW - 3	02/19/09	Not Sampled Due to PSH in Well				
MW - 3	05/20/09	Not Sampled Due to PSH in Well				
MW - 3	08/12/09	Not Sampled Due to PSH in Well				
MW - 3	11/25/09	<b>16.80</b>	<b>17.20</b>	<b>4.690</b>	<b>14.20</b>	
MW - 3	02/11/10	Not Sampled Due to PSH in Well				
MW - 3	05/17/10	Not Sampled Due to PSH in Well				
MW - 3	08/16/10	Not Sampled Due to PSH in Well				
MW - 3	11/10/10	Not Sampled Due to PSH in Well				
MW - 3	02/28/11	Not Sampled Due to PSH in Well				
MW - 3	05/12/11	Not Sampled Due to PSH in Well				
MW - 3	08/15/11	Not Sampled Due to PSH in Well				
MW - 3	11/22/11	Not Sampled Due to PSH in Well				
MW - 3	02/28/12	Not Sampled Due to PSH in Well				
MW - 3	05/17/12	Not Sampled Due to PSH in Well				
MW - 3	08/01/12	Not Sampled Due to PSH in Well				
MW - 3	11/29/12	Not Sampled Due to PSH in Well				
MW - 3	02/11/13	Not Sampled Due to PSH in Well				
MW - 3	05/06/13	Not Sampled Due to PSH in Well				
MW - 3	05/06/13	Not Sampled Due to PSH in Well				
MW - 3	11/18/13	Not Sampled Due to PSH in Well				
MW - 3	02/04/14	Not Sampled Due to PSH in Well				
MW - 3	05/28/14	Not Sampled Due to PSH in Well				
MW - 3	08/23/14	Not Sampled Due to PSH in Well				
MW - 3	11/18/14	Not Sampled Due to PSH in Well				
MW - 3	02/19/15	Not Sampled Due to PSH in Well				
MW - 3	05/12/15	Not Sampled Due to PSH in Well				
MW - 3	08/18/15	Not Sampled Due to PSH in Well				
MW - 3	11/23/15	Not Sampled Due to PSH in Well				
MW - 3	02/24/16	Not Sampled Due to PSH in Well				
MW - 3	06/13/16	Not Sampled Due to PSH in Well				
MW - 3	08/03/16	Not Sampled Due to PSH in Well				
MW - 3	11/28/16	Not Sampled Due to PSH in Well				
MW - 3	02/21/17	Not Sampled Due to PSH in Well				
MW - 3	05/24/17	Not Sampled Due to PSH in Well				
MW - 3	08/11/17	Not Sampled Due to PSH in Well				
MW - 3	11/28/17	Not Sampled Due to PSH in Well				
MW - 3	02/26/18	Not Sampled Due to PSH in Well				

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
NMOCD REGULATORY GUIDELINE		0.01	0.75	0.75	0.62	
MW - 3	05/07/18	Not Sampled Due to PSH in Well				
MW - 3	08/09/18	Not Sampled Due to PSH in Well				
MW - 3	11/14/18	Not Sampled Due to PSH in Well				
MW - 3	02/18/19	Not Sampled Due to PSH in Well				
MW - 3	05/14/19	Not Sampled Due to PSH in Well				
MW - 3	08/19/19	Not Sampled Due to PSH in Well				
MW - 3	11/11/19	Not Sampled Due to PSH in Well				
MW - 3	02/18/20	Not Sampled Due to PSH in Well				
MW - 3	06/11/20	Not Sampled Due to PSH in Well				
MW - 3	09/23/20	Not Sampled Due to PSH in Well				
MW - 3	12/04/20	Not Sampled Due to PSH in Well				
MW - 3	03/23/21	Not Sampled Due to PSH in Well				
MW - 3	06/04/21	Not Sampled Due to PSH in Well				
MW - 3	09/30/21	Not Sampled Due to PSH in Well				
MW - 3	12/09/21	0.784	0.00235	0.217	0.37015	
MW - 3	02/17/22	Not Sampled Due to PSH in Well				
MW - 3	05/18/22	Not Sampled Due to PSH in Well				
MW - 3	08/09/22	Not Sampled Due to PSH in Well				
MW - 3	11/14/22	Not Sampled Due to PSH in Well				
MW - 3	02/13/23	Not Sampled Due to PSH in Well				
MW - 3	05/16/23	Not Sampled Due to PSH in Well				
MW - 3	08/08/23	Not Sampled Due to PSH in Well				
MW - 3	12/08/23	Not Sampled Due to PSH in Well				
MW - 4	03/22/05	Not Sampled Due to PSH in Well				
MW - 4	06/22/05	Not Sampled Due to PSH in Well				
MW - 4	09/21/05	Not Sampled Due to PSH in Well				
MW - 4	12/16/05	Not Sampled Due to PSH in Well				
MW - 4	03/20/06	Not Sampled Due to PSH in Well				
MW - 4	06/21/06	Not Sampled Due to PSH in Well				
MW - 4	09/27/06	Not Sampled Due to PSH in Well				
MW - 4	12/04/06	Not Sampled Due to PSH in Well				
MW - 4	03/14/07	Not Sampled Due to PSH in Well				
MW - 4	05/29/07	Not Sampled Due to PSH in Well				
MW - 4	08/30/07	Not Sampled Due to PSH in Well				
MW - 4	11/12/07	Not Sampled Due to PSH in Well				
MW - 4	03/07/08	Not Sampled Due to PSH in Well				
MW - 4	06/02/08	Not Sampled Due to PSH in Well				



TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
NMOCD REGULATORY GUIDELINE		0.01	0.75	0.75	0.62	
MW - 4	09/03/08	Not Sampled Due to PSH in Well				
MW - 4	12/10/08	1.930	0.996	0.613	1.620	
MW - 4	02/19/09	Not Sampled Due to PSH in Well				
MW - 4	05/20/09	Not Sampled Due to PSH in Well				
MW - 4	08/12/09	Not Sampled Due to PSH in Well				
MW - 4	11/25/09	2.000	1.060	0.618	1.340	
MW - 4	02/11/10	2.150	1.230	0.825	2.150	
MW - 4	05/17/10	0.747	0.125	0.335	0.549	
MW - 4	08/16/10	1.180	0.237	0.445	0.599	
MW - 4	11/10/10	0.583	0.174	0.370	0.762	
MW - 4	02/28/11	1.140	0.343	0.556	0.999	
MW - 4	05/12/11	1.020	0.292	0.517	1.210	
MW - 4	08/15/11	0.838	0.084	0.355	0.387	
MW - 4	11/22/11	0.684	0.061	0.435	1.070	
MW - 4	02/28/12	0.614	0.073	0.366	0.865	
MW - 4	05/17/12	0.901	0.071	0.474	0.929	
MW - 4	08/01/12	0.632	<0.050	0.396	0.776	
MW - 4	11/29/12	0.188	0.0042	0.135	0.308	
MW - 4	02/11/13	0.262	<0.005	0.329	0.790	
MW - 4	05/06/13	0.396	<0.005	0.480	1.55	
MW - 4	08/06/13	0.259	<0.005	0.406	1.05	
MW - 4	11/19/13	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 4	12/08/13	0.0777	<0.0500	<0.0500	<0.150	
MW - 4	02/04/14	0.322	<0.0500	0.294	0.684	
MW - 4	05/28/14	Not Sampled Due to PSH in Well				
MW - 4	08/23/14	Not Sampled Due to PSH in Well				
MW - 4	11/18/14	Not Sampled Due to PSH in Well				
MW - 4	02/19/15	Not Sampled Due to PSH in Well				
MW - 4	05/12/15	Not Sampled Due to PSH in Well				
MW - 4	08/18/15	Not Sampled Due to PSH in Well				
MW - 4	11/23/15	Not Sampled Due to PSH in Well				
MW - 4	02/24/16	Not Sampled Due to PSH in Well				
MW - 4	06/13/16	Not Sampled Due to PSH in Well				
MW - 4	08/03/16	Not Sampled Due to PSH in Well				
MW - 4	11/28/16	0.122	<0.00200	0.176	0.413	
MW - 4	02/21/17	0.251	<0.100	0.201	0.540	
MW - 4	05/24/17	Not Sampled Due to PSH in Well				
MW - 4	08/11/17	Not Sampled Due to PSH in Well				

TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 4	11/28/17	Not Sampled Due to PSH in Well				
MW - 4	02/26/18	Not Sampled Due to PSH in Well				
MW - 4	05/07/18	Not Sampled Due to PSH in Well				
MW - 4	08/09/18	Not Sampled Due to PSH in Well				
MW - 4	11/14/18	Not Sampled Due to PSH in Well				
MW - 4	02/18/19	<b>0.0987</b>	0.0218	0.254	<b>0.718</b>	
MW - 4	05/14/19	<b>0.0604</b>	0.0315	0.117	0.348	
MW - 4	08/19/19	<b>0.0436</b>	0.0385	0.141	0.3248	
MW - 4	11/11/19	<b>0.166</b>	0.233	0.327	<b>1.114</b>	
MW - 4	02/18/20	Not Sampled Due to PSH in Well				
MW - 4	06/11/20	Not Sampled Due to PSH in Well				
MW - 4	09/23/20	Not Sampled Due to PSH in Well				
MW - 4	12/04/20	Not Sampled Due to PSH in Well				
MW - 4	03/23/21	Not Sampled Due to PSH in Well				
MW - 4	06/04/21	Not Sampled Due to PSH in Well				
MW - 4	09/30/21	Not Sampled Due to PSH in Well				
MW - 4	12/09/21	<b>0.0108</b>	0.00861	0.054	0.2025	
MW - 4	02/17/22	Not Sampled Due to PSH in Well				
MW - 4	05/18/22	Not Sampled Due to PSH in Well				
MW - 4	08/09/22	Not Sampled Due to PSH in Well				
MW - 4	11/14/22	Not Sampled Due to PSH in Well				
MW - 4	02/13/23	Not Sampled Due to PSH in Well				
MW - 4	05/16/23	Not Sampled Due to PSH in Well				
MW - 4	08/08/23	Not Sampled Due to PSH in Well				
MW - 4	12/08/23	Not Sampled Due to PSH in Well				
MW - 5	03/22/05	Not Sampled Due to PSH in Well				
MW - 5	06/22/05	Not Sampled Due to PSH in Well				
MW - 5	09/21/05	Not Sampled Due to PSH in Well				
MW - 5	12/16/05	Not Sampled Due to PSH in Well				
MW - 5	03/20/06	Not Sampled Due to PSH in Well				
MW - 5	06/21/06	Not Sampled Due to PSH in Well				
MW - 5	09/27/06	Not Sampled Due to PSH in Well				
MW - 5	12/04/06	Not Sampled Due to PSH in Well				
MW - 5	03/14/07	Not Sampled Due to PSH in Well				
MW - 5	05/29/07	Not Sampled Due to PSH in Well				
MW - 5	08/30/07	Not Sampled Due to PSH in Well				
MW - 5	11/12/07	Not Sampled Due to PSH in Well				

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 5	03/07/08	Not Sampled Due to PSH in Well				
MW - 5	06/02/08	Not Sampled Due to PSH in Well				
MW - 5	09/03/08	Not Sampled Due to PSH in Well				
MW - 5	12/10/08	<b>18.90</b>	<b>9.030</b>	<b>1.490</b>	<b>3.520</b>	
MW - 5	02/19/09	Not Sampled Due to PSH in Well				
MW - 5	05/20/09	Not Sampled Due to PSH in Well				
MW - 5	08/12/09	Not Sampled Due to PSH in Well				
MW - 5	11/25/09	<b>15.60</b>	<b>5.700</b>	<b>1.080</b>	<b>2.290</b>	
MW - 5	02/11/10	Not Sampled Due to PSH in Well				
MW - 5	05/17/10	Not Sampled Due to PSH in Well				
MW - 5	08/16/10	Not Sampled Due to PSH in Well				
MW - 5	11/10/10	Not Sampled Due to PSH in Well				
MW - 5	02/28/11	Not Sampled Due to PSH in Well				
MW - 5	05/12/11	Not Sampled Due to PSH in Well				
MW - 5	08/15/11	Not Sampled Due to PSH in Well				
MW - 5	11/22/11	Not Sampled Due to PSH in Well				
MW - 5	02/28/12	Not Sampled Due to PSH in Well				
MW - 5	05/17/12	Not Sampled Due to PSH in Well				
MW - 5	08/01/12	Not Sampled Due to PSH in Well				
MW - 5	11/29/12	Not Sampled Due to PSH in Well				
MW - 5	02/11/13	Not Sampled Due to PSH in Well				
MW - 5	05/06/13	Not Sampled Due to PSH in Well				
MW - 5	08/06/13	Not Sampled Due to PSH in Well				
MW - 5	11/18/13	Not Sampled Due to PSH in Well				
MW - 5	02/04/14	Not Sampled Due to PSH in Well				
MW - 5	05/28/14	Not Sampled Due to PSH in Well				
MW - 5	08/23/14	Not Sampled Due to PSH in Well				
MW - 5	11/18/14	Not Sampled Due to PSH in Well				
MW - 5	02/19/15	Not Sampled Due to PSH in Well				
MW - 5	05/12/15	Not Sampled Due to PSH in Well				
MW - 5	11/18/14	Not Sampled Due to PSH in Well				
MW - 5	08/18/15	Not Sampled Due to PSH in Well				
MW - 5	11/23/15	Not Sampled Due to PSH in Well				
MW - 5	02/24/16	Not Sampled Due to PSH in Well				
MW - 5	06/13/16	Not Sampled Due to PSH in Well				
MW - 5	08/03/16	Not Sampled Due to PSH in Well				
MW - 5	11/28/16	Not Sampled Due to PSH in Well				
MW - 5	02/21/17	Not Sampled Due to PSH in Well				

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 5	05/24/17	Not Sampled Due to PSH in Well				
MW - 5	08/11/17	Not Sampled Due to PSH in Well				
MW - 5	11/28/17	Not Sampled Due to PSH in Well				
MW - 5	02/26/18	Not Sampled Due to PSH in Well				
MW - 5	05/07/18	Not Sampled Due to PSH in Well				
MW - 5	08/09/18	Not Sampled Due to PSH in Well				
MW - 5	11/14/18	Not Sampled Due to PSH in Well				
MW - 5	02/18/19	Not Sampled Due to PSH in Well				
MW - 5	05/14/19	Not Sampled Due to PSH in Well				
MW - 5	08/19/19	Not Sampled Due to PSH in Well				
MW - 5	11/11/19	Not Sampled Due to PSH in Well				
MW - 5	02/18/20	Not Sampled Due to PSH in Well				
MW - 5	06/11/20	Not Sampled Due to PSH in Well				
MW - 5	09/23/20	Not Sampled Due to PSH in Well				
MW - 5	12/04/20	Not Sampled Due to PSH in Well				
MW - 5	03/23/21	Not Sampled Due to PSH in Well				
MW - 5	06/04/21	Not Sampled Due to PSH in Well				
MW - 5	09/30/21	Not Sampled Due to PSH in Well				
MW - 5	12/09/21	<b>8.13</b>	<b>2.12</b>	0.643	<b>1.238</b>	
MW - 5	02/17/22	Not Sampled Due to PSH in Well				
MW - 5	03/08/22	<b>6.80</b>	<b>1.96</b>	<b>0.847</b>	<b>1.529</b>	
MW - 5	05/18/22	<b>8.63</b>	<b>3.46</b>	<b>1.08</b>	<b>2.317</b>	
MW - 5	08/09/22	<b>6.91</b>	<b>1.80</b>	0.712	<b>1.357</b>	
MW - 5	11/15/22	<b>5.93</b>	<b>2.50</b>	<b>0.832</b>	<b>1.543</b>	
MW - 5	02/14/23	<b>5.60</b>	<b>2.24</b>	0.651	<b>1.253</b>	
MW - 5	05/16/23	<b>25.0</b>	<b>11.9</b>	<b>2.26</b>	<b>5.94</b>	
MW - 5	08/08/23	<b>4.96</b>	<b>1.86</b>	<b>0.697</b>	<b>1.685</b>	
MW - 5	12/07/23	<b>8.91</b>	<b>5.10</b>	<b>1.36</b>	<b>3.60</b>	
MW - 6	03/22/05	Not Sampled Due to PSH in Well				
MW - 6	06/22/05	Not Sampled Due to PSH in Well				
MW - 6	09/21/05	Not Sampled Due to PSH in Well				
MW - 6	12/16/05	Not Sampled Due to PSH in Well				
MW - 6	03/20/06	Not Sampled Due to PSH in Well				
MW - 6	06/21/06	Not Sampled Due to PSH in Well				
MW - 6	09/27/06	Not Sampled Due to PSH in Well				
MW - 6	12/04/06	Not Sampled Due to PSH in Well				
MW - 6	03/14/07	Not Sampled Due to PSH in Well				

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 6	05/29/07	Not Sampled Due to PSH in Well				
MW - 6	08/30/07	Not Sampled Due to PSH in Well				
MW - 6	11/12/07	Not Sampled Due to PSH in Well				
MW - 6	03/07/08	Not Sampled Due to PSH in Well				
MW - 6	06/02/08	Not Sampled Due to PSH in Well				
MW - 6	09/03/08	Not Sampled Due to PSH in Well				
MW - 6	12/10/08	<b>26.00</b>	<b>3.950</b>	<b>1.230</b>	<b>2.850</b>	
MW - 6	02/19/09	Not Sampled Due to PSH in Well				
MW - 6	05/20/09	Not Sampled Due to PSH in Well				
MW - 6	08/12/09	Not Sampled Due to PSH in Well				
MW - 6	11/25/09	<b>19.80</b>	<b>5.060</b>	<b>1.010</b>	<b>2.330</b>	
MW - 6	02/11/10	Not Sampled Due to PSH in Well				
MW - 6	05/17/10	Not Sampled Due to PSH in Well				
MW - 6	08/16/10	Not Sampled Due to PSH in Well				
MW - 6	11/10/10	<b>4.04</b>	<b>2.830</b>	0.494	<b>1.710</b>	
MW - 6	02/28/11	<b>3.77</b>	<b>2.320</b>	0.330	<b>0.926</b>	
MW - 6	05/12/11	<b>1.37</b>	0.637	0.123	0.503	
MW - 6	08/15/11	<b>2.10</b>	<b>0.945</b>	0.0741	0.612	
MW - 6	11/22/11	<b>3.59</b>	<b>1.460</b>	0.3170	<b>1.100</b>	
MW - 6	02/28/12	<b>4.54</b>	<b>1.560</b>	0.2890	<b>1.200</b>	
MW - 6	05/17/12	Not Sampled Due to PSH in Well				
MW - 6	08/01/12	Not Sampled Due to PSH in Well				
MW - 6	11/29/12	Not Sampled Due to PSH in Well				
MW - 6	02/11/13	Not Sampled Due to PSH in Well				
MW - 6	05/06/13	Not Sampled Due to PSH in Well				
MW - 6	08/06/13	Not Sampled Due to PSH in Well				
MW - 6	11/18/13	Not Sampled Due to PSH in Well				
MW - 6	02/04/14	Not Sampled Due to PSH in Well				
MW - 6	05/28/14	Not Sampled Due to PSH in Well				
MW - 6	08/23/14	Not Sampled Due to PSH in Well				
MW - 6	11/18/14	Not Sampled Due to PSH in Well				
MW - 6	02/19/15	0.579	<0.0500	0.0912	0.154	
MW - 6	05/12/15	Not Sampled Due to PSH in Well				
MW - 6	08/18/15	<b>0.324</b>	<0.0500	<0.0500	0.158	
MW - 6	11/23/15	<b>0.286</b>	<0.00100	0.0413	0.0857	
MW - 6	02/24/16	<b>0.682</b>	<0.0500	0.161	0.190	
MW - 6	06/13/16	<b>0.254</b>	<0.0500	0.0578	0.103	
MW - 6	08/03/16	<b>0.129</b>	<0.00100	0.0167	0.0288	

TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
NMOCD REGULATORY GUIDELINE		0.01	0.75	0.75	0.62	
MW - 6	11/28/16	0.254	<0.00200	0.0403	0.0661	
MW - 6	02/21/17	0.246	<0.00200	0.0275	0.09560	
MW - 6	05/24/17	Not Sampled Due to PSH in Well				
MW - 6	08/11/17	Not Sampled Due to PSH in Well				
MW - 6	11/28/17	Not Sampled Due to PSH in Well				
MW - 6	02/26/18	Not Sampled Due to PSH in Well				
MW - 6	05/07/18	Not Sampled Due to PSH in Well				
MW - 6	08/09/18	Not Sampled Due to PSH in Well				
MW - 6	11/14/18	Not Sampled Due to PSH in Well				
MW - 6	02/18/19	Not Sampled Due to PSH in Well				
MW - 6	05/14/19	Not Sampled Due to PSH in Well				
MW - 6	08/19/19	Not Sampled Due to PSH in Well				
MW - 6	11/11/19	Not Sampled Due to PSH in Well				
MW - 6	02/18/20	Not Sampled Due to PSH in Well				
MW - 6	06/11/20	Not Sampled Due to PSH in Well				
MW - 6	09/23/20	Not Sampled Due to PSH in Well				
MW - 6	12/04/20	Not Sampled Due to PSH in Well				
MW - 6	03/23/21	Not Sampled Due to PSH in Well				
MW - 6	06/04/21	Not Sampled Due to PSH in Well				
MW - 6	09/30/21	Not Sampled Due to PSH in Well				
MW - 6	12/09/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 6	02/17/22	Not Sampled Due to PSH in Well				
MW - 6	03/08/22	0.265	0.00128	0.0133	0.01638	
MW - 6	05/18/22	0.316	0.00307	0.0212	0.02664	
MW - 6	08/09/22	0.239	0.00327	0.0242	0.04975	
MW - 6	11/15/22	0.207	0.00565	0.00878	0.02245	
MW - 6	02/14/23	0.00563	0.00241	0.00299	0.01229	
MW - 6	05/16/23	0.0643	0.00107	0.00203	0.00698	
MW - 6	08/08/23	0.359	<0.00100	0.00403	0.00547	
MW - 6	12/07/23	1.15	<0.00100	0.0103	<0.00200	
MW - 7	03/02/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	04/25/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	09/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	11/28/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	02/21/01	0.005	<0.001	<0.001	0.013	0.026
MW - 7	05/31/01	0.033	0.015	<0.001	0.100	
MW - 7	08/23/01	0.009	0.002	<0.001	0.029	0.049

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**TABLE 8**

**HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER**

**PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294**

*All Concentrations are reported in mg/L*

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 7	11/21/01	0.007	0.002	<0.001	0.022	0.037
MW - 7	02/13/02	0.004	<0.001	<0.001	0.017	0.027
MW - 7	06/12/02	0.002	<0.001	<0.001	0.009	0.001
MW - 7	08/26/02	0.001	<0.001	0.012	0.014	<0.001
MW - 7	11/21/02	<0.001	<0.001	<0.001	0.003	<0.001
MW - 7	02/06/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	05/07/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	08/18/03	<0.001	<0.001	<0.001	0.002	<0.001
MW - 7	12/01/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 7	02/05/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 7	12/15/04	<0.001	<0.001	<0.001	<0.001	
MW - 7	03/22/05	Not Sampled on Current Sample Schedule				
MW - 7	06/22/05	Not Sampled on Current Sample Schedule				
MW - 7	09/21/05	Not Sampled on Current Sample Schedule				
MW - 7	12/16/05	<0.001	<0.001	0.0028	0.0031	
MW - 7	03/20/06	Not Sampled on Current Sample Schedule				
MW - 7	06/21/06	Not Sampled on Current Sample Schedule				
MW - 7	09/27/06	Not Sampled on Current Sample Schedule				
MW - 7	12/04/06	<0.001	<0.001	0.0309	0.0085	
MW - 7	03/14/07	Not Sampled on Current Sample Schedule				
MW - 7	05/29/07	Not Sampled on Current Sample Schedule				
MW - 7	08/30/07	Not Sampled on Current Sample Schedule				
MW - 7	11/12/07	<0.001	<0.001	0.0062	0.0015	
MW - 7	03/07/08	Not Sampled on Current Sample Schedule				
MW - 7	06/02/08	Not Sampled on Current Sample Schedule				
MW - 7	09/03/08	Not Sampled on Current Sample Schedule				
MW - 7	12/08/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/19/09	Not Sampled on Current Sample Schedule				
MW - 7	05/20/09	Not Sampled on Current Sample Schedule				
MW - 7	08/12/09	Not Sampled on Current Sample Schedule				
MW - 7	11/25/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/11/10	Not Sampled on Current Sample Schedule				
MW - 7	05/17/10	Not Sampled on Current Sample Schedule				
MW - 7	08/16/10	Not Sampled on Current Sample Schedule				
MW - 7	11/10/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/28/11	Not Sampled on Current Sample Schedule				
MW - 7	05/12/11	Not Sampled on Current Sample Schedule				
MW - 7	08/15/11	Not Sampled on Current Sample Schedule				

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 7	11/22/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/28/12	Not Sampled on Current Sample Schedule				
MW - 7	05/17/12	Not Sampled on Current Sample Schedule				
MW - 7	08/01/12	Not Sampled on Current Sample Schedule				
MW - 7	11/29/12	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/11/13	Not Sampled on Current Sample Schedule				
MW - 7	05/06/13	Not Sampled on Current Sample Schedule				
MW - 7	08/06/13	Not Sampled on Current Sample Schedule				
MW - 7	11/19/13	<b>0.0729</b>	0.0023	0.0788	0.2020	
MW - 7	12/08/13	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 7	02/04/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 7	05/28/14	Not Sampled on Current Sample Schedule				
MW - 7	08/23/14	Not Sampled on Current Sample Schedule				
MW - 7	11/18/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/19/15	Not Sampled on Current Sample Schedule				
MW - 7	05/12/15	Not Sampled on Current Sample Schedule				
MW - 7	08/18/15	Not Sampled on Current Sample Schedule				
MW - 7	11/23/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/24/16	Not Sampled on Current Sample Schedule				
MW - 7	06/13/16	Not Sampled on Current Sample Schedule				
MW - 7	08/03/16	Not Sampled on Current Sample Schedule				
MW - 7	11/28/16	<0.00200	<0.00200	<0.00200	<0.00200	
MW - 7	02/21/17	Not Sampled on Current Sample Schedule				
MW - 7	05/24/17	Not Sampled on Current Sample Schedule				
MW - 7	08/11/17	Not Sampled on Current Sample Schedule				
MW - 7	11/28/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 7	02/26/18	Not Sampled on Current Sample Schedule				
MW - 7	05/07/18	Not Sampled on Current Sample Schedule				
MW - 7	08/09/18	Not Sampled on Current Sample Schedule				
MW - 7	11/14/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 7	02/18/19	Not Sampled on Current Sample Schedule				
MW - 7	05/14/19	Not Sampled on Current Sample Schedule				
MW - 7	08/19/19	Not Sampled on Current Sample Schedule				
MW - 7	11/11/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 7	02/18/20	Not Sampled on Current Sample Schedule				
MW - 7	06/11/20	Not Sampled on Current Sample Schedule				
MW - 7	09/23/20	Not Sampled on Current Sample Schedule				
MW - 7	12/24/20	<0.00100	<0.00100	<0.00100	<0.00200	

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 7	03/23/21	Not Sampled on Current Sample Schedule				
MW - 7	06/04/21	Not Sampled on Current Sample Schedule				
MW - 7	09/30/21	Not Sampled on Current Sample Schedule				
MW - 7	12/09/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 7	02/17/22	Not Sampled on Current Sample Schedule				
MW - 7	05/16/22	Not Sampled on Current Sample Schedule				
MW - 7	08/08/22	Not Sampled on Current Sample Schedule				
MW - 7	11/16/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 7	02/13/23	Not Sampled on Current Sample Schedule				
MW - 7	05/16/23	Not Sampled on Current Sample Schedule				
MW - 7	08/08/23	Not Sampled on Current Sample Schedule				
MW - 7	12/08/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 8	03/02/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	04/25/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	09/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	11/28/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	02/21/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	05/31/01	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/23/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	11/21/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	02/13/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	06/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	08/26/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	11/21/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	02/06/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	05/07/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	08/18/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	12/01/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 8	02/05/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 8	12/15/04	<0.001	<0.001	<0.001	<0.001	
MW - 8	03/22/05	Not Sampled on Current Sample Schedule				
MW - 8	06/22/05	Not Sampled on Current Sample Schedule				
MW - 8	09/14/05	Plugged and Abandoned				
MW - 9	03/22/05	Not Sampled Due to PSH in Well				
MW - 9	06/22/05	Not Sampled Due to PSH in Well				
MW - 9	09/21/05	Not Sampled Due to PSH in Well				

TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 9	12/16/05	Not Sampled Due to PSH in Well				
MW - 9	03/20/06	Not Sampled Due to PSH in Well				
MW - 9	06/21/06	Not Sampled Due to PSH in Well				
MW - 9	09/27/06	Not Sampled Due to PSH in Well				
MW - 9	12/04/06	Not Sampled Due to PSH in Well				
MW - 9	03/14/07	Not Sampled Due to PSH in Well				
MW - 9	05/29/07	Not Sampled Due to PSH in Well				
MW - 9	08/30/07	Not Sampled Due to PSH in Well				
MW - 9	11/12/07	Not Sampled Due to PSH in Well				
MW - 9	03/07/08	Not Sampled Due to PSH in Well				
MW - 9	06/02/08	Not Sampled Due to PSH in Well				
MW - 9	09/03/08	Not Sampled Due to PSH in Well				
MW - 9	12/10/08	<b>2.240</b>	<b>2.850</b>	<b>0.633</b>	<b>1.790</b>	
MW - 9	02/19/09	Not Sampled Due to PSH in Well				
MW - 9	05/20/09	Not Sampled Due to PSH in Well				
MW - 9	08/12/09	Not Sampled Due to PSH in Well				
MW - 9	08/12/09	<b>2.090</b>	<b>2.470</b>	<b>0.503</b>	<b>1.600</b>	
MW - 9	02/11/10	Not Sampled Due to PSH in Well				
MW - 9	05/17/10	Not Sampled Due to PSH in Well				
MW - 9	08/16/10	Not Sampled Due to PSH in Well				
MW - 9	11/10/10	Not Sampled Due to PSH in Well				
MW - 9	02/28/11	Not Sampled Due to PSH in Well				
MW - 9	05/12/11	Not Sampled Due to PSH in Well				
MW - 9	08/15/11	Not Sampled Due to PSH in Well				
MW - 9	11/22/11	Not Sampled Due to PSH in Well				
MW - 9	02/28/12	Not Sampled Due to PSH in Well				
MW - 9	05/17/12	Not Sampled Due to PSH in Well				
MW - 9	08/01/12	Not Sampled Due to PSH in Well				
MW - 9	11/29/12	Not Sampled Due to PSH in Well				
MW - 9	02/11/13	Not Sampled Due to PSH in Well				
MW - 9	05/06/13	Not Sampled Due to PSH in Well				
MW - 9	08/06/13	Not Sampled Due to PSH in Well				
MW - 9	11/18/13	Not Sampled Due to PSH in Well				
MW - 9	02/04/14	Not Sampled Due to PSH in Well				
MW - 9	05/28/14	Not Sampled Due to PSH in Well				
MW - 9	08/23/14	Not Sampled Due to PSH in Well				
MW - 9	11/18/14	Not Sampled Due to PSH in Well				
MW - 9	02/19/15	Not Sampled Due to PSH in Well				

TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
NMOCD REGULATORY GUIDELINE		0.01	0.75	0.75	0.62	
MW - 9	05/12/15	Not Sampled Due to PSH in Well				
MW - 9	08/18/15	Not Sampled Due to PSH in Well				
MW - 9	11/23/15	Not Sampled Due to PSH in Well				
MW - 9	02/24/16	Not Sampled Due to PSH in Well				
MW - 9	06/13/16	Not Sampled Due to PSH in Well				
MW - 9	08/03/16	Not Sampled Due to PSH in Well				
MW - 9	11/28/16	Not Sampled Due to PSH in Well				
MW - 9	02/21/17	Not Sampled Due to PSH in Well				
MW - 9	05/24/17	Not Sampled Due to PSH in Well				
MW - 9	08/11/17	Not Sampled Due to PSH in Well				
MW - 9	11/28/17	Not Sampled Due to PSH in Well				
MW - 9	02/26/18	Not Sampled Due to PSH in Well				
MW - 9	05/07/18	Not Sampled Due to PSH in Well				
MW - 9	08/09/18	Not Sampled Due to PSH in Well				
MW - 9	11/14/18	Not Sampled Due to PSH in Well				
MW - 9	02/18/19	0.00893	0.0254	0.0608	0.1877	
MW - 9	05/14/19	0.0239	0.0786	0.119	0.350	
MW - 9	08/19/19	0.00796	0.0224	0.0565	0.221	
MW - 9	11/11/19	0.0141	0.202	0.274	1.003	
MW - 9	02/18/20	Not Sampled Due to PSH in Well				
MW - 9	06/11/20	Not Sampled Due to PSH in Well				
MW - 9	09/23/20	Not Sampled Due to PSH in Well				
MW - 9	12/04/20	Not Sampled Due to PSH in Well				
MW - 9	03/23/21	Not Sampled Due to PSH in Well				
MW - 9	06/04/21	Not Sampled Due to PSH in Well				
MW - 9	09/30/21	Not Sampled Due to PSH in Well				
MW - 9	12/09/21	0.0141	0.0444	0.120	0.507	
MW - 9	02/17/22	Not Sampled Due to PSH in Well				
MW - 9	03/08/22	0.0166	0.0302	0.0738	0.2932	
MW - 9	05/18/22	0.0146	0.0817	0.218	0.959	
MW - 9	08/09/22	0.0139	0.0435	0.200	0.740	
MW - 9	11/15/22	0.0195	0.0346	0.179	0.577	
MW - 9	02/14/23	0.0148	0.0204	0.178	0.584	
MW - 9	05/16/23	0.0126	0.0176	0.266	0.929	
MW - 9	08/08/23	0.00952	0.0116	0.142	0.507	
MW - 9	12/07/23	0.0111	0.0059	0.126	0.423	
MW - 10	03/02/00	<0.001	<0.001	<0.001	<0.001	<0.001

TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 10	04/25/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 10	09/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 10	11/28/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 10	02/21/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 10	05/31/01	<0.001	<0.001	<0.001	<0.001	
MW - 10	08/23/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 10	11/21/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 10	02/13/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 10	06/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 10	08/26/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 10	11/21/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 10	02/06/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 10	05/07/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 10	08/18/03	0.005	0.002	<0.001	0.001	<0.001
MW - 10	12/01/03	0.002	0.001	<0.001	<0.002	<0.001
MW - 10	02/05/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 10	12/15/04	<0.001	<0.001	<0.001	<0.001	
MW - 10	03/22/05	Not Sampled on Current Sample Schedule				
MW - 10	06/22/05	Not Sampled on Current Sample Schedule				
MW - 10	09/21/05	Not Sampled on Current Sample Schedule				
MW - 10	12/16/05	<0.001	<0.001	<0.001	<0.001	
MW - 10	03/20/06	Not Sampled on Current Sample Schedule				
MW - 10	06/21/06	Not Sampled on Current Sample Schedule				
MW - 10	09/27/06	Not Sampled on Current Sample Schedule				
MW - 10	12/04/06	<0.001	<0.001	<0.001	<0.001	
MW - 10	03/14/07	Not Sampled on Current Sample Schedule				
MW - 10	05/29/07	Not Sampled on Current Sample Schedule				
MW - 10	08/30/07	Not Sampled on Current Sample Schedule				
MW - 10	11/12/07	<0.001	<0.001	<0.001	<0.001	
MW - 10	03/07/08	Not Sampled on Current Sample Schedule				
MW - 10	06/02/08	Not Sampled on Current Sample Schedule				
MW - 10	09/03/08	Not Sampled on Current Sample Schedule				
MW - 10	12/08/08	<0.001	<0.001	<0.001	<0.001	
MW - 10	02/19/09	Not Sampled on Current Sample Schedule				
MW - 10	05/20/09	Not Sampled on Current Sample Schedule				
MW - 10	08/12/09	Not Sampled on Current Sample Schedule				
MW - 10	11/25/09	<0.001	<0.001	<0.001	<0.001	
MW - 10	02/11/10	Not Sampled on Current Sample Schedule				

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**TABLE 8**

**HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER**

**PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294**

*All Concentrations are reported in mg/L*

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 10	05/17/10	Not Sampled on Current Sample Schedule				
MW - 10	08/16/10	Not Sampled on Current Sample Schedule				
MW - 10	11/10/10	<0.001	<0.001	<0.001	<0.001	
MW - 10	02/28/11	Not Sampled on Current Sample Schedule				
MW - 10	05/12/11	Not Sampled on Current Sample Schedule				
MW - 10	08/15/11	Not Sampled on Current Sample Schedule				
MW - 10	11/22/11	<0.001	<0.001	<0.001	<0.001	
MW - 10	02/28/12	Not Sampled on Current Sample Schedule				
MW - 10	05/17/12	Not Sampled on Current Sample Schedule				
MW - 10	08/01/12	Not Sampled on Current Sample Schedule				
MW - 10	11/29/12	<0.001	<0.001	<0.001	<0.001	
MW - 10	02/11/13	Not Sampled on Current Sample Schedule				
MW - 10	05/06/13	Not Sampled on Current Sample Schedule				
MW - 10	08/06/13	Not Sampled on Current Sample Schedule				
MW - 10	11/18/13	<0.001	<0.001	<0.001	<0.001	
MW - 10	02/04/14	Not Sampled on Current Sample Schedule				
MW - 10	05/28/14	Not Sampled on Current Sample Schedule				
MW - 10	08/23/14	Not Sampled on Current Sample Schedule				
MW - 10	11/18/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 10	02/19/15	Not Sampled on Current Sample Schedule				
MW - 10	05/12/15	Not Sampled on Current Sample Schedule				
MW - 10	08/18/15	Not Sampled on Current Sample Schedule				
MW - 10	11/23/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 10	02/24/16	Not Sampled on Current Sample Schedule				
MW - 10	06/13/16	Not Sampled on Current Sample Schedule				
MW - 10	08/03/16	Not Sampled on Current Sample Schedule				
MW - 10	11/28/16	<0.00200	<0.00200	<0.00200	<0.00200	
MW - 10	02/21/17	Not Sampled on Current Sample Schedule				
MW - 10	05/24/17	Not Sampled on Current Sample Schedule				
MW - 10	08/11/17	Not Sampled on Current Sample Schedule				
MW - 10	11/28/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 10	02/26/18	Not Sampled on Current Sample Schedule				
MW - 10	05/07/18	Not Sampled on Current Sample Schedule				
MW - 10	08/09/18	Not Sampled on Current Sample Schedule				
MW - 10	11/14/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 10	02/18/19	Not Sampled on Current Sample Schedule				
MW - 10	05/14/19	Not Sampled on Current Sample Schedule				
MW - 10	08/19/19	Not Sampled on Current Sample Schedule				

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 10	11/11/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 10	02/18/20	Not Sampled on Current Sample Schedule				
MW - 10	06/11/20	Not Sampled on Current Sample Schedule				
MW - 10	09/23/20	Not Sampled on Current Sample Schedule				
MW - 10	12/24/20	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 10	03/23/21	Not Sampled on Current Sample Schedule				
MW - 10	06/04/21	Not Sampled on Current Sample Schedule				
MW - 10	09/30/21	Not Sampled on Current Sample Schedule				
MW - 10	12/09/21	<0.00100	<0.00100	0.00392	0.00298	
MW - 10	02/17/22	Not Sampled on Current Sample Schedule				
MW - 10	03/08/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 10	05/18/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 10	08/09/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 10	11/15/22	<0.00100	<0.00100	<0.00100	0.00258	
MW - 10	02/14/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 10	05/16/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 10	08/08/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 10	12/07/23	<0.00100	<0.00100	<0.00100	<0.00200	
<b> </b>						
MW - 11	03/02/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 11	04/25/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 11	09/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 11	11/28/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 11	02/21/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 11	05/31/01	<b>0.015</b>	<0.001	<0.001	<0.001	
MW - 11	08/23/01	0.005	<0.001	<0.001	<0.001	<0.001
MW - 11	11/21/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 11	02/13/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 11	06/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 11	08/26/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 11	11/21/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 11	02/06/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 11	05/07/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 11	08/18/03	0.006	<0.001	<0.001	0.006	<0.001
MW - 11	12/01/03	<b>0.039</b>	<0.001	0.002	0.004	<0.001
MW - 11	02/05/04	<0.001	<0.001	<0.001	0.017	<0.001
MW - 11	05/05/04	<0.001	<0.001	<0.001	0.005	<0.001
MW - 11	09/01/04	<0.001	<0.001	<0.001	0.006	<0.001

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 11	12/15/04	<0.001	<0.001	<0.001	0.002	
MW - 11	03/22/05	<0.001	<0.001	<0.001	<0.001	
MW - 11	06/22/05	<0.001	<0.001	<0.001	<0.001	
MW - 11	09/21/05	<0.001	<0.001	<0.001	<0.001	
MW - 11	12/16/05	<0.001	<0.001	<0.001	<0.001	
MW - 11	03/20/06	<0.001	<0.001	<0.001	<0.001	
MW - 11	06/21/06	<0.001	<0.001	<0.001	<0.001	
MW - 11	09/27/06	Not Sampled on Current Sample Schedule				
MW - 11	12/04/06	<0.001	<0.001	<0.001	<0.001	
MW - 11	03/14/07	Not Sampled on Current Sample Schedule				
MW - 11	05/29/07	Not Sampled on Current Sample Schedule				
MW - 11	08/30/07	Not Sampled on Current Sample Schedule				
MW - 11	11/12/07	<0.001	<0.001	<0.001	<0.001	
MW - 11	03/07/08	Not Sampled on Current Sample Schedule				
MW - 11	06/02/08	Not Sampled on Current Sample Schedule				
MW - 11	09/03/08	Not Sampled on Current Sample Schedule				
MW - 11	12/08/08	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/19/09	Not Sampled on Current Sample Schedule				
MW - 11	05/20/09	Not Sampled on Current Sample Schedule				
MW - 11	08/12/09	Not Sampled on Current Sample Schedule				
MW - 11	11/25/09	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/11/10	Not Sampled on Current Sample Schedule				
MW - 11	05/17/10	Not Sampled on Current Sample Schedule				
MW - 11	08/16/10	Not Sampled on Current Sample Schedule				
MW - 11	11/10/10	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/28/11	Not Sampled on Current Sample Schedule				
MW - 11	05/12/11	Not Sampled on Current Sample Schedule				
MW - 11	08/15/11	Not Sampled on Current Sample Schedule				
MW - 11	11/22/11	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/28/12	Not Sampled on Current Sample Schedule				
MW - 11	05/17/12	Not Sampled on Current Sample Schedule				
MW - 11	08/01/12	Not Sampled on Current Sample Schedule				
MW - 11	11/29/12	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/11/13	Not Sampled on Current Sample Schedule				
MW - 11	05/06/13	Not Sampled on Current Sample Schedule				
MW - 11	08/06/13	Not Sampled on Current Sample Schedule				
MW - 11	11/18/13	0.0023	<0.001	<0.001	<0.00300	
MW - 11	02/04/14	Not Sampled on Current Sample Schedule				

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**TABLE 8**

**HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER**

**PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294**

*All Concentrations are reported in mg/L*

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
NMOCD REGULATORY GUIDELINE		0.01	0.75	0.75	0.62	
MW - 11	05/28/14	Not Sampled on Current Sample Schedule				
MW - 11	08/23/14	Not Sampled on Current Sample Schedule				
MW - 11	11/18/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	02/19/15	Not Sampled on Current Sample Schedule				
MW - 11	05/12/15	Not Sampled on Current Sample Schedule				
MW - 11	08/18/15	Not Sampled on Current Sample Schedule				
MW - 11	11/23/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	02/24/16	Not Sampled on Current Sample Schedule				
MW - 11	06/13/16	Not Sampled on Current Sample Schedule				
MW - 11	08/03/16	Not Sampled on Current Sample Schedule				
MW - 11	11/28/16	<0.00200	<0.00200	<0.00200	<0.00200	
MW - 11	02/21/17	Not Sampled on Current Sample Schedule				
MW - 11	05/24/17	Not Sampled on Current Sample Schedule				
MW - 11	08/11/17	Not Sampled on Current Sample Schedule				
MW - 11	11/28/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 11	02/26/18	Not Sampled on Current Sample Schedule				
MW - 11	05/07/18	Not Sampled on Current Sample Schedule				
MW - 11	08/09/18	Not Sampled on Current Sample Schedule				
MW - 11	11/14/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 11	02/18/19	Not Sampled on Current Sample Schedule				
MW - 11	05/14/19	Not Sampled on Current Sample Schedule				
MW - 11	08/19/19	Not Sampled on Current Sample Schedule				
MW - 11	11/11/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 11	02/18/20	Not Sampled on Current Sample Schedule				
MW - 11	06/11/20	Not Sampled on Current Sample Schedule				
MW - 11	09/23/20	Not Sampled on Current Sample Schedule				
MW - 11	12/24/20	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 11	03/23/21	Not Sampled on Current Sample Schedule				
MW - 11	06/04/21	Not Sampled on Current Sample Schedule				
MW - 11	09/30/21	Not Sampled on Current Sample Schedule				
MW - 11	12/09/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 11	02/17/22	Not Sampled on Current Sample Schedule				
MW - 11	05/16/22	Not Sampled on Current Sample Schedule				
MW - 11	08/08/22	Not Sampled on Current Sample Schedule				
MW - 11	11/16/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 11	02/13/23	Not Sampled on Current Sample Schedule				
MW - 11	05/16/23	Not Sampled on Current Sample Schedule				
MW - 11	08/08/23	Not Sampled on Current Sample Schedule				

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 11	12/08/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 12	03/02/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 12	04/25/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 12	09/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 12	11/28/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 12	02/21/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 12	05/31/01	<0.001	<0.001	<0.001	<0.001	
MW - 12	08/23/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 12	11/21/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 12	02/13/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 12	06/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 12	08/26/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 12	11/21/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 12	02/06/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 12	05/07/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 12	08/18/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 12	12/01/03	0.002	0.001	<0.001	<0.002	<0.001
MW - 12	02/05/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 12	12/15/04	<0.001	<0.001	<0.001	<0.001	
MW - 12	03/22/05	Not Sampled on Current Sample Schedule				
MW - 12	06/22/05	Not Sampled on Current Sample Schedule				
MW - 12	09/21/05	Not Sampled on Current Sample Schedule				
MW - 12	12/16/05	<0.001	<0.001	<0.001	<0.001	
MW - 12	03/20/06	Not Sampled on Current Sample Schedule				
MW - 12	06/21/06	Not Sampled on Current Sample Schedule				
MW - 12	09/27/06	Not Sampled on Current Sample Schedule				
MW - 12	12/04/06	<0.001	<0.001	<0.001	<0.001	
MW - 12	03/14/07	Not Sampled on Current Sample Schedule				
MW - 12	05/29/07	Not Sampled on Current Sample Schedule				
MW - 12	08/30/07	Not Sampled on Current Sample Schedule				
MW - 12	11/12/07	<0.001	<0.001	<0.001	<0.001	
MW - 12	03/07/08	Not Sampled on Current Sample Schedule				
MW - 12	06/02/08	Not Sampled on Current Sample Schedule				
MW - 12	09/04/08	Not Sampled on Current Sample Schedule				
MW - 12	12/08/08	<0.001	<0.001	<0.001	0.007	
MW - 12	02/19/09	<0.001	<0.001	<0.001	<0.001	
MW - 12	05/20/09	Not Sampled on Current Sample Schedule				



TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 12	08/12/09	Not Sampled on Current Sample Schedule				
MW - 12	11/25/09	<0.001	<0.001	<0.001	<0.001	
MW - 12	02/11/10	Not Sampled on Current Sample Schedule				
MW - 12	05/17/10	Not Sampled on Current Sample Schedule				
MW - 12	08/16/10	Not Sampled on Current Sample Schedule				
MW - 12	11/10/10	<0.001	<0.001	<0.001	<0.001	
MW - 12	02/28/11	Not Sampled on Current Sample Schedule				
MW - 12	05/12/11	Not Sampled on Current Sample Schedule				
MW - 12	08/15/11	Not Sampled on Current Sample Schedule				
MW - 12	11/22/11	<0.001	<0.001	<0.001	<0.001	
MW - 12	02/28/12	Not Sampled on Current Sample Schedule				
MW - 12	05/17/12	Not Sampled on Current Sample Schedule				
MW - 12	08/01/12	Not Sampled on Current Sample Schedule				
MW - 12	11/29/12	<0.001	<0.001	<0.001	<0.001	
MW - 12	02/11/13	Not Sampled on Current Sample Schedule				
MW - 12	05/06/13	Not Sampled on Current Sample Schedule				
MW - 12	08/06/13	Not Sampled on Current Sample Schedule				
MW - 12	11/18/13	<b>0.386</b>	<0.001	0.0412	0.0058	
MW - 12	12/08/13	<0.00100	<0.001	<0.00100	<0.00300	
MW - 12	02/04/14	Not Sampled on Current Sample Schedule				
MW - 12	05/28/14	Not Sampled on Current Sample Schedule				
MW - 12	08/23/14	Not Sampled on Current Sample Schedule				
MW - 12	11/18/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 12	02/19/15	Not Sampled on Current Sample Schedule				
MW - 12	05/12/15	Not Sampled on Current Sample Schedule				
MW - 12	08/18/15	Not Sampled on Current Sample Schedule				
MW - 12	11/23/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 12	02/24/16	Not Sampled on Current Sample Schedule				
MW - 12	06/13/16	Not Sampled on Current Sample Schedule				
MW - 12	08/03/16	Not Sampled on Current Sample Schedule				
MW - 12	11/28/16	<0.00200	<0.00200	<0.00200	<0.00200	
MW - 12	02/21/17	Not Sampled on Current Sample Schedule				
MW - 12	05/24/17	Not Sampled on Current Sample Schedule				
MW - 12	08/11/17	Not Sampled on Current Sample Schedule				
MW - 12	11/28/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 12	02/26/18	Not Sampled on Current Sample Schedule				
MW - 12	05/07/18	Not Sampled on Current Sample Schedule				
MW - 12	08/09/18	Not Sampled on Current Sample Schedule				

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 12	11/14/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 12	02/18/19	Not Sampled on Current Sample Schedule				
MW - 12	05/14/19	Not Sampled on Current Sample Schedule				
MW - 12	08/19/19	Not Sampled on Current Sample Schedule				
MW - 12	11/11/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 12	02/18/20	Not Sampled on Current Sample Schedule				
MW - 12	06/11/20	Not Sampled on Current Sample Schedule				
MW - 12	09/23/20	Not Sampled on Current Sample Schedule				
MW - 12	12/24/20	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 12	03/23/21	Not Sampled on Current Sample Schedule				
MW - 12	06/04/21	Not Sampled on Current Sample Schedule				
MW - 12	09/30/21	Not Sampled on Current Sample Schedule				
MW - 12	12/09/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 12	02/17/22	Not Sampled on Current Sample Schedule				
MW - 12	05/16/22	Not Sampled on Current Sample Schedule				
MW - 12	08/08/22	Not Sampled on Current Sample Schedule				
MW - 12	11/16/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 12	02/13/23	Not Sampled on Current Sample Schedule				
MW - 12	05/16/23	Not Sampled on Current Sample Schedule				
MW - 12	08/08/23	Not Sampled on Current Sample Schedule				
MW - 12	12/08/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 13	03/02/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 13	04/25/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 13	09/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 13	11/28/00	0.004	<0.001	<0.001	<0.001	<0.001
MW - 13	02/21/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 13	05/31/01	<0.001	<0.001	<0.001	<0.001	
MW - 13	08/23/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 13	11/21/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 13	02/13/02	0.007	<0.001	<0.001	<0.001	<0.001
MW - 13	06/12/02	<b>0.115</b>	<0.001	<0.001	0.013	<0.001
MW - 13	08/26/02	<b>0.046</b>	<0.001	<0.001	0.024	<0.001
MW - 13	11/21/02	<b>0.010</b>	<0.001	<0.001	0.045	<0.001
MW - 13	02/06/03	<0.001	<0.001	<0.001	0.028	<0.001
MW - 13	05/07/03	0.003	<0.001	<0.001	0.019	<0.001
MW - 13	08/18/03	0.002	<0.001	<0.001	0.035	<0.001
MW - 13	12/01/03	<0.001	<0.001	<0.001	0.018	<0.001

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 13	02/05/04	0.002	<0.001	0.001	0.053	<0.001
MW - 13	05/05/04	<0.001	<0.001	0.001	0.002	<0.001
MW - 13	09/01/04	<0.001	<0.001	0.002	0.016	<0.001
MW - 13	12/15/04	<0.001	<0.001	<0.001	0.002	
MW - 13	03/22/05	<0.001	<0.001	<0.001	<0.001	
MW - 13	06/22/05	<0.001	<0.001	<0.001	0.005	
MW - 13	09/21/05	<0.001	<0.001	<0.001	0.003	
MW - 13	12/16/05	<0.001	<0.001	<0.001	0.0074	
MW - 13	03/20/06	0.001	<0.001	0.001	0.0106	
MW - 13	06/21/06	0.008	<0.001	0.003	0.0064	
MW - 13	09/27/06	<b>0.103</b>	<0.001	0.011	0.0115	
MW - 13	12/04/06	<b>0.293</b>	<0.001	0.011	0.0094	
MW - 13	03/14/07	<b>0.530</b>	<0.005	0.029	0.0161	
MW - 13	05/29/07	<b>0.496</b>	<0.005	<0.005	<0.005	
MW - 13	08/30/07	<b>0.609</b>	<0.005	0.0201	<0.005	
MW - 13	11/12/07	<b>0.350</b>	<0.005	<0.005	<0.005	
MW - 13	03/07/08	<b>0.0279</b>	<0.005	<0.005	<0.005	
MW - 13	06/02/08	<b>0.662</b>	<0.001	0.0173	<0.010	
MW - 13	09/03/08	<b>0.974</b>	<0.005	0.0143	0.0206	
MW - 13	12/08/08	<b>1.200</b>	<0.005	<0.005	<0.005	
MW - 13	02/19/09	<b>0.548</b>	<0.005	<0.005	0.0151	
MW - 13	05/20/09	<b>0.667</b>	<0.005	0.072	0.1920	
MW - 13	08/12/09	<b>1.470</b>	<0.005	0.047	0.1630	
MW - 13	11/25/09	<b>1.420</b>	<0.005	<0.005	<0.005	
MW - 13	02/11/10	<b>1.920</b>	<0.005	<0.005	<0.005	
MW - 13	05/17/10	<b>0.666</b>	<0.005	<0.005	<0.005	
MW - 13	08/16/10	<b>1.810</b>	<0.0200	0.0367	<0.0200	
MW - 13	11/10/10	<b>2.040</b>	<0.0200	<0.0200	<0.0200	
MW - 13	02/28/11	<b>2.160</b>	<0.005	0.0426	<0.005	
MW - 13	05/12/11	<b>3.130</b>	<0.0200	0.2550	<0.0200	
MW - 13	08/15/11	<b>0.738</b>	<0.0200	<0.0200	<0.0200	
MW - 13	11/22/11	<b>0.810</b>	<0.0200	0.0714	<0.0200	
MW - 13	02/28/12	<b>0.347</b>	0.140	0.1750	0.4490	
MW - 13	05/17/12	0.0059	<0.001	<0.001	<0.001	
MW - 13	08/01/12	<0.001	<0.001	<0.001	<0.001	
MW - 13	11/29/12	<0.001	<0.001	<0.001	<0.001	
MW - 13	02/11/13	<0.001	<0.001	<0.001	<0.001	
MW - 13	05/06/13	<0.001	<0.001	<0.001	<0.001	

TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030			
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>
MW - 13	08/06/13	<0.001	<0.001	<0.001	<0.001
MW - 13	11/19/13	<0.001	<0.001	<0.001	<0.001
MW - 13	02/04/14	<0.00100	<0.00100	<0.00100	<0.00300
MW - 13	05/28/14	<0.00100	<0.00100	<0.00100	<0.00300
MW - 13	08/23/14	<0.00100	<0.00100	<0.00100	<0.00100
MW - 13	11/18/14	<0.00100	<0.00100	<0.00100	<0.00100
MW - 13	02/19/15	<0.00100	<0.00100	<0.00100	<0.00100
MW - 13	05/12/15	<0.00100	<0.00100	<0.00100	<0.00100
MW - 13	08/18/15	<0.00100	<0.00100	<0.00100	<0.00100
MW - 13	11/23/15	<0.00100	<0.00100	<0.00100	<0.00100
MW - 13	02/24/16	<0.00100	<0.00100	<0.00100	<0.00100
MW - 13	06/13/16	<0.00100	<0.00100	<0.00100	<0.00100
MW - 13	08/03/16	<0.00100	<0.00100	<0.00100	<0.00100
MW - 13	11/28/16	<0.00200	<0.00200	<0.00200	<0.00200
MW - 13	02/21/17	<0.00200	<0.00200	<0.00200	<0.00200
MW - 13	05/24/17	<0.00200	<0.00200	<0.00200	<0.00400
MW - 13	08/11/17	<0.00200	<0.00200	<0.00200	<0.00400
MW - 13	11/28/17	<0.00200	<0.00200	<0.00200	<0.00400
MW - 13	02/26/18	<0.00200	<0.00200	<0.00200	<0.00400
MW - 13	05/07/18	<0.00200	<0.00200	<0.00200	<0.00400
MW - 13	08/09/18	<0.00100	<0.0100	<0.00500	<0.0200
MW - 13	11/14/18	<0.00100	<0.0100	<0.00500	<0.0200
MW - 13	02/18/19	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	05/14/19	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	08/19/19	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	11/11/19	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	02/18/20	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	06/11/20	<0.000500	<0.00100	<0.00100	<0.00200
MW - 13	09/23/20	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	12/04/20	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	03/23/21	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	06/04/21	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	09/30/21	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	12/09/21	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	02/17/22	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	05/17/22	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	08/08/22	<0.00100	<0.00100	<0.00100	<0.00200
MW - 13	11/16/22	<0.00100	<0.00100	<0.00100	<0.00200

TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 13	02/13/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 13	05/16/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 13	08/08/23	<0.00100	0.00104	<0.00100	0.00416	
MW - 13	12/08/23	<0.00100	<0.00100	<0.00100	<0.00200	
<b>MW - 14</b>						
MW - 14	03/02/00	<b>0.141</b>	0.032	0.056	0.038	0.008
MW - 14	04/25/00	<b>0.368</b>	0.045	0.106	0.061	0.017
MW - 14	09/06/00	<b>0.609</b>	0.015	0.124	0.024	0.020
MW - 14	11/28/00	<b>0.691</b>	0.022	0.107	0.038	0.034
MW - 14	02/21/01	<b>0.921</b>	0.061	0.194	0.114	0.088
MW - 14	05/31/01	<b>1.030</b>	0.223	0.172	0.339	
MW - 14	08/23/01	<b>1.780</b>	<b>0.865</b>	0.315	<b>0.491</b>	<b>0.235</b>
MW - 14	11/21/01	<b>0.623</b>	0.301	0.131	0.162	0.068
MW - 14	02/13/02	<b>0.572</b>	0.414	0.142	0.213	0.093
MW - 14	06/12/02	<b>0.718</b>	0.470	0.144	0.187	0.087
MW - 14	08/26/02	<b>0.606</b>	0.355	0.147	0.188	0.089
MW - 14	11/21/02	<b>0.850</b>	0.666	0.178	0.350	0.175
MW - 14	02/06/03	<b>1.100</b>	0.651	0.256	<b>0.450</b>	<b>0.243</b>
MW - 14	05/07/03	<b>1.880</b>	<b>1.180</b>	0.463	<b>0.839</b>	<b>0.470</b>
MW - 14	08/18/03	<b>0.833</b>	0.242	0.235	0.366	0.213
MW - 14	12/01/03	<b>0.791</b>	0.319	0.211	0.397	0.191
MW - 14	02/05/04	<b>0.763</b>	<b>0.819</b>	0.226	0.492	0.218
MW - 14	05/05/04	<b>0.811</b>	0.234	0.233	<b>0.580</b>	<b>0.275</b>
MW - 14	12/15/04	<b>0.071</b>	0.019	0.021	0.078	
MW - 14	03/22/05	<b>0.274</b>	0.017	0.049	0.313	
MW - 14	06/22/05	<b>0.543</b>	0.283	0.379	<b>1.130</b>	
MW - 14	09/21/05	<b>0.413</b>	0.159	0.318	<b>0.996</b>	
MW - 14	12/16/05	<b>0.361</b>	0.279	0.291	<b>0.956</b>	
MW - 14	03/20/06	<b>0.405</b>	0.300	0.321	<b>1.040</b>	
MW - 14	06/21/06	<b>0.414</b>	0.352	0.322	<b>1.060</b>	
MW - 14	09/27/06	<b>0.063</b>	0.096	0.075	0.222	
MW - 14	12/04/06	<b>0.249</b>	0.157	0.263	<b>0.954</b>	
MW - 14	03/14/07	<b>0.194</b>	0.292	0.220	<b>0.751</b>	
MW - 14	05/29/07	<b>0.212</b>	0.097	0.251	<b>0.807</b>	
MW - 14	08/30/07	<b>0.129</b>	0.0891	0.211	<b>0.671</b>	
MW - 14	11/12/07	<b>0.092</b>	0.0249	0.196	<b>0.634</b>	
MW - 14	03/07/08	<b>0.0338</b>	<0.001	0.0609	<b>0.464</b>	
MW - 14	06/02/08	<b>0.0920</b>	0.0310	0.1470	<b>0.480</b>	

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030			
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES
NMOCD REGULATORY GUIDELINE		0.01	0.75	0.75	0.62
MW - 14	09/03/08	0.0933	0.0025	0.2080	0.787
MW - 14	12/08/08	0.0264	<0.001	0.0908	0.399
MW - 14	02/19/09	Not Sampled			
MW - 14	05/20/09	0.0456	0.0053	0.1500	0.580
MW - 14	08/12/09	0.0439	<0.001	0.1570	0.669
MW - 14	11/25/09	0.0181	<0.001	0.0102	0.167
MW - 14	05/17/10	0.0107	<0.001	0.0681	0.248
MW - 14	08/16/10	<0.001	0.0024	0.0372	0.134
MW - 14	11/10/10	0.0057	<0.001	0.0127	0.0494
MW - 14	02/28/11	Not Sampled			
MW - 14	05/12/11	0.0116	<0.001	0.0575	0.1050
MW - 14	08/15/11	<0.001	<0.001	<0.001	<0.001
MW - 14	11/22/11	0.0026	<0.001	0.0166	0.0318
MW - 14	02/28/12	<0.001	<0.001	0.0242	0.0670
MW - 14	05/17/12	<0.001	<0.001	<0.001	0.0017
MW - 14	08/01/12	<0.001	<0.001	<0.001	<0.001
MW - 14	11/29/12	<0.001	<0.001	0.0035	0.0088
MW - 14	02/11/13	<0.001	<0.001	0.0173	0.0444
MW - 14	05/06/13	<0.001	<0.001	0.00740	0.0204
MW - 14	08/06/13	<0.001	<0.001	0.0169	0.0473
MW - 14	11/19/13	0.0019	<0.001	<0.001	<0.00300
MW - 14	02/04/14	0.00130	<0.00100	0.00160	0.0219
MW - 14	05/28/14	<0.00100	<0.00100	<0.00100	0.0158
MW - 14	08/23/14	<0.00100	<0.00100	<0.00100	<0.00100
MW - 14	11/18/14	<0.00100	<0.00100	<0.00100	0.0412
MW - 14	02/19/15	<0.00100	<0.00100	0.00390	0.0254
MW - 14	05/12/15	0.00210	<0.00100	0.00850	0.0445
MW - 14	08/18/15	<0.00100	<0.00100	<0.00100	0.0126
MW - 14	11/23/15	<0.00100	<0.00100	0.00190	0.0183
MW - 14	02/24/16	<0.00100	<0.00100	<0.00100	0.00370
MW - 14	06/13/16	<0.00100	<0.00100	0.00190	0.0183
MW - 14	08/03/16	<0.00100	<0.00100	<0.00100	<0.00100
MW - 14	11/28/16	<0.00200	<0.00200	<0.00200	<0.00200
MW - 14	02/21/17	<0.00200	<0.00200	0.00421	0.00435
MW - 14	05/24/17	<0.00200	<0.00200	<0.00200	<0.00400
MW - 14	08/11/17	<0.00200	<0.00200	<0.00200	<0.00400
MW - 14	11/28/17	<0.00200	<0.00200	<0.00200	<0.00400
MW - 14	02/26/18	<0.00200	<0.00200	<0.00200	<0.00400

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
NMOCD REGULATORY GUIDELINE		0.01	0.75	0.75	0.62	
MW - 14	05/07/18	<0.00200	<0.00200	<0.00200	0.00577	
MW - 14	08/09/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 14	11/14/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 14	02/18/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 14	05/14/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 14	08/19/19	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 14	11/11/19	<0.00100	<0.00100	0.00111	0.00665	
MW - 14	02/18/20	<0.00100	<0.00100	<0.00100	0.00398	
MW - 14	06/11/20	0.00194	0.00180	0.00198	0.00523	
MW - 14	09/23/20	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 14	12/04/20	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 14	03/23/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 14	06/04/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 14	09/30/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 14	12/09/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 14	02/17/22	<0.00100	<0.00100	<0.00100	0.00218	
MW - 14	03/08/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 14	05/16/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 14	08/09/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 14	11/15/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 14	02/14/23	<0.00100	<0.00100	0.00114	0.00409	
MW - 14	05/16/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 14	08/08/23	<0.00100	<0.00100	0.00470	0.02543	
MW - 14	12/07/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 15	03/02/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 15	04/25/00	<b>0.649</b>	<0.001	<0.001	0.018	0.019
MW - 15	09/06/00	<b>0.010</b>	<0.001	0.003	0.024	<0.001
MW - 15	11/28/00	<b>1.380</b>	<0.010	<0.010	0.031	<0.010
MW - 15	02/21/01	<b>2.870</b>	<0.010	0.011	0.058	<0.010
MW - 15	05/31/01	<b>3.830</b>	<0.001	0.049	0.101	
MW - 15	08/23/01	<b>4.600</b>	0.001	0.077	0.075	0.009
MW - 15	11/21/01	<b>4.000</b>	0.012	0.117	0.084	0.039
MW - 15	02/13/02	<b>2.910</b>	0.020	0.128	0.063	0.060
MW - 15	06/12/02	<b>5.430</b>	0.004	0.216	0.032	0.057
MW - 15	08/26/02	<b>4.590</b>	0.002	0.183	0.230	0.300
MW - 15	11/21/02	<b>8.130</b>	0.002	0.384	0.009	<0.001
MW - 15	02/06/03	<b>2.070</b>	<0.001	0.041	0.010	<0.001

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 15	05/07/03	1.890	<0.001	0.006	<0.001	<0.001
MW - 15	08/18/03	1.910	0.001	0.122	0.006	<0.001
MW - 15	12/01/03	1.190	<0.001	0.057	0.006	<0.001
MW - 15	02/05/04	3.680	0.016	0.191	0.043	0.016
MW - 15	05/05/04	1.700	0.026	0.085	0.030	0.027
MW - 15	12/15/04	0.545	<0.0200	<0.0200	<0.0200	
MW - 15	03/22/05	2.380	0.057	0.163	0.140	
MW - 15	06/22/05	7.790	0.125	0.427	0.528	
MW - 15	09/21/05	4.470	<0.1	0.241	0.303	
MW - 15	12/16/05	5.650	0.103	0.273	0.275	
MW - 15	03/20/06	4.720	<0.2	0.217	0.337	
MW - 15	06/21/06	3.060	<0.2	<0.2	<0.2	
MW - 15	09/27/06	0.806	<0.02	0.031	0.065	
MW - 15	12/04/06	2.950	<0.02	0.224	0.346	
MW - 15	03/14/07	1.82	<0.05	0.144	0.138	
MW - 15	05/29/07	3.73	<0.2	<0.2	<0.2	
MW - 15	08/30/07	2.330	<0.002	0.184	0.175	
MW - 15	11/12/07	4.370	<0.05	0.487	0.621	
MW - 15	03/07/08	0.556	<0.05	<0.05	0.135	
MW - 15	06/02/08	1.880	<0.010	0.164	0.210	
MW - 15	09/03/08	4.310	<0.0200	0.348	0.387	
MW - 15	12/08/08	2.870	<0.0200	0.230	0.181	
MW - 15	02/19/09	0.673	<0.005	0.0472	0.0094	
MW - 15	05/20/09	2.050	<0.005	0.2190	0.1430	
MW - 15	08/12/09	0.510	<0.005	0.0523	0.0653	
MW - 15	11/25/09	1.390	<0.005	0.0820	0.0206	
MW - 15	02/11/10	1.640	<0.005	0.1410	0.0821	
MW - 15	05/21/10	0.787	<0.005	0.0366	0.0447	
MW - 15	08/16/10	0.819	<0.0100	0.0350	0.0217	
MW - 15	11/10/10	0.0785	<0.0100	<0.0100	<0.0100	
MW - 15	02/28/11	0.500	<0.0200	<0.0200	<0.0200	
MW - 15	05/12/11	4.210	<0.0200	0.3500	0.4040	
MW - 15	08/15/11	1.050	<0.0200	<0.0200	<0.0200	
MW - 15	11/22/11	1.490	<0.0200	0.0731	0.0676	
MW - 15	02/28/12	0.303	<0.0200	0.1470	0.4200	
MW - 15	05/17/12	<0.001	<0.001	<0.001	<0.001	
MW - 15	08/01/12	<0.001	<0.001	<0.001	<0.001	
MW - 15	11/29/12	<0.001	<0.001	<0.001	<0.001	

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030			
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>
MW - 15	02/11/13	<0.001	<0.001	<0.001	<0.001
MW - 15	05/06/13	<0.001	<0.001	<0.001	<0.001
MW - 15	08/06/13	<0.001	<0.001	<0.001	<0.001
MW - 15	11/19/13	<b>0.0194</b>	<0.001	0.0031	<0.001
MW - 15	12/08/13	<0.00100	<0.001	0.00710	<0.00300
MW - 15	02/04/14	<0.00100	<0.00100	0.00150	<0.00300
MW - 15	05/28/14	<b>0.394</b>	<0.00100	0.0130	<0.00300
MW - 15	08/23/14	<b>0.0254</b>	<0.00100	<0.00100	<0.00100
MW - 15	11/18/14	<b>0.366</b>	<0.00100	0.0249	<0.00100
MW - 15	02/19/15	<b>0.164</b>	<0.00100	0.0104	<0.00100
MW - 15	05/12/15	<0.00100	<0.00100	<0.00100	0.00440
MW - 15	08/18/15	<0.00100	<0.00100	<0.00100	<0.00100
MW - 15	11/23/15	<0.00100	<0.00100	<0.00100	<0.00100
MW - 15	02/24/16	<0.00100	<0.00100	<0.00100	<0.00100
MW - 15	06/13/16	<0.00100	<0.00100	<0.00100	<0.00100
MW - 15	08/03/16	<0.00100	<0.00100	<0.00100	<0.00100
MW - 15	11/28/16	<0.00200	<0.00200	<0.00200	<0.00200
MW - 15	02/21/17	<0.00200	<0.00200	<0.00200	<0.00200
MW - 15	05/24/17	<0.00200	<0.00200	<0.00200	<0.00400
MW - 15	08/11/17	<0.00200	<0.00200	<0.00200	<0.00400
MW - 15	11/28/17	<0.00200	<0.00200	<0.00200	<0.00400
MW - 15	02/26/18	<0.00200	<0.00200	<0.00200	<0.00400
MW - 15	05/07/18	<0.00200	<0.00200	<0.00200	<0.00400
MW - 15	08/09/18	<0.00100	<0.0100	<0.00500	<0.0200
MW - 15	11/14/18	<0.00100	<0.0100	<0.00500	<0.0200
MW - 15	02/18/19	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	05/14/19	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	08/19/19	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	11/11/19	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	02/18/20	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	06/11/20	<0.000500	<0.00100	<0.00100	<0.00200
MW - 15	09/23/20	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	12/04/20	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	03/23/21	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	06/04/21	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	09/30/21	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	12/09/21	<0.00100	<0.00100	<0.00100	<0.00200
MW - 15	02/17/22	<0.00100	<0.00100	<0.00100	<0.00200

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 15	03/08/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 15	05/18/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 15	08/09/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 15	11/15/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 15	02/14/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 15	05/16/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 15	08/08/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 15	12/07/23	<0.00100	<0.00100	<0.00100	<0.00200	
<b> </b>						
MW - 16	01/10/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 16	05/07/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 16	08/18/03	0.008	0.003	<0.001	0.002	<0.001
MW - 16	12/01/03	<b>0.014</b>	0.005	0.003	0.005	0.003
MW - 16	02/05/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 16	05/05/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 16	12/15/04	<0.001	<0.001	<0.001	<0.001	
MW - 16	03/22/05	<0.001	<0.001	<0.001	<0.001	
MW - 16	06/22/05	<0.001	<0.001	<0.001	<0.001	
MW - 16	09/21/05	<0.005	<0.005	<0.005	<0.005	
MW - 16	12/16/05	<0.005	<0.005	<0.005	<0.005	
MW - 16	03/20/06	<0.005	<0.005	<0.005	<0.005	
MW - 16	06/21/06	<0.001	<0.001	<0.001	<0.001	
MW - 16	09/27/06	Not Sampled on Current Sample Schedule				
MW - 16	12/04/06	<0.001	<0.001	<0.001	<0.001	
MW - 16	03/14/07	Not Sampled on Current Sample Schedule				
MW - 16	05/29/07	<0.001	<0.001	<0.001	<0.001	
MW - 16	08/30/07	Not Sampled on Current Sample Schedule				
MW - 16	11/12/07	<0.001	<0.001	<0.001	<0.001	
MW - 16	03/07/08	Not Sampled on Current Sample Schedule				
MW - 16	06/02/08	Not Sampled on Current Sample Schedule				
MW - 16	09/03/08	<0.001	<0.001	<0.001	<0.001	
MW - 16	12/08/08	<0.001	<0.001	<0.001	<0.001	
MW - 16	02/19/09	Not Sampled on Current Sample Schedule				
MW - 16	05/20/09	<0.001	<0.001	<0.001	<0.001	
MW - 16	08/12/09	Not Sampled on Current Sample Schedule				
MW - 16	11/25/09	<0.001	<0.001	<0.001	<0.001	
MW - 16	02/11/10	Not Sampled on Current Sample Schedule				
MW - 16	05/21/10	<0.001	<0.001	<0.001	<0.001	

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 16	08/16/10	Not Sampled on Current Sample Schedule				
MW - 16	11/10/10	<0.001	<0.001	<0.001	<0.001	
MW - 16	02/28/11	Not Sampled on Current Sample Schedule				
MW - 16	05/12/11	<0.001	<0.001	<0.001	<0.001	
MW - 16	08/15/11	Not Sampled on Current Sample Schedule				
MW - 16	11/22/11	<0.001	<0.001	<0.001	<0.001	
MW - 16	02/28/12	Not Sampled on Current Sample Schedule				
MW - 16	05/17/12	<0.001	<0.001	<0.001	<0.001	
MW - 16	08/01/12	Not Sampled on Current Sample Schedule				
MW - 16	11/29/12	<0.001	<0.001	<0.001	<0.001	
MW - 16	02/11/13	Not Sampled on Current Sample Schedule				
MW - 16	05/06/13	<0.001	<0.001	<0.001	<0.001	
MW - 16	08/06/13	Not Sampled on Current Sample Schedule				
MW - 16	11/19/13	<0.001	<0.001	<0.001	<0.001	
MW - 16	02/04/14	Not Sampled on Current Sample Schedule				
MW - 16	05/28/14	Not Sampled on Current Sample Schedule				
MW - 16	08/23/14	Not Sampled on Current Sample Schedule				
MW - 16	11/18/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 16	02/19/15	Not Sampled on Current Sample Schedule				
MW - 16	05/12/15	Not Sampled on Current Sample Schedule				
MW - 16	08/18/15	Not Sampled on Current Sample Schedule				
MW - 16	11/23/15	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 16	02/24/16	Not Sampled on Current Sample Schedule				
MW - 16	06/13/16	Not Sampled on Current Sample Schedule				
MW - 16	08/03/16	Not Sampled on Current Sample Schedule				
MW - 16	11/28/16	<0.00200	<0.00200	<0.00200	<0.00200	
MW - 16	02/21/17	Not Sampled on Current Sample Schedule				
MW - 16	05/24/17	Not Sampled on Current Sample Schedule				
MW - 16	08/11/17	Not Sampled on Current Sample Schedule				
MW - 16	11/28/17	<0.00200	<0.00200	<0.00200	<0.00400	
MW - 16	02/26/18	Not Sampled on Current Sample Schedule				
MW - 16	05/07/18	Not Sampled on Current Sample Schedule				
MW - 16	08/09/18	Not Sampled on Current Sample Schedule				
MW - 16	11/14/18	<0.00100	<0.0100	<0.00500	<0.0200	
MW - 16	02/18/19	Not Sampled on Current Sample Schedule				
MW - 16	05/14/19	Not Sampled on Current Sample Schedule				
MW - 16	08/19/19	Not Sampled on Current Sample Schedule				
MW - 16	11/11/19	<0.00100	<0.00100	<0.00100	<0.00200	

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW - 16	02/18/20	Not Sampled on Current Sample Schedule				
MW - 16	06/11/20	Not Sampled on Current Sample Schedule				
MW - 16	09/23/20	Not Sampled on Current Sample Schedule				
MW - 16	12/24/20	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 16	03/23/21	Not Sampled on Current Sample Schedule				
MW - 16	06/04/21	Not Sampled on Current Sample Schedule				
MW - 16	09/30/21	Not Sampled on Current Sample Schedule				
MW - 16	12/09/21	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 16	02/17/22	Not Sampled on Current Sample Schedule				
MW - 16	05/16/22	Not Sampled on Current Sample Schedule				
MW - 16	08/08/22	Not Sampled on Current Sample Schedule				
MW - 16	11/16/22	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 16	02/13/23	Not Sampled on Current Sample Schedule				
MW - 16	05/16/23	Not Sampled on Current Sample Schedule				
MW - 16	08/08/23	Not Sampled on Current Sample Schedule				
MW - 16	12/08/23	<0.00100	<0.00100	<0.00100	<0.00200	
MW - 17	01/10/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 17	05/07/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 17	08/18/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 17	12/01/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 17	02/05/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 17	05/05/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 17	09/01/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 17	12/15/04	<0.001	<0.001	<0.001	<0.001	
MW - 17	03/22/05	<0.001	<0.001	<0.001	<0.001	
MW - 17	06/22/05	<0.001	<0.001	<0.001	<0.001	
MW - 17	09/21/05	<0.001	<0.001	<0.001	<0.001	
MW - 17	12/16/05	<0.001	<0.001	<0.001	<0.001	
MW - 17	03/20/06	<0.001	<0.001	<0.001	<0.001	
MW - 17	06/21/06	Not Sampled				
MW - 17	08/09/06	Plugged and Abandoned				
MW - 18	08/12/09	<0.001	<0.001	<0.001	<0.001	
MW - 18	11/25/09	<0.001	<0.001	<0.001	<0.001	
MW - 18	02/11/10	<0.001	<0.001	<0.001	<0.001	
MW - 18	05/17/10	<0.001	<0.001	<0.001	<0.001	
MW - 18	08/16/10	<0.001	<0.001	<0.001	<0.001	



TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030			
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>
MW - 18	11/10/10	<0.001	<0.001	<0.001	<0.001
MW - 18	02/28/11	<0.001	<0.001	<0.001	<0.001
MW - 18	05/12/11	<0.001	<0.001	<0.001	<0.001
MW - 18	08/15/11	<0.001	<0.001	<0.001	<0.001
MW - 18	11/22/11	<0.001	<0.001	<0.001	<0.001
MW - 18	02/28/12	<0.001	<0.001	<0.001	<0.001
MW - 18	05/17/12	<0.001	<0.001	<0.001	<0.001
MW - 18	08/01/12	<0.001	<0.001	<0.001	<0.001
MW - 18	11/29/12	<0.001	<0.001	<0.001	<0.001
MW - 18	02/11/13	<0.001	<0.001	<0.001	<0.001
MW - 18	05/06/13	<0.001	<0.001	<0.001	<0.001
MW - 18	08/06/13	<0.001	<0.001	<0.001	<0.001
MW - 18	11/19/13	<0.001	<0.001	<0.001	<0.001
MW - 18	02/04/14	<0.00100	<0.00100	<0.00100	<0.00300
MW - 18	05/28/14	<0.00100	<0.00100	<0.00100	<0.00300
MW - 18	08/23/14	<0.00100	<0.00100	<0.00100	<0.00100
MW - 18	11/18/14	<0.00100	<0.00100	<0.00100	<0.00100
MW - 18	02/19/15	<0.00100	<0.00100	<0.00100	<0.00100
MW - 18	05/12/15	<0.00100	<0.00100	<0.00100	<0.00100
MW - 18	08/18/15	<0.00100	<0.00100	<0.00100	<0.00100
MW - 18	11/23/15	<0.00100	<0.00100	<0.00100	<0.00100
MW - 18	02/24/16	<0.00100	<0.00100	<0.00100	<0.00100
MW - 18	06/13/16	<0.00100	<0.00100	<0.00100	<0.00100
MW - 18	08/03/16	<0.00100	<0.00100	<0.00100	<0.00100
MW - 18	11/28/16	<0.00200	<0.00200	<0.00200	<0.00200
MW - 18	02/21/17	<0.00200	<0.00200	<0.00200	<0.00200
MW - 18	05/24/17	<0.00200	<0.00200	<0.00200	<0.00400
MW - 18	08/11/17	<0.00200	<0.00200	<0.00200	<0.00400
MW - 18	11/28/17	<0.00200	<0.00200	<0.00200	<0.00400
MW - 18	02/26/18	<0.00200	<0.00200	<0.00200	<0.00400
MW - 18	05/07/18	<0.00200	<0.00200	<0.00200	<0.00400
MW - 18	08/09/18	<0.00100	<0.0100	<0.00500	<0.0200
MW - 18	11/14/18	<0.00100	<0.0100	<0.00500	<0.0200
MW - 18	02/18/19	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	05/14/19	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	08/19/19	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	11/11/19	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	02/18/20	<0.00100	<0.00100	<0.00100	<0.00200

TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030			
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>
MW - 18	06/11/20	<0.000500	<0.00100	<0.00100	<0.00200
MW - 18	09/23/20	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	12/04/20	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	03/23/21	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	06/04/21	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	09/30/21	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	12/09/21	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	02/17/22	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	05/17/22	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	08/08/22	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	11/16/22	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	02/13/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	05/16/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	08/08/23	<0.00100	<0.00100	<0.00100	<0.00200
MW - 18	12/08/23	<0.00100	<0.00100	<0.00100	<0.00200
RW - 1	03/22/05	Not Sampled Due to PSH in Well			
RW - 1	06/22/05	Not Sampled Due to PSH in Well			
RW - 1	09/21/05	Not Sampled Due to PSH in Well			
RW - 1	12/16/05	Not Sampled Due to PSH in Well			
RW - 1	03/20/06	Not Sampled Due to PSH in Well			
RW - 1	06/21/06	Not Sampled Due to PSH in Well			
RW - 1	09/27/06	Not Sampled Due to PSH in Well			
RW - 1	12/04/06	Not Sampled Due to PSH in Well			
RW - 1	03/14/07	Not Sampled Due to PSH in Well			
RW - 1	05/29/07	Not Sampled Due to PSH in Well			
RW - 1	08/30/07	Not Sampled Due to PSH in Well			
RW - 1	11/12/07	Not Sampled Due to PSH in Well			
RW - 1	03/07/08	Not Sampled Due to PSH in Well			
RW - 1	06/02/08	Not Sampled Due to PSH in Well			
RW - 1	09/03/08	Not Sampled Due to PSH in Well			
RW - 1	12/10/08	<b>10.10</b>	<b>2.440</b>	<b>0.792</b>	<b>1.500</b>
RW - 1	02/19/09	Not Sampled Due to PSH in Well			
RW - 1	05/20/09	Not Sampled Due to PSH in Well			
RW - 1	08/12/09	Not Sampled Due to PSH in Well			
RW - 1	11/25/09	<b>11.10</b>	<b>5.480</b>	<b>0.946</b>	<b>2.270</b>
RW - 1	02/11/10	Not Sampled Due to PSH in Well			
RW - 1	05/17/10	Not Sampled Due to PSH in Well			

TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
RW - 1	08/16/10	Not Sampled Due to PSH in Well				
RW - 1	11/10/10	Not Sampled Due to PSH in Well				
RW - 1	02/28/11	Not Sampled Due to PSH in Well				
RW - 1	05/12/11	Not Sampled Due to PSH in Well				
RW - 1	08/15/11	Not Sampled Due to PSH in Well				
RW - 1	11/22/11	Not Sampled Due to PSH in Well				
RW - 1	02/28/12	Not Sampled Due to PSH in Well				
RW - 1	05/17/12	Not Sampled Due to PSH in Well				
RW - 1	08/01/12	Not Sampled Due to PSH in Well				
RW - 1	11/29/12	Not Sampled Due to PSH in Well				
RW - 1	02/11/13	Not Sampled Due to PSH in Well				
RW - 1	05/06/13	Not Sampled Due to PSH in Well				
RW - 1	08/06/13	Not Sampled Due to PSH in Well				
RW - 1	11/18/13	Not Sampled Due to PSH in Well				
RW - 1	02/04/14	Not Sampled Due to PSH in Well				
RW - 1	05/28/14	Not Sampled Due to PSH in Well				
RW - 1	08/23/14	2.62	0.746	0.384	0.797	
RW - 1	11/18/14	Not Sampled Due to PSH in Well				
RW - 1	02/19/15	Not Sampled Due to PSH in Well				
RW - 1	05/12/15	Not Sampled Due to PSH in Well				
RW - 1	08/18/15	Not Sampled Due to PSH in Well				
RW - 1	11/23/15	Not Sampled Due to PSH in Well				
RW - 1	02/24/16	Not Sampled Due to PSH in Well				
RW - 1	06/13/16	Not Sampled Due to PSH in Well				
RW - 1	08/03/16	Not Sampled Due to PSH in Well				
RW - 1	11/28/16	Not Sampled Due to PSH in Well				
RW - 1	02/21/17	Not Sampled Due to PSH in Well				
RW - 1	05/24/17	Not Sampled Due to PSH in Well				
RW - 1	08/11/17	Not Sampled Due to PSH in Well				
RW - 1	11/28/17	Not Sampled Due to PSH in Well				
RW - 1	02/26/18	Not Sampled Due to PSH in Well				
RW - 1	05/07/18	Not Sampled Due to PSH in Well				
RW - 1	08/09/18	Not Sampled Due to PSH in Well				
RW - 1	11/14/18	Not Sampled Due to PSH in Well				
RW - 1	02/18/19	Not Sampled Due to PSH in Well				
RW - 1	05/14/19	Not Sampled Due to PSH in Well				
RW - 1	08/19/19	Not Sampled Due to PSH in Well				
RW - 1	11/11/19	Not Sampled Due to PSH in Well				

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
RW - 1	02/18/20	Not Sampled Due to PSH in Well				
RW - 1	06/11/20	Not Sampled Due to PSH in Well				
RW - 1	09/23/20	Not Sampled Due to PSH in Well				
RW - 1	12/04/20	Not Sampled Due to PSH in Well				
RW - 1	03/23/21	Not Sampled Due to PSH in Well				
RW - 1	06/04/21	Not Sampled Due to PSH in Well				
RW - 1	09/30/21	Not Sampled Due to PSH in Well				
RW - 1	12/09/21	6.25	0.306	0.598	1.536	
RW - 1	02/17/22	Not Sampled Due to PSH in Well				
RW - 1	05/18/22	Not Sampled Due to PSH in Well				
RW - 1	08/09/22	Not Sampled Due to PSH in Well				
RW - 1	11/14/22	Not Sampled Due to PSH in Well				
RW - 1	02/13/23	Not Sampled Due to PSH in Well				
RW - 1	05/16/23	Not Sampled Due to PSH in Well				
RW - 1	08/08/23	Not Sampled Due to PSH in Well				
RW - 1	12/08/23	Not Sampled Due to PSH in Well				
RW - 2	08/16/10	Not Sampled Due to PSH in Well				
RW - 2	11/10/10	Not Sampled Due to PSH in Well				
RW - 2	02/28/11	Not Sampled Due to PSH in Well				
RW - 2	05/12/11	Not Sampled Due to PSH in Well				
RW - 2	08/15/11	Not Sampled Due to PSH in Well				
RW - 2	11/22/11	Not Sampled Due to PSH in Well				
RW - 2	02/28/12	Not Sampled Due to PSH in Well				
RW - 2	05/17/12	Not Sampled Due to PSH in Well				
RW - 2	08/01/12	Not Sampled Due to PSH in Well				
RW - 2	11/29/12	Not Sampled Due to PSH in Well				
RW - 2	02/11/13	Not Sampled Due to PSH in Well				
RW - 2	05/06/13	Not Sampled Due to PSH in Well				
RW - 2	08/06/13	Not Sampled Due to PSH in Well				
RW - 2	11/18/13	Not Sampled Due to PSH in Well				
RW - 2	02/04/14	Not Sampled Due to PSH in Well				
RW - 2	05/28/14	Not Sampled Due to PSH in Well				
RW - 2	08/23/14	Not Sampled Due to PSH in Well				
RW - 2	11/18/14	Not Sampled Due to PSH in Well				
RW - 2	02/19/15	Not Sampled Due to PSH in Well				
RW - 2	05/12/15	Not Sampled Due to PSH in Well				
RW - 2	08/18/15	Not Sampled Due to PSH in Well				

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**TABLE 8**

**HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER**

**PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294**

*All Concentrations are reported in mg/L*

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
NMOCD REGULATORY GUIDELINE		0.01	0.75	0.75	0.62	
RW - 2	11/23/15	Not Sampled Due to PSH in Well				
RW - 2	02/24/16	Not Sampled Due to PSH in Well				
RW - 2	06/13/16	Not Sampled Due to PSH in Well				
RW - 2	08/03/16	Not Sampled Due to PSH in Well				
RW - 2	11/28/16	Not Sampled Due to PSH in Well				
RW - 2	02/21/17	Not Sampled Due to PSH in Well				
RW - 2	05/24/17	Not Sampled Due to PSH in Well				
RW - 2	08/11/17	Not Sampled Due to PSH in Well				
RW - 2	11/28/17	Not Sampled Due to PSH in Well				
RW - 2	02/26/18	Not Sampled Due to PSH in Well				
RW - 2	05/07/18	Not Sampled Due to PSH in Well				
RW - 2	08/09/18	Not Sampled Due to PSH in Well				
RW - 2	11/14/18	Not Sampled Due to PSH in Well				
RW - 2	02/18/19	Not Sampled Due to PSH in Well				
RW - 2	05/14/19	Not Sampled Due to PSH in Well				
RW - 2	08/19/19	Not Sampled Due to PSH in Well				
RW - 2	11/11/19	Not Sampled Due to PSH in Well				
RW - 2	02/18/20	Not Sampled Due to PSH in Well				
RW - 2	06/11/20	Not Sampled Due to PSH in Well				
RW - 2	09/23/20	Not Sampled Due to PSH in Well				
RW - 2	12/04/20	Not Sampled Due to PSH in Well				
RW - 2	03/23/21	Not Sampled Due to PSH in Well				
RW - 2	06/04/21	Not Sampled Due to PSH in Well				
RW - 2	09/30/21	Not Sampled Due to PSH in Well				
RW - 2	12/09/21	3.43	0.00346	0.215	0.261	
RW - 2	02/17/22	Not Sampled Due to PSH in Well				
RW - 2	05/18/22	Not Sampled Due to PSH in Well				
RW - 2	08/09/22	Not Sampled Due to PSH in Well				
RW - 2	11/14/22	Not Sampled Due to PSH in Well				
RW - 2	02/13/23	Not Sampled Due to PSH in Well				
RW - 2	05/16/23	Not Sampled Due to PSH in Well				
RW - 2	08/08/23	Not Sampled Due to PSH in Well				
RW - 2	12/08/23	Not Sampled Due to PSH in Well				
RW - 3	08/16/10	Not Sampled Due to PSH in Well				
RW - 3	11/10/10	Not Sampled Due to PSH in Well				
RW - 3	02/28/11	Not Sampled Due to PSH in Well				
RW - 3	05/12/11	Not Sampled Due to PSH in Well				

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**TABLE 8**

**HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER**

**PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294**

*All Concentrations are reported in mg/L*

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
NMOCD REGULATORY GUIDELINE		0.01	0.75	0.75	0.62	
RW - 3	08/15/11	Not Sampled Due to PSH in Well				
RW - 3	11/22/11	Not Sampled Due to PSH in Well				
RW - 3	02/28/12	Not Sampled Due to PSH in Well				
RW - 3	05/17/12	Not Sampled Due to PSH in Well				
RW - 3	08/01/12	Not Sampled Due to PSH in Well				
RW - 3	11/29/12	Not Sampled Due to PSH in Well				
RW - 3	02/11/13	Not Sampled Due to PSH in Well				
RW - 3	05/06/13	Not Sampled Due to PSH in Well				
RW - 3	08/06/13	Not Sampled Due to PSH in Well				
RW - 3	11/18/13	Not Sampled Due to PSH in Well				
RW - 3	02/04/14	Not Sampled Due to PSH in Well				
RW - 3	05/28/14	Not Sampled Due to PSH in Well				
RW - 3	08/23/14	Not Sampled Due to PSH in Well				
RW - 3	11/18/14	Not Sampled Due to PSH in Well				
RW - 3	02/19/15	Not Sampled Due to PSH in Well				
RW - 3	05/12/15	Not Sampled Due to PSH in Well				
RW - 3	08/18/15	Not Sampled Due to PSH in Well				
RW - 3	11/23/15	Not Sampled Due to PSH in Well				
RW - 3	02/24/16	Not Sampled Due to PSH in Well				
RW - 3	06/13/16	Not Sampled Due to PSH in Well				
RW - 3	08/03/16	Not Sampled Due to PSH in Well				
RW - 3	11/28/16	Not Sampled Due to PSH in Well				
RW - 3	02/21/17	Not Sampled Due to PSH in Well				
RW - 3	05/24/17	Not Sampled Due to PSH in Well				
RW - 3	08/11/17	Not Sampled Due to PSH in Well				
RW - 3	11/28/17	Not Sampled Due to PSH in Well				
RW - 3	02/26/18	Not Sampled Due to PSH in Well				
RW - 3	05/07/18	Not Sampled Due to PSH in Well				
RW - 3	08/09/18	Not Sampled Due to PSH in Well				
RW - 3	11/14/18	Not Sampled Due to PSH in Well				
RW - 3	02/18/19	Not Sampled Due to PSH in Well				
RW - 3	05/14/19	Not Sampled Due to PSH in Well				
RW - 3	08/19/19	Not Sampled Due to PSH in Well				
RW - 3	11/11/19	Not Sampled Due to PSH in Well				
RW - 3	02/18/20	Not Sampled Due to PSH in Well				
RW - 3	06/11/20	Not Sampled Due to PSH in Well				
RW - 3	09/23/20	Not Sampled Due to PSH in Well				
RW - 3	12/04/20	Not Sampled Due to PSH in Well				

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TABLE 8

HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All Concentrations are reported in mg/L

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENES
NMOCD REGULATORY GUIDELINE		0.01	0.75	0.75	0.62	
RW - 3	03/23/21	Not Sampled Due to PSH in Well				
RW - 3	06/04/21	Not Sampled Due to PSH in Well				
RW - 3	09/30/21	Not Sampled Due to PSH in Well				
RW - 3	12/09/21	18.8	0.0236	2.17	5.007	
RW - 3	02/17/22	Not Sampled Due to PSH in Well				
RW - 3	05/18/22	Not Sampled Due to PSH in Well				
RW - 3	08/09/22	Not Sampled Due to PSH in Well				
RW - 3	11/14/22	Not Sampled Due to PSH in Well				
RW - 3	02/13/23	Not Sampled Due to PSH in Well				
RW - 3	05/16/23	Not Sampled Due to PSH in Well				
RW - 3	08/08/23	Not Sampled Due to PSH in Well				
RW - 3	12/08/23	Not Sampled Due to PSH in Well				
RW - 4	08/16/10	Not Sampled Due to PSH in Well				
RW - 4	11/10/10	Not Sampled Due to PSH in Well				
RW - 4	02/28/11	Not Sampled Due to PSH in Well				
RW - 4	05/12/11	Not Sampled Due to PSH in Well				
RW - 4	08/15/11	Not Sampled Due to PSH in Well				
RW - 4	11/22/11	Not Sampled Due to PSH in Well				
RW - 4	02/28/12	Not Sampled Due to PSH in Well				
RW - 4	05/17/12	Not Sampled Due to PSH in Well				
RW - 4	08/01/12	Not Sampled Due to PSH in Well				
RW - 4	11/29/12	Not Sampled Due to PSH in Well				
RW - 4	02/11/13	Not Sampled Due to PSH in Well				
RW - 4	05/06/13	Not Sampled Due to PSH in Well				
RW - 4	08/06/13	Not Sampled Due to PSH in Well				
RW - 4	11/18/13	Not Sampled Due to PSH in Well				
RW - 4	02/04/14	Not Sampled Due to PSH in Well				
RW - 4	05/28/14	Not Sampled Due to PSH in Well				
RW - 4	08/23/14	3.37	2.35	0.735	1.60	
RW - 4	11/18/14	Not Sampled Due to PSH in Well				
RW - 4	02/19/15	Not Sampled Due to PSH in Well				
RW - 4	05/12/15	Not Sampled Due to PSH in Well				
RW - 4	08/18/15	Not Sampled Due to PSH in Well				
RW - 4	11/23/15	Not Sampled Due to PSH in Well				
RW - 4	02/24/16	Not Sampled Due to PSH in Well				
RW - 4	06/13/16	Not Sampled Due to PSH in Well				
RW - 4	08/03/16	Not Sampled Due to PSH in Well				

**TABLE 8**

**HISTORICAL CONCENTRATIONS OF BTEX IN GROUNDWATER**

**PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294**

*All Concentrations are reported in mg/L*

SAMPLE LOCACTION	SAMPLE DATE	EPA SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES
<b>NMOCD REGULATORY GUIDELINE</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
RW - 4	11/28/16	Not Sampled Due to PSH in Well				
RW - 4	02/21/17	Not Sampled Due to PSH in Well				
RW - 4	05/24/17	Not Sampled Due to PSH in Well				
RW - 4	08/11/17	Not Sampled Due to PSH in Well				
RW - 4	11/28/17	Not Sampled Due to PSH in Well				
RW - 4	02/26/18	Not Sampled Due to PSH in Well				
RW - 4	05/07/18	Not Sampled Due to PSH in Well				
RW - 4	08/09/18	Not Sampled Due to PSH in Well				
RW - 4	11/14/18	Not Sampled Due to PSH in Well				
RW - 4	02/18/19	Not Sampled Due to PSH in Well				
RW - 4	05/14/19	Not Sampled Due to PSH in Well				
RW - 4	08/19/19	Not Sampled Due to PSH in Well				
RW - 4	11/11/19	Not Sampled Due to PSH in Well				
RW - 4	02/18/20	Not Sampled Due to PSH in Well				
RW - 4	06/11/20	Not Sampled Due to PSH in Well				
RW - 4	09/23/20	Not Sampled Due to PSH in Well				
RW - 4	12/04/20	Not Sampled Due to PSH in Well				
RW - 4	03/23/21	Not Sampled Due to PSH in Well				
RW - 4	06/04/21	Not Sampled Due to PSH in Well				
RW - 4	09/30/21	Not Sampled Due to PSH in Well				
RW - 4	12/09/21	<b>12.1</b>	0.0204	<b>1.35</b>	<b>2.554</b>	
RW - 4	02/17/22	Not Sampled Due to PSH in Well				
RW - 4	05/18/22	Not Sampled Due to PSH in Well				
RW - 4	08/09/22	Not Sampled Due to PSH in Well				
RW - 4	11/14/22	Not Sampled Due to PSH in Well				
RW - 4	02/13/23	Not Sampled Due to PSH in Well				
RW - 4	05/16/23	Not Sampled Due to PSH in Well				
RW - 4	08/08/23	Not Sampled Due to PSH in Well				
RW - 4	12/08/23	Not Sampled Due to PSH in Well				

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TABLE 9

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

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	12/10/08	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<b>0.0109</b>	<0.000922	<0.000922	<b>0.0429</b>	<0.000922	<b>0.0587</b>	<0.000922	<b>0.232</b>	<b>0.354</b>	<b>0.417</b>	0.0377	
MW-2	11/25/09	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<b>0.0276</b>	<0.000922	<b>0.0378</b>	<0.000922	<b>0.207</b>	<b>0.274</b>	<b>0.337</b>	0.0267	
MW-2	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-2	12/15/11	Not Sampled due to the presence of PSH.																		
MW-2	11/29/12	Not Sampled due to the presence of PSH.																		
MW-2	11/18/13	Not Sampled due to the presence of PSH.																		
MW-2	11/18/14	Not Sampled due to the presence of PSH.																		
MW-2	11/23/15	Not Sampled due to the presence of PSH.																		
MW-2	11/28/16	Not Sampled due to the presence of PSH.																		
MW-2	11/28/17	Not Sampled due to the presence of PSH.																		
MW-2	11/14/18	Not Sampled due to the presence of PSH.																		
MW-2	11/11/19	Not Sampled due to the presence of PSH.																		
MW-2	12/04/20	Not Sampled due to the presence of PSH.																		
MW-2	12/09/21	0.0024	0.00030	0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00026	<b>0.0024</b>	<0.00010	<b>0.0043</b>	<0.00010	0.029		0.0035	
MW-2	11/15/22	Not Sampled due to the presence of PSH.																		
MW-2	12/07/23	Not Sampled due to the presence of PSH.																		
MW-3	12/10/08	<0.000184	0.00934	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<b>0.00578</b>	<0.000184	<0.000184	<b>0.024</b>	<0.000184	<b>0.0368</b>	<0.000184	<b>0.192</b>	<b>0.348</b>	<b>0.409</b>	0.0228
MW-3	11/25/09	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<b>0.788</b>	<0.0370	<b>1.06</b>	<0.0370	<b>3.87</b>	<b>7.02</b>	<b>8.74</b>	0.626
MW-3	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	12/15/11	Not Sampled due to the presence of PSH.																		
MW-3	11/29/12	Not Sampled due to the presence of PSH.																		
MW-3	11/18/13	Not Sampled due to the presence of PSH.																		
MW-3	11/18/14	Not Sampled due to the presence of PSH.																		
MW-3	11/23/15	Not Sampled due to the presence of PSH.																		
MW-3	11/28/16	Not Sampled due to the presence of PSH.																		
MW-3	11/28/17	Not Sampled due to the presence of PSH.																		
MW-3	11/14/18	Not Sampled due to the presence of PSH.																		
MW-3	11/11/19	Not Sampled due to the presence of PSH.																		
MW-3	12/04/20	Not Sampled due to the presence of PSH.																		
MW-3	12/09/21	0.00088	0.00014	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<b>0.0018</b>	<0.00010	<b>0.0018</b>	<0.00010	<b>0.0411</b>		0.0022	
MW-3	11/15/22	Not Sampled due to the presence of PSH.																		

TABLE 9

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04 TOWNSEND  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

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[ghi]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-3	12/07/23	Not Sampled due to the presence of PSH.																			
MW-4	12/10/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.0039	<0.000184	0.00376	<0.000184	0.0668	0.0435	0.0423	0.00414	
MW-4	11/25/09	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.0143	<0.000917	0.0181	<0.000917	0.103	0.118	0.089	0.0123	
MW-4	11/10/10	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00338	<0.000184	0.00404	<0.000184	0.0279	0.035	0.0188	0.00247	
MW-4	12/15/11	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	0.00322	<0.000187	0.00423	<0.000187	0.0469	0.0371	0.0317	0.00409	
MW-4	11/29/12	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	0.00306	<0.000190	<0.000190	0.0081	<0.000190	0.0123	<0.000190	0.0274	0.0289	0.0235	0.00877	
MW-4	11/19/13	<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	0.0877	0.109	0.121	12.6	
MW-4	11/18/14	Not Sampled due to the presence of PSH.																			
MW-4	11/23/15	Not Sampled due to the presence of PSH.																			
MW-4	11/28/16	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	<0.000571	
MW-4	11/28/17	Not Sampled due to the presence of PSH.																			
MW-4	11/14/18	Not Sampled due to the presence of PSH.																			
MW-4	11/11/19	0.011	0.010	0.025	<0.00097	0.0050	<0.00097	0.0024	0.059	<0.00097	0.013	0.25	<0.00097	0.36	0.015	7.6				0.23	
MW-4	12/04/20	Not Sampled due to the presence of PSH.																			
MW-4	12/09/21	0.0013	0.00015	0.00011	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00011	0.0016	<0.00010	0.0031	<0.00010	0.0187				0.0028
MW-4	11/15/22	Not Sampled due to the presence of PSH.																			
MW-4	12/07/23	Not Sampled due to the presence of PSH.																			
MW-5	12/10/08	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	0.0424	<0.000935	0.192	0.301	0.346	0.0316	
MW-5	11/25/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00909	<0.000184	0.0104	<0.000184	0.0905	0.0931	0.107	0.00848	
MW-5	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																			
MW-5	12/15/11	Not Sampled due to the presence of PSH.																			
MW-5	11/29/12	Not Sampled due to the presence of PSH.																			
MW-5	11/18/13	Not Sampled due to the presence of PSH.																			
MW-5	11/18/14	Not Sampled due to the presence of PSH.																			
MW-5	11/23/15	Not Sampled due to the presence of PSH.																			
MW-5	11/28/16	Not Sampled due to the presence of PSH.																			
MW-5	11/28/17	Not Sampled due to the presence of PSH.																			
MW-5	14/14/18	Not Sampled due to the presence of PSH.																			
MW-5	11/11/19	Not Sampled due to the presence of PSH.																			
MW-5	12/04/20	Not Sampled due to the presence of PSH.																			

TABLE 9

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L.

EPA SW846-8270C, 3510

SAMPLE LOCATION	SAMPLE DATE	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	
		...	...	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	12/09/21	0.0011	0.00015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<b>0.0022</b>	<0.00010	<b>0.0020</b>	<0.00010		<b>0.089</b>		0.0031	
MW-5	11/15/22	0.00046	0.00053	0.00050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<b>0.00053</b>	<0.00010	<0.00010	<b>0.0072</b>	<0.00010	<b>0.0064</b>	<0.00010		<b>0.238</b>			
MW-5	12/07/23	0.018	<0.010	<b>&lt;0.010</b>	<b>&lt;0.010</b>	<b>&lt;0.010</b>	<b>&lt;0.010</b>	<b>&lt;0.010</b>	<b>&lt;0.010</b>	<b>&lt;0.010</b>	<b>&lt;0.010</b>	<b>&lt;0.010</b>	<b>0.84</b>	<b>0.18</b>	<b>0.043</b>	<b>0.024</b>		<b>1.849</b>		0.13	
MW-6	12/10/08	<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	<b>0.00706</b>	<0.000184	<b>0.0921</b>	<b>0.0687</b>	<b>0.0744</b>	0.00635	
MW-6	11/25/09	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<b>0.0528</b>	<0.000922	<b>0.0648</b>	<0.000922	<b>0.294</b>	<b>0.498</b>	<b>0.569</b>	0.0467	
MW-6	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																			
MW-6	12/15/11	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<b>0.00132</b>	<0.000190	<b>0.00137</b>	<0.000190	<b>0.0179</b>	<b>0.0212</b>	<b>0.0179</b>	0.00158	
MW-6	11/29/12	Not Sampled due to the presence of PSH.																			
MW-6	11/18/13	Not Sampled due to the presence of PSH.																			
MW-6	11/18/14	Not Sampled due to the presence of PSH.																			
MW-6	11/23/15	<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-6	11/28/16	0.00125	0.000696	0.000640	<0.000290	0.000687	0.000477	<0.000290	0.000406	<b>0.00204</b>	<0.000290	0.000652	<b>0.00371</b>	<0.000290	<b>0.00758</b>	0.000628		0.0109		0.00350	
MW-6	11/28/17	Not Sampled due to the presence of PSH.																			
MW-6	11/14/18	Not Sampled due to the presence of PSH.																			
MW-6	11/11/19	Not Sampled due to the presence of PSH.																			
MW-6	12/04/20	Not Sampled due to the presence of PSH.																			
MW-6	12/09/21	0.00064	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	0.00055	<0.00011	0.00021	<0.00011		0.0020			0.00061	
MW-6	11/15/22	0.0054	0.0023	0.00092	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<b>0.0020</b>	<0.00010	<0.00010	<b>0.0016</b>	<0.00010	<b>0.0015</b>	<0.00010				0.0131	
MW-6	12/07/23	<0.00010	<0.00010	0.00092	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00048	<0.00010	<0.00010	<0.00010	<b>1.4</b>		0.00329			
MW-7	12/08/08	<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	0.0002	<0.000184	<0.000184	<0.000184	
MW-7	11/25/09	<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	<0.000183	
MW-7	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																			
MW-7	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																			
MW-7	11/29/12	Not Sampled as part of Quarterly Monitoring Event.																			
MW-7	11/19/13	Not Sampled as part of Quarterly Monitoring Event.																			
MW-7	11/18/14	Not Sampled as part of Quarterly Monitoring Event.																			
MW-7	11/23/15	Not Sampled as part of Quarterly Monitoring Event.																			
MW-7	11/28/16	Not Sampled as part of Quarterly Monitoring Event.																			
MW-7	11/28/17	Not Sampled as part of Quarterly Monitoring Event.																			
MW-7	11/14/18	Not Sampled as part of Quarterly Monitoring Event.																			



TABLE 9

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

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[ghi]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-7	11/11/19	Not Sampled as part of Quarterly Monitoring Event.																	
MW-7	12/04/20	Not Sampled as part of Quarterly Monitoring Event.																	
MW-7	12/09/21	Not Sampled as part of Quarterly Monitoring Event.																	
MW-7	11/16/22	Not Sampled as part of Quarterly Monitoring Event.																	
MW-7	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																	
MW-9	12/10/08	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	0.0134	<0.000926	0.016	<0.000926	0.102	0.122	0.138	0.0127
MW-9	11/25/09	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.0250	<0.000917	0.0315	<0.000917	0.125	0.221	0.253	0.0201
MW-9	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																	
MW-9	12/15/11	Not Sampled due to the presence of PSH.																	
MW-9	11/29/12	Not Sampled due to the presence of PSH.																	
MW-9	11/18/13	Not Sampled due to the presence of PSH.																	
MW-9	11/18/14	Not Sampled due to the presence of PSH.																	
MW-9	11/23/15	Not Sampled due to the presence of PSH.																	
MW-9	11/28/16	Not Sampled due to the presence of PSH.																	
MW-9	11/28/17	Not Sampled due to the presence of PSH.																	
MW-9	11/14/18	Not Sampled due to the presence of PSH.																	
MW-9	11/11/19	0.013	0.0064	0.023	<0.00098	0.0015	0.0048	<0.00098	0.0038	0.054	<0.00098	0.013	0.29	<0.00098	0.49	0.014	6.2		0.26
MW-9	12/04/20	Not Sampled due to the presence of PSH.																	
MW-9	12/09/21	0.0023	0.00033	0.00030	0.0023	<0.00010	<0.00010	<0.00010	<0.00010	0.00038	<0.00010	<0.00010	0.0051	<0.00010	0.0059	<0.00010	0.047		0.0049
MW-9	11/15/22	0.00012	0.00019	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0030	<0.00010	0.0033	<0.00010	0.103		-	
MW-9	12/07/23	0.00034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0041	0.035	0.0051	<0.0010	<0.0010	<0.0010	0.00075		-
MW-10	12/08/08	<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-10	11/25/09	<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-10	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																	
MW-10	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																	
MW-10	11/29/12	Not Sampled as part of Quarterly Monitoring Event.																	
MW-10	11/18/13	Not Sampled as part of Quarterly Monitoring Event.																	
MW-10	11/18/14	Not Sampled as part of Quarterly Monitoring Event.																	
MW-10	11/23/15	Not Sampled as part of Quarterly Monitoring Event.																	
MW-10	11/28/16	Not Sampled as part of Quarterly Monitoring Event.																	

TABLE 9

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L.

EPA SW846-8270C, 3510

SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[ghi]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
		...	...	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-10	11/28/17	Not Sampled as part of Quarterly Monitoring Event.																		
MW-10	11/14/18	Not Sampled as part of Quarterly Monitoring Event.																		
MW-10	11/11/19	Not Sampled as part of Quarterly Monitoring Event.																		
MW-10	12/04/20	Not Sampled as part of Quarterly Monitoring Event.																		
MW-10	12/09/21	Not Sampled as part of Quarterly Monitoring Event.																		
MW-10	11/15/22	Not Sampled as part of Quarterly Monitoring Event.																		
MW-10	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	12/08/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-11	11/25/09	<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	<0.000183
MW-11	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	11/29/12	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	11/18/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	11/18/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	11/23/15	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	11/28/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	11/28/17	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	11/14/18	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	11/11/19	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	12/04/20	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	12/09/21	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	11/16/22	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	12/08/08	<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	<0.000183
MW-12	11/25/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-12	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	11/29/12	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	11/18/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	11/18/14	Not Sampled as part of Quarterly Monitoring Event.																		

TABLE 9

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

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[ghi]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-12	11/23/15	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	11/28/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	11/28/17	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	11/14/18	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	11/11/19	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	12/04/20	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	12/09/21	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	11/16/22	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	12/08/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000294	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00116
MW-13	11/25/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000638
MW-13	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	11/29/12	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	11/19/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	11/18/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	11/23/15	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	11/28/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	11/28/17	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	11/14/18	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	11/11/19	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	12/04/20	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	12/09/21	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	11/16/22	Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-14	12/08/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.000417	<0.000185	0.000311	<0.000185	0.00328	0.00314	0.00298	0.000355	
MW-14	11/25/09	<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	0.00605	0.00516	0.00321	<0.000184	
MW-14	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-14	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-14	11/29/12	Not Sampled as part of Quarterly Monitoring Event.																		
MW-14	11/19/13	Not Sampled as part of Quarterly Monitoring Event.																		

TABLE 9

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

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[ghi]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene
<b>Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.</b>		---	---	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-14	11/18/14	Not Sampled as part of Quarterly Monitoring Event.																	
MW-14	11/23/15	Not Sampled as part of Quarterly Monitoring Event.																	
MW-14	11/28/16	Not Sampled as part of Quarterly Monitoring Event.																	
MW-14	11/28/17	Not Sampled as part of Quarterly Monitoring Event.																	
MW-14	11/14/18	Not Sampled as part of Quarterly Monitoring Event.																	
MW-14	11/11/19	Not Sampled as part of Quarterly Monitoring Event.																	
MW-14	12/04/20	Not Sampled as part of Quarterly Monitoring Event.																	
MW-14	12/09/21	Not Sampled as part of Quarterly Monitoring Event.																	
MW-14	11/15/22	Not Sampled as part of Quarterly Monitoring Event.																	
MW-14	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																	
MW-15	12/08/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000558	<0.000184	0.000384	<0.000184	0.00993	0.00525	0.00386	0.000687
MW-15	11/25/09	<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	0.00209	0.00101	<0.000184	<0.000184
MW-15	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																	
MW-15	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																	
MW-15	11/29/12	Not Sampled as part of Quarterly Monitoring Event.																	
MW-15	11/19/13	Not Sampled as part of Quarterly Monitoring Event.																	
MW-15	11/18/14	Not Sampled as part of Quarterly Monitoring Event.																	
MW-15	11/23/15	Not Sampled as part of Quarterly Monitoring Event.																	
MW-15	11/28/16	Not Sampled as part of Quarterly Monitoring Event.																	
MW-15	11/28/17	Not Sampled as part of Quarterly Monitoring Event.																	
MW-15	11/14/18	Not Sampled as part of Quarterly Monitoring Event.																	
MW-15	11/11/19	Not Sampled as part of Quarterly Monitoring Event.																	
MW-15	12/04/20	Not Sampled as part of Quarterly Monitoring Event.																	
MW-15	12/09/21	Not Sampled as part of Quarterly Monitoring Event.																	
MW-15	11/15/22	Not Sampled as part of Quarterly Monitoring Event.																	
MW-15	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																	
MW-16	12/08/08	<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-16	11/25/09	<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-16	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																	
MW-16	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																	
MW-16	11/29/12	Not Sampled as part of Quarterly Monitoring Event.																	
MW-16	11/19/13	Not Sampled as part of Quarterly Monitoring Event.																	

TABLE 9

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

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-16	11/18/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-16	11/23/15	Not Sampled as part of Quarterly Monitoring Event.																		
MW-16	11/28/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-16	11/28/17	Not Sampled as part of Quarterly Monitoring Event.																		
MW-16	11/14/18	Not Sampled as part of Quarterly Monitoring Event.																		
MW-16	11/11/19	Not Sampled as part of Quarterly Monitoring Event.																		
MW-16	12/04/20	Not Sampled as part of Quarterly Monitoring Event.																		
MW-16	12/09/21	Not Sampled as part of Quarterly Monitoring Event.																		
MW-16	11/16/22	Not Sampled as part of Quarterly Monitoring Event.																		
MW-16	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
MW-18	11/25/09	<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-18	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-18	12/31/11	<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	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000262
MW-18	11/29/12	Not Sampled as part of Quarterly Monitoring Event.																		
MW-18	11/19/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-18	11/18/14	<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-18	11/23/15	Not Sampled as part of Quarterly Monitoring Event.																		
MW-18	11/28/16	Not Sampled as part of Quarterly Monitoring Event.																		
MW-18	11/28/17	Not Sampled as part of Quarterly Monitoring Event.																		
MW-18	11/14/18	Not Sampled as part of Quarterly Monitoring Event.																		
MW-18	11/11/19	Not Sampled as part of Quarterly Monitoring Event.																		
MW-18	12/04/20	Not Sampled as part of Quarterly Monitoring Event.																		
MW-18	12/09/21	Not Sampled as part of Quarterly Monitoring Event.																		
MW-18	11/16/22	Not Sampled as part of Quarterly Monitoring Event.																		
MW-18	12/07/23	Not Sampled as part of Quarterly Monitoring Event.																		
RW-1	12/10/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.0085	<0.000184	0.0104	<0.000184	0.075	0.0857	0.0912	0.00817
RW-1	11/25/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.0120	<0.000184	0.0131	<0.000184	0.0961	0.113	0.126	0.0100
RW-1	11/10/10	Not Sampled as part of Quarterly Monitoring Event.																		
RW-1	12/15/11	Not Sampled due to the presence of PSH.																		
RW-1	11/29/12	Not Sampled due to the presence of PSH.																		
RW-1	11/18/13	Not Sampled due to the presence of PSH.																		
RW-1	11/18/14	Not Sampled due to the presence of PSH.																		

TABLE 9

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

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		---
RW-1	11/23/15	Not Sampled due to the presence of PSH.																	
RW-1	11/28/16	Not Sampled due to the presence of PSH.																	
RW-1	11/28/17	Not Sampled due to the presence of PSH.																	
RW-1	11/14/18	Not Sampled due to the presence of PSH.																	
RW-1	11/11/19	Not Sampled due to the presence of PSH.																	
RW-1	12/04/20	Not Sampled due to the presence of PSH.																	
RW-1	12/09/21	0.0017	0.00022	0.00023	<b>0.00088</b>	<0.00010	<0.00010	<0.00010	<0.00010	0.00028	<0.00010	<0.00010	<b>0.0043</b>	<0.00010	<b>0.0090</b>	<0.00010	<b>0.189</b>		0.0049
RW-1	11/14/22	Not Sampled due to the presence of PSH.																	
RW-1	12/07/23	Not Sampled due to the presence of PSH.																	
RW-2	11/10/10	Not Sampled due to the presence of PSH.																	
RW-2	12/15/11	Not Sampled due to the presence of PSH.																	
RW-2	11/29/12	Not Sampled due to the presence of PSH.																	
RW-2	11/18/13	Not Sampled due to the presence of PSH.																	
RW-2	11/18/14	Not Sampled due to the presence of PSH.																	
RW-2	11/23/15	Not Sampled due to the presence of PSH.																	
RW-2	11/28/16	Not Sampled due to the presence of PSH.																	
RW-2	11/28/17	Not Sampled due to the presence of PSH.																	
RW-2	11/14/18	Not Sampled due to the presence of PSH.																	
RW-2	11/11/19	Not Sampled due to the presence of PSH.																	
RW-2	12/04/20	Not Sampled due to the presence of PSH.																	
RW-2	12/09/21	0.00069	0.00011	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<b>0.0014</b>	<0.00010	<b>0.0021</b>	<0.00010	<b>0.060</b>		0.0017
RW-2	11/14/22	Not Sampled due to the presence of PSH.																	
RW-2	12/07/23	Not Sampled due to the presence of PSH.																	
RW-3	11/10/10	Not Sampled due to the presence of PSH.																	
RW-3	12/15/11	Not Sampled due to the presence of PSH.																	
RW-3	11/29/12	Not Sampled due to the presence of PSH.																	
RW-3	11/18/13	Not Sampled due to the presence of PSH.																	
RW-3	11/18/14	Not Sampled due to the presence of PSH.																	
RW-3	11/23/15	Not Sampled due to the presence of PSH.																	
RW-3	11/28/16	Not Sampled due to the presence of PSH.																	
RW-3	11/28/17	Not Sampled due to the presence of PSH.																	
RW-3	11/14/18	Not Sampled due to the presence of PSH.																	

TABLE 9

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

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[ghi]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		---
RW-3	11/11/19	Not Sampled due to the presence of PSH.																	
RW-3	12/04/20	Not Sampled due to the presence of PSH.																	
RW-3	12/09/21	0.017	0.0036	0.0019	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.013	<0.0010	0.015	<0.0010	0.237		0.011
RW-3	11/14/22	Not Sampled due to the presence of PSH.																	
RW-3	12/07/23	Not Sampled due to the presence of PSH.																	
RW-4	11/10/10	Not Sampled due to the presence of PSH.																	
RW-4	12/15/11	Not Sampled due to the presence of PSH.																	
RW-4	11/29/12	Not Sampled due to the presence of PSH.																	
RW-4	11/18/13	Not Sampled due to the presence of PSH.																	
RW-4	11/18/14	Not Sampled due to the presence of PSH.																	
RW-4	11/23/15	Not Sampled due to the presence of PSH.																	
RW-4	11/28/16	Not Sampled due to the presence of PSH.																	
RW-4	11/28/17	Not Sampled due to the presence of PSH.																	
RW-4	11/14/18	Not Sampled due to the presence of PSH.																	
RW-4	11/11/19	Not Sampled due to the presence of PSH.																	
RW-4	12/04/20	Not Sampled due to the presence of PSH.																	
RW-4	12/09/21	0.021	0.0088	0.019	0.011	<0.0010	<0.0010	<0.0010	<0.0010	0.0052	<0.0010	0.0047	0.046	<0.0010	0.14	<0.0010	2.13		0.044
RW-4	11/14/22	Not Sampled due to the presence of PSH.																	
RW-4	12/07/23	Not Sampled due to the presence of PSH.																	

TABLE 10

HISTORICAL NMWQCC METALS CONCENTRATIONS IN EFFLUENT GROUNDWATER  
 PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Total Aluminum	Total Boron	Total Cobalt	Total Copper	Total Iron	Total Manganese	Total Molybdenum	Total Nickel	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Mercury	Total Lead	Total Selenium	Total Silver	Total Zinc
		5.0 mg/L	0.75 mg/L	0.05 mg/L	1.0 mg/L	1.0 mg/L	0.2 mg/L	1.0 mg/L	0.2 mg/L	0.1 mg/L	1.0 mg/L	0.01 mg/L	0.05 mg/L	0.002 mg/L	0.05 mg/L	0.05 mg/L	0.05 mg/L	10 mg/L
Post Carbon	09/02/10	0.533	0.105	<0.005	<0.005	0.119	0.197	<0.010	<0.005	<0.010	0.171	<0.005	<0.005	<0.0002	0.005	<0.020	<0.005	0.01
Post Carbon	09/10/10	<0.050	0.168	<0.005	<0.005	0.177	0.091	<0.050	<0.010	<0.010	0.243	<0.005	<0.010	<0.0002	<0.005	<0.020	<0.005	<0.005
Post Carbon	09/16/10	0.057	0.216	<0.005	0.005	0.044	0.101	<0.050	<0.010	<0.010	0.28	<0.005	<0.010	<0.0002	<0.005	<0.020	<0.005	0.01
Post Carbon	09/23/10	0.053	0.112	<0.005	<0.005	0.311	0.034	<0.050	<0.010	<0.010	0.194	<0.005	<0.010	<0.0002	<0.005	<0.020	<0.005	0.015
Post Carbon	11/17/11	<0.050	0.221	<0.005	<0.005	0.012	0.064	<0.050	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<0.005
Post Carbon	12/31/12	0.304	0.086	<0.0100	<0.00500	0.053	<0.00500	<0.0500	<0.0100	<0.0100	0.245	<0.0100	<0.0100	<0.000200	<0.0100	<0.0200	<0.00500	0.014
Post Carbon*	01/31/13	0.304	0.021	<0.0100	<b>1.09</b>	<b>8.13</b>	0.021	<0.0500	0.042	<0.0100	0.103	<0.0100	<0.0100	<0.000200	<b>0.13</b>	<0.0200	<0.00500	0.589
Post Carbon**	01/31/13	<0.0100	0.0981	<0.00500	<0.00500	<0.200	<0.00500	<0.00500	<0.00500	0.00696	0.217	<0.00200	<0.00500	<0.000200	<0.00500	<0.00500	<0.00500	0.00659
Post Carbon	02/28/14	<0.0500	0.0270	<0.0100	<0.00500	0.415	0.104	<0.0500	<0.0100	<0.0100	0.249	<0.0100	<0.0100	<0.000200	<0.0100	<0.0200	<0.00500	<0.0100
Post Carbon	11/25/14	0.194	0.1020	<0.0100	0.109	0.994	0.053	<0.0500	<0.0100	0.0178	0.254	<0.0100	<0.0100	<0.000200	<0.0150	<0.0200	<0.00500	0.0914
Post Carbon	10/28/15	<0.0500	0.108	<0.0100	0.00500	0.203	0.0560	<0.0500	<0.0100	<0.0100	0.239	<0.00500	<0.0100	<0.000200	<0.0150	<0.0200	<0.00500	0.0140
Post Carbon	11/28/16	<0.0500	0.102	<0.0100	0.01990	0.257	0.0778	-	-	<0.0100	0.212	<0.00500	<0.00500	<0.000100	<0.0120	0.0101	<0.00400	<0.0100
Post Carbon	03/16/17	-	-	-	-	-	-	<0.0100	<0.0100	-	-	-	-	-	-	-	-	-



TABLE 10

HISTORICAL NMWQCC METALS CONCENTRATIONS IN EFFLUENT GROUNDWATER  
 PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Total Aluminum	Total Boron	Total Cobalt	Total Copper	Total Iron	Total Manganese	Total Molybdenum	Total Nickel	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Mercury	Total Lead	Total Selenium	Total Silver	Total Zinc
		5.0 mg/L	0.75 mg/L	0.05 mg/L	1.0 mg/L	1.0 mg/L	0.2 mg/L	1.0 mg/L	0.2 mg/L	0.1 mg/L	1.0 mg/L	0.01 mg/L	0.05 mg/L	0.002 mg/L	0.05 mg/L	0.05 mg/L	0.05 mg/L	10 mg/L
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.																		
Post Carbon	11/30/17	<0.200	0.233	<0.0100	<0.0200	<0.200	<b>0.210</b>	<0.0100	<0.0100	<0.0100	0.296	<0.00500	<0.0100	<0.000200	<0.0100	<0.0200	<0.0200	<0.0150
Post Carbon***	12/15/17	-	-	-	-	-	0.0962	-	-	-	-	-	-	-	-	-	-	-
Post Carbon****	12/15/17	-	-	-	-	-	0.0714	-	-	-	-	-	-	-	-	-	-	-
Post Carbon**	10/30/18	0.0123	<b>1.40</b>	0.0012	0.0155	<0.200	<b>0.637</b>	0.0157	0.00441	0.00972	0.727	<0.00190	<0.00400	<0.000200	0.00242	<0.00200	<0.00200	0.0411
Pre Carbon****	11/27/18	-	0.166	-	-	-	0.0877	-	-	-	-	-	-	-	-	-	-	-
Pre Carbon***	11/27/18	-	0.163	-	-	-	0.0572	-	-	-	-	-	-	-	-	-	-	-
MW-10***	11/27/18	-	0.186	-	-	-	0.0372	-	-	-	-	-	-	-	-	-	-	-
MW-14***	11/27/18	-	0.147	-	-	-	<b>0.332</b>	-	-	-	-	-	-	-	-	-	-	-
Frac Tank***	11/27/18	-	0.152	-	-	-	0.110	-	-	-	-	-	-	-	-	-	-	-
Blank***	11/27/18	-	0.0416	-	-	-	<0.00800	-	-	-	-	-	-	-	-	-	-	-
Post	04/22/19	-	0.234	<0.00800	0.0185	0.246	<b>0.400</b>	0.0411	<0.0080	<0.00800	0.159	<0.00800	<0.00800	<0.000250	0.0124	<0.00800	<0.00800	0.0175
Post (Rerun)	04/22/19	0.111	0.196	-	-	-	<b>0.408</b>	-	-	-	-	-	-	-	-	-	<0.00500	0.0307
Post	04/22/19	0.178	0.200	<0.00200	0.00478	0.121	<b>0.384</b>	0.0413	0.00271	0.00641	0.167	<0.000147	<0.00400	<0.0000263	<0.00200	<0.00200	<0.000251	<0.0300
Post-Carbon	07/09/19	-	0.145	-	-	-	<b>0.446</b>	-	-	-	-	-	-	-	-	-	-	-
Pre-Aeration	07/29/19	<0.0550	0.152	<0.00200	0.00327	<b>1.02</b>	0.167	<0.00200	<0.0060	0.0141	0.352	<0.00100	<0.00800	<0.000250	0.0272	0.00243	<0.00500	0.00237
Post Aeration	07/29/19	<0.0550	0.149	<0.00200	0.00906	1.00	0.163	<0.00200	<0.0060	0.0146	0.345	<0.00100	<0.00800	<0.000250	0.0259	0.00221	<0.00500	0.0203
Pre-Carbon	07/29/19	<0.0550	0.145	<0.00200	0.00324	0.546	0.160	0.00146	<0.0060	0.0138	0.335	<0.00100	<0.00800	<0.000250	0.0259	0.00287	<0.00500	0.0119
Post Carbon	07/29/19	0.0794	0.123	<0.00200	0.00551	0.467	<b>0.384</b>	0.00272	<0.0060	0.0114	0.342	<0.00100	<0.00800	<0.000250	0.0246	0.00390	<0.00500	0.00831
Post Metals	01/23/20	<0.0550	0.0651	<0.00200	0.00375	0.348	0.119	<0.00200	<0.0060	0.0157	0.245	<0.00100	<0.0910	<0.000250	<0.0110	0.0190	<0.00500	0.0173
Post-Metals	02/28/20	0.0138	0.141	<0.00800	0.0205	0.172	0.106	<0.00800	<0.0080	0.00934	0.373	<0.00800	<0.00800	<0.000250	0.00999	<0.00800	<0.00800	<0.00800

□□□□□□□□

TABLE 10

HISTORICAL NMWQCC METALS CONCENTRATIONS IN EFFLUENT GROUNDWATER  
 PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Total Aluminum	Total Boron	Total Cobalt	Total Copper	Total Iron	Total Manganese	Total Molybdenum	Total Nickel	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Mercury	Total Lead	Total Selenium	Total Silver	Total Zinc
		5.0 mg/L	0.75 mg/L	0.05 mg/L	1.0 mg/L	1.0 mg/L	0.2 mg/L	1.0 mg/L	0.2 mg/L	0.1 mg/L	1.0 mg/L	0.01 mg/L	0.05 mg/L	0.002 mg/L	0.05 mg/L	0.05 mg/L	0.05 mg/L	10 mg/L
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.																		
Post-Metals	03/25/20	<0.0200	0.175	<0.00800	0.0146	0.205	0.123	<0.00800	<0.0080	<0.00800	0.258	<0.00800	<0.00800	<0.000250	<0.00800	<0.00800	<0.00800	0.0318
Post-Metals	05/26/20	0.0194	0.107	<0.00500	<0.00200	<0.200	0.0766	<0.00500	<0.00200	0.00710	0.217	<0.00200	<0.00400	<0.0000800	<0.00200	0.00227	<0.00200	0.00749
Post-Metals	06/18/20	0.0197	0.0975	<0.00200	<0.00200	<0.00200	0.0513	<0.00500	<0.00200	0.00674	0.244	<0.00200	<0.00400	<0.000200	<0.00200	0.00210	<0.00200	0.00474
Post-Metals	07/14/20	<0.0550	0.176	<0.00800	0.00636	0.260	0.0210	0.00255	<0.0080	0.0110	0.319	<0.00800	<0.0200	<0.000250	0.00864	<0.00400	<0.00800	0.0165
Post-Metals	08/25/20	<0.0550	0.114	<0.00200	0.0241	0.443	0.0856	0.00348	<0.0060	0.00818	0.631	<0.00100	<0.0910	<0.000250	<0.0110	<0.00400	<0.00500	0.0151
Post-Metals	09/29/20	<0.0550	0.234	<0.00800	0.00485	0.0462	0.183	<0.00800	<0.0080	0.00877	0.303	<0.00800	<0.00800	<0.000250	0.00802	<0.00800	<0.00800	0.0131
Post-Metals	11/03/20	<0.0200	0.150	<0.00800	0.0208	<b>1.03</b>	<b>0.261</b>	<0.00800	<0.0080	0.00665	0.294	<0.00800	<0.00800	<0.000250	0.0113	0.00342	<0.00800	0.555
Post-Metals	11/17/20	<0.0400	0.170	<0.00800	0.0141	0.249	0.0939	0.00371	<0.0080	0.00742	0.288	<0.00800	<0.0200	<0.000250	0.0156	<0.00800	<0.00800	0.0326
Post-Metals	01/27/21	<0.00800	0.137	<0.00800	<0.00800	0.133	0.123	<0.00800	<0.0080	<0.00800	0.260	<0.00800	<0.00800	<0.000250	0.015	<0.00800	<0.00800	0.0191
Post-Metals	11/11/22	0.0197	0.0395	<0.00400	0.147	<b>1.55</b>	0.119	<0.00500	0.0102	0.0156	0.109	<0.00200	<0.00500	<0.000200	<0.00200	<0.00200	<0.00200	0.245
Post-Metals	05/08/23	0.0200	0.0927	<0.00500	0.0130	0.501	0.119	<0.00500	0.0160	0.0130	0.163	<0.00200	<0.00400	<0.000200	<0.00200	<0.00200	<0.00200	0.0810
Post-Metals	08/04/23	0.0572	0.174	<0.00500	0.0184	0.366	0.170	<0.00500	0.0169	0.00537	0.153	<0.00200	<0.00400	<0.000200	<0.00200	<0.00200	<0.00200	0.133
Post-Metals	08/30/23	0.0361	0.126	<0.00500	0.0229	<b>1.01</b>	0.167	<0.00500	0.0126	0.00537	0.153	<0.00200	<0.00400	<0.000200	<0.00200	<0.00200	<0.00200	0.521
Post-Metals	09/27/23	0.0187	0.0497	<0.00200	0.00533	0.331	0.105	<0.00500	0.00478	0.00578	0.232	<0.00200	<0.00500	<0.000200	<0.00200	<0.00200	<0.0100	0.0284

\*Sample analysis conducted by TraceAnalysis, Inc.

\*\*Sample analysis conducted by ALS Environmental Laboratories.

\*\*\*Sample analysis conducted by Permian Basin Environmental Lab L.P.

\*\*\*\*Sample analysis conducted by Xenco Laboratories

N/A - Laboratory failed to complete the analysis on the eight RCRA metals



TABLE 11

HISTORICAL BTEX CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

Results and Regulatory Guidelines in mg/L

Sample Date	Sample Location	Benzene	Toluene	Ethylbenzene	Xylenes
<b>NMOCD Regulatory Guideline</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>
09/02/10	Post Carbon	<0.001	<0.001	<0.001	<0.001
09/10/10	Post Carbon	<0.001	<0.001	<0.001	<0.001
09/16/10	Post Carbon	<0.001	<0.001	<0.001	<0.001
09/23/10	Post Carbon	<0.001	<0.001	<0.001	<0.001
10/25/10	Post Carbon	<0.001	<0.001	<0.001	<0.001
11/23/10	Post Carbon	0.0047	<0.001	<0.001	<0.001
01/28/11	Post Carbon	<0.001	<0.001	<0.001	<0.001
02/28/11	Post Carbon	<b>0.0319</b>	0.037	0.0338	0.0992
03/18/11	Post Carbon	<0.001	<0.001	<0.001	<0.001
04/28/11	Post Carbon	<0.001	<0.001	<0.001	<0.001
07/13/11	Post Carbon	<0.001	<0.001	<0.001	<0.001
07/28/11	Post Carbon	<0.001	<0.001	<0.001	<0.001
08/16/11	Post Carbon	<0.001	<0.001	<0.001	<0.001
09/21/11	Post Carbon	<0.001	<0.001	<0.001	<0.001
10/27/11	Post Carbon	<0.001	<0.001	<0.001	<0.001
11/17/11	Post Carbon	<0.001	<0.001	<0.001	<0.001
01/26/12	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
02/28/12	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
03/29/12	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
05/24/12	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
08/03/12	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
12/31/12	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
01/31/13	Post Carbon*	<0.00100	<0.00100	<0.00100	<0.00100
02/27/13	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
03/28/13	Post Carbon**	<b>0.114</b>	0.0406	0.0059	0.059
04/12/13	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
06/24/13	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
07/29/13	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
08/29/13	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
09/25/13	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
10/30/13	Post Carbon	<0.00100	<0.00100	<0.00300	<0.00300
11/26/13	Post Carbon	0.00150	<0.00100	<0.00300	<0.00300
12/26/13	Post Carbon	<0.00100	<0.00100	<0.00300	<0.00300
01/31/14	Post Carbon	<0.00100	<0.00100	<0.00100	<0.003
02/28/14	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00300
03/26/14	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00300

TABLE 11

HISTORICAL BTEX CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

Results and Regulatory Guidelines in mg/L

Sample Date	Sample Location	Benzene	Toluene	Ethylbenzene	Xylenes
<b>NMOCD Regulatory Guideline</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>
04/30/14	Post Carbon***	0.733	0.141	0.0997	0.316
05/13/14	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00300
05/27/14	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00300
06/24/14	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00300
07/28/14	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
08/27/14	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
09/30/14	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
10/29/14	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
11/25/14	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
12/17/14	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
03/25/15	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
06/30/15	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
07/27/15	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
08/24/15	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
09/08/15	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
09/23/15	Post Carbon****	0.03570	0.0035	0.0021	0.0117
09/29/15	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
10/28/15	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
11/19/15	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
01/20/16	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
02/29/16	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
03/28/16	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
04/27/16	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
05/24/16	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
06/28/16	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
07/25/16	Post Carbon	0.00430	<0.00100	<0.00100	0.00140
08/29/16	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
09/30/16	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
10/31/16	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00100
11/28/16	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00200
01/24/17	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00200
03/08/17	Post Carbon	<0.00200	<0.00150	<0.00200	<0.00200
03/30/17	Post Carbon	<0.00200	<0.00150	<0.00200	<0.00200
04/28/17	Post Carbon	<0.00200	<0.00150	<0.00200	<0.00200
05/30/17	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00400
06/29/17	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00400
07/31/17	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00400



TABLE 11

HISTORICAL BTEX CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

Results and Regulatory Guidelines in mg/L

Sample Date	Sample Location	Benzene	Toluene	Ethylbenzene	Xylenes
<b>NMOCD Regulatory Guideline</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>
09/11/17	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00400
09/27/17	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00400
11/30/17	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00400
12/28/17	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00400
01/30/18	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00400
02/27/18	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00400
03/26/18	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00400
04/30/18	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00400
06/04/18	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00400
07/17/18	Post Carbon	<0.00200	<0.00200	<0.00200	<0.00400
10/30/18	Post Carbon	<0.00100	<0.0100	<0.00500	<0.0200
11/15/18	Post Carbon	<0.00100	<0.0100	<0.00500	<0.0200
04/22/19	Post Carbon	<0.00100	<0.0100	<0.0100	<0.00200
07/09/19	Post Carbon	<0.00100	<0.0100	<0.0100	<0.00200
01/23/20	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00200
02/28/20	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00200
03/25/20	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00200
05/26/20	Post Carbon	<0.00100	<0.00500	<0.00500	<0.00500
06/18/20	Post Carbon	<0.00100	<0.00500	<0.00500	<0.00500
07/14/20	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00200
08/25/20	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00200
09/29/20	Post Carbon	0.00189	<0.00100	<0.00100	<0.00200
11/03/20	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00200
11/17/20	Post Carbon	0.00230	<0.00100	<0.00100	<0.00200
01/27/21	Post Carbon	<b>0.06440</b>	0.0126	0.0194	0.0582
11/11/22	Post Carbon	<0.00100	<0.00100	<0.00100	<0.00200
08/30/23	Post-Metals	<0.00100	<0.00100	<0.00100	<0.00200
09/27/23	Post-Carbon	<0.00100	<0.00100	<0.00100	<0.00200

Samples were not collected in the months of April, June, July, September, October, and November of 2012 due to bad weather and/or repairs.

Samples were not collected in the months of April and May 2013 due to system maintenance and repairs.



TABLE 12

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

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		...
Post Carbon	01/28/11	<0.000188	<0.000188	<0.000188		<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188
Post Carbon	02/28/11	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190
Post Carbon	03/18/11	<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	<0.000183
Post Carbon	04/28/11	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Post Carbon	05/01/11	PAH Analysis not conducted - System inoperable due to mechanical issues																		
Post Carbon	06/01/11	PAH Analysis not conducted due to elevated BTEX concentrations																		
Post Carbon	07/13/11	PAH Analysis inadvertently not conducted																		
Post Carbon	07/28/11	PAH Analysis inadvertently not conducted																		
Post Carbon	08/16/11	<0.0002	<0.0002	<0.0002	<b>0.000213</b>	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000216	<0.0002	<0.0002	0.000238	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Post Carbon	09/21/11	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00101	0.00158	0.00102	<0.0002	
Post Carbon	10/27/11	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Post Carbon	11/17/11	<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	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
Post Carbon	01/26/12	<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	
Post Carbon	02/28/12	<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	
Post Carbon	03/29/12	<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	
Post Carbon	05/24/12	<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	
Post Carbon	08/03/12	<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	
Post Carbon	12/31/12	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	
Post Carbon*	01/31/13	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	<0.000199	
Post Carbon	02/27/13	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	
Post Carbon	04/12/13	<0.000220	<0.000220	<0.000220	<0.000220	<0.000220	<0.000220	<0.000220	<0.000220	<0.000220	<0.000220	<0.000220	<0.000220	<0.000220	<0.000220	<0.000220	<0.000220	<0.000220	<0.000220	
Post Carbon	06/24/13	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	
Post Carbon	07/29/13	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	
Post Carbon	08/29/13	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	

TABLE 12

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

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		...
Post Carbon	09/25/13	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197	<0.000197
Post Carbon	10/30/13	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
Post Carbon	11/26/13	<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
Post Carbon	12/26/13	<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
Post Carbon	01/31/14	<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
Post Carbon	02/28/14	<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
Post Carbon	03/26/14	<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
Post Carbon**	05/13/14	<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
Post Carbon	05/27/14	<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
Post Carbon	06/24/14	PAH Analysis inadvertently not conducted																		
Post Carbon	07/28/14	<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
Post Carbon	09/30/14	<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
Post Carbon	10/29/14	<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
Post Carbon	11/25/14	<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
Post Carbon	12/17/14	<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
Post Carbon	03/25/15	<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
Post Carbon	06/30/15	<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
Post Carbon	07/27/15	<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
Post Carbon	09/23/15	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202	<0.000202
Post Carbon	09/29/15	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195
Post Carbon	10/28/15	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196
Post Carbon	11/19/15	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195

TABLE 12

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

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		...
Post Carbon***	01/20/16	<0.000329	<0.000575	<0.000318	<0.0000714	<0.0000414	<0.0000703	<0.0000514	<0.0000555	<0.0000803	<0.0000556	<0.0000632	<0.0000780	<0.0000532	<0.0000511	<0.0000411	<0.0000649	<0.0000656	<0.0000511	<0.0000601
Post Carbon***	02/29/16	<0.000330	<0.000578	<0.000319	<0.0000717	<0.0000416	<0.0000706	<0.0000516	<0.0000558	<0.0000807	<0.0000559	<0.0000635	<0.0000784	<0.0000534	<0.0000513	<0.0000413	<0.0000653	<0.0000660	<0.0000513	<0.0000604
Post Carbon***	03/28/16	<0.000330	<0.000578	<0.000319	<0.0000717	<0.0000416	<0.0000706	<0.0000516	<0.0000558	<0.0000807	<0.0000559	<0.0000635	<0.0000784	<0.0000534	<0.0000513	<0.0000413	<0.0000653	<0.0000660	<0.0000513	<0.0000604
Post Carbon***	04/27/16	<0.000330	<0.000578	<0.000319	<0.0000717	<0.0000416	<0.0000706	<0.0000516	<0.0000558	<0.0000807	<0.0000559	<0.0000635	<0.0000784	<0.0000534	<0.0000513	<0.0000413	<0.0000653	<0.0000660	<0.0000513	<0.0000604
Post Carbon***	05/24/16	<0.000325	<0.000569	<0.000314	<0.0000706	<0.0000410	<0.0000696	<0.0000509	<0.0000550	<0.0000795	<0.0000551	<0.0000625	<0.0000772	<0.0000526	<0.0000506	<0.0000407	<0.0000643	<0.0000650	<0.0000506	<0.0000595
Post Carbon***	06/28/16	<0.000315	<0.000551	<0.000304	<0.0000684	<0.0000396	<0.0000673	<0.0000492	<0.0000532	<0.0000769	<0.0000533	<0.0000605	<0.0000747	<0.0000509	<0.0000489	<0.0000393	<0.0000622	<0.0000628	<0.0000489	<0.0000575
Post Carbon***	07/25/16	<0.000324	<0.000567	<0.000313	<0.0000704	<0.0000408	<0.0000693	<0.0000506	<0.0000548	<0.0000792	<0.0000548	<0.0000623	<0.0000769	<0.0000524	<0.0000504	<0.0000405	<0.0000640	<0.0000647	<0.0000504	<0.0000592
Post Carbon***	08/29/16	<0.000307	<0.000538	<0.000297	<0.0000668	<0.0000387	<0.0000657	<0.0000480	<0.0000519	<0.0000751	<0.0000520	<0.0000591	<0.0000730	<0.0000497	<0.0000478	<0.0000384	<0.0000607	<0.0000614	<0.0000478	<0.0000562
Post Carbon***	09/30/16	<0.000325	<0.000569	<0.000314	<0.0000706	<0.0000410	<0.0000696	<0.0000509	<0.0000550	<0.0000795	<0.0000551	0.000131	<0.0000772	<0.0000526	<0.0000506	0.000182	<0.0000643	0.000114	0.000219	<0.0000595
Post Carbon***	10/31/16	<0.000306	<0.000536	<0.000296	<0.0000665	<0.0000385	<0.0000655	<0.0000478	<0.0000517	<0.0000748	<0.0000518	<0.0000588	<0.0000726	<0.0000495	<0.0000476	0.000130	<0.0000605	0.0000991	0.000186	<0.0000560
Post Carbon	11/28/16	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288	<0.000288
Post Carbon	01/24/17	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278
Post Carbon	03/08/17	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273	<0.000273
Post Carbon	03/30/17	PAH Analysis not conducted due to laboratory error																		
Post Carbon	04/28/17	PAH Analysis inadvertently not conducted																		
Post Carbon	05/30/17	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
Post Carbon	06/29/17	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187
Post Carbon	07/31/17	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182
Post Carbon	09/11/17	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108
Post Carbon	09/27/17	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
Post Carbon	11/30/17	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181



TABLE 12

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

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		...
Post Carbon	12/28/17	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181	<0.000181		<0.000362		<0.000181
Post Carbon	01/30/18	PAH Analysis not conducted due to laboratory error																		
Post Carbon	02/27/18	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109		<0.000109		<0.000109
Post Carbon	03/26/18	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110		<0.000110		<0.000110
Post Carbon	04/30/18	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110		0.000534		<0.000110
Post Carbon	06/04/08	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110		<0.000110		<0.000110
Post Carbon	07/18/18	<0.000109	<0.000109	0.000111	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	0.000137	<0.000109	0.000417	<0.000109			0.000332		0.000187
Post Carbon	10/30/18	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011		<0.00011		<0.00011
Post Carbon	11/15/18	<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
Post Carbon	04/01/19	<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
Post Carbon	07/09/19	<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
Post Carbon	01/23/20	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099		<0.000099		<0.000099
Post Carbon	02/28/20	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097		<0.000097		<0.000097
Post Carbon	03/25/20	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098		<0.000098		<0.000098
Post Carbon	05/26/20	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099		<0.000099		<0.000099
Post Carbon	06/18/20	<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
Post Carbon	07/14/20	<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
Post Carbon	08/25/20	<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
Post Carbon	09/29/20	<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
Post Carbon	11/17/20	<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
Post Carbon	11/17/20	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099		<0.000099		<0.000099
Post Carbon	01/27/21	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099		0.0050		<0.000099

TABLE 12

HISTORICAL POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

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		...	
Post Carbon	11/11/22	<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	0.00049		<0.00010	
Post Carbon	09/27/23	<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	

Samples were not taken in the months of April, June, July, September, October, and November of 2012 due to bad weather and/or repairs.

\*Resampled Post Carbon due to WQCC Metal sample results of 12/31/12 exceeding WQCC standards.

\*\*Resampled Post Carbon sample due to inconsistent analytical results of 4/30/14, likely due to field error.

□□□□□□

### GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: <b>01/01/23</b>		Job ID: <b>GW-0294</b>	
Facility Name: <b>TNM 97-04</b>		Constituent: <b>Benzene</b>	
Conducted By: <b>TRC</b>		Concentration Units: <b>mg/L</b>	

Sampling Point ID:	<b>MW-10</b>	<b>MW-9</b>	<b>MW-5</b>	<b>MW-6</b>	<b>MW-15</b>	<b>MW-14</b>
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Sampling Event	Sampling Date	BENZENE CONCENTRATION (mg/L)					
1	02/04/14					0.00100	0.00130
□	05/28/14					0.394	0.00100
□	08/23/14					0.0254	0.00100
□	11/18/14	0.00100				0.366	0.00100
5	02/19/15				0.579	0.164	0.00100
6	05/12/15					0.00100	0.00210
□	08/18/15				0.324	0.00100	0.00100
□	11/23/15	0.00100			0.286	0.00100	0.00100
□	02/24/16				0.682	0.00100	0.00100
10	06/13/16				0.254	0.00100	0.00100
11	08/03/16				0.129	0.00100	0.00100
1□	11/28/16	0.00200			0.254	0.00200	0.00200
1□	02/21/17				0.246	0.00200	0.00200
1□	05/24/17					0.00200	0.00200
15	08/11/17					0.00200	0.00200
16	11/28/17	0.00200				0.00200	0.00200
1□	02/26/18					0.00200	0.00200
1□	05/07/18					0.00200	0.00200
1□	08/09/18					0.00100	0.00200
□0	11/14/18	0.00100				0.00100	0.00100
□1	02/18/19		0.00893			0.00100	0.00100
□□	05/14/19		0.0239			0.00100	0.00100
□□	08/19/19		0.00796			0.00100	0.00100
□□	11/11/19	0.00100	0.0141			0.00100	0.00100
□5	02/18/20					0.00100	0.00100
□6	06/11/20					0.000500	0.00194
□□	09/23/20					0.00100	0.00100
□□	12/24/20	0.00100				0.00100	0.00100
□□	03/23/21					0.00100	0.00100
□0	06/04/21					0.00100	0.00100
□1	09/30/21					0.00100	0.00100
□□	12/09/21	0.00100	0.0141	8.13	0.00100	0.00100	0.00100
□□	03/08/22	0.00100	0.0166	6.80	0.265	0.00100	0.00100
□□	05/18/22	0.00100	0.0146	8.63	0.316	0.00100	0.00100
□5	08/09/22	0.00100	0.0139	6.91	0.239	0.00100	0.00100
□6	11/15/22	0.00100	0.0195	5.93	0.207	0.00100	0.00100
□□	02/14/23	0.00100	0.0148	5.60	0.00563	0.00100	0.00100
□□	05/16/23	0.00100	0.0126	25.0	0.0643	0.00100	0.00100
□□	08/09/23	0.00100	0.00952	4.96	0.359	0.00100	0.00100
□0	12/07/23	0.00100	0.0111	8.91	1.15	0.00100	0.00100

Coefficient of Variation:	0.32	0.30	0.72	0.72	3.40	0.35
Mann-Kendall Statistic (S):	-16	6	-3	-56	-223	-122
Confidence Factor:	79.1%	64.8%	61.4%	99.8%	99.8%	93.6%
Concentration Trend:	Stable	No Trend	Stable	Decreasing	Decreasing	Prob. Decreasing

**Notes:**

- Methodology is valid for 4 to 40 samples.
- ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Ground Water MW-15 is 0.000.

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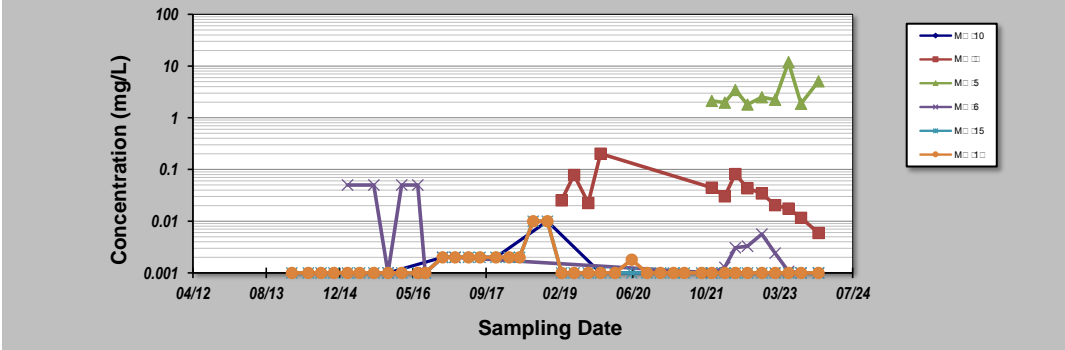
### GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: <b>01/01/23</b>	Job ID: <b>GW-0294</b>
Facility Name: <b>TNM 97-04</b>	Constituent: <b>Toluene</b>
Conducted By: <b>TRC</b>	Concentration Units: <b>mg/L</b>

Sampling Point ID:	<b>MW-10</b>	<b>MW-9</b>	<b>MW-5</b>	<b>MW-6</b>	<b>MW-15</b>	<b>MW-14</b>
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Sampling Event	Sampling Date	TOLUENE CONCENTRATION (mg/L)					
		MW-10	MW-9	MW-5	MW-6	MW-15	MW-14
1	02/04/14					0.00100	0.00100
□	05/28/14					0.00100	0.00100
□	08/23/14					0.00100	0.00100
□	11/18/14	0.00100				0.00100	0.00100
5	02/19/15				0.0500	0.00100	0.00100
6	05/12/15					0.00100	0.00100
□	08/18/15				0.0500	0.00100	0.00100
□	11/23/15	0.00100			0.00100	0.00100	0.00100
□	02/24/16				0.0500	0.00100	0.00100
10	06/13/16				0.0500	0.00100	0.00100
11	08/03/16				0.00100	0.00100	0.00100
1□	11/28/16	0.00200			0.00200	0.00200	0.00200
1□	02/21/17				0.00200	0.00200	0.00200
1□	05/24/17					0.00200	0.00200
15	08/11/17					0.00200	0.00200
16	11/28/17	0.00200				0.00200	0.00200
1□	02/26/18					0.00200	0.00200
1□	05/07/18					0.00200	0.00200
1□	08/09/18					0.0100	0.0100
□0	11/14/18	0.0100				0.0100	0.0100
□1	02/18/19		0.0254			0.00100	0.00100
□□	05/14/19		0.0786			0.00100	0.00100
□□	08/19/19		0.0224			0.00100	0.00100
□□	11/11/19	0.00100	0.202			0.00100	0.00100
□5	02/18/20					0.00100	0.00100
□6	06/11/20					0.00100	0.00180
□□	09/23/20					0.00100	0.00100
□□	12/24/20	0.00100				0.00100	0.00100
□□	03/23/21					0.00100	0.00100
□0	06/04/21					0.00100	0.00100
□1	09/30/21					0.00100	0.00100
□□	12/09/21	0.00100	0.0444	2.12	0.00100	0.00100	0.00100
□□	03/08/22	0.00100	0.0302	1.96	0.00128	0.00100	0.00100
□□	05/18/22	0.00100	0.0817	3.46	0.00307	0.00100	0.00100
□5	08/09/22	0.00100	0.0435	1.80	0.00327	0.00100	0.00100
□6	11/15/22	0.00100	0.0346	2.50	0.00565	0.00100	0.00100
□□	02/14/23	0.00100	0.0204	2.24	0.00241	0.00100	0.00100
□□	05/16/23	0.00100	0.0176	11.90	0.00107	0.00100	0.00100
□□	08/09/23	0.00100	0.0116	1.86	0.00100	0.00100	0.00100
□0	12/07/23	0.00100	0.00591	5.10	0.00100	0.00100	0.00100

Coefficient of Variation:	1.34	0.98	0.98	1.47	1.22	1.21
Mann-Kendall Statistic (S):	-19	-17	7	-17	-49	-45
Confidence Factor:	83.5%	89.1%	80.9%	78.2%	72.6%	70.9%
Concentration Trend:	No Trend	Stable	No Trend	No Trend	No Trend	No Trend



- Notes:**
- Methodology is valid for 4 to 40 samples.
  - ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
  - Mann-Kendall Statistic (S) is calculated using the Mann-Kendall test for trend in time series data. Ground Water is 55 to 6000.

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### GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: <b>01/01/23</b>		Job ID: <b>GW-0294</b>	
Facility Name: <b>TNM 97-04</b>		Constituent: <b>Ethylbenzene</b>	
Conducted By: <b>TRC</b>		Concentration Units: <b>mg/L</b>	

Sampling Point ID:	<b>MW-10</b>	<b>MW-9</b>	<b>MW-5</b>	<b>MW-6</b>	<b>MW-15</b>	<b>MW-14</b>
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Sampling Event	Sampling Date	ETHYLBENZENE CONCENTRATION (mg/L)					
1	02/04/14					0.00150	0.00160
□	05/28/14					0.0130	0.00100
□	08/23/14					0.00100	0.00100
□	11/18/14	0.00100				0.0249	0.00100
5	02/19/15				0.0912	0.0104	0.00390
6	05/12/15					0.00100	0.00850
□	08/18/15				0.0500	0.00100	0.00100
□	11/23/15	0.00100			0.0413	0.00100	0.00190
□	02/24/16				0.161	0.00100	0.00100
10	06/13/16				0.0578	0.00100	0.00190
11	08/03/16				0.0167	0.00100	0.00100
1□	11/28/16	0.00200			0.0403	0.00200	0.00200
1□	02/21/17				0.0275	0.00200	0.00421
1□	05/24/17					0.00200	0.00200
15	08/11/17					0.00200	0.00200
16	11/28/17	0.00200				0.00200	0.00200
1□	02/26/18					0.00200	0.00200
1□	05/07/18					0.00200	0.00200
1□	08/09/18					0.00500	0.00500
□0	11/14/18	0.00500				0.00500	0.00500
□1	02/18/19		0.0608			0.00100	0.00100
□□	05/14/19		0.119			0.00100	0.00100
□□	08/19/19		0.0565			0.00100	0.00100
□□	11/11/19	0.00100	0.274			0.00100	0.00111
□5	02/18/20					0.00100	0.00100
□6	06/11/20					0.00100	0.00198
□□	09/23/20					0.00100	0.00100
□□	12/24/20	0.00100				0.00100	0.00100
□□	03/23/21					0.00100	0.00100
□0	06/04/21					0.00100	0.00100
□1	09/30/21					0.00100	0.00100
□□	12/09/21	0.00392	0.120	0.643	0.00100	0.00100	0.00100
□□	03/08/22	0.00100	0.0738	0.847	0.0133	0.00100	0.00100
□□	05/18/22	0.00100	0.218	1.08	0.0212	0.00100	0.00100
□5	08/09/22	0.00100	0.200	0.712	0.0242	0.00100	0.00100
□6	11/15/22	0.00100	0.179	0.832	0.00878	0.00100	0.00100
□□	02/14/23	0.00100	0.178	0.651	0.00299	0.00100	0.00114
□□	05/16/23	0.00100	0.266	2.26	0.00203	0.00100	0.00100
□□	08/09/23	0.00100	0.142	0.697	0.00403	0.00100	0.00470
□0	12/07/23	0.00100	0.126	1.36	0.0103	0.00100	0.00100

Coefficient of Variation:	0.77	0.48	0.56	1.18	1.73	0.85
Mann-Kendall Statistic (S):	-21	20	2	-78	-210	-118
Confidence Factor:	83.6%	90.2%	54.8%	>99.9%	99.5%	92.1%

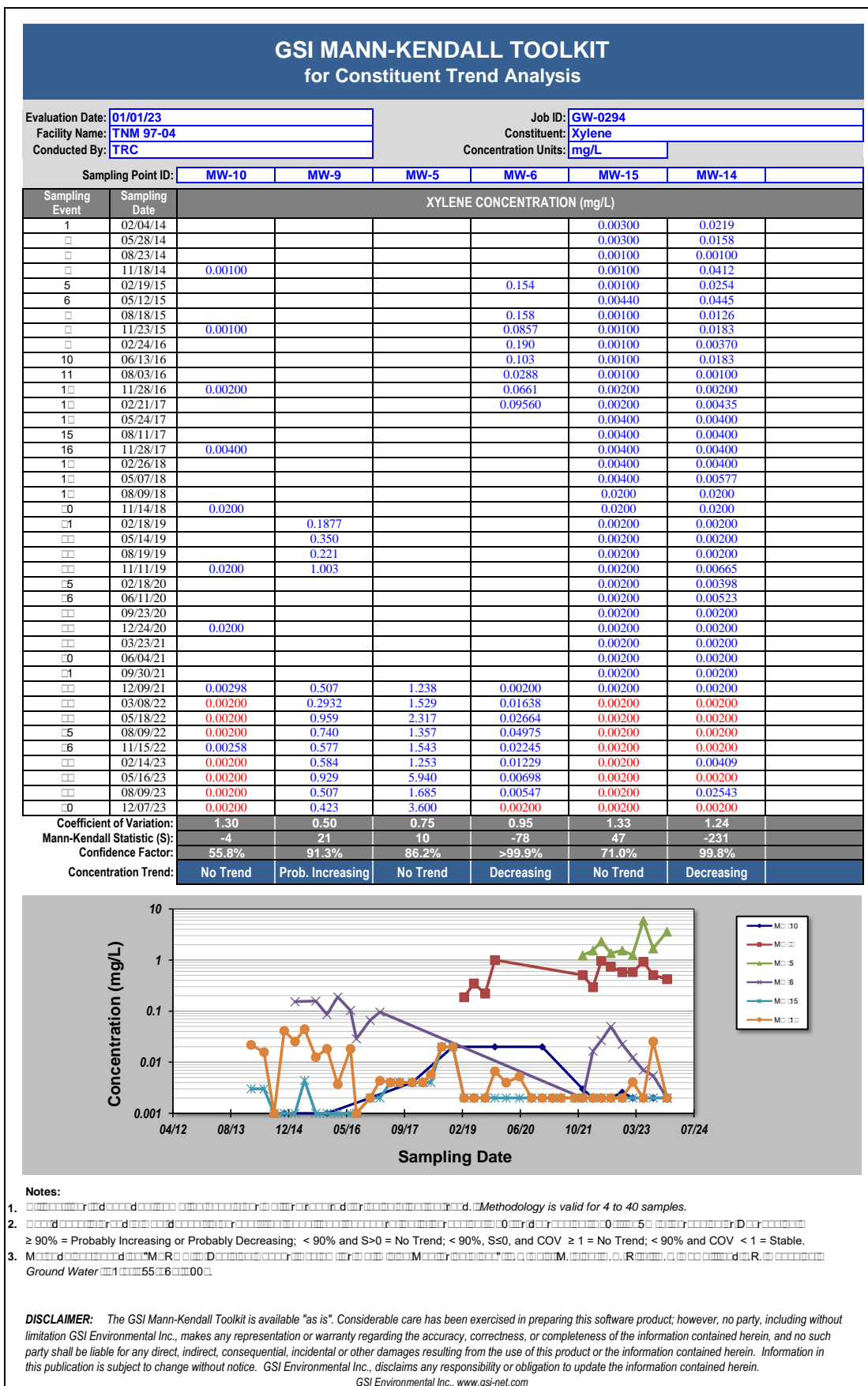
Concentration Trend:	Stable	Prob. Increasing	No Trend	Decreasing	Decreasing	Prob. Decreasing
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**Notes:**

- Methodology is valid for 4 to 40 samples.
- ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Ground Water

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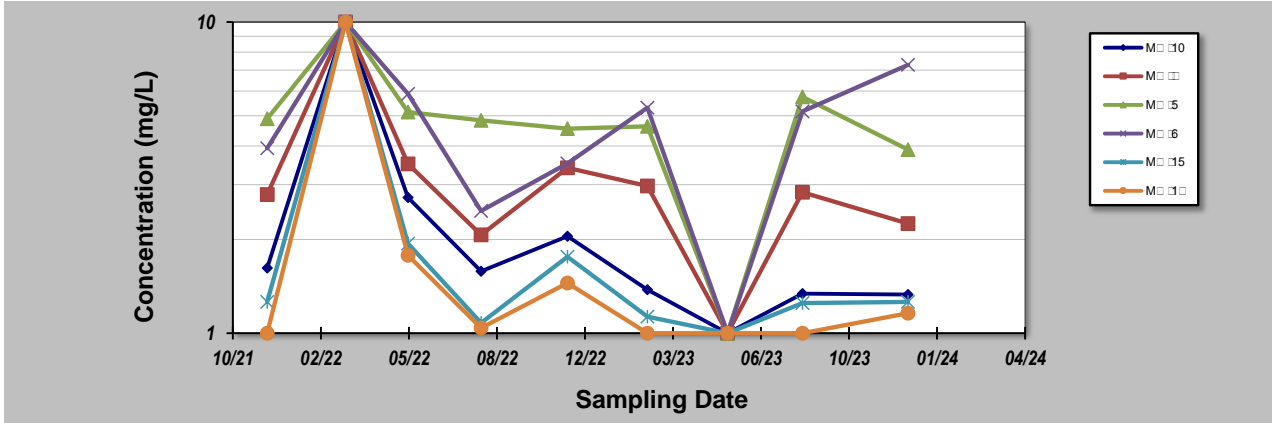
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## GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: <b>01/01/23</b>	Job ID: <b>GW-0294</b>
Facility Name: <b>TNM 97-04</b>	Constituent: <b>Total Organic Carbon (TOC)</b>
Conducted By: <b>TRC</b>	Concentration Units: <b>mg/L</b>

Sampling Event	Sampling Date	TOTAL ORGANIC CARBON (TOC) CONCENTRATION (mg/L)						
		MW-10	MW-9	MW-5	MW-6	MW-15	MW-14	
1	10/01/21	1.6	1.0	1.0	1.0	1.0	1.0	
	05/01/22	10.0	10.0	10.0	10.0	10.0	10.0	
	05/11/22	1.5	1.0	1.0	1.0	1.0	1.0	
5	11/15/22	0.05	0.0	0.5	0.51	1.0	1.5	
6	01/11/23	1.0	1.0	1.0	1.0	1.0	1.0	
	05/16/23	1.00	1.00	1.00	1.00	1.00	1.00	
	06/01/23	1.0	1.0	5.5	5.16	1.5	1.00	
	10/01/23	1.0	1.5	1.0	1.0	1.0	1.16	
10								
11								
11								
11								
15								
16								
11								
11								
11								
10								

Coefficient of Variation:	1.11	0.75	0.47	0.54	1.26	1.37
Mann-Kendall Statistic (S):	-24	-14	-16	-2	-11	-10
Confidence Factor:	99.4%	91.0%	94.0%	54.0%	84.6%	82.1%
Concentration Trend:	Decreasing	Prob. Decreasing	Prob. Decreasing	Stable	No Trend	No Trend



**Notes:**

- Methodology is valid for 4 to 40 samples.
- ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Mann-Kendall Statistic (S) is calculated using the Mann-Kendall test for trend in time series data. The test is based on the ranks of the data points. The test is valid for time series data that are independent and identically distributed. The test is also valid for time series data that are correlated, provided that the correlation is weak. The test is not valid for time series data that are non-stationary or have a strong trend.

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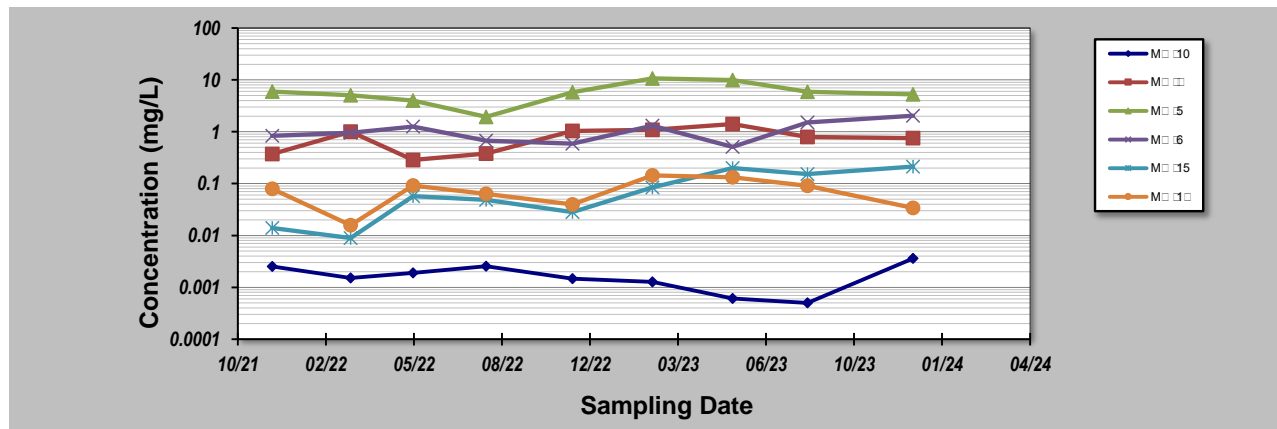
## GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: <b>01/01/23</b>	Job ID: <b>GW-0294</b>
Facility Name: <b>TNM 97-04</b>	Constituent: <b>Dissolved methane (RSK-175)</b>
Conducted By: <b>TRC</b>	Concentration Units: <b>mg/L</b>

Sampling Point ID:	MW-10	MW-9	MW-5	MW-6	MW-15	MW-14
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Sampling Event	Sampling Date	DISSOLVED METHANE (RSK-175) CONCENTRATION (mg/L)					
		MW-10	MW-9	MW-5	MW-6	MW-15	MW-14
1	1/0/23	0.005	0.00	5.00	0.00	0.01	0.006
□	0/0/23	0.00151	1.00	5.05	0.50	0.00	0.015
□	05/1/23	0.001	0.06	0.01	1.06	0.055	0.016
□	0/0/23	0.0055	0.00	1.00	0.60	0.005	0.065
5	11/15/23	0.001	1.00	5.06	0.50	0.00	0.00
6	0/1/23	0.001	1.00	10.00	1.01	0.001	0.10
□	05/16/23	0.00060	1.01	0.06	0.511	0.00	0.10
□	0/0/23	0.000500	0.05	5.00	1.51	0.15	0.00
□	1/0/23	0.0060	0.05	5.00	0.00	0.01	0.001
10							
11							
1□							
1□							
1□							
15							
16							
1□							
1□							
1□							
□							

Coefficient of Variation:	0.56	0.48	0.45	0.47	0.88	0.57
Mann-Kendall Statistic (S):	-12	12	4	10	26	2
Confidence Factor:	87.0%	87.0%	61.9%	82.1%	99.7%	54.0%
Concentration Trend:	Stable	No Trend	No Trend	No Trend	Increasing	No Trend



- Notes:**
- Methodology is valid for 4 to 40 samples.
  - ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
  - Mann-Kendall Statistic (S) and Confidence Factor (CF) are provided for each sampling point. For example, MW-10 has S = -12 and CF = 87.0%.

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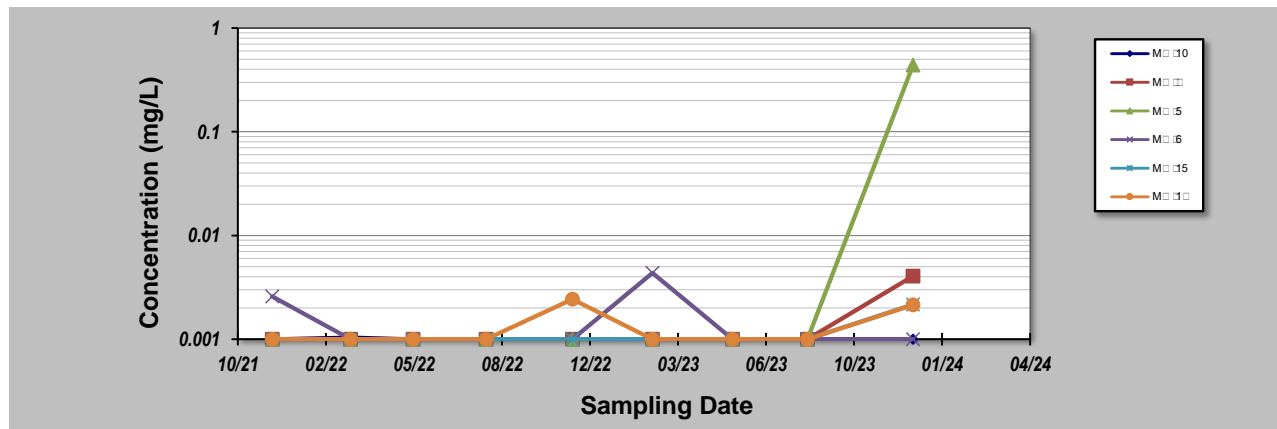
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## GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: <b>01/01/23</b>	Job ID: <b>GW-0294</b>
Facility Name: <b>TNM 97-04</b>	Constituent: <b>Dissolved Ethane (RSK-175)</b>
Conducted By: <b>TRC</b>	Concentration Units: <b>mg/L</b>

Sampling Point ID: **MW-10**    **MW-9**    **MW-5**    **MW-6**    **MW-15**    **MW-14**

Sampling Event	Sampling Date	DISSOLVED ETHANE (RSK-175) CONCENTRATION (mg/L)						
		MW-10	MW-9	MW-5	MW-6	MW-15	MW-14	
1	10/01/21	0.00100	0.00100	0.00100	0.00050	0.00100	0.00100	
□	02/01/22	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	
□	05/01/22	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	
□	08/01/22	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	
5	11/15/22	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	
6	01/11/23	0.00100	0.00100	0.00100	0.00050	0.00100	0.00100	
□	05/16/23	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	
□	08/01/23	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	
□	10/01/23	0.00100	0.00060	0.00050	0.00100	0.00060	0.00050	
10								
11								
1□								
1□								
1□								
15								
16								
1□								
1□								
1□								
□0								
<b>Coefficient of Variation:</b>		0.01	0.76	2.94	0.76	0.34	0.44	
<b>Mann-Kendall Statistic (S):</b>		-6	8	8	-5	8	7	
<b>Confidence Factor:</b>		69.4%	76.2%	76.2%	65.7%	76.2%	72.8%	
<b>Concentration Trend:</b>		Stable	No Trend	No Trend	Stable	No Trend	No Trend	



- Notes:**
- Methodology is valid for 4 to 40 samples.
  - ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
  - Mann-Kendall Statistic (S) and Confidence Factor (CF) are calculated for each monitoring point. Ground Water: 10/01/21 05/01/22 08/01/22 11/15/22 01/11/23 05/16/23 08/01/23 10/01/23 01/01/24

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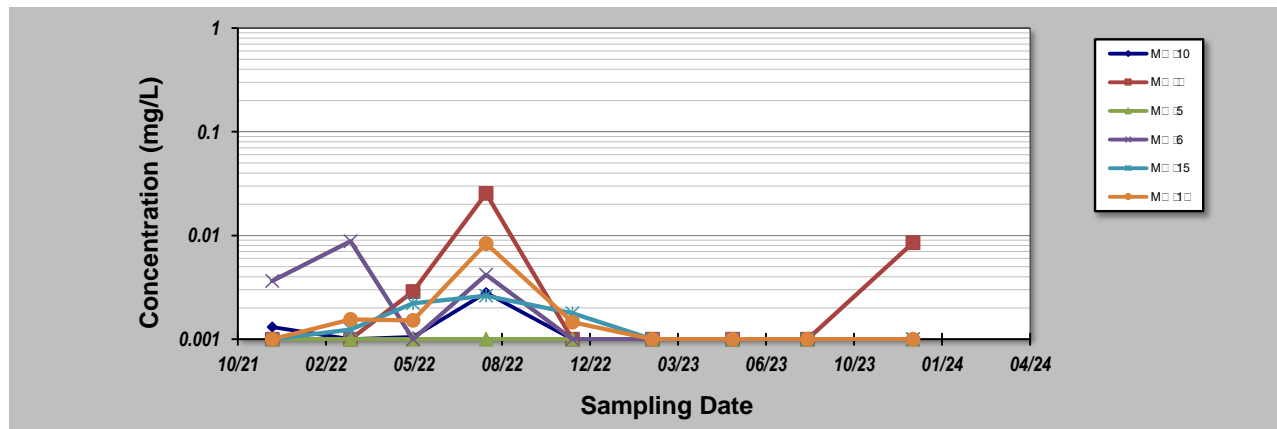
## GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: <b>01/01/23</b>	Job ID: <b>GW-0294</b>
Facility Name: <b>TNM 97-04</b>	Constituent: <b>Dissolved Ethene (RSK-175)</b>
Conducted By: <b>TRC</b>	Concentration Units: <b>mg/L</b>

Sampling Point ID: **MW-10**    **MW-9**    **MW-5**    **MW-6**    **MW-15**    **MW-14**

Sampling Event	Sampling Date	DISSOLVED ETHENE (RSK-175) CONCENTRATION (mg/L)					
		MW-10	MW-9	MW-5	MW-6	MW-15	MW-14
1	10/21/22	0.0010	0.0010	0.0010	0.0006	0.0010	0.0010
□	01/05/23	0.0010	0.0010	0.0010	0.0000	0.0010	0.0015
□	05/11/22	0.0010	0.0010	0.0010	0.0010	0.0010	0.0015
□	01/05/23	0.0000	0.0005	0.0010	0.0001	0.0006	0.0006
5	11/15/22	0.0010	0.0010	0.0010	0.0010	0.0010	0.0016
6	01/11/23	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
□	05/16/22	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
□	01/05/23	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
□	11/01/22	0.0010	0.0051	0.0010	0.0010	0.0010	0.0010
10							
11							
1□							
1□							
1□							
15							
16							
1□							
1□							
1□							
□0							

Coefficient of Variation:	0.48	1.71	0.00	1.06	0.44	1.21
Mann-Kendall Statistic (S):	-13	3	0	-15	-10	-14
Confidence Factor:	89.0%	58.0%	46.0%	92.5%	82.1%	91.0%
Concentration Trend:	Stable	No Trend	Stable	Prob. Decreasing	Stable	Prob. Decreasing



**Notes:**

- Methodology is valid for 4 to 40 samples.
- ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Mann-Kendall Statistic (S) is calculated using the Mann-Kendall test for trend. The test is based on the ranks of the data. The test is valid for data that are independent and identically distributed. The test is also valid for data that are correlated, provided that the correlation is not too strong. The test is also valid for data that are non-normal, provided that the data are not too skewed. The test is also valid for data that are non-stationary, provided that the non-stationarity is not too strong. The test is also valid for data that are non-linear, provided that the non-linearity is not too strong. The test is also valid for data that are non-constant, provided that the non-constancy is not too strong. The test is also valid for data that are non-constant, provided that the non-constancy is not too strong.

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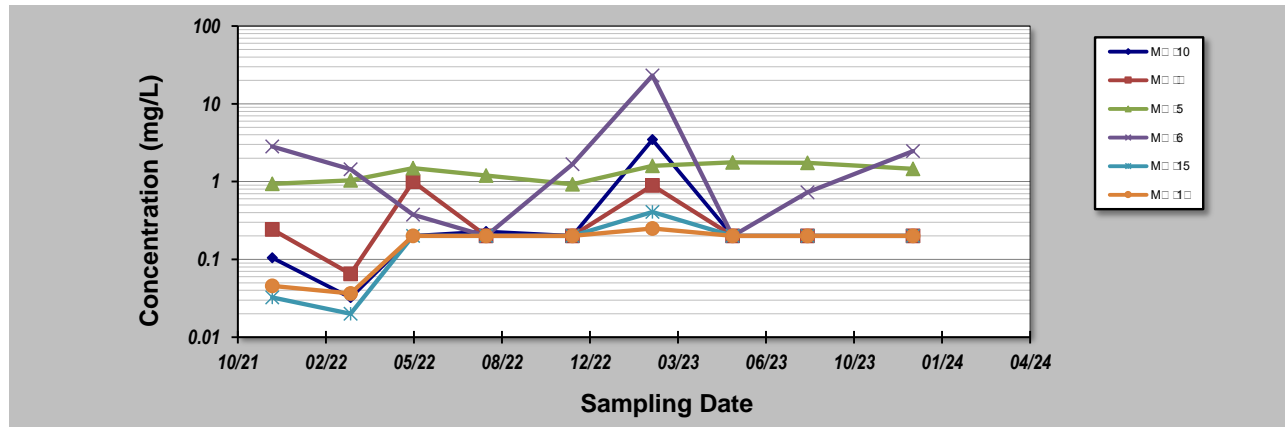
## GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: <b>01/01/23</b>	Job ID: <b>GW-0294</b>
Facility Name: <b>TNM 97-04</b>	Constituent: <b>Total Iron (filtered)</b>
Conducted By: <b>TRC</b>	Concentration Units: <b>mg/L</b>

Sampling Point ID: **MW-10**    **MW-9**    **MW-5**    **MW-6**    **MW-15**    **MW-14**

Sampling Event	Sampling Date	TOTAL IRON (FILTERED) CONCENTRATION (mg/L)					
		MW-10	MW-9	MW-5	MW-6	MW-15	MW-14
1	10/01/21	0.105	0.000	0.000	0.00	0.005	0.050
	00/00/00	0.000	0.0651	1.00	1.00	0.000	0.065
	05/16/22	0.000	0.000	1.00	0.005	0.000	0.000
	00/00/00	0.000	0.000	1.00	0.000	0.000	0.000
5	11/15/22	0.000	0.000	0.005	1.60	0.000	0.000
6	00/01/23	0.06	0.001	1.50	0.01	0.000	0.050
	05/16/22	0.000	0.000	1.00	0.000	0.000	0.000
	00/00/00	0.000	0.000	1.00	0.000	0.000	0.000
	10/00/00	0.000	0.000	1.06	0.00	0.000	0.000
10							
11							
11							
11							
15							
16							
11							
11							
11							
0							

Coefficient of Variation:	2.05	0.95	0.25	2.00	0.61	0.44
Mann-Kendall Statistic (S):	10	-4	16	-1	13	13
Confidence Factor:	82.1%	61.9%	94.0%	50.0%	89.0%	89.0%
Concentration Trend:	No Trend	Stable	Prob. Increasing	No Trend	No Trend	No Trend



- Notes:**
- Methodology is valid for 4 to 40 samples.
  - ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
  - Mann-Kendall Statistic (S) > 0 = Probably Increasing; S < 0 = Probably Decreasing; S = 0 = No Trend.

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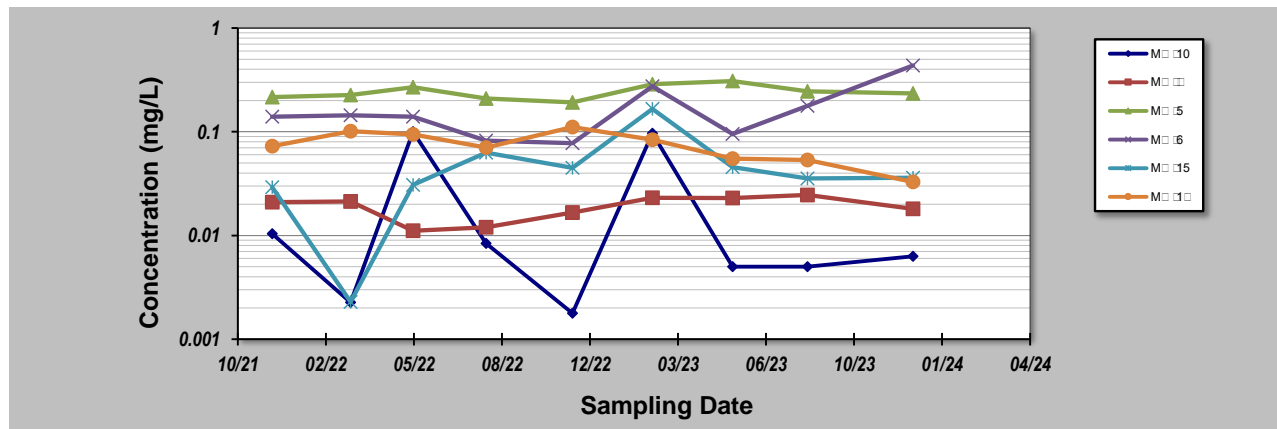
## GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: <b>01/01/23</b>	Job ID: <b>GW-0294</b>
Facility Name: <b>TNM 97-04</b>	Constituent: <b>Total Manganese (filtered)</b>
Conducted By: <b>TRC</b>	Concentration Units: <b>mg/L</b>

Sampling Point ID:	<b>MW-10</b>	<b>MW-9</b>	<b>MW-5</b>	<b>MW-6</b>	<b>MW-15</b>	<b>MW-14</b>	
--------------------	--------------	-------------	-------------	-------------	--------------	--------------	--

Sampling Event	Sampling Date	TOTAL MANGANESE (FILTERED) CONCENTRATION (mg/L)						
		MW-10	MW-9	MW-5	MW-6	MW-15	MW-14	
1	10/21	0.010	0.010	0.16	0.10	0.00	0.00	
	02/22	0.006	0.01	0.06	0.1	0.00	0.101	
	05/22	0.100	0.0111	0.6	0.10	0.00	0.00	
	08/22	0.00	0.010	0.00	0.01	0.060	0.00	
5	11/15	0.001	0.0166	0.1	0.06	0.00	0.111	
	01/16	0.006	0.00	0.00	0.00	0.166	0.016	
	05/16	0.00500	0.00	0.00	0.50	0.55	0.0551	
	08/16	0.00500	0.016	0.5	0.1	0.5	0.05	
	11/16	0.006	0.01	0.00	0.06	0.61	0.00	
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Coefficient of Variation:	1.57	0.26	0.16	0.66	0.92	0.34
Mann-Kendall Statistic (S):	-5	12	8	9	12	-20
Confidence Factor:	65.7%	87.0%	76.2%	79.2%	87.0%	97.8%
Concentration Trend:	No Trend	No Trend	No Trend	No Trend	No Trend	Decreasing



- Notes:**
- Methodology is valid for 4 to 40 samples.
  - ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
  - Mann-Kendall Statistic (S) > 0 = Increasing; S < 0 = Decreasing; S = 0 = No Trend. Confidence Factor (CF) is the probability of a Type I error (false trend) occurring. Ground Water Monitoring Report (GW-MR) is the report that contains the data used for this analysis.

**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.  
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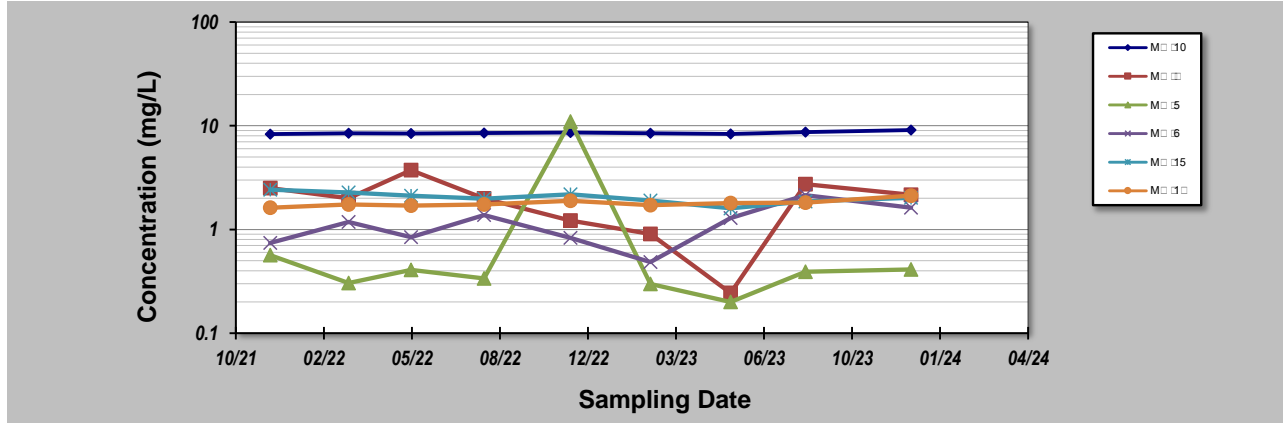
## GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: **01/01/23** Job ID: **GW-0294**  
 Facility Name: **TNM 97-04** Constituent: **Nitrate**  
 Conducted By: **TRC** Concentration Units: **mg/L**

Sampling Point ID: **MW-10** **MW-9** **MW-5** **MW-6** **MW-15** **MW-14**

Sampling Event	Sampling Date	NITRATE CONCENTRATION (mg/L)					
		MW-10	MW-9	MW-5	MW-6	MW-15	MW-14
1	10/01/21	0.01	0.51	0.56	0.00	0.00	1.60
	00/00/00	0.05	0.00	0.05	1.10	0.00	1.00
	05/10/22	0.00	0.00	0.00	0.00	0.10	1.00
	00/00/00	0.50	1.00	0.00	1.00	1.00	1.00
5	11/15/22	0.50	1.00	11.0	0.00	0.10	1.00
6	00/11/23	0.00	0.05	0.00	0.05	1.00	1.00
	05/16/22	0.00	0.00	0.00	1.00	1.60	1.00
	00/00/00	0.60	0.00	0.01	0.10	1.06	1.00
	10/00/00	0.00	0.16	0.11	1.60	0.00	0.10
10							
11							
1							
1							
1							
15							
16							
1							
1							
1							
0							

Coefficient of Variation:	0.03	0.54	2.29	0.44	0.12	0.08
Mann-Kendall Statistic (S):	20	-10	-4	14	-22	23
Confidence Factor:	97.8%	82.1%	61.9%	91.0%	98.8%	99.1%
Concentration Trend:	Increasing	Stable	No Trend	Prob. Increasing	Decreasing	Increasing



**Notes:**

- Methodology is valid for 4 to 40 samples.
- ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Mann-Kendall Statistic (S) > 0 = Increasing; S < 0 = Decreasing; S = 0 = No Trend. Confidence Factor (CF) is the probability of a Type I error (false trend) given the null hypothesis of no trend. Ground Water Monitoring Report (GW-MR) is the report that contains the data used for this analysis.

**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.  
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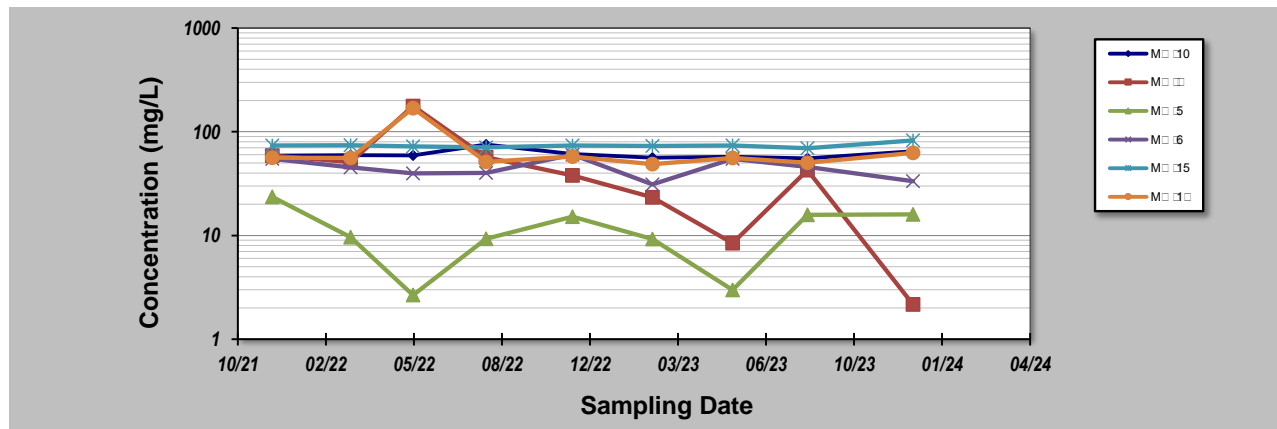
## GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: <b>01/01/23</b>	Job ID: <b>GW-0294</b>
Facility Name: <b>TNM 97-04</b>	Constituent: <b>Sulfate</b>
Conducted By: <b>TRC</b>	Concentration Units: <b>mg/L</b>

Sampling Point ID: **MW-10**    **MW-9**    **MW-5**    **MW-6**    **MW-15**    **MW-14**

Sampling Event	Sampling Date	SULFATE CONCENTRATION (mg/L)					
		MW-10	MW-9	MW-5	MW-6	MW-15	MW-14
1	10/01/21	50	50	6	50	0	56
□	00/00/00	56	51.1	66	5	0	55
□	05/10/22	50	1	66	0	0	16
□	00/00/00	5	56	1	0.1	0.6	51
5	11/15/22	60	0	15	60	0	56
6	00/11/22	56	0	0	1.1	0	0
□	05/16/22	50	1	0	50	0	56
□	00/00/00	55	0	15	5	6	50
□	10/00/00	60	16	16	0	5	65
10							
11							
1□							
1□							
1□							
15							
16							
1□							
1□							
1□							
□							

Coefficient of Variation:	0.10	1.01	0.58	0.22	0.05	0.57
Mann-Kendall Statistic (S):	-4	-24	2	-8	-1	-4
Confidence Factor:	61.9%	99.4%	54.0%	76.2%	50.0%	61.9%
Concentration Trend:	Stable	Decreasing	No Trend	Stable	Stable	Stable



**Notes:**

- Methodology is valid for 4 to 40 samples.
- ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Ground Water: 55.6 mg/L

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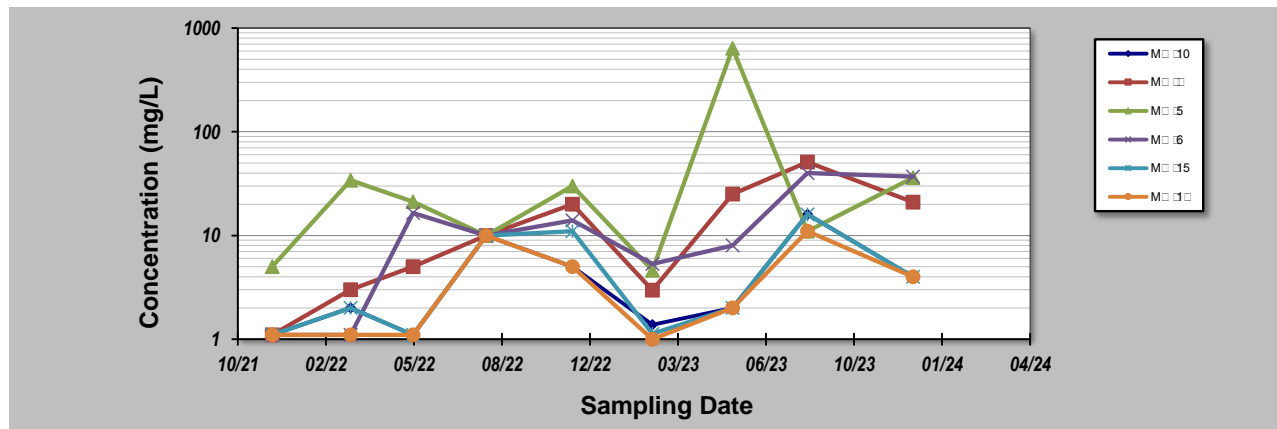
## GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: <b>01/01/23</b>	Job ID: <b>GW-0294</b>
Facility Name: <b>TNM 97-04</b>	Constituent: <b>Chemical Oxygen Demand (COD)</b>
Conducted By: <b>TRC</b>	Concentration Units: <b>mg/L</b>

Sampling Point ID:	<b>MW-10</b>	<b>MW-9</b>	<b>MW-5</b>	<b>MW-6</b>	<b>MW-15</b>	<b>MW-14</b>	
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Sampling Event	Sampling Date	CHEMICAL OXYGEN DEMAND (COD) CONCENTRATION (mg/L)						
		MW-10	MW-9	MW-5	MW-6	MW-15	MW-14	
1	1/0/23	1.10	1.10	5.00	1.10	1.10	1.10	
□	0/0/23	1.00	1.00	1.00	1.10	1.00	1.10	
□	05/1/23	1.10	5.00	1.00	16.5	1.10	1.10	
□	0/0/23	10.0	10.0	10.0	10.0	10.0	10.0	
5	11/15/22	5.00	0.0	0.0	1.0	11.0	5.0	
6	0/1/23	1.00	1.00	6.00	5.01	1.10	1.00	
□	05/16/22	1.00	5.0	6.00	0.00	0.00	0.00	
□	0/0/23	16.0	51.0	11.0	0.0	16.0	11.0	
□	1/0/23	0.00	1.0	6.0	0.0	0.00	0.00	
10								
11								
1□								
1□								
1□								
15								
16								
1□								
1□								
1□								
□0								

Coefficient of Variation:	1.08	1.04	2.35	0.98	1.03	0.98	
Mann-Kendall Statistic (S):	14	24	8	17	16	11	
Confidence Factor:	91.0%	99.4%	76.2%	95.1%	94.0%	84.6%	
Concentration Trend:	Prob. Increasing	Increasing	No Trend	Increasing	Prob. Increasing	No Trend	



- Notes:**
- Methodology is valid for 4 to 40 samples.
  - ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
  - Mann-Kendall Statistic (S) and Confidence Factor (CF) are calculated for each monitoring well. Ground Water MW-15: S=6, CF=00.

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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: 97-04\_MNA  
Project Number: TNM 97-04  
Location: Lea County, NM  
Lab Order Number: 3B15001



**Current Certification**

Report Date: 03/21/23

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

Project: 97-04\_MNA  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10	3B15001-01	Water	02/14/23 10:31	02-15-2023 08:50
MW-15	3B15001-02	Water	02/14/23 11:25	02-15-2023 08:50
MW-14	3B15001-03	Water	02/14/23 12:31	02-15-2023 08:50
MW-5	3B15001-04	Water	02/14/23 13:50	02-15-2023 08:50
MW-9	3B15001-05	Water	02/14/23 14:47	02-15-2023 08:50
MW-6	3B15001-06	Water	02/14/23 15:35	02-15-2023 08:50

Dissolved Gasses 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](https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf)

Due to a failure in our ICP, we also had to send out the dissolve Manganese and Iron to ALS . Pricing will not be affected by this.

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

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-10**  
**3B15001-01 (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	P3B1701	02/17/23 10:52	02/17/23 13:41	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 13:41	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 13:41	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 13:41	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 13:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.6 %	80-120		P3B1701	02/17/23 10:52	02/17/23 13:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.7 %	80-120		P3B1701	02/17/23 10:52	02/17/23 13:41	EPA 8021B	
Ethane	ND	1.00	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13
Ethene	ND	1.00	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13
<b>Methane</b>	<b>0.00128</b>	0.000500	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

Chemical Oxygen Demand	ND	2.00	mg/L	1	P3B2301	02/24/23 14:47	02/28/23 11:28	8000	
Nitrate as N	<b>8.48</b>	0.200	mg/L	1	P3B1507	02/15/23 13:27	02/15/23 14:53	EPA 300.0	
Sulfate	<b>56.2</b>	1.00	mg/L	1	P3B1507	02/15/23 13:27	02/15/23 14:53	EPA 300.0	
Total Organic Carbon	<b>1.38</b>	1.00	mg/L	1	P3B2812	03/01/23 14:27	03/01/23 14:27	EPA 415.1	

**Dissolved Metals by EPA / Standard Methods**

Iron	<b>3.46</b>	0.200	mg/L	1	P3B2107	03/16/23 13:30	03/16/23 22:59	EPA 6020A	SUB-13
Manganese	<b>0.0969</b>	0.00500	mg/L	1	P3B2107	03/16/23 13:30	03/16/23 22:59	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: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-15**  
**3B15001-02 (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	P3B1701	02/17/23 10:52	02/17/23 14:02	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 14:02	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 14:02	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 14:02	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 14:02	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.3 %			P3B1701	02/17/23 10:52	02/17/23 14:02	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		94.8 %			P3B1701	02/17/23 10:52	02/17/23 14:02	EPA 8021B	
Ethane	ND	1.00	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13
Ethene	ND	1.00	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13
<b>Methane</b>	<b>0.0841</b>	0.0250	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

Chemical Oxygen Demand	ND	2.00	mg/L	1	P3B2301	02/24/23 14:47	02/28/23 11:28	8000	
Nitrate as N	<b>1.90</b>	0.200	mg/L	1	P3B1507	02/15/23 13:27	02/15/23 15:55	EPA 300.0	
Sulfate	<b>73.0</b>	1.00	mg/L	1	P3B1507	02/15/23 13:27	02/15/23 15:55	EPA 300.0	
Total Organic Carbon	<b>1.13</b>	1.00	mg/L	1	P3B2812	03/01/23 14:27	03/01/23 14:27	EPA 415.1	

**Dissolved Metals by EPA / Standard Methods**

Iron	<b>0.407</b>	0.200	mg/L	1	P3B2107	03/16/23 13:30	03/16/23 23:01	EPA 6020A	SUB-13
Manganese	<b>0.166</b>	0.00500	mg/L	1	P3B2107	03/16/23 13:30	03/16/23 23:01	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: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-14**  
**3B15001-03 (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	P3B1701	02/17/23 10:52	02/17/23 14:23	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 14:23	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00114</b>	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 14:23	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00409</b>	0.00200	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 14:23	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 14:23	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>93.0 %</i>	<i>80-120</i>			<i>P3B1701</i>	<i>02/17/23 10:52</i>	<i>02/17/23 14:23</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>91.0 %</i>	<i>80-120</i>			<i>P3B1701</i>	<i>02/17/23 10:52</i>	<i>02/17/23 14:23</i>	<i>EPA 8021B</i>	
Ethane	ND	1.00	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13
Ethene	ND	1.00	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13
<b>Methane</b>	<b>0.144</b>	0.0250	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

Chemical Oxygen Demand	ND	2.00	mg/L	1	P3B2301	02/24/23 14:47	02/28/23 11:28	8000	
<b>Nitrate as N</b>	<b>1.72</b>	0.200	mg/L	1	P3B1507	02/15/23 13:27	02/15/23 16:15	EPA 300.0	
<b>Sulfate</b>	<b>48.7</b>	1.00	mg/L	1	P3B1507	02/15/23 13:27	02/15/23 16:15	EPA 300.0	
Total Organic Carbon	ND	1.00	mg/L	1	P3B2812	03/01/23 14:27	03/01/23 14:27	EPA 415.1	

**Dissolved Metals by EPA / Standard Methods**

<b>Iron</b>	<b>0.250</b>	0.200	mg/L	1	P3B2107	03/16/23 13:30	03/16/23 23:03	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.0836</b>	0.00500	mg/L	1	P3B2107	03/16/23 13:30	03/16/23 23:03	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: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-5**  
**3B15001-04 (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**

<b>Benzene</b>	<b>5.60</b>	0.100	mg/L	100	P3B1701	02/17/23 10:52	02/21/23 18:45	EPA 8021B	
<b>Toluene</b>	<b>2.24</b>	0.100	mg/L	100	P3B1701	02/17/23 10:52	02/21/23 18:45	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.651</b>	0.100	mg/L	100	P3B1701	02/17/23 10:52	02/21/23 18:45	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.909</b>	0.200	mg/L	100	P3B1701	02/17/23 10:52	02/21/23 18:45	EPA 8021B	
<b>Xylene (o)</b>	<b>0.344</b>	0.100	mg/L	100	P3B1701	02/17/23 10:52	02/21/23 18:45	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.2 %			<i>P3B1701</i>	<i>02/17/23 10:52</i>	<i>02/21/23 18:45</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>		96.2 %			<i>P3B1701</i>	<i>02/17/23 10:52</i>	<i>02/21/23 18:45</i>	<i>EPA 8021B</i>	
Ethane	ND	0.00100	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13
<b>Methane</b>	<b>10.7</b>	0.250	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>56.0</b>	2.00	mg/L	1	P3B2301	02/24/23 14:47	02/28/23 11:28	8000	
<b>Nitrate as N</b>	<b>0.299</b>	0.200	mg/L	1	P3B1507	02/15/23 13:27	02/15/23 16:36	EPA 300.0	
<b>Sulfate</b>	<b>9.23</b>	1.00	mg/L	1	P3B1507	02/15/23 13:27	02/15/23 16:36	EPA 300.0	
<b>Total Organic Carbon</b>	<b>4.62</b>	1.00	mg/L	1	P3B2812	03/01/23 14:27	03/01/23 14:27	EPA 415.1	

**Dissolved Metals by EPA / Standard Methods**

<b>Iron</b>	<b>1.59</b>	0.200	mg/L	1	P3B2107	03/16/23 13:30	03/16/23 23:05	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.288</b>	0.00500	mg/L	1	P3B2107	03/16/23 13:30	03/16/23 23:05	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-9**  
**3B15001-05 (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**

<b>Benzene</b>	<b>0.0148</b>	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:06	EPA 8021B	
<b>Toluene</b>	<b>0.0204</b>	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:06	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.178</b>	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:06	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.393</b>	0.00200	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:06	EPA 8021B	
<b>Xylene (o)</b>	<b>0.191</b>	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:06	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.0 %	80-120		P3B1701	02/17/23 10:52	02/17/23 15:06	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		83.5 %	80-120		P3B1701	02/17/23 10:52	02/17/23 15:06	EPA 8021B	
Ethane	ND	1.00	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13
Ethene	ND	1.00	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13
<b>Methane</b>	<b>1.09</b>	0.0250	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>16.0</b>	2.00	mg/L	1	P3B2301	02/24/23 14:47	02/28/23 11:28	8000	
<b>Nitrate as N</b>	<b>0.905</b>	0.200	mg/L	1	P3B1507	02/15/23 13:27	02/15/23 16:56	EPA 300.0	
<b>Sulfate</b>	<b>23.3</b>	1.00	mg/L	1	P3B1507	02/15/23 13:27	02/15/23 16:56	EPA 300.0	
<b>Total Organic Carbon</b>	<b>2.97</b>	1.00	mg/L	1	P3B2812	03/01/23 14:27	03/01/23 14:27	EPA 415.1	

**Dissolved Metals by EPA / Standard Methods**

<b>Iron</b>	<b>0.891</b>	0.200	mg/L	1	P3B2107	03/16/23 13:30	03/16/23 23:08	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.0231</b>	0.00500	mg/L	1	P3B2107	03/16/23 13:30	03/16/23 23:08	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-6**  
**3B15001-06 (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**

<b>Benzene</b>	<b>0.00563</b>	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:27	EPA 8021B	
<b>Toluene</b>	<b>0.00241</b>	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:27	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00299</b>	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:27	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.0101</b>	0.00200	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:27	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00219</b>	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:27	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.6 %	80-120		P3B1701	02/17/23 10:52	02/17/23 15:27	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		90.5 %	80-120		P3B1701	02/17/23 10:52	02/17/23 15:27	EPA 8021B	
<b>Ethane</b>	<b>0.00435</b>	0.00100	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13
Ethene	ND	1.00	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13
<b>Methane</b>	<b>1.31</b>	0.0250	mg/L	1	P3B2811	02/28/23 13:06	03/01/23 14:30	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>26.0</b>	2.00	mg/L	1	P3B2301	02/24/23 14:47	02/28/23 11:28	8000	
<b>Nitrate as N</b>	<b>0.485</b>	0.200	mg/L	1	P3B1507	02/15/23 13:27	02/15/23 17:17	EPA 300.0	
<b>Sulfate</b>	<b>31.1</b>	1.00	mg/L	1	P3B1507	02/15/23 13:27	02/15/23 17:17	EPA 300.0	
<b>Total Organic Carbon</b>	<b>5.31</b>	1.00	mg/L	1	P3B2812	03/01/23 14:27	03/01/23 14:27	EPA 415.1	

**Dissolved Metals by EPA / Standard Methods**

<b>Iron</b>	<b>23.1</b>	0.200	mg/L	1	P3B2107	03/16/23 13:30	03/16/23 23:10	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.274</b>	0.00500	mg/L	1	P3B2107	03/16/23 13:30	03/16/23 23:10	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 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 P3B1701 - \*\*\* DEFAULT PREP \*\*\***

Blank (P3B1701-BLK1) <span style="float:right">Prepared &amp; Analyzed: 02/17/23</span>										
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	0.115		"	0.120		96.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			

LCS (P3B1701-BS1) <span style="float:right">Prepared &amp; Analyzed: 02/17/23</span>										
Benzene	0.0832	0.00100	mg/L	0.100		83.2	80-120			
Toluene	0.0839	0.00100	"	0.100		83.9	80-120			
Ethylbenzene	0.0950	0.00100	"	0.100		95.0	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.7	80-120			
Xylene (o)	0.0813	0.00100	"	0.100		81.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	80-120			

LCS Dup (P3B1701-BSD1) <span style="float:right">Prepared &amp; Analyzed: 02/17/23</span>										
Benzene	0.0923	0.00100	mg/L	0.100		92.3	80-120	10.4	20	
Toluene	0.0910	0.00100	"	0.100		91.0	80-120	8.12	20	
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120	6.64	20	
Xylene (p/m)	0.195	0.00200	"	0.200		97.3	80-120	5.87	20	
Xylene (o)	0.0812	0.00100	"	0.100		81.2	80-120	0.197	20	
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		97.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	80-120			

Calibration Blank (P3B1701-CCB1) <span style="float:right">Prepared &amp; Analyzed: 02/17/23</span>										
Benzene	0.160		ug/l							
Toluene	0.250		"							
Ethylbenzene	0.300		"							
Xylene (p/m)	0.990		"							
Xylene (o)	0.390		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.4	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: 97-04\_MNA  
 Project Number: TNM 97-04  
 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 P3B1701 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Blank (P3B1701-CCB2)**

Prepared & Analyzed: 02/17/23

Benzene	0.150		ug/l							
Toluene	0.220		"							
Ethylbenzene	0.370		"							
Xylene (p/m)	0.820		"							
Xylene (o)	0.380		"							
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	80-120			

**Calibration Check (P3B1701-CCV1)**

Prepared & Analyzed: 02/17/23

Benzene	0.101	0.00100	mg/L	0.100		101	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.223	0.00200	"	0.200		111	80-120			
Xylene (o)	0.0932	0.00100	"	0.100		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108	80-120			

**Calibration Check (P3B1701-CCV2)**

Prepared & Analyzed: 02/17/23

Benzene	0.0835	0.00100	mg/L	0.100		83.5	80-120			
Toluene	0.0880	0.00100	"	0.100		88.0	80-120			
Ethylbenzene	0.0943	0.00100	"	0.100		94.3	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.4	80-120			
Xylene (o)	0.0820	0.00100	"	0.100		82.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	80-120			

**Calibration Check (P3B1701-CCV3)**

Prepared & Analyzed: 02/17/23

Benzene	0.0907	0.00100	mg/L	0.100		90.7	80-120			
Toluene	0.0928	0.00100	"	0.100		92.8	80-120			
Ethylbenzene	0.0950	0.00100	"	0.100		95.0	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.0	80-120			
Xylene (o)	0.0835	0.00100	"	0.100		83.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	80-120			

Permian Basin Environmental Lab, L.P.

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 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 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 P3B1701 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P3B1701-MS1)</b>	<b>Source: 3B15001-01</b>			<b>Prepared &amp; Analyzed: 02/17/23</b>						
Benzene	0.0630	0.00100	mg/L	0.100	ND	63.0	80-120			QM-05
Toluene	0.0636	0.00100	"	0.100	ND	63.6	80-120			QM-05
Ethylbenzene	0.0704	0.00100	"	0.100	ND	70.4	80-120			QM-05
Xylene (p/m)	0.135	0.00200	"	0.200	ND	67.4	80-120			QM-05
Xylene (o)	0.0561	0.00100	"	0.100	ND	56.1	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	80-120			

<b>Matrix Spike Dup (P3B1701-MSD1)</b>	<b>Source: 3B15001-01</b>			<b>Prepared &amp; Analyzed: 02/17/23</b>						
Benzene	0.0718	0.00100	mg/L	0.100	ND	71.8	80-120	13.1	20	QM-05
Toluene	0.0734	0.00100	"	0.100	ND	73.4	80-120	14.3	20	QM-05
Ethylbenzene	0.0828	0.00100	"	0.100	ND	82.8	80-120	16.2	20	
Xylene (p/m)	0.160	0.00200	"	0.200	ND	79.8	80-120	16.7	20	QM-05
Xylene (o)	0.0660	0.00100	"	0.100	ND	66.0	80-120	16.3	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.7	80-120			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas	Project: 97-04_MNA
10 Desta Dr STE 150E	Project Number: TNM 97-04
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 P3B1507 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P3B1507-BLK1)</b>										
Prepared & Analyzed: 02/15/23										
Sulfate	ND	1.00	mg/L							
Nitrate as N	ND	0.200	"							

<b>LCS (P3B1507-BS1)</b>										
Prepared & Analyzed: 02/15/23										
Sulfate	20.2		mg/L	20.0		101	90-110			
Nitrate as N	1.85		"	2.00		92.7	90-110			

<b>LCS Dup (P3B1507-BSD1)</b>										
Prepared & Analyzed: 02/15/23										
Sulfate	20.3		mg/L	20.0		102	90-110	0.676	10	
Nitrate as N	1.86		"	2.00		93.0	90-110	0.377	10	

<b>Calibration Blank (P3B1507-CCB1)</b>										
Prepared & Analyzed: 02/15/23										
Sulfate	0.00		mg/L							
Nitrate as N	0.00		"							

<b>Calibration Check (P3B1507-CCV2)</b>										
Prepared & Analyzed: 02/15/23										
Sulfate	21.7		mg/L	20.0		109	90-110			
Nitrate as N	2.00		"	2.00		99.8	90-110			

<b>Matrix Spike (P3B1507-MS1)</b>										
Source: 3B15001-01 Prepared & Analyzed: 02/15/23										
Sulfate	56.5	1.00	mg/L	2.00	56.2	15.5	80-120			QM-05

<b>Matrix Spike Dup (P3B1507-MSD1)</b>										
Source: 3B15001-01 Prepared & Analyzed: 02/15/23										
Sulfate	57.7	1.00	mg/L	2.00	56.2	75.6	80-120	2.11	20	QM-05

**Batch P3B2301 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P3B2301-BLK1)</b>										
Prepared: 02/24/23 Analyzed: 02/28/23										
Chemical Oxygen Demand	ND	2.00	mg/L							

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 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 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
<b>Batch P3B2301 - *** DEFAULT PREP ***</b>										
<b>LCS (P3B2301-BS1)</b>					Prepared: 02/24/23 Analyzed: 02/28/23					
Chemical Oxygen Demand	97.0	2.00	mg/L	100		97.0	80-120			
<b>LCS Dup (P3B2301-BSD1)</b>					Prepared: 02/24/23 Analyzed: 02/28/23					
Chemical Oxygen Demand	104	2.00	mg/L	100		104	80-120	6.97	20	
<b>Calibration Check (P3B2301-CCV1)</b>					Prepared: 02/24/23 Analyzed: 02/28/23					
Chemical Oxygen Demand	99.0	2.00	mg/L	100		99.0	80-120			
<b>Calibration Check (P3B2301-CCV2)</b>					Prepared: 02/24/23 Analyzed: 02/28/23					
Chemical Oxygen Demand	99.0	2.00	mg/L	100		99.0	80-120			
<b>Duplicate (P3B2301-DUP1)</b>					Source: 3B07007-01 Prepared: 02/24/23 Analyzed: 02/28/23					
Chemical Oxygen Demand	60.0	2.00	mg/L		63.0			4.88	20	
<b>Duplicate (P3B2301-DUP2)</b>					Source: 3B15001-04 Prepared: 02/24/23 Analyzed: 02/28/23					
Chemical Oxygen Demand	50.0	2.00	mg/L		56.0			11.3	20	
<b>Matrix Spike (P3B2301-MS1)</b>					Source: 3B10003-01 Prepared: 02/24/23 Analyzed: 02/28/23					
Chemical Oxygen Demand	126	2.00	mg/L	100	24.0	102	80-120			
<b>Matrix Spike (P3B2301-MS2)</b>					Source: 3B10003-04 Prepared: 02/24/23 Analyzed: 02/28/23					
Chemical Oxygen Demand	152	2.00	mg/L	100	380	NR	80-120			QM-05
<b>Matrix Spike Dup (P3B2301-MSD1)</b>					Source: 3B10003-01 Prepared: 02/24/23 Analyzed: 02/28/23					
Chemical Oxygen Demand	128	2.00	mg/L	100	24.0	104	80-120	1.57	20	
<b>Matrix Spike Dup (P3B2301-MSD2)</b>					Source: 3B10003-04 Prepared: 02/24/23 Analyzed: 02/28/23					
Chemical Oxygen Demand	150	2.00	mg/L	100	380	NR	80-120	1.32	20	QM-05

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: 97-04\_MNA  
Project Number: TNM 97-04  
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.
- 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: 3/21/2023

Brent Barron, Laboratory Director/Technical Director

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

Project: 97-04\_MNA  
Project Number: TNM 97-04  
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.





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: 97-04

Company Name: TRC Environmental Corporation

Project #: SRS: TMM 97-04

Company Address: 10 Desta Drive, Ste 130E

Project Loc: Lea County, NM

City/State/Zip: Midland TX 79705

Telephone No: (432) 520-7720

Fax No:

Report Format:  Standard

TRRP

NPDES

Sampler Signature: *[Signature]*

e-mail: [cdstanley@trccompanies.com](mailto:cdstanley@trccompanies.com)

[cjbryant@paalp.com](mailto:cjbryant@paalp.com)  
[khuddgens@paalp.com](mailto:khuddgens@paalp.com)

ANALYZE FOR:	TCLP	TOTAL
TOC MW 5310	X	
Dissolved Methane, Ethane, and Ethene by RSK-175	X	
Total Dissolved Metals (Fe and Mn) by SW 6010	X	
Nitrate and Sulfate by E300	X	
COD by SM 5310	X	
Total BTEX by 8260	X	
RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	X	
Standard TAT	X	

ORDER #: 3815001

LAB # (lab use only)

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	Matrix	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
1	MW-10			8-14-23	10:31	1	9	X	1	1	1	1	1	1		GW	X	X	X	X	X	X	X	X
2	MW-15				11:25	1	9	X	1	1	1	1	1	1		GW	X	X	X	X	X	X	X	X
3	MW-14				12:31	1	9	X	1	1	1	1	1	1		GW	X	X	X	X	X	X	X	X
4	MW-5				13:50	1	9	X	1	1	1	1	1	1		GW	X	X	X	X	X	X	X	X
5	MW-9				14:47	1	9	X	1	1	1	1	1	1		GW	X	X	X	X	X	X	X	X
6	MW-6				15:35	1	9	X	1	1	1	1	1	1		GW	X	X	X	X	X	X	X	X

Special Instructions:

BILL TO PLAINS  
All HNO3 to be filtered at lab

Relinquished by:	Date	Time	Received by:	Date	Time
Manny	2-15-23	8:41	<i>[Signature]</i>	2-15-23	8:50

Relinquished by:	Date	Time	Received by:	Date	Time

Relinquished by:	Date	Time	Received by:	Date	Time
			<i>[Signature]</i>	2-15-23	8:50

Laboratory Comments:

Sample Containers Intact?   
VOCs Free of Headspace?   
Labels on container(s)   
Custody seals on container(s)   
Custody seals on cooler(s)   
Sample Hand Delivered by Sampler/Client Rep?   
by Courier?  UPS  DHL  FedEx  Lone Star

Temperature Upon Receipt: 3.3 °C

Adjusted: 3.3 °C Factor *[Signature]*



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
Fax No:
Sampler Signature: N/A
e-mail: brentbarron@pbelab.com

Project Name: SUBCONTRACT
Project #:
Project Loc:
PO #:
Report Format: X Standard [ ] TRRP [ ] NPDES

Table with columns: LAB #, FIELD CODE, Beginning Depth, Ending Depth, Date Sampled, Time Sampled, Field Filtered, Total #. of Containers, and various chemical analysis categories (ICE, HNO3, HCl, H2SO4, NaOH, Na2S2O3, etc.). Includes a '24 HOUR RUSH' column.

SPECIAL INSTRUCTIONS table with columns for Relinquished by, Date, Time, and Received by.

Laboratory Comments table with rows for Sample Containers Intact?, VOCs Free of Headspace?, Labels on container(s), etc.

Released to Imaging: 7/17/2024 11:30:09 AM

Received by: OCD: 6/5/2024 2:28:20 PM

Page 282 of 599

ORIGIN ID:MAEA (432) 686-7235  
BRENT BARRON  
PBE LAB  
1400 RANKIN HWY  
MIDLAND, TX 79701  
UNITED STATES US

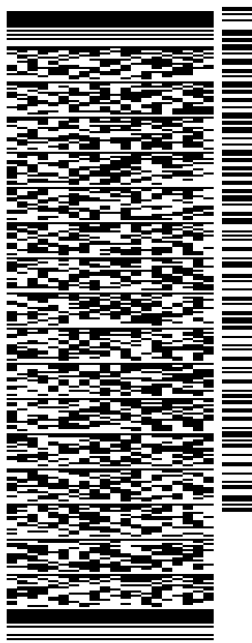
SHIP DATE: 15FEB23  
ACTWGT: 17.00 LB  
CAD: 107136946/IN/ET4580

BILL RECIPIENT

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

**HOUSTON TX 77099**

REF: (281) 530-5615  
INV: PO: DEPT:

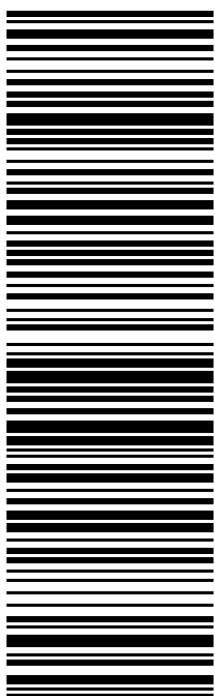


J231023011101uv

581J1/BB02/FE2D

TRK# 7713 1426 0935  
THU - 16 FEB 4:30P  
STANDARD OVERNIGHT

**ABSGRA**  
TX-US **77099**  
**IAH**



**After printing this label:**

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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.



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

Report Format:  Standard  TRRP  NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

ORDER #:	LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers							Matrix	Fe Diss ICP 6010B	Mn Diss ICP 6010B	24 HOUR RUSH
									ICE	HNO <sub>3</sub> 250 poly 1	HCl 3 40mL VOA	H <sub>2</sub> SO <sub>4</sub> 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NONE				
		3B15001-01			2/14/2023	10:31	X	1	X	X								X	
		3B15001-02			2/14/2023	11:25	X	1	X	X								X	
		3B15001-03			2/14/2023	12:31	X	1	X	X								X	
		3B15001-04			2/14/2023	13:50	X	1	X	X								X	
		3B15001-05			2/14/2023	14:47	X	1	X	X								X	
		3B15001-06			2/14/2023	15:35	X	1	X	X								X	

SPECIAL INSTRUCTIONS:

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 Courier? Y N  
 by Sampler/Client Rep. ? Y N  
 Temperature Upon Receipt: °C  
 Adjusted: °C Factor  
 UPS DHL FedEx Lone Star

72 Hour Rush TB



---

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

February 23, 2023

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

Work Order: **HS23020838**

Laboratory Results for: **3B15001**

Dear Brent Barron,

ALS Environmental received 6 sample(s) on Feb 16, 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: 23-Feb-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3B15001  
**Work Order:** HS23020838

**SAMPLE SUMMARY**

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23020838-01	3B15001-01	Water		14-Feb-2023 10:31	16-Feb-2023 13:10	<input type="checkbox"/>
HS23020838-02	3B15001-02	Water		14-Feb-2023 11:25	16-Feb-2023 13:10	<input type="checkbox"/>
HS23020838-03	3B15001-03	Water		14-Feb-2023 12:31	16-Feb-2023 13:10	<input type="checkbox"/>
HS23020838-04	3B15001-04	Water		14-Feb-2023 13:50	16-Feb-2023 13:10	<input type="checkbox"/>
HS23020838-05	3B15001-05	Water		14-Feb-2023 14:47	16-Feb-2023 13:10	<input type="checkbox"/>
HS23020838-06	3B15001-06	Water		14-Feb-2023 15:35	16-Feb-2023 13:10	<input type="checkbox"/>



**ALS Houston, US**

Date: 23-Feb-23

---

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3B15001  
**Work Order:** HS23020838

---

**CASE NARRATIVE**

**GC Semivolatiles by Method RSK-175**

**Batch ID: R428333**

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

**WetChemistry by Method E415.1**

**Batch ID: R428668**

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



**ALS Houston, US**

Date: 23-Feb-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3B15001  
 Sample ID: 3B15001-01  
 Collection Date: 14-Feb-2023 10:31

**ANALYTICAL REPORT**  
 WorkOrder:HS23020838  
 Lab ID:HS23020838-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	17-Feb-2023 12:10
Ethene	ND		1.00	ug/L	1	17-Feb-2023 12:10
<b>Methane</b>	<b>1.28</b>		<b>0.500</b>	<b>ug/L</b>	1	17-Feb-2023 12:10
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: JAC
<b>Organic Carbon, Total</b>	<b>1.38</b>		<b>1.00</b>	<b>mg/L</b>	1	23-Feb-2023 12:30

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





**ALS Houston, US**

Date: 23-Feb-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3B15001  
 Sample ID: 3B15001-02  
 Collection Date: 14-Feb-2023 11:25

**ANALYTICAL REPORT**  
 WorkOrder:HS23020838  
 Lab ID:HS23020838-02  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	17-Feb-2023 12:24
Ethene	ND		1.00	ug/L	1	17-Feb-2023 12:24
<b>Methane</b>	<b>84.1</b>		<b>2.50</b>	<b>ug/L</b>	5	17-Feb-2023 13:34
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: JAC
Organic Carbon, Total	1.13		1.00	mg/L	1	23-Feb-2023 12:43

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



**ALS Houston, US**

Date: 23-Feb-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3B15001  
 Sample ID: 3B15001-03  
 Collection Date: 14-Feb-2023 12:31

**ANALYTICAL REPORT**  
 WorkOrder:HS23020838  
 Lab ID:HS23020838-03  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	17-Feb-2023 12:34
Ethene	ND		1.00	ug/L	1	17-Feb-2023 12:34
<b>Methane</b>	<b>144</b>		<b>2.50</b>	<b>ug/L</b>	5	17-Feb-2023 13:43
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: JAC
Organic Carbon, Total	ND		1.00	mg/L	1	23-Feb-2023 12:55

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



**ALS Houston, US**

Date: 23-Feb-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3B15001  
 Sample ID: 3B15001-04  
 Collection Date: 14-Feb-2023 13:50

**ANALYTICAL REPORT**  
 WorkOrder:HS23020838  
 Lab ID:HS23020838-04  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	17-Feb-2023 12:44
Ethene	ND		1.00	ug/L	1	17-Feb-2023 12:44
<b>Methane</b>	<b>10,700</b>		<b>250</b>	<b>ug/L</b>	500	17-Feb-2023 13:51
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: JAC
<b>Organic Carbon, Total</b>	<b>4.62</b>		<b>1.00</b>	<b>mg/L</b>	1	23-Feb-2023 13:08

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



**ALS Houston, US**

Date: 23-Feb-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3B15001  
 Sample ID: 3B15001-05  
 Collection Date: 14-Feb-2023 14:47

**ANALYTICAL REPORT**  
 WorkOrder:HS23020838  
 Lab ID:HS23020838-05  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	17-Feb-2023 13:08
Ethene	ND		1.00	ug/L	1	17-Feb-2023 13:08
<b>Methane</b>	<b>1,090</b>		<b>25.0</b>	<b>ug/L</b>	50	17-Feb-2023 14:00
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: JAC
<b>Organic Carbon, Total</b>	<b>2.97</b>		<b>1.00</b>	<b>mg/L</b>	1	23-Feb-2023 13:47

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



**ALS Houston, US**

Date: 23-Feb-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3B15001  
 Sample ID: 3B15001-06  
 Collection Date: 14-Feb-2023 15:35

**ANALYTICAL REPORT**  
 WorkOrder:HS23020838  
 Lab ID:HS23020838-06  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	4.35		1.00	ug/L	1	17-Feb-2023 13:25
Ethene	ND		1.00	ug/L	1	17-Feb-2023 13:25
Methane	1,310		25.0	ug/L	50	17-Feb-2023 14:12
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: JAC
Organic Carbon, Total	5.31		1.00	mg/L	1	23-Feb-2023 14:00

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



ALS Houston, US

Date: 23-Feb-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3B15001  
**WorkOrder:** HS23020838

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID: R428333 ( 0 )</b>		<b>Test Name : DISSOLVED GASES BY RSK-175</b>			<b>Matrix: Water</b>	
HS23020838-01	3B15001-01	14 Feb 2023 10:31			17 Feb 2023 12:10	1
HS23020838-02	3B15001-02	14 Feb 2023 11:25			17 Feb 2023 13:34	5
HS23020838-02	3B15001-02	14 Feb 2023 11:25			17 Feb 2023 12:24	1
HS23020838-03	3B15001-03	14 Feb 2023 12:31			17 Feb 2023 13:43	5
HS23020838-03	3B15001-03	14 Feb 2023 12:31			17 Feb 2023 12:34	1
HS23020838-04	3B15001-04	14 Feb 2023 13:50			17 Feb 2023 13:51	500
HS23020838-04	3B15001-04	14 Feb 2023 13:50			17 Feb 2023 12:44	1
HS23020838-05	3B15001-05	14 Feb 2023 14:47			17 Feb 2023 14:00	50
HS23020838-05	3B15001-05	14 Feb 2023 14:47			17 Feb 2023 13:08	1
HS23020838-06	3B15001-06	14 Feb 2023 15:35			17 Feb 2023 14:12	50
HS23020838-06	3B15001-06	14 Feb 2023 15:35			17 Feb 2023 13:25	1
<b>Batch ID: R428668 ( 0 )</b>		<b>Test Name : TOTAL ORGANIC CARBON BY E415.1</b>			<b>Matrix: Water</b>	
HS23020838-01	3B15001-01	14 Feb 2023 10:31			23 Feb 2023 12:30	1
HS23020838-02	3B15001-02	14 Feb 2023 11:25			23 Feb 2023 12:43	1
HS23020838-03	3B15001-03	14 Feb 2023 12:31			23 Feb 2023 12:55	1
HS23020838-04	3B15001-04	14 Feb 2023 13:50			23 Feb 2023 13:08	1
HS23020838-05	3B15001-05	14 Feb 2023 14:47			23 Feb 2023 13:47	1
HS23020838-06	3B15001-06	14 Feb 2023 15:35			23 Feb 2023 14:00	1



ALS Houston, US

Date: 23-Feb-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3B15001  
**WorkOrder:** HS23020838

**QC BATCH REPORT**

<b>Batch ID:</b> R428333 ( 0 )	<b>Instrument:</b> FID-4	<b>Method:</b> DISSOLVED GASES BY RSK-175
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<b>MBLK</b>	Sample ID: <b>MBLK-230217</b>	Units: <b>ug/L</b>	Analysis Date: <b>17-Feb-2023 07:43</b>							
Client ID:	Run ID: <b>FID-4_428333</b>	SeqNo: <b>7135005</b>	PrepDate: DF: <b>1</b>							
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								

<b>LCS</b>	Sample ID: <b>LCS-230217</b>	Units: <b>ug/L</b>	Analysis Date: <b>17-Feb-2023 07:56</b>							
Client ID:	Run ID: <b>FID-4_428333</b>	SeqNo: <b>7135006</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	18.1	1.00	18.04	0	100	75 - 125				
Ethene	15.14	1.00	16.8	0	90.1	75 - 125				
Methane	8.033	0.500	9.647	0	83.3	75 - 125				

<b>LCS D</b>	Sample ID: <b>LCS D-230217</b>	Units: <b>ug/L</b>	Analysis Date: <b>17-Feb-2023 08:04</b>							
Client ID:	Run ID: <b>FID-4_428333</b>	SeqNo: <b>7135007</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	18.11	1.00	18.04	0	100	75 - 125	18.1	0.00768	30	
Ethene	15.23	1.00	16.8	0	90.7	75 - 125	15.14	0.585	30	
Methane	7.941	0.500	9.647	0	82.3	75 - 125	8.033	1.16	30	

<b>DUP</b>	Sample ID: <b>HS23020619-01DUP</b>	Units: <b>ug/L</b>	Analysis Date: <b>17-Feb-2023 08:26</b>							
Client ID:	Run ID: <b>FID-4_428333</b>	SeqNo: <b>7135009</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	ND	1.00					1.707		0	30
Ethene	ND	1.00					0.4558		0	30
Methane	27.45	0.500					27.75		1.09	30

<b>The following samples were analyzed in this batch:</b>	HS23020838-01	HS23020838-02	HS23020838-03	HS23020838-04
	HS23020838-05	HS23020838-06		



**ALS Houston, US**

Date: 23-Feb-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3B15001  
**WorkOrder:** HS23020838

**QC BATCH REPORT**

<b>Batch ID:</b> R428668 ( 0 )	<b>Instrument:</b> TOC_04	<b>Method:</b> TOTAL ORGANIC CARBON BY E415.1
--------------------------------	---------------------------	---

<b>MBLK</b>	Sample ID: <b>MBLK-02232023</b>	Units: <b>mg/L</b>	Analysis Date: <b>23-Feb-2023 11:11</b>							
Client ID:	Run ID: <b>TOC_04_428668</b>	SeqNo: <b>7142474</b>	PrepDate: DF: <b>1</b>							
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

<b>LCS</b>	Sample ID: <b>LCS-02232023</b>	Units: <b>mg/L</b>	Analysis Date: <b>23-Feb-2023 11:25</b>							
Client ID:	Run ID: <b>TOC_04_428668</b>	SeqNo: <b>7142475</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total                      10.57              1.00              10              0              106              85 - 115

<b>LCSD</b>	Sample ID: <b>LCSD-02232023</b>	Units: <b>mg/L</b>	Analysis Date: <b>23-Feb-2023 11:38</b>							
Client ID:	Run ID: <b>TOC_04_428668</b>	SeqNo: <b>7142476</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total                      10.47              1.00              10              0              105              85 - 115              10.57              0.951              20

<b>MS</b>	Sample ID: <b>HS23020404-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>23-Feb-2023 12:05</b>							
Client ID:	Run ID: <b>TOC_04_428668</b>	SeqNo: <b>7142478</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total                      22.3              1.00              10              11.56              107              80 - 120

<b>The following samples were analyzed in this batch:</b>	HS23020838-01	HS23020838-02	HS23020838-03	HS23020838-04
	HS23020838-05	HS23020838-06		





**ALS Houston, US**

Date: 23-Feb-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3B15001  
**WorkOrder:** HS23020838

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	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

<b>Acronym</b>	<b>Description</b>
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: 23-Feb-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: 23-Feb-23

Sample Receipt Checklist

Work Order ID: HS23020838

Date/Time Received: 16-Feb-2023 13:10

Client Name: Permian Basin Lab

Received by: Malcolm Burleson

Completed By: /S/ Corey Grandits	16-Feb-2023 17:51	Reviewed by:		
eSignature	Date/Time	eSignature	Date/Time	

Matrices: **W** Carrier 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):	2.0UC/1.5C	IR31
Cooler(s)/Kit(s):	Red	
Date/Time sample(s) sent to storage:	2/16/23	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:		

Login Notes: Collection date on labels (2/14/23) doesn't match COC date of 2/4/23. Assumed date on labels is correct.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:





CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

HS23020838

Permian Basin Environmental Lab, LP 3B15001

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:

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com



PO #:

Report Format: X Standard  TRRP  NPDES

Table with columns: LAB # (lab use only), FIELD CODE, Beginning Depth, Ending Depth, Date Sampled, Time Sampled, Field Filtered, Total # of Containers, ICE, HNO3 250 poly 1, HCl 3 40mL VOA, H2SO4 1 AMBER 500/250POLY, NaOH /Ascorbic Acid 250ML P, Na2S2O3, NONE, NONE 3 AMBER VOAA VIALS, DW=Drinking Water, SL=Sludge, GW = Groundwater, S=Soil/Solid, NP=Non-Potable, Specify Other, RSK 50P-175, TOC-415.1, Analyze For, 24 HOUR RUSH, STANDARD.

SPECIAL INSTRUCTIONS: Laboratory Comments: Relinquished by: Brent Barron, Date: 2/15/23, Time: 17:00, Received by: [Signature], Date: 02/16/23, Time: 15:18. Includes checkboxes for Sample Containers Intact, VOCs Free of Headspace, etc.



ORIGIN ID:MAFA (432) 686-7235 BRENT BARRON PBE LAB 1400 RANKIN HWY MIDLAND, TX 79701 UNITED STATES,US	SHIP DATE: 15FEB23 ACTWT/GT: 17.00 LB CAD: 107138946/NET 4580
TO <b>SAMPLE RECEIVING</b> <b>ALS-HOUSTON</b> <b>10450 STANCLIFF RD</b> <b>HOUSTON TX 77099</b>	BILL RECIPIENT
(281) 530-5615 REF	
DEPT	
581J16602FE2D	

TRK# 7713 1426 0935 0201	THU - 16 FEB 4:30P STANDARD OVERNIGHT
<b>ABSGRA</b>	TX-US 77099 IAH




**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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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.





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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: **HS23030776**

Laboratory Results for: **3B15001**

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,

Generated By: DAYNA.FISHER

Anna Kinchen  
Project Manager

ALS Houston, US

Date: 17-Mar-23

Client: Permian Basin Environmental Lab, LP  
Project: 3B15001  
Work Order: HS23030776

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23030776-01	3B15001-01	Water		14-Feb-2023 10:31	14-Mar-2023 09:30	<input type="checkbox"/>
HS23030776-02	3B15001-02	Water		14-Feb-2023 11:25	14-Mar-2023 09:30	<input type="checkbox"/>
HS23030776-03	3B15001-03	Water		14-Feb-2023 12:31	14-Mar-2023 09:30	<input type="checkbox"/>
HS23030776-04	3B15001-04	Water		14-Feb-2023 13:50	14-Mar-2023 09:30	<input type="checkbox"/>
HS23030776-05	3B15001-05	Water		14-Feb-2023 14:47	14-Mar-2023 09:30	<input type="checkbox"/>
HS23030776-06	3B15001-06	Water		14-Feb-2023 15:35	14-Mar-2023 09:30	<input type="checkbox"/>

**ALS Houston, US**

Date: 17-Mar-23

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**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3B15001  
**Work Order:** HS23030776

---

**CASE NARRATIVE**

**Metals by Method SW6020A**

**Batch ID: 190918**

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



**ALS Houston, US**

Date: 17-Mar-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3B15001  
 Sample ID: 3B15001-01  
 Collection Date: 14-Feb-2023 10:31

**ANALYTICAL REPORT**

WorkOrder:HS23030776  
 Lab ID:HS23030776-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED METALS BY SW6020A</b>	<b>Method:SW6020A (dissolved)</b>				Prep:SW3010A / 16-Mar-2023	Analyst: JC
Iron	3.46		0.200	mg/L	1	16-Mar-2023 22:59
Manganese	0.0969		0.00500	mg/L	1	16-Mar-2023 22:59

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: 3B15001  
 Sample ID: 3B15001-02  
 Collection Date: 14-Feb-2023 11:25

**ANALYTICAL REPORT**  
 WorkOrder:HS23030776  
 Lab ID:HS23030776-02  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED METALS BY SW6020A</b>	<b>Method:SW6020A (dissolved)</b>				Prep:SW3010A / 16-Mar-2023	Analyst: JC
Iron	0.407		0.200	mg/L	1	16-Mar-2023 23:01
Manganese	0.166		0.00500	mg/L	1	16-Mar-2023 23:01

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: 3B15001  
 Sample ID: 3B15001-03  
 Collection Date: 14-Feb-2023 12:31

**ANALYTICAL REPORT**  
 WorkOrder:HS23030776  
 Lab ID:HS23030776-03  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED METALS BY SW6020A</b>	<b>Method:SW6020A (dissolved)</b>				Prep:SW3010A / 16-Mar-2023	Analyst: JC
Iron	0.250		0.200	mg/L	1	16-Mar-2023 23:03
Manganese	0.0836		0.00500	mg/L	1	16-Mar-2023 23:03

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: 3B15001  
 Sample ID: 3B15001-04  
 Collection Date: 14-Feb-2023 13:50

**ANALYTICAL REPORT**

WorkOrder:HS23030776  
 Lab ID:HS23030776-04  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED METALS BY SW6020A</b>	<b>Method:SW6020A (dissolved)</b>				Prep:SW3010A / 16-Mar-2023	Analyst: JC
Iron	1.59		0.200	mg/L	1	16-Mar-2023 23:05
Manganese	0.288		0.00500	mg/L	1	16-Mar-2023 23:05

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: 3B15001  
 Sample ID: 3B15001-05  
 Collection Date: 14-Feb-2023 14:47

**ANALYTICAL REPORT**

WorkOrder:HS23030776  
 Lab ID:HS23030776-05  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED METALS BY SW6020A</b>	<b>Method:SW6020A (dissolved)</b>				Prep:SW3010A / 16-Mar-2023	Analyst: JC
Iron	0.891		0.200	mg/L	1	16-Mar-2023 23:08
Manganese	0.0231		0.00500	mg/L	1	16-Mar-2023 23:08

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: 3B15001  
 Sample ID: 3B15001-06  
 Collection Date: 14-Feb-2023 15:35

**ANALYTICAL REPORT**  
 WorkOrder:HS23030776  
 Lab ID:HS23030776-06  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED METALS BY SW6020A</b>	<b>Method:SW6020A (dissolved)</b>				Prep:SW3010A / 16-Mar-2023	Analyst: JC
Iron	23.1		0.200	mg/L	1	16-Mar-2023 23:10
Manganese	0.274		0.00500	mg/L	1	16-Mar-2023 23:10

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

ALS Houston, US

Date: 17-Mar-23

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP

Project: 3B15001

WorkOrder: HS23030776

<b>Batch ID:</b> 190918	<b>Start Date:</b> 16 Mar 2023 13:30	<b>End Date:</b> 16 Mar 2023 17:30
<b>Method:</b> DISS METALS PREP - WATER - SW3010A		<b>Prep Code:</b> 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23030776-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23030776-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23030776-03		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23030776-04		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23030776-05		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23030776-06		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:** 3B15001  
**WorkOrder:** HS23030776

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> 190918 ( 0 )		<b>Test Name :</b> DISSOLVED METALS BY SW6020A			<b>Matrix:</b> Water	
HS23030776-01	3B15001-01	14 Feb 2023 10:31		16 Mar 2023 13:30	16 Mar 2023 22:59	1
HS23030776-02	3B15001-02	14 Feb 2023 11:25		16 Mar 2023 13:30	16 Mar 2023 23:01	1
HS23030776-03	3B15001-03	14 Feb 2023 12:31		16 Mar 2023 13:30	16 Mar 2023 23:03	1
HS23030776-04	3B15001-04	14 Feb 2023 13:50		16 Mar 2023 13:30	16 Mar 2023 23:05	1
HS23030776-05	3B15001-05	14 Feb 2023 14:47		16 Mar 2023 13:30	16 Mar 2023 23:08	1
HS23030776-06	3B15001-06	14 Feb 2023 15:35		16 Mar 2023 13:30	16 Mar 2023 23:10	1



ALS Houston, US

Date: 17-Mar-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3B15001  
**WorkOrder:** HS23030776

**QC BATCH REPORT**

<b>Batch ID:</b> 190918 ( 0 )	<b>Instrument:</b> ICPMS06	<b>Method:</b> DISSOLVED METALS BY SW6020A (DISSOLVED)
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<b>MBLK</b>	Sample ID: <b>MBLK-190918</b>	Units: <b>mg/L</b>	Analysis Date: <b>16-Mar-2023 22:16</b>							
Client ID:	Run ID: <b>ICPMS06_430176</b>	SeqNo: <b>7178375</b>	PrepDate: <b>16-Mar-2023</b> DF: <b>1</b>							
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								

<b>LCS</b>	Sample ID: <b>LCS-190918</b>	Units: <b>mg/L</b>	Analysis Date: <b>16-Mar-2023 22:18</b>							
Client ID:	Run ID: <b>ICPMS06_430176</b>	SeqNo: <b>7178376</b>	PrepDate: <b>16-Mar-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Iron	5.156	0.200	5	0	103	80 - 120				
Manganese	0.05161	0.00500	0.05	0	103	80 - 120				

<b>MS</b>	Sample ID: <b>HS23030777-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>16-Mar-2023 22:24</b>							
Client ID:	Run ID: <b>ICPMS06_430176</b>	SeqNo: <b>7178379</b>	PrepDate: <b>16-Mar-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Iron	5.411	0.200	5	0.0491	107	75 - 125				
Manganese	0.0589	0.00500	0.05	0.006235	105	75 - 125				

<b>MSD</b>	Sample ID: <b>HS23030777-01MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>16-Mar-2023 22:27</b>							
Client ID:	Run ID: <b>ICPMS06_430176</b>	SeqNo: <b>7178380</b>	PrepDate: <b>16-Mar-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Iron	5.353	0.200	5	0.0491	106	75 - 125	5.411	1.07	20	
Manganese	0.05923	0.00500	0.05	0.006235	106	75 - 125	0.0589	0.564	20	

<b>PDS</b>	Sample ID: <b>HS23030777-01PDS</b>	Units: <b>mg/L</b>	Analysis Date: <b>16-Mar-2023 22:29</b>							
Client ID:	Run ID: <b>ICPMS06_430176</b>	SeqNo: <b>7178381</b>	PrepDate: <b>16-Mar-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Iron	10.92	0.200	10	0.0491	109	75 - 125				
Manganese	0.1115	0.00500	0.1	0.006235	105	75 - 125				

ALS Houston, US

Date: 17-Mar-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3B15001  
**WorkOrder:** HS23030776

**QC BATCH REPORT**

Batch ID: 190918 ( 0 )		Instrument: ICPMS06		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)						
<b>SD</b>	Sample ID: <b>HS23030777-01SD</b>	Units: <b>mg/L</b>		Analysis Date: <b>16-Mar-2023 22:22</b>						
Client ID:	Run ID: <b>ICPMS06_430176</b>	SeqNo: <b>7178378</b>		PrepDate: <b>16-Mar-2023</b>		DF: <b>5</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Iron	ND	1.00					0.0491	0	10	
Manganese	0.00645	0.0250					0.006235	0	10	J

The following samples were analyzed in this batch:

HS23030776-01	HS23030776-02	HS23030776-03	HS23030776-04
HS23030776-05	HS23030776-06		

**ALS Houston, US**

Date: 17-Mar-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3B15001  
**WorkOrder:** HS23030776

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	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

<b>Acronym</b>	<b>Description</b>
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: HS23030776

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

Client Name: Permian Basin Lab

Received by: Corey Grandits

Completed By: <u>/S/ Niles D. Ranchod</u>	14-Mar-2023 14:38	Reviewed by:		
eSignature	Date/Time	eSignature	Date/Time	

Matrices: **Water**

Carrier 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 <input type="checkbox"/> No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:		

Login Notes:

Client Contacted:	Date Contacted:	Person Contacted:
Contacted By:	Regarding:	

Comments:

Corrective Action:

Released to Imaging: 7/17/2024 11:30:09 AM

Received by OCD: 6/5/2024 2:28:20 PM



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

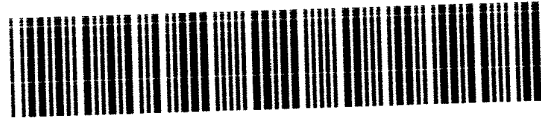
City/State/Zip: Midland Texas 79701

Telephone No: 432-661-4184

Sampler Signature: N/A

**HS23030776**

Permian Basin Environmental Lab, LP  
3B15001



e-mail: brentbarron@pbelab.com

Project Name: SUBCONTRACT

Project #: \_\_\_\_\_

Project Loc: \_\_\_\_\_

PO #: \_\_\_\_\_

Report Format:  Standard  TRRP  NPDES

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers											Matrix		24 HOUR RUSH STANDARD - 12 Hour Rush																			
								ICE	HNO <sub>3</sub> 250 poly 1	HCl 3 40mL VOA	H <sub>2</sub> SO <sub>4</sub> 1 AMBER 500/250POLY	NaOH / Ascorbic Acid 250ML PL	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NONE	NONE 3 AMBER VOAA VIALS	DW=Drinking Water, Sl=Sludge	GW = Groundwater, S=Soil/Solid	NP=Non-Potable, Specify Other	Fe Diss ICP 6010B	Mn Diss ICP 6010B																				
	3B15001-01			2/14/2023	10:31	1	1	X	X																								X							
	3B15001-02			2/14/2023	11:25	1	1	X	X																								X							
	3B15001-03			2/14/2023	12:31	1	1	X	X																								X							
	3B15001-04			2/14/2023	13:50	1	1	X	X																								X							
	3B15001-05			2/14/2023	14:47	1	1	X	X																								X							
	3B15001-06			2/14/2023	15:35	1	1	X	X																								X							
SPECIAL INSTRUCTIONS:															Laboratory Comments:																									
															Sample Containers Intact? Y N																									
															VOCs Free of Headspace? Y N																									
Relinquished by: Brent Barron															Date: 3/13/23		Time: 17:00		Received by: [Signature]					Date: 3-14-23		Time: 0430		Labels on container(s) Y N												
Relinquished by: [Signature]															Custody seals on container(s) Y N																									
Relinquished by: [Signature]															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: °C																									
															Received: °C Factor																									
															Adjusted: °C Factor																									

FOAM 21,20

Page 318 of 599

Foam MAR 14 2023

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

SHIP DATE: 13MAR23  
ACTWGT: 35.00 LB  
CAD: 107136846/INET4580

MIDLAND, TX 79701  
UNITED STATES US

BILL RECIPIENT

TO SAMPLE RECEIVING  
ALS-HOUSTON  
10450 STANCLIFF RD

HOUSTON TX 77099

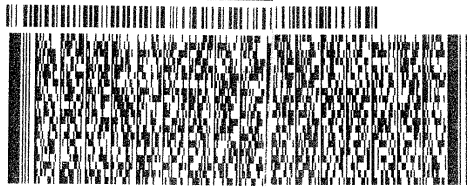
(281) 530-5615  
INV  
FO

REF

DEPT

59J79900FE20

FedEx Ship Manager - Print Your Label(s)

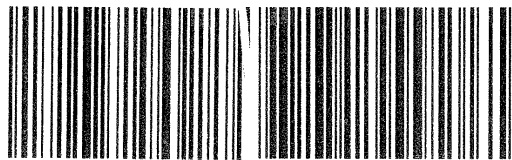


TUE - 14 MAR 4:30P  
STANDARD OVERNIGHT

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: 97-04  
Project Number: TNM 97-04  
Location: Lea County, NM  
Lab Order Number: 3B15002



**Current Certification**

Report Date: 02/28/23



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

Project: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-13	3B15002-01	Water	02/13/23 13:47	02-15-2023 08:50
MW-18	3B15002-02	Water	02/13/23 14:20	02-15-2023 08:50

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

Project: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-13**  
**3B15002-01 (Water)**

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:48	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:48	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:48	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:48	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 15:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	96.0 %		80-120		P3B1701	02/17/23 10:52	02/17/23 15:48	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.4 %		80-120		P3B1701	02/17/23 10:52	02/17/23 15:48	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: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-18**

**3B15002-02 (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	P3B1701	02/17/23 10:52	02/17/23 16:10	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 16:10	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 16:10	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 16:10	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3B1701	02/17/23 10:52	02/17/23 16:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.0 %		80-120		P3B1701	02/17/23 10:52	02/17/23 16:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.3 %		80-120		P3B1701	02/17/23 10:52	02/17/23 16:10	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: 97-04  
 Project Number: TNM 97-04  
 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 P3B1701 - \*\*\* DEFAULT PREP \*\*\***

Blank (P3B1701-BLK1) <span style="float:right">Prepared &amp; Analyzed: 02/17/23</span>										
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	0.115		"	0.120		96.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			

LCS (P3B1701-BS1) <span style="float:right">Prepared &amp; Analyzed: 02/17/23</span>										
Benzene	0.0832	0.00100	mg/L	0.100		83.2	80-120			
Toluene	0.0839	0.00100	"	0.100		83.9	80-120			
Ethylbenzene	0.0950	0.00100	"	0.100		95.0	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.7	80-120			
Xylene (o)	0.0813	0.00100	"	0.100		81.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	80-120			

LCS Dup (P3B1701-BSD1) <span style="float:right">Prepared &amp; Analyzed: 02/17/23</span>										
Benzene	0.0923	0.00100	mg/L	0.100		92.3	80-120	10.4	20	
Toluene	0.0910	0.00100	"	0.100		91.0	80-120	8.12	20	
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120	6.64	20	
Xylene (p/m)	0.195	0.00200	"	0.200		97.3	80-120	5.87	20	
Xylene (o)	0.0812	0.00100	"	0.100		81.2	80-120	0.197	20	
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		97.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	80-120			

Calibration Blank (P3B1701-CCB1) <span style="float:right">Prepared &amp; Analyzed: 02/17/23</span>										
Benzene	0.160		ug/l							
Toluene	0.250		"							
Ethylbenzene	0.300		"							
Xylene (p/m)	0.990		"							
Xylene (o)	0.390		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.4	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  
 10 Desta Dr STE 150E  
 Midland TX, 79705

Project: 97-04  
 Project Number: TNM 97-04  
 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 P3B1701 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Blank (P3B1701-CCB2)**

Prepared & Analyzed: 02/17/23

Benzene	0.150		ug/l							
Toluene	0.220		"							
Ethylbenzene	0.370		"							
Xylene (p/m)	0.820		"							
Xylene (o)	0.380		"							
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	80-120			

**Calibration Check (P3B1701-CCV1)**

Prepared & Analyzed: 02/17/23

Benzene	0.101	0.00100	mg/L	0.100		101	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.223	0.00200	"	0.200		111	80-120			
Xylene (o)	0.0932	0.00100	"	0.100		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108	80-120			

**Calibration Check (P3B1701-CCV2)**

Prepared & Analyzed: 02/17/23

Benzene	0.0835	0.00100	mg/L	0.100		83.5	80-120			
Toluene	0.0880	0.00100	"	0.100		88.0	80-120			
Ethylbenzene	0.0943	0.00100	"	0.100		94.3	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.4	80-120			
Xylene (o)	0.0820	0.00100	"	0.100		82.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	80-120			

**Calibration Check (P3B1701-CCV3)**

Prepared & Analyzed: 02/17/23

Benzene	0.0907	0.00100	mg/L	0.100		90.7	80-120			
Toluene	0.0928	0.00100	"	0.100		92.8	80-120			
Ethylbenzene	0.0950	0.00100	"	0.100		95.0	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.0	80-120			
Xylene (o)	0.0835	0.00100	"	0.100		83.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	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: 97-04  
 Project Number: TNM 97-04  
 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 P3B1701 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P3B1701-MS1)</b>	<b>Source: 3B15001-01</b>			<b>Prepared &amp; Analyzed: 02/17/23</b>						
Benzene	0.0630	0.00100	mg/L	0.100	ND	63.0	80-120			QM-05
Toluene	0.0636	0.00100	"	0.100	ND	63.6	80-120			QM-05
Ethylbenzene	0.0704	0.00100	"	0.100	ND	70.4	80-120			QM-05
Xylene (p/m)	0.135	0.00200	"	0.200	ND	67.4	80-120			QM-05
Xylene (o)	0.0561	0.00100	"	0.100	ND	56.1	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	80-120			

<b>Matrix Spike Dup (P3B1701-MSD1)</b>	<b>Source: 3B15001-01</b>			<b>Prepared &amp; Analyzed: 02/17/23</b>						
Benzene	0.0718	0.00100	mg/L	0.100	ND	71.8	80-120	13.1	20	QM-05
Toluene	0.0734	0.00100	"	0.100	ND	73.4	80-120	14.3	20	QM-05
Ethylbenzene	0.0828	0.00100	"	0.100	ND	82.8	80-120	16.2	20	
Xylene (p/m)	0.160	0.00200	"	0.200	ND	79.8	80-120	16.7	20	QM-05
Xylene (o)	0.0660	0.00100	"	0.100	ND	66.0	80-120	16.3	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.7	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  
10 Desta Dr STE 150E  
Midland TX, 79705

Project: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**Notes and Definitions**

- 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: 2/28/2023

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

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

Project: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

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Permian Basin Environmental Lab, L.P.

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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

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](mailto:cdstanley@trccompanies.com)  
[cbryant@paalp.com](mailto:cbryant@paalp.com)  
[khudgens@paalp.com](mailto:khudgens@paalp.com)

Fax No:

Report Format:

Standard  TRRP  NPDES

Project Name: 97-04

Project #: SRS: TNM 97-04

Project Loc: Lea County, NM

PO #:

ORDER #: 3815002

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Preservation & # of Containers								Matrix	Analyze For:						RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
							Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)		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		
1	MMW-13			2-13-23	1347	1	3	X												X		X	
2	MMW-18			2-13-23	1420	1	3	X												X		X	
3	MMW-4			-	-	1	3	X												X		X	
4	MMW-2			-	-	1	3	X												X		X	
5	MMW-3			-	-	1	3	X												X		X	
	RW-1			-	-	1	3	X												X		X	
	RW-2			-	-	1	3	X												X		X	
	RW-3			-	-	1	3	X												X		X	
	RW-4			-	-	1	3	X												X		X	

Special Instructions: BILL TO PLAINS

Relinquished by: Manny Date: 2-15-23 Time: 841 Received by:

Relinquished by:

Date: 2-15-23 Time: 8:50

Received by:

Date: 2-15-23 Time: 8:50

Temperature Upon Receipt: 23.7 °C Adjusted: 2.3 °C Factor NCF L3

Laboratory Comments:  
Sample Containers Intact? Y  
VOCs Free of Headspace? N  
Labels on container(s)? Y  
Custody seals on container(s)? Y  
Custody seals on cooler(s)? Y  
Sample Hand Delivered by Sampler/Client Rep? Y  
by Courier? UPS DHL FedEx Lone Star  
Temperature Upon Receipt: 23.7 °C Adjusted: 2.3 °C Factor NCF L3

**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: 97-04\_MNA  
Project Number: TNM 97-04  
Location: Lea County, NM  
Lab Order Number: 3E17005



**Current Certification**

Report Date: 06/09/23

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

Project: 97-04\_MNA  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10	3E17005-01	Water	05/16/23 11:30	05-17-2023 08:10
MW-15	3E17005-02	Water	05/16/23 12:20	05-17-2023 08:10
MW-14	3E17005-03	Water	05/16/23 13:07	05-17-2023 08:10
MW-5	3E17005-04	Water	05/16/23 14:38	05-17-2023 08:10
MW-9	3E17005-05	Water	05/16/23 15:55	05-17-2023 08:10
MW-6	3E17005-06	Water	05/16/23 16:49	05-17-2023 08:10

RSK175, TOC, and Dissolved metals 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](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: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-10**  
**3E17005-01 (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	P3E1904	05/19/23 10:00	05/22/23 16:33	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 16:33	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 16:33	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 16:33	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 16:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.1 %	80-120		P3E1904	05/19/23 10:00	05/22/23 16:33	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	80-120		P3E1904	05/19/23 10:00	05/22/23 16:33	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 16:18	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 16:18	8015M	SUB-13
<b>Methane</b>	<b>0.000607</b>	<b>0.000500</b>	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 16:18	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

Chemical Oxygen Demand	ND	2.00	mg/L	1	P3E2309	05/23/23 07:54	05/24/23 13:00	8000	QAL1
Nitrate as N	<b>8.33</b>	0.200	mg/L	1	P3E1711	05/17/23 15:14	05/18/23 17:19	EPA 300.0	
Sulfate	<b>57.4</b>	1.00	mg/L	1	P3E1711	05/17/23 15:14	05/18/23 17:19	EPA 300.0	
Total Organic Carbon	ND	1.00	mg/L	1	P3F0705	05/20/23 02:30	05/20/23 02:30	EPA 415.1	SUB-13

**Dissolved Metals by EPA / Standard Methods**

Iron	ND	0.200	mg/L	1	P3E2501	05/22/23 13:30	05/24/23 22:05	EPA 6020A	SUB-13
Manganese	ND	0.00500	mg/L	1	P3E2501	05/22/23 13:30	05/24/23 22:05	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: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-15**  
**3E17005-02 (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	P3E1904	05/19/23 10:00	05/22/23 16:53	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 16:53	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 16:53	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 16:53	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 16:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.4 %	80-120		P3E1904	05/19/23 10:00	05/22/23 16:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.8 %	80-120		P3E1904	05/19/23 10:00	05/22/23 16:53	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 16:29	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 16:29	8015M	SUB-13
<b>Methane</b>	<b>0.200</b>	<b>0.000500</b>	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 17:32	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

Chemical Oxygen Demand	ND	2.00	mg/L	1	P3E2309	05/23/23 07:54	05/24/23 13:00	8000	QAL1
<b>Nitrate as N</b>	<b>1.60</b>	0.200	mg/L	1	P3E1711	05/17/23 15:14	05/18/23 18:09	EPA 300.0	
<b>Sulfate</b>	<b>73.7</b>	1.00	mg/L	1	P3E1711	05/17/23 15:14	05/18/23 18:09	EPA 300.0	
Total Organic Carbon	ND	1.00	mg/L	1	P3F0705	05/20/23 02:56	05/20/23 02:56	EPA 415.1	SUB-13

**Dissolved Metals by EPA / Standard Methods**

Iron	ND	0.200	mg/L	1	P3E2501	05/22/23 13:30	05/24/23 22:07	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.0455</b>	0.00500	mg/L	1	P3E2501	05/22/23 13:30	05/24/23 22:07	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-14**  
**3E17005-03 (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	P3E1904	05/19/23 10:00	05/22/23 17:14	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 17:14	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 17:14	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 17:14	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 17:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	98.0 %		80-120		P3E1904	05/19/23 10:00	05/22/23 17:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.7 %		80-120		P3E1904	05/19/23 10:00	05/22/23 17:14	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 16:38	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 16:38	8015M	SUB-13
<b>Methane</b>	<b>0.133</b>	0.00250	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 17:40	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

Chemical Oxygen Demand	ND	2.00	mg/L	1	P3E2309	05/23/23 07:54	05/24/23 13:00	8000	QAL1
<b>Nitrate as N</b>	<b>1.80</b>	0.200	mg/L	1	P3E1711	05/17/23 15:14	05/18/23 18:25	EPA 300.0	
<b>Sulfate</b>	<b>56.0</b>	1.00	mg/L	1	P3E1711	05/17/23 15:14	05/18/23 18:25	EPA 300.0	
Total Organic Carbon	ND	1.00	mg/L	1	P3F0705	05/20/23 03:08	05/20/23 03:08	EPA 415.1	SUB-13

**Dissolved Metals by EPA / Standard Methods**

Iron	ND	0.200	mg/L	1	P3E2501	05/22/23 13:30	05/24/23 22:09	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.0551</b>	0.00500	mg/L	1	P3E2501	05/22/23 13:30	05/24/23 22:09	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: 97-04_MNA Project Number: TNM 97-04 Project Manager: Curt Stanley
--	--

**MW-5**  
**3E17005-04 (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**

<b>Benzene</b>	<b>25.0</b>	0.100	mg/L	100	P3E1904	05/19/23 10:00	05/22/23 17:34	EPA 8021B	
<b>Toluene</b>	<b>11.9</b>	0.100	mg/L	100	P3E1904	05/19/23 10:00	05/22/23 17:34	EPA 8021B	
<b>Ethylbenzene</b>	<b>2.26</b>	0.100	mg/L	100	P3E1904	05/19/23 10:00	05/22/23 17:34	EPA 8021B	
<b>Xylene (p/m)</b>	<b>4.22</b>	0.200	mg/L	100	P3E1904	05/19/23 10:00	05/22/23 17:34	EPA 8021B	
<b>Xylene (o)</b>	<b>1.72</b>	0.100	mg/L	100	P3E1904	05/19/23 10:00	05/22/23 17:34	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %			P3E1904	05/19/23 10:00	05/22/23 17:34	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		97.7 %			P3E1904	05/19/23 10:00	05/22/23 17:34	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 16:46	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 16:46	8015M	SUB-13
<b>Methane</b>	<b>9.96</b>	0.500	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 17:52	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>637</b>	20.0	mg/L	1	P3E2507	05/24/23 14:00	05/25/23 13:50	8000	QAL1
Nitrate as N	ND	0.200	mg/L	1	P3E1711	05/17/23 15:14	05/18/23 18:42	EPA 300.0	
<b>Sulfate</b>	<b>2.98</b>	1.00	mg/L	1	P3E1711	05/17/23 15:14	05/18/23 18:42	EPA 300.0	
Total Organic Carbon	ND	1.00	mg/L	1	P3F0705	05/20/23 03:20	05/20/23 03:20	EPA 415.1	SUB-13

**Dissolved Metals by EPA / Standard Methods**

<b>Iron</b>	<b>1.77</b>	0.200	mg/L	1	P3E2501	05/22/23 13:30	05/24/23 22:11	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.308</b>	0.00500	mg/L	1	P3E2501	05/22/23 13:30	05/24/23 22:11	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: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-9**  
**3E17005-05 (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**

<b>Benzene</b>	<b>0.0126</b>	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 18:35	EPA 8021B	
<b>Toluene</b>	<b>0.0176</b>	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 18:35	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.266</b>	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 18:35	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.599</b>	0.00200	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 18:35	EPA 8021B	
<b>Xylene (o)</b>	<b>0.330</b>	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 18:35	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	80-120		P3E1904	05/19/23 10:00	05/22/23 18:35	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		85.0 %	80-120		P3E1904	05/19/23 10:00	05/22/23 18:35	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 16:58	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 16:58	8015M	SUB-13
<b>Methane</b>	<b>1.41</b>	0.0250	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 18:13	8015M	SUB-13

**General Chemistry Parameters by EPA/ Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>25.0</b>	2.00	mg/L	1	P3E2309	05/23/23 07:54	05/24/23 13:00	8000	QAL1
<b>Nitrate as N</b>	<b>0.244</b>	0.200	mg/L	1	P3E1711	05/17/23 15:14	05/18/23 18:58	EPA 300.0	
<b>Sulfate</b>	<b>8.41</b>	1.00	mg/L	1	P3E1711	05/17/23 15:14	05/18/23 18:58	EPA 300.0	
Total Organic Carbon	ND	1.00	mg/L	1	P3F0705	05/20/23 03:33	05/20/23 03:33	EPA 415.1	SUB-13

**Dissolved Metals by EPA/ Standard Methods**

Iron	ND	0.200	mg/L	1	P3E2501	05/22/23 13:30	05/24/23 22:13	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.0230</b>	0.00500	mg/L	1	P3E2501	05/22/23 13:30	05/24/23 22:13	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: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-6**  
**3E17005-06 (Water)**

**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.0643</b>	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 18:56	EPA 8021B	
<b>Toluene</b>	<b>0.00107</b>	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 18:56	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00203</b>	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 18:56	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00418</b>	0.00200	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 18:56	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00280</b>	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 18:56	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	80-120		P3E1904	05/19/23 10:00	05/22/23 18:56	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		95.9 %	80-120		P3E1904	05/19/23 10:00	05/22/23 18:56	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 17:24	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 17:24	8015M	SUB-13
<b>Methane</b>	<b>0.511</b>	0.0100	mg/L	1	P3F0705	05/24/23 16:00	05/24/23 18:21	8015M	SUB-13

**General Chemistry Parameters by EPA/ Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>8.00</b>	2.00	mg/L	1	P3E2309	05/23/23 07:54	05/24/23 13:00	8000	QAL1
<b>Nitrate as N</b>	<b>1.29</b>	0.200	mg/L	1	P3E1711	05/17/23 15:14	05/18/23 19:15	EPA 300.0	
<b>Sulfate</b>	<b>54.7</b>	1.00	mg/L	1	P3E1711	05/17/23 15:14	05/18/23 19:15	EPA 300.0	
Total Organic Carbon	ND	1.00	mg/L	1	P3F0705	05/20/23 04:12	05/20/23 04:12	EPA 415.1	SUB-13

**Dissolved Metals by EPA/ Standard Methods**

Iron	ND	0.200	mg/L	1	P3E2501	05/22/23 13:30	05/24/23 22:15	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.0950</b>	0.00500	mg/L	1	P3E2501	05/22/23 13:30	05/24/23 22:15	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: 97-04\_MNA  
 Project Number: TNM 97-04  
 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 P3E1904 - \*\*\* DEFAULT PREP \*\*\***

Blank (P3E1904-BLK1)										
					Prepared: 05/19/23 Analyzed: 05/22/23					
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	0.123		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	80-120			

LCS (P3E1904-BS1)										
					Prepared: 05/19/23 Analyzed: 05/22/23					
Benzene	0.112	0.00100	mg/L	0.100		112	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.120	0.00100	"	0.100		120	80-120			
Surrogate: 4-Bromofluorobenzene	0.136		"	0.120		114	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.2	80-120			

LCS Dup (P3E1904-BSD1)										
					Prepared: 05/19/23 Analyzed: 05/22/23					
Benzene	0.111	0.00100	mg/L	0.100		111	80-120	1.23	20	
Toluene	0.115	0.00100	"	0.100		115	80-120	0.616	20	
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120	0.900	20	
Xylene (p/m)	0.235	0.00200	"	0.200		117	80-120	0.209	20	
Xylene (o)	0.120	0.00100	"	0.100		120	80-120	0.0835	20	
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.0	80-120			

Calibration Blank (P3E1904-CCB1)										
					Prepared: 05/19/23 Analyzed: 05/22/23					
Benzene	0.160		ug/l							
Toluene	0.240		"							
Ethylbenzene	0.490		"							
Xylene (p/m)	0.870		"							
Xylene (o)	0.610		"							
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	80-120			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas  
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 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 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 P3E1904 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Blank (P3E1904-CCB2)**

Prepared: 05/19/23 Analyzed: 05/22/23

Benzene	0.240		ug/l							
Toluene	0.340		"							
Ethylbenzene	0.440		"							
Xylene (p/m)	0.980		"							
Xylene (o)	0.390		"							
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		97.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	80-120			

**Calibration Check (P3E1904-CCV1)**

Prepared: 05/19/23 Analyzed: 05/22/23

Benzene	0.112	0.00100	mg/L	0.100		112	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		117	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.120		111	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	80-120			

**Calibration Check (P3E1904-CCV2)**

Prepared: 05/19/23 Analyzed: 05/22/23

Benzene	0.115	0.00100	mg/L	0.100		115	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		118	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.8	80-120			

**Calibration Check (P3E1904-CCV3)**

Prepared: 05/19/23 Analyzed: 05/22/23

Benzene	0.116	0.00100	mg/L	0.100		116	80-120			
Toluene	0.118	0.00100	"	0.100		118	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		119	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.7	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: 97-04\_MNA  
 Project Number: TNM 97-04  
 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 P3E1904 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P3E1904-MS1)</b>	<b>Source: 3E12009-02</b>			<b>Prepared: 05/19/23 Analyzed: 05/22/23</b>						
Benzene	0.127	0.00100	mg/L	0.100	ND	127	80-120			QM-05
Toluene	0.124	0.00100	"	0.100	ND	124	80-120			QM-05
Ethylbenzene	0.128	0.00100	"	0.100	ND	128	80-120			QM-05
Xylene (p/m)	0.252	0.00200	"	0.200	ND	126	80-120			QM-05
Xylene (o)	0.120	0.00100	"	0.100	ND	120	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	80-120			

<b>Matrix Spike Dup (P3E1904-MSD1)</b>	<b>Source: 3E12009-02</b>			<b>Prepared: 05/19/23 Analyzed: 05/22/23</b>						
Benzene	0.129	0.00100	mg/L	0.100	ND	129	80-120	1.51	20	QM-05
Toluene	0.128	0.00100	"	0.100	ND	128	80-120	3.02	20	QM-05
Ethylbenzene	0.133	0.00100	"	0.100	ND	133	80-120	3.70	20	QM-05
Xylene (p/m)	0.260	0.00200	"	0.200	ND	130	80-120	3.03	20	QM-05
Xylene (o)	0.126	0.00100	"	0.100	ND	126	80-120	4.82	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		108	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.0	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: 97-04_MNA
10 Desta Dr STE 150E	Project Number: TNM 97-04
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 P3E1711 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P3E1711-BLK1)** Prepared: 05/17/23 Analyzed: 05/18/23

Nitrate as N	ND	0.200	mg/L							
Sulfate	ND	1.00	"							

**LCS (P3E1711-BS1)** Prepared: 05/17/23 Analyzed: 05/18/23

Sulfate	9.76		mg/L	10.0		97.6	90-110			
Nitrate as N	10.3		"	10.0		103	90-110			

**LCS Dup (P3E1711-BS1)** Prepared: 05/17/23 Analyzed: 05/18/23

Nitrate as N	10.3		mg/L	10.0		103	90-110	0.0972	10	
Sulfate	9.74		"	10.0		97.4	90-110	0.113	10	

**Calibration Check (P3E1711-CCV1)** Prepared: 05/17/23 Analyzed: 05/18/23

Nitrate as N	10.3		mg/L	10.0		103	90-110			
Sulfate	9.76		"	10.0		97.6	90-110			

**Calibration Check (P3E1711-CCV2)** Prepared: 05/17/23 Analyzed: 05/18/23

Nitrate as N	10.4		mg/L	10.0		104	90-110			
Sulfate	9.98		"	10.0		99.8	90-110			

**Matrix Spike (P3E1711-MS1)** Source: 3E17005-01 Prepared: 05/17/23 Analyzed: 05/18/23

Sulfate	17.7		mg/L	10.0	5.74	119	80-120			
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**Matrix Spike (P3E1711-MS2)** Source: 3E17005-01 Prepared: 05/17/23 Analyzed: 05/18/23

Nitrate as N	19.0		mg/L	10.0	8.33	107	80-120			
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**Matrix Spike Dup (P3E1711-MSD1)** Source: 3E17005-01 Prepared: 05/17/23 Analyzed: 05/18/23

Sulfate	17.7		mg/L	10.0	5.74	120	80-120	0.430	20	
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TRC Solutions- Midland, Texas  
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 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 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 P3E1711 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike Dup (P3E1711-MSD2)</b>		<b>Source: 3E17005-01</b>		Prepared: 05/17/23 Analyzed: 05/18/23						
Nitrate as N	19.0		mg/L	10.0	8.33	107	80-120	0.195	20	

**Batch P3E2309 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P3E2309-BLK1)</b>				Prepared: 05/23/23 Analyzed: 05/24/23						
Chemical Oxygen Demand	ND	2.00	mg/L							QAL1

<b>LCS (P3E2309-BS1)</b>				Prepared: 05/23/23 Analyzed: 05/24/23						
Chemical Oxygen Demand	94.0	2.00	mg/L	100		94.0	80-120			QAL1

<b>LCS Dup (P3E2309-BSD1)</b>				Prepared: 05/23/23 Analyzed: 05/24/23						
Chemical Oxygen Demand	103	2.00	mg/L	100		103	80-120	9.14	20	QAL1

<b>Calibration Check (P3E2309-CCV1)</b>				Prepared: 05/23/23 Analyzed: 05/24/23						
Chemical Oxygen Demand	102	2.00	mg/L	100		102	80-120			QAL1

<b>Calibration Check (P3E2309-CCV2)</b>				Prepared: 05/23/23 Analyzed: 05/24/23						
Chemical Oxygen Demand	98.0	2.00	mg/L	100		98.0	80-120			QAL1

<b>Calibration Check (P3E2309-CCV3)</b>				Prepared: 05/23/23 Analyzed: 05/24/23						
Chemical Oxygen Demand	98.0	2.00	mg/L	100		98.0	80-120			QAL1

<b>Duplicate (P3E2309-DUP1)</b>		<b>Source: 3E12007-01</b>		Prepared: 05/23/23 Analyzed: 05/24/23						
Chemical Oxygen Demand	79.0	2.00	mg/L		79.0			0.00	20	QAL1

<b>Duplicate (P3E2309-DUP2)</b>		<b>Source: 3E19003-01</b>		Prepared: 05/23/23 Analyzed: 05/24/23						
Chemical Oxygen Demand	52.0	2.00	mg/L		5.00			165	20	QAL1, R3

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: 97-04\_MNA  
 Project Number: TNM 97-04  
 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
<b>Batch P3E2309 - *** DEFAULT PREP ***</b>										
<b>Matrix Spike (P3E2309-MS1)</b>		<b>Source: 3E12007-01</b>		Prepared: 05/23/23		Analyzed: 05/24/23				
Chemical Oxygen Demand	194	2.00	mg/L	100	79.0	115	80-120			QAL1
<b>Matrix Spike (P3E2309-MS2)</b>		<b>Source: 3E19003-01</b>		Prepared: 05/23/23		Analyzed: 05/24/23				
Chemical Oxygen Demand	200	2.00	mg/L	100	5.00	195	80-120			QAL1, QM-05
<b>Matrix Spike Dup (P3E2309-MSD1)</b>		<b>Source: 3E12007-01</b>		Prepared: 05/23/23		Analyzed: 05/24/23				
Chemical Oxygen Demand	193	2.00	mg/L	100	79.0	114	80-120	0.517	20	QAL1
<b>Matrix Spike Dup (P3E2309-MSD2)</b>		<b>Source: 3E19003-01</b>		Prepared: 05/23/23		Analyzed: 05/24/23				
Chemical Oxygen Demand	200	2.00	mg/L	100	5.00	195	80-120	0.00	20	QAL1, QM-05
<b>Batch P3E2507 - *** DEFAULT PREP ***</b>										
<b>Blank (P3E2507-BLK1)</b>				Prepared: 05/24/23		Analyzed: 05/25/23				
Chemical Oxygen Demand	ND	20.0	mg/L							QAL1
<b>LCS (P3E2507-BS1)</b>				Prepared: 05/24/23		Analyzed: 05/25/23				
Chemical Oxygen Demand	1070	20.0	mg/L	1000		107	80-120			QAL1
<b>LCS Dup (P3E2507-BSD1)</b>				Prepared: 05/24/23		Analyzed: 05/25/23				
Chemical Oxygen Demand	1100	20.0	mg/L	1000		110	80-120	3.31	20	QAL1
<b>Calibration Check (P3E2507-CCV1)</b>				Prepared & Analyzed: 05/25/23						
Chemical Oxygen Demand	922	20.0	mg/L	1000		92.2	80-120			QAL1
<b>Calibration Check (P3E2507-CCV2)</b>				Prepared & Analyzed: 05/25/23						
Chemical Oxygen Demand	928	20.0	mg/L	1000		92.8	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  
 10 Desta Dr STE 150E  
 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 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 P3E2507 - \*\*\* DEFAULT PREP \*\*\***

**Duplicate (P3E2507-DUP1)**

**Source: 3E10007-04**

Prepared: 05/24/23 Analyzed: 05/25/23

Chemical Oxygen Demand	372	20.0	mg/L		338			9.58	20	QAL1
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**Matrix Spike (P3E2507-MS1)**

**Source: 3E10007-04**

Prepared: 05/24/23 Analyzed: 05/25/23

Chemical Oxygen Demand	201	20.0	mg/L	1000	338	NR	80-120			QAL1, QM-05
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**Matrix Spike Dup (P3E2507-MSD1)**

**Source: 3E10007-04**

Prepared: 05/24/23 Analyzed: 05/25/23

Chemical Oxygen Demand	246	20.0	mg/L	1000	338	NR	80-120	20.1	20	QAL1, QM-05
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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: 97-04\_MNA  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**Notes and Definitions**

- SUB-13 Subcontract of analyte/analysis to ALS Houston.
- ROI Received on Ice
- 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.
- 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: 6/9/2023

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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Project Number: TNM 97-04  
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.



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: 97-04

Company Name: TRC Environmental Corporation

Project #: SRS: TNM 97-04

Company Address: 10 Desta Drive, Ste 130E

Project Loc: Lea County, NM

City/State/Zip: Midland TX 79705

PO #:

Telephone No: (432) 520-7720

Fax No:

Report Format:

Standard  TRRP  NPDES

Sampler Signature:

e-mail: cdstanley@trccompanies.com

cdbrvant@paalp.com  
khuddgens@paalp.com  
mgreen@trccompanies.com

Analyze For:

TCLP	
TOTAL	X

ORDER #: 3E17005

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	Matrix	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
1	MW-10			5-16-23	1130	1	9	X	1	1	1	1	1	1		GW	X	X	X	X	X	X	X	X
2	MW-15				1220	1	9	X	1	1	1	1	1			GW	X	X	X	X	X	X	X	X
3	MW-14				1307	1	9	X	1	1	1	1	1			GW	X	X	X	X	X	X	X	X
4	MW-5				1438	1	9	X	1	1	1	1	1			GW	X	X	X	X	X	X	X	X
5	MW-9				1555	1	9	X	1	1	1	1	1			GW	X	X	X	X	X	X	X	X
6	MW-6				1649	1	9	X	1	1	1	1	1			GW	X	X	X	X	X	X	X	X

Special Instructions:

BILL TO PLAINS

Relinquished by: Manny Date: 5-17-23 Time: 0810 Received by: [Signature] Date: 5/17-23 Time: 810

Relinquished by: [Signature] Date: [Blank] Time: [Blank] Received by: [Signature] Date: [Blank] Time: [Blank]

Relinquished by: [Signature] Date: [Blank] Time: [Blank] Received by: [Signature] Date: [Blank] Time: [Blank]

Relinquished by: [Signature] Date: [Blank] Time: [Blank] Received by: [Signature] Date: [Blank] Time: [Blank]

Laboratory Comments:

Sample Containers Intact? X

VOCs Free of Headspace? Y

Labels on Container(s) Y

Custody seals on container(s) Y

Custody seals on cooler(s) Y

Sample Hand Delivered by Sampler/Client Rep. Y

by Courier? UPS Y

Temperature Upon Receipt: 5.6 °C

Adjusted: 1.3 °C Factor

DHL FedEx Lone Star



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

May 25, 2023

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

Work Order: **HS23051287**

Laboratory Results for: **3E17005**

Dear Brent Barron,

ALS Environmental received 6 sample(s) on May 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: DAYNA.FISHER  
Anna Kinchen  
Project Manager

**ALS Houston, US**

Date: 25-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E17005  
**Work Order:** HS23051287

**SAMPLE SUMMARY**

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23051287-01	3E17005-01	Water		16-May-2023 11:30	18-May-2023 09:30	<input type="checkbox"/>
HS23051287-02	3E17005-02	Water		16-May-2023 12:20	18-May-2023 09:30	<input type="checkbox"/>
HS23051287-03	3E17005-03	Water		16-May-2023 13:07	18-May-2023 09:30	<input type="checkbox"/>
HS23051287-04	3E17005-04	Water		16-May-2023 14:38	18-May-2023 09:30	<input type="checkbox"/>
HS23051287-05	3E17005-05	Water		16-May-2023 15:55	18-May-2023 09:30	<input type="checkbox"/>
HS23051287-06	3E17005-06	Water		16-May-2023 16:49	18-May-2023 09:30	<input type="checkbox"/>

**ALS Houston, US**

Date: 25-May-23

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**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E17005  
**Work Order:** HS23051287

**CASE NARRATIVE**

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**GC Semivolatiles by Method RSK-175**

**Batch ID: R436192**

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

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**Metals by Method SW6020A**

**Batch ID: 194149**

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

---

**WetChemistry by Method E415.1**

**Batch ID: R435823**

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

**ALS Houston, US**

Date: 25-May-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3E17005  
 Sample ID: 3E17005-01  
 Collection Date: 16-May-2023 11:30

**ANALYTICAL REPORT**

WorkOrder:HS23051287  
 Lab ID:HS23051287-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	24-May-2023 16:18
Ethene	ND		1.00	ug/L	1	24-May-2023 16:18
<b>Methane</b>	<b>0.607</b>		<b>0.500</b>	<b>ug/L</b>	1	24-May-2023 16:18
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 22-May-2023	Analyst: JC
Iron	ND		0.200	mg/L	1	22-May-2023 22:05
Manganese	ND		0.00500	mg/L	1	22-May-2023 22:05
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: MZD
Organic Carbon, Total	ND		1.00	mg/L	1	20-May-2023 02:30

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

**ALS Houston, US**

Date: 25-May-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3E17005  
 Sample ID: 3E17005-02  
 Collection Date: 16-May-2023 12:20

**ANALYTICAL REPORT**  
 WorkOrder:HS23051287  
 Lab ID:HS23051287-02  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	24-May-2023 16:29
Ethene	ND		1.00	ug/L	1	24-May-2023 16:29
<b>Methane</b>	<b>200</b>		<b>5.00</b>	<b>ug/L</b>	10	24-May-2023 17:32
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 22-May-2023	Analyst: JC
Iron	ND		0.200	mg/L	1	22-May-2023 22:07
<b>Manganese</b>	<b>0.0455</b>		<b>0.00500</b>	<b>mg/L</b>	1	22-May-2023 22:07
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: MZD
Organic Carbon, Total	ND		1.00	mg/L	1	20-May-2023 02:56

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



**ALS Houston, US**

Date: 25-May-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3E17005  
 Sample ID: 3E17005-03  
 Collection Date: 16-May-2023 13:07

**ANALYTICAL REPORT**  
 WorkOrder:HS23051287  
 Lab ID:HS23051287-03  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	24-May-2023 16:38
Ethene	ND		1.00	ug/L	1	24-May-2023 16:38
<b>Methane</b>	<b>133</b>		<b>2.50</b>	<b>ug/L</b>	5	24-May-2023 17:40
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 22-May-2023	Analyst: JC
Iron	ND		0.200	mg/L	1	22-May-2023 22:09
<b>Manganese</b>	<b>0.0551</b>		<b>0.00500</b>	<b>mg/L</b>	1	22-May-2023 22:09
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: MZD
Organic Carbon, Total	ND		1.00	mg/L	1	20-May-2023 03:08

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

**ALS Houston, US**

Date: 25-May-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3E17005  
 Sample ID: 3E17005-04  
 Collection Date: 16-May-2023 14:38

**ANALYTICAL REPORT**  
 WorkOrder:HS23051287  
 Lab ID:HS23051287-04  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	24-May-2023 16:46
Ethene	ND		1.00	ug/L	1	24-May-2023 16:46
<b>Methane</b>	<b>9,960</b>		<b>500</b>	<b>ug/L</b>	1000	24-May-2023 17:52
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 22-May-2023	Analyst: JC
<b>Iron</b>	<b>1.77</b>		<b>0.200</b>	<b>mg/L</b>	1	22-May-2023 22:11
<b>Manganese</b>	<b>0.308</b>		<b>0.00500</b>	<b>mg/L</b>	1	22-May-2023 22:11
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: MZD
Organic Carbon, Total	ND		1.00	mg/L	1	20-May-2023 03:20

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

**ALS Houston, US**

Date: 25-May-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3E17005  
 Sample ID: 3E17005-05  
 Collection Date: 16-May-2023 15:55

**ANALYTICAL REPORT**  
 WorkOrder:HS23051287  
 Lab ID:HS23051287-05  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	24-May-2023 16:58
Ethene	ND		1.00	ug/L	1	24-May-2023 16:58
<b>Methane</b>	<b>1,410</b>		<b>25.0</b>	<b>ug/L</b>	50	24-May-2023 18:13
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 22-May-2023	Analyst: JC
Iron	ND		0.200	mg/L	1	22-May-2023 22:13
<b>Manganese</b>	<b>0.0230</b>		<b>0.00500</b>	<b>mg/L</b>	1	22-May-2023 22:13
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: MZD
Organic Carbon, Total	ND		1.00	mg/L	1	20-May-2023 03:33

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

**ALS Houston, US**

Date: 25-May-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3E17005  
 Sample ID: 3E17005-06  
 Collection Date: 16-May-2023 16:49

**ANALYTICAL REPORT**  
 WorkOrder:HS23051287  
 Lab ID:HS23051287-06  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	24-May-2023 17:24
Ethene	ND		1.00	ug/L	1	24-May-2023 17:24
<b>Methane</b>	<b>511</b>		<b>10.0</b>	<b>ug/L</b>	20	24-May-2023 18:21
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 22-May-2023	Analyst: JC
Iron	ND		0.200	mg/L	1	22-May-2023 22:15
<b>Manganese</b>	<b>0.0950</b>		<b>0.00500</b>	<b>mg/L</b>	1	22-May-2023 22:15
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: MZD
Organic Carbon, Total	ND		1.00	mg/L	1	20-May-2023 04:12

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

ALS Houston, US

Date: 25-May-23

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP

Project: 3E17005

WorkOrder: HS23051287

Batch ID: 194149

Start Date: 22 May 2023 13:30

End Date: 22 May 2023 13:30

Method: DISS METALS PREP - WATER - SW3010A

Prep Code: 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23051287-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23051287-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23051287-03		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23051287-04		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23051287-05		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23051287-06		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US

Date: 25-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E17005  
**WorkOrder:** HS23051287

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> 194149 ( 0 )		<b>Test Name :</b> DISSOLVED METALS BY SW6020A			<b>Matrix:</b> Water	
HS23051287-01	3E17005-01	16 May 2023 11:30		22 May 2023 13:30	22 May 2023 22:05	1
HS23051287-02	3E17005-02	16 May 2023 12:20		22 May 2023 13:30	22 May 2023 22:07	1
HS23051287-03	3E17005-03	16 May 2023 13:07		22 May 2023 13:30	22 May 2023 22:09	1
HS23051287-04	3E17005-04	16 May 2023 14:38		22 May 2023 13:30	22 May 2023 22:11	1
HS23051287-05	3E17005-05	16 May 2023 15:55		22 May 2023 13:30	22 May 2023 22:13	1
HS23051287-06	3E17005-06	16 May 2023 16:49		22 May 2023 13:30	22 May 2023 22:15	1
<b>Batch ID:</b> R435823 ( 0 )		<b>Test Name :</b> TOTAL ORGANIC CARBON BY E415.1			<b>Matrix:</b> Water	
HS23051287-01	3E17005-01	16 May 2023 11:30			20 May 2023 02:30	1
HS23051287-02	3E17005-02	16 May 2023 12:20			20 May 2023 02:56	1
HS23051287-03	3E17005-03	16 May 2023 13:07			20 May 2023 03:08	1
HS23051287-04	3E17005-04	16 May 2023 14:38			20 May 2023 03:20	1
HS23051287-05	3E17005-05	16 May 2023 15:55			20 May 2023 03:33	1
HS23051287-06	3E17005-06	16 May 2023 16:49			20 May 2023 04:12	1
<b>Batch ID:</b> R436192 ( 1 )		<b>Test Name :</b> DISSOLVED GASES BY RSK-175			<b>Matrix:</b> Water	
HS23051287-01	3E17005-01	16 May 2023 11:30			24 May 2023 16:18	1
HS23051287-02	3E17005-02	16 May 2023 12:20			24 May 2023 17:32	10
HS23051287-02	3E17005-02	16 May 2023 12:20			24 May 2023 16:29	1
HS23051287-03	3E17005-03	16 May 2023 13:07			24 May 2023 17:40	5
HS23051287-03	3E17005-03	16 May 2023 13:07			24 May 2023 16:38	1
HS23051287-04	3E17005-04	16 May 2023 14:38			24 May 2023 17:52	1000
HS23051287-04	3E17005-04	16 May 2023 14:38			24 May 2023 16:46	1
HS23051287-05	3E17005-05	16 May 2023 15:55			24 May 2023 18:13	50
HS23051287-05	3E17005-05	16 May 2023 15:55			24 May 2023 16:58	1
HS23051287-06	3E17005-06	16 May 2023 16:49			24 May 2023 18:21	20
HS23051287-06	3E17005-06	16 May 2023 16:49			24 May 2023 17:24	1

ALS Houston, US

Date: 25-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E17005  
**WorkOrder:** HS23051287

**QC BATCH REPORT**

<b>Batch ID:</b> R436192 ( 1 )	<b>Instrument:</b> FID-4	<b>Method:</b> DISSOLVED GASES BY RSK-175
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<b>MBLK</b>	Sample ID: <b>MBLK-230524</b>	Units: <b>ug/L</b>	Analysis Date: <b>24-May-2023 13:17</b>							
Client ID:	Run ID: <b>FID-4_436192</b>	SeqNo: <b>7322674</b>	PrepDate: DF: <b>1</b>							
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								

<b>LCS</b>	Sample ID: <b>LCS-230524</b>	Units: <b>ug/L</b>	Analysis Date: <b>24-May-2023 13:25</b>							
Client ID:	Run ID: <b>FID-4_436192</b>	SeqNo: <b>7322675</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	19.5	1.00	18.04	0	108	75 - 125				
Ethene	17.6	1.00	16.8	0	105	75 - 125				
Methane	8.101	0.500	9.647	0	84.0	75 - 125				

<b>MS</b>	Sample ID: <b>HS23051221-05MS</b>	Units: <b>ug/L</b>	Analysis Date: <b>24-May-2023 14:48</b>							
Client ID:	Run ID: <b>FID-4_436192</b>	SeqNo: <b>7322681</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	25.81	1.00	18.04	6.374	108	75 - 125				
Ethene	16.59	1.00	16.8	0	98.8	75 - 125				
Methane	43.66	0.500	9.647	34.31	96.9	75 - 125				E

<b>MSD</b>	Sample ID: <b>HS23051221-05MSD</b>	Units: <b>ug/L</b>	Analysis Date: <b>24-May-2023 14:56</b>							
Client ID:	Run ID: <b>FID-4_436192</b>	SeqNo: <b>7322682</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	25.14	1.00	18.04	6.374	104	75 - 125	25.81	2.65	30	
Ethene	16.52	1.00	16.8	0	98.3	75 - 125	16.59	0.412	30	
Methane	43.49	0.500	9.647	34.31	95.2	75 - 125	43.66	0.372	30	E

<b>The following samples were analyzed in this batch:</b>	HS23051287-01	HS23051287-02	HS23051287-03	HS23051287-04
	HS23051287-05	HS23051287-06		

ALS Houston, US

Date: 25-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E17005  
**WorkOrder:** HS23051287

**QC BATCH REPORT**

<b>Batch ID:</b> 194149 ( 0 )	<b>Instrument:</b> ICPMS06	<b>Method:</b> DISSOLVED METALS BY SW6020A (DISSOLVED)
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<b>MBLK</b>	Sample ID: <b>MBLKF1-194149</b>	Units: <b>mg/L</b>	Analysis Date: <b>22-May-2023 21:23</b>							
Client ID:	Run ID: <b>ICPMS06_435843</b>	SeqNo: <b>7316913</b>	PrepDate: <b>22-May-2023</b> DF: <b>1</b>							
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								

<b>MBLK</b>	Sample ID: <b>MBLK-194149</b>	Units: <b>mg/L</b>	Analysis Date: <b>22-May-2023 21:21</b>							
Client ID:	Run ID: <b>ICPMS06_435843</b>	SeqNo: <b>7316912</b>	PrepDate: <b>22-May-2023</b> DF: <b>1</b>							
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								

<b>LCS</b>	Sample ID: <b>LCS-194149</b>	Units: <b>mg/L</b>	Analysis Date: <b>22-May-2023 21:25</b>							
Client ID:	Run ID: <b>ICPMS06_435843</b>	SeqNo: <b>7316914</b>	PrepDate: <b>22-May-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Iron	4.934	0.200	5	0	98.7	80 - 120				
Manganese	0.04706	0.00500	0.05	0	94.1	80 - 120				

<b>MS</b>	Sample ID: <b>HS23050725-02MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>22-May-2023 21:31</b>							
Client ID:	Run ID: <b>ICPMS06_435843</b>	SeqNo: <b>7316917</b>	PrepDate: <b>22-May-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Iron	4.461	0.200	5	0.005308	89.1	75 - 125				
Manganese	0.0468	0.00500	0.05	0.003735	86.1	75 - 125				

<b>MSD</b>	Sample ID: <b>HS23050725-02MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>22-May-2023 21:33</b>							
Client ID:	Run ID: <b>ICPMS06_435843</b>	SeqNo: <b>7316918</b>	PrepDate: <b>22-May-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Iron	4.655	0.200	5	0.005308	93.0	75 - 125	4.461	4.26	20	
Manganese	0.04872	0.00500	0.05	0.003735	90.0	75 - 125	0.0468	4.02	20	



**ALS Houston, US**

Date: 25-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E17005  
**WorkOrder:** HS23051287

**QC BATCH REPORT**

<b>Batch ID:</b> 194149 ( 0 )	<b>Instrument:</b> ICPMS06	<b>Method:</b> DISSOLVED METALS BY SW6020A (DISSOLVED)							
<b>PDS</b>	Sample ID: <b>HS23050725-02PDS</b>	Units: <b>mg/L</b>			Analysis Date: <b>22-May-2023 21:35</b>				
Client ID:	Run ID: <b>ICPMS06_435843</b>	SeqNo: <b>7316919</b>	PrepDate: <b>22-May-2023</b>	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Iron	9.34	0.200	10	0.005308	93.3	75 - 125			
Manganese	0.09314	0.00500	0.1	0.003735	89.4	75 - 125			

<b>SD</b>	Sample ID: <b>HS23050725-02SD</b>	Units: <b>mg/L</b>			Analysis Date: <b>22-May-2023 21:29</b>				
Client ID:	Run ID: <b>ICPMS06_435843</b>	SeqNo: <b>7316916</b>	PrepDate: <b>22-May-2023</b>	DF: <b>5</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit Qual

Iron	ND	1.00					0.005308	0	10
Manganese	0.004146	0.0250					0.003735	0	10

The following samples were analyzed in this batch:

HS23051287-01	HS23051287-02	HS23051287-03	HS23051287-04
HS23051287-05	HS23051287-06		

ALS Houston, US

Date: 25-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E17005  
**WorkOrder:** HS23051287

**QC BATCH REPORT**

<b>Batch ID:</b> R435823 ( 0 )	<b>Instrument:</b> TOC_04	<b>Method:</b> TOTAL ORGANIC CARBON BY E415.1
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<b>MBLK</b>	Sample ID: <b>MBLK-05192023</b>	Units: <b>mg/L</b>	Analysis Date: <b>20-May-2023 01:37</b>							
Client ID:	Run ID: <b>TOC_04_435823</b>	SeqNo: <b>7314482</b>	PrepDate: DF: <b>1</b>							
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

<b>LCS</b>	Sample ID: <b>LCS-05192023</b>	Units: <b>mg/L</b>	Analysis Date: <b>20-May-2023 01:51</b>							
Client ID:	Run ID: <b>TOC_04_435823</b>	SeqNo: <b>7314483</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 10.11 1.00 10 0 101 85 - 115

<b>LCSD</b>	Sample ID: <b>LCSD-05192023</b>	Units: <b>mg/L</b>	Analysis Date: <b>20-May-2023 02:04</b>							
Client ID:	Run ID: <b>TOC_04_435823</b>	SeqNo: <b>7314484</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 10.36 1.00 10 0 104 85 - 115 10.11 2.44 20

<b>MS</b>	Sample ID: <b>HS23051287-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>20-May-2023 02:44</b>							
Client ID: <b>3E17005-01</b>	Run ID: <b>TOC_04_435823</b>	SeqNo: <b>7314487</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 10.99 1.00 10 0.2595 107 80 - 120

<b>The following samples were analyzed in this batch:</b>	HS23051287-01	HS23051287-02	HS23051287-03	HS23051287-04
	HS23051287-05	HS23051287-06		

**ALS Houston, US**

Date: 25-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E17005  
**WorkOrder:** HS23051287

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	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

<b>Acronym</b>	<b>Description</b>
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-May-23

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**CERTIFICATIONS,ACCREDITATIONS & LICENSES**

<b>Agency</b>	<b>Number</b>	<b>Expire Date</b>
Arkansas	88-00356	27-Mar-2024
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	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	T104704231-23-30	30-Apr-2024
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US

Date: 25-May-23

Sample Receipt Checklist

Work Order ID: HS23051287

Date/Time Received: 18-May-2023 09:30

Client Name: Permian Basin Lab

Received by: Paresh M. Giga

Completed By: /S/ Belinda Gomez	18-May-2023 09:30	Reviewed by: /S/ Anna Kinchen	19-May-2023 08:40
eSignature	Date/Time	eSignature	Date/Time

Matrices: **W**

Carrier 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):	3.0UC/2.9C	IR 31
Cooler(s)/Kit(s):	RED	
Date/Time sample(s) sent to storage:	05/17/2023 15:00	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
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  
Company Name: PBEL  
Company Address: 1400 Rankin HWY  
City/State/Zip: Midland Texas 79701  
Telephone No: 432-661-4184  
Sampler Signature: N/A

**HS23051287**  
Permian Basin Environmental Lab, LP  
3E12007



Project Name: SUBCONTRACT  
Project #: \_\_\_\_\_  
Project Loc: \_\_\_\_\_  
PO #: \_\_\_\_\_  
Report Format:  Standard  TRRP  NPDES

e-mail: brentbarron@pbelab.com

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:												24 HOUR STANDARD						
								ICE	HNO <sub>3</sub> 250 poly 1	HCl 3 40mL VOA	H <sub>2</sub> SO <sub>4</sub> 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NONE	NONE 3 AMBER VOAA VIALS	DW=Drinking Water S=Sludge	GW = Groundwater S=soil/Solid		NP=Non-Potable Specify Other	TOC-415.1	RSK SOP-175	Fe, Mn Diss ICP-MS 6020A															
	3E17005-01			5/16/2023	11:30	✓	6	X	X	X	X							W	X	X	X																X
	3E17005-02			5/16/2023	12:20	✓	6	X	X	X	X							W	X	X	X															X	
	3E17005-03			5/16/2023	13:07	✓	6	X	X	X	X							W	X	X	X															X	
	3E17005-04			5/16/2023	14:38	✓	6	X	X	X	X							W	X	X	X															X	
	3E17005-05			5/16/2023	15:55	✓	6	X	X	X	X							W	X	X	X															X	
	3E17005-06			5/16/2023	16:49	✓	6	X	X	X	X							W	X	X	X															X	

<b>SPECIAL INSTRUCTIONS:</b>						<b>Laboratory Comments:</b>											
Relinquished by: <u>Brent Barron</u> <i>UK</i> <u>3:00</u> <u>5/17/23</u> <u>17:00</u> <i>PK</i> <u>5/18/23</u> <u>09:30</u>						Sample Containers Intact? <u>Y</u> <u>N</u>											
Relinquished by: <u>#31</u> <u>5/17/23</u> <u>17:00</u>						VOCs Free of Headspace? <u>Y</u> <u>N</u>											
Relinquished by: _____ <u>_____</u> <u>_____</u>						Labels on container(s) <u>Y</u> <u>N</u>											
						Custody seals on container(s) <u>Y</u> <u>N</u>											
						Custody seals on cooler(s) <u>Y</u> <u>N</u>											
						Sample Hand Delivered by Sampler/Client Rep. ? <u>Y</u> <u>N</u>											
						by Courier? <u>UPS</u> <u>DHL</u> <u>FedEx</u> <u>Lone Star</u>											
						Temperature Upon Receipt: _____ °C											
						Adjusted: _____ °C Factor											

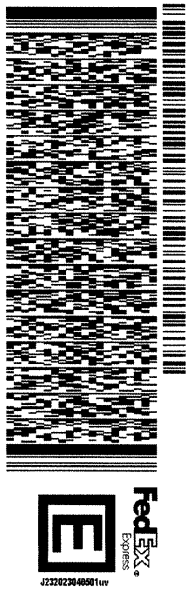
ORIGIN ID:MAFA (432) 686-7235  
 BRENT BARON  
 PBE LAB  
 1400 RANKIN HWY  
 MIDLAND, TX 79701  
 UNITED STATES US

SHIP DATE: 17MAY23  
 ACT WT: 25.00 LB  
 CAD: 107138945NET 4610

BILL RECIPIENT

TO SAMPLE RECEIVING  
 ALS-HOUSTON  
 10450 STANCLIFF RD  
 HOUSTON TX 77099

REF: (281) 530-5615  
 PO: NY DEPT: 583J3ZBC3FE2D



TRK# 7721 7590 9137  
 0201  
 THU - 18 MAY 4:30P  
 STANDARD OVERNIGHT

AB SGRA  
 TX-US IAH  
 77099



*Red*  
 MAY 19 2023

**After printing this label:**

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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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: 97-04  
Project Number: TNM 97-04  
Location: Lea County, NM  
Lab Order Number: 3E17006



**Current Certification**

Report Date: 05/26/23



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

Project: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-13	3E17006-01	Water	05/16/23 17:10	05-17-2023 08:10
MW-18	3E17006-02	Water	05/16/23 17:32	05-17-2023 08:10

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

Project: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-13**  
**3E17006-01 (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	P3E1904	05/19/23 10:00	05/22/23 19:16	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 19:16	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 19:16	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 19:16	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 19:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	97.4 %		80-120		P3E1904	05/19/23 10:00	05/22/23 19:16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.4 %		80-120		P3E1904	05/19/23 10:00	05/22/23 19:16	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 10 Desta Dr STE 150E Midland TX, 79705	Project: 97-04 Project Number: TNM 97-04 Project Manager: Curt Stanley
--	--

**MW-18**  
**3E17006-02 (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	P3E1904	05/19/23 10:00	05/22/23 19:36	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 19:36	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 19:36	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 19:36	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3E1904	05/19/23 10:00	05/22/23 19:36	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>101 %</i>	<i>80-120</i>		<i>P3E1904</i>	<i>05/19/23 10:00</i>	<i>05/22/23 19:36</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>		<i>96.1 %</i>	<i>80-120</i>		<i>P3E1904</i>	<i>05/19/23 10:00</i>	<i>05/22/23 19:36</i>	<i>EPA 8021B</i>	

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: 97-04  
 Project Number: TNM 97-04  
 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 P3E1904 - \*\*\* DEFAULT PREP \*\*\***

Blank (P3E1904-BLK1) <span style="float:right">Prepared: 05/19/23 Analyzed: 05/22/23</span>										
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	0.123		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	80-120			

LCS (P3E1904-BS1) <span style="float:right">Prepared: 05/19/23 Analyzed: 05/22/23</span>										
Benzene	0.112	0.00100	mg/L	0.100		112	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.120	0.00100	"	0.100		120	80-120			
Surrogate: 4-Bromofluorobenzene	0.136		"	0.120		114	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.2	80-120			

LCS Dup (P3E1904-BSD1) <span style="float:right">Prepared: 05/19/23 Analyzed: 05/22/23</span>										
Benzene	0.111	0.00100	mg/L	0.100		111	80-120	1.23	20	
Toluene	0.115	0.00100	"	0.100		115	80-120	0.616	20	
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120	0.900	20	
Xylene (p/m)	0.235	0.00200	"	0.200		117	80-120	0.209	20	
Xylene (o)	0.120	0.00100	"	0.100		120	80-120	0.0835	20	
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.0	80-120			

Calibration Blank (P3E1904-CCB1) <span style="float:right">Prepared: 05/19/23 Analyzed: 05/22/23</span>										
Benzene	0.160		ug/l							
Toluene	0.240		"							
Ethylbenzene	0.490		"							
Xylene (p/m)	0.870		"							
Xylene (o)	0.610		"							
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	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  
 10 Desta Dr STE 150E  
 Midland TX, 79705

Project: 97-04  
 Project Number: TNM 97-04  
 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 P3E1904 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Blank (P3E1904-CCB2)**

Prepared: 05/19/23 Analyzed: 05/22/23

Benzene	0.240		ug/l							
Toluene	0.340		"							
Ethylbenzene	0.440		"							
Xylene (p/m)	0.980		"							
Xylene (o)	0.390		"							
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		97.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	80-120			

**Calibration Check (P3E1904-CCV1)**

Prepared: 05/19/23 Analyzed: 05/22/23

Benzene	0.112	0.00100	mg/L	0.100		112	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		117	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.120		111	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	80-120			

**Calibration Check (P3E1904-CCV2)**

Prepared: 05/19/23 Analyzed: 05/22/23

Benzene	0.115	0.00100	mg/L	0.100		115	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		118	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.8	80-120			

**Calibration Check (P3E1904-CCV3)**

Prepared: 05/19/23 Analyzed: 05/22/23

Benzene	0.116	0.00100	mg/L	0.100		116	80-120			
Toluene	0.118	0.00100	"	0.100		118	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		119	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.7	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  
 10 Desta Dr STE 150E  
 Midland TX, 79705

Project: 97-04  
 Project Number: TNM 97-04  
 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 P3E1904 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P3E1904-MS1)</b>	<b>Source: 3E12009-02</b>			<b>Prepared: 05/19/23 Analyzed: 05/22/23</b>						
Benzene	0.127	0.00100	mg/L	0.100	ND	127	80-120			QM-05
Toluene	0.124	0.00100	"	0.100	ND	124	80-120			QM-05
Ethylbenzene	0.128	0.00100	"	0.100	ND	128	80-120			QM-05
Xylene (p/m)	0.252	0.00200	"	0.200	ND	126	80-120			QM-05
Xylene (o)	0.120	0.00100	"	0.100	ND	120	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	80-120			

<b>Matrix Spike Dup (P3E1904-MSD1)</b>	<b>Source: 3E12009-02</b>			<b>Prepared: 05/19/23 Analyzed: 05/22/23</b>						
Benzene	0.129	0.00100	mg/L	0.100	ND	129	80-120	1.51	20	QM-05
Toluene	0.128	0.00100	"	0.100	ND	128	80-120	3.02	20	QM-05
Ethylbenzene	0.133	0.00100	"	0.100	ND	133	80-120	3.70	20	QM-05
Xylene (p/m)	0.260	0.00200	"	0.200	ND	130	80-120	3.03	20	QM-05
Xylene (o)	0.126	0.00100	"	0.100	ND	126	80-120	4.82	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		108	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.0	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: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**Notes and Definitions**

- 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: 5/26/2023

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.

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TRC Solutions- Midland, Texas  
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Midland TX, 79705

Project: 97-04  
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Project Manager: Curt Stanley

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Permian Basin Environmental Lab, L.P.

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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

Page 1 of

Project Manager: Curt Stanley

Project Name: 97-04

Page 10 of 10

Company Name: TRC Environmental Corporation

Project #: SRS: TNM 97-04

Company Address: 10 Desta Drive, Ste 130E

Project Loc: Lea County, NM

City/State/Zip: Midland TX 79705

PO #:

Telephone No: (432) 520-7720

Fax No:

Report Format:  Standard  TRRP  NPDES

Sampler Signature: *Curt Stanley*

e-mail: cstanley@trccompanies.com  
clivant@paalp.com  
knudgens@paalp.com  
mgreen@trccompanies.com

(lab use only)

ORDER #: 3617006

Preservation & # of Containers

Analyze For:

TOC MW 5310	TCLP:	
Dissolved Methane, Ethane, and Ethene by RSK-175	TOTAL:	X
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		

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	Matrix	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	
1	MW-13			5-16-23	1710	1	3	X								GW									X
2	MW-18			5-16-23	1732	1	3	X								GW									X
	MW-4					1	3	X								GW									X
	MW-2					1	3	X								GW									X
	MW-3					1	3	X								GW									X
	MW-1					1	3	X								GW									X
	RW-2					1	3	X								GW									X
	RW-3					1	3	X								GW									X
	RW-4					1	3	X								GW									X

Special Instructions: BILL TO PLAINS

Special Instructions: BILL TO PLAINS

Reinquired by: Date 5-17-23 Time 0810 Received by: Date Date Time

Reinquired by: Manny Date Date Time Received by: Date Date Time

Reinquired by: Date Date Time Received by: Date Date Time

Reinquired by: Date Date Time Received by: Date 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 by Sampler/Client Rep. ? Y N

Temperature Upon Receipt: 5.6 °C

Adjusted: N/A

UPS DHL FedEx Lone Star

**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: 97-04\_MNA  
Project Number: TNM 97-04  
Location: Lea County, NM  
Lab Order Number: 3H10001



**Current Certification**

Report Date: 08/25/23

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

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10	3H10001-01	Water	08/09/23 10:05	08-10-2023 08:38
MW-15	3H10001-02	Water	08/09/23 12:30	08-10-2023 08:38
MW-14	3H10001-03	Water	08/09/23 11:15	08-10-2023 08:38
MW-5	3H10001-04	Water	08/09/23 15:00	08-10-2023 08:38
MW-9	3H10001-05	Water	08/09/23 16:00	08-10-2023 08:38
MW-6	3H10001-06	Water	08/09/23 14:15	08-10-2023 08:38

Dissolved Gasses, Iron and Manganese as well as 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](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: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-10**  
**3H10001-01 (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	P3H1513	08/15/23 15:40	08/16/23 10:47	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 10:47	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 10:47	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 10:47	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 10:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		177 %	80-120		P3H1513	08/15/23 15:40	08/16/23 10:47	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		88.1 %	80-120		P3H1513	08/15/23 15:40	08/16/23 10:47	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 12:06	8015M	
Ethene	ND	0.00100	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 12:06	8015M	
Methane	ND	0.000500	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 13:38	8015M	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>16.0</b>	2.00	mg/L	1	P3H1512	08/15/23 11:15	08/17/23 13:10	8000	QAL1
<b>Nitrate as N</b>	<b>8.68</b>	0.200	mg/L	1	P3H1010	08/10/23 15:16	08/11/23 17:03	EPA 300.0	
<b>Sulfate</b>	<b>55.4</b>	5.00	mg/L	5	P3H1010	08/10/23 15:16	08/11/23 13:58	EPA 300.0	
<b>Total Organic Carbon</b>	<b>1.34</b>	1.00	mg/L	1	P3H2401	08/24/23 14:46	08/24/23 14:46	EPA 415.1	

**Dissolved Metals by EPA / Standard Methods**

Iron	ND	0.200	mg/L	1	P3H2401	08/16/23 08:00	08/16/23 21:32	EPA 6020A	
Manganese	ND	0.00500	mg/L	1	P3H2401	08/16/23 08:00	08/16/23 21:32	EPA 6020A	

Permian Basin Environmental Lab, L.P.

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

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-15**  
**3H10001-02 (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	P3H1513	08/15/23 15:40	08/16/23 11:08	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 11:08	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 11:08	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 11:08	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 11:08	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>168 %</i>	<i>80-120</i>		<i>P3H1513</i>	<i>08/15/23 15:40</i>	<i>08/16/23 11:08</i>	<i>EPA 8021B</i>	<i>S-GC</i>
<i>Surrogate: 1,4-Difluorobenzene</i>		<i>87.0 %</i>	<i>80-120</i>		<i>P3H1513</i>	<i>08/15/23 15:40</i>	<i>08/16/23 11:08</i>	<i>EPA 8021B</i>	
Ethane	ND	0.00100	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 12:06	8015M	
Ethene	ND	0.00100	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 12:06	8015M	
<b>Methane</b>	<b>0.153</b>	<b>0.00500</b>	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 13:38	8015M	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>16.0</b>	2.00	mg/L	1	P3H1512	08/15/23 11:15	08/17/23 13:10	8000	QAL1
<b>Nitrate as N</b>	<b>1.86</b>	0.200	mg/L	1	P3H1010	08/10/23 15:16	08/11/23 18:05	EPA 300.0	
<b>Sulfate</b>	<b>69.4</b>	5.00	mg/L	5	P3H1010	08/10/23 15:16	08/11/23 15:00	EPA 300.0	
<b>Total Organic Carbon</b>	<b>1.25</b>	1.00	mg/L	1	P3H2401	08/14/23 12:46	08/14/23 12:46	EPA 415.1	

**Dissolved Metals by EPA / Standard Methods**

Iron	ND	0.200	mg/L	1	P3H2401	08/16/23 08:00	08/16/23 23:24	EPA 6020A	
<b>Manganese</b>	<b>0.0354</b>	0.00500	mg/L	1	P3H2401	08/16/23 08:00	08/16/23 23:24	EPA 6020A	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas  
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 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-14**  
**3H10001-03 (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	P3H1513	08/15/23 15:40	08/16/23 11:29	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 11:29	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00470</b>	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 11:29	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.0214</b>	0.00200	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 11:29	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00403</b>	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 11:29	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		165 %	80-120		P3H1513	08/15/23 15:40	08/16/23 11:29	EPA 8021B	S-GC
<i>Surrogate: 1,4-Difluorobenzene</i>		88.5 %	80-120		P3H1513	08/15/23 15:40	08/16/23 11:29	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 12:29	8015M	
Ethene	ND	0.00100	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 12:29	8015M	
<b>Methane</b>	<b>0.0908</b>	0.00250	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 14:07	8015M	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>11.0</b>	2.00	mg/L	1	P3H1512	08/15/23 11:15	08/17/23 13:10	8000	QAL1
<b>Nitrate as N</b>	<b>1.82</b>	0.200	mg/L	1	P3H1010	08/10/23 15:16	08/11/23 18:25	EPA 300.0	
<b>Sulfate</b>	<b>50.3</b>	5.00	mg/L	5	P3H1010	08/10/23 15:16	08/11/23 15:21	EPA 300.0	
Total Organic Carbon	ND	1.00	mg/L	1	P3H2401	08/24/23 12:59	08/24/23 12:59	EPA 415.1	

**Dissolved Metals by EPA / Standard Methods**

Iron	ND	0.200	mg/L	1	P3H2401	08/16/23 08:00	08/16/23 23:26	EPA 6020A	
<b>Manganese</b>	<b>0.0533</b>	0.00500	mg/L	1	P3H2401	08/16/23 08:00	08/16/23 23:26	EPA 6020A	

Permian Basin Environmental Lab, L.P.

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

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-5**  
**3H10001-04 (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**

<b>Benzene</b>	<b>4.96</b>	0.100	mg/L	100	P3H1513	08/15/23 15:40	08/16/23 11:59	EPA 8021B	
<b>Toluene</b>	<b>1.86</b>	0.100	mg/L	100	P3H1513	08/15/23 15:40	08/16/23 11:59	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.697</b>	0.100	mg/L	100	P3H1513	08/15/23 15:40	08/16/23 11:59	EPA 8021B	
<b>Xylene (p/m)</b>	<b>1.25</b>	0.200	mg/L	100	P3H1513	08/15/23 15:40	08/16/23 11:59	EPA 8021B	
<b>Xylene (o)</b>	<b>0.435</b>	0.100	mg/L	100	P3H1513	08/15/23 15:40	08/16/23 11:59	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		173 %			<i>P3H1513</i>	<i>08/15/23 15:40</i>	<i>08/16/23 11:59</i>	<i>EPA 8021B</i>	<i>S-GC</i>
<i>Surrogate: 1,4-Difluorobenzene</i>		87.6 %			<i>P3H1513</i>	<i>08/15/23 15:40</i>	<i>08/16/23 11:59</i>	<i>EPA 8021B</i>	
Ethane	ND	0.00100	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 12:38	8015M	
Ethene	ND	0.00100	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 12:38	8015M	
<b>Methane</b>	<b>5.88</b>	0.100	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 12:38	8015M	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>11.0</b>	2.00	mg/L	1	P3H1512	08/15/23 11:15	08/17/23 13:10	8000	QAL1
<b>Nitrate as N</b>	<b>0.391</b>	0.200	mg/L	1	P3H1010	08/10/23 15:16	08/11/23 18:46	EPA 300.0	
<b>Sulfate</b>	<b>15.8</b>	10.0	mg/L	10	P3H1010	08/10/23 15:16	08/11/23 15:41	EPA 300.0	
<b>Total Organic Carbon</b>	<b>5.75</b>	1.00	mg/L	1	P3H2401	08/14/23 13:12	08/14/23 13:12	EPA 415.1	

**Dissolved Metals by EPA / Standard Methods**

<b>Iron</b>	<b>1.74</b>	0.200	mg/L	1	P3H2401	08/16/23 08:00	08/16/23 23:28	EPA 6020A	
<b>Manganese</b>	<b>0.245</b>	0.00500	mg/L	1	P3H2401	08/16/23 08:00	08/16/23 23:28	EPA 6020A	

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: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-9**  
**3H10001-05 (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**

<b>Benzene</b>	<b>0.00952</b>	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 12:40	EPA 8021B	
<b>Toluene</b>	<b>0.0116</b>	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 12:40	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.142</b>	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 12:40	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.336</b>	0.00200	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 12:40	EPA 8021B	
<b>Xylene (o)</b>	<b>0.171</b>	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 12:40	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		192 %	80-120		P3H1513	08/15/23 15:40	08/16/23 12:40	EPA 8021B	S-GC
<i>Surrogate: 1,4-Difluorobenzene</i>		94.7 %	80-120		P3H1513	08/15/23 15:40	08/16/23 12:40	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 12:50	8015M	
Ethene	ND	0.00100	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 12:50	8015M	
<b>Methane</b>	<b>0.795</b>	0.0250	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 14:36	8015M	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>51.0</b>	2.00	mg/L	1	P3H1512	08/15/23 11:15	08/17/23 13:10	8000	QAL1
<b>Nitrate as N</b>	<b>2.74</b>	0.200	mg/L	1	P3H1010	08/10/23 15:16	08/11/23 19:06	EPA 300.0	
<b>Sulfate</b>	<b>42.7</b>	5.00	mg/L	5	P3H1010	08/10/23 15:16	08/11/23 16:02	EPA 300.0	
<b>Total Organic Carbon</b>	<b>2.84</b>	1.00	mg/L	1	P3H2401	08/24/23 14:28	08/24/23 14:28	EPA 415.1	

**Dissolved Metals by EPA / Standard Methods**

Iron	ND	0.200	mg/L	1	P3H2401	08/16/23 08:00	08/16/23 23:30	EPA 6020A	
<b>Manganese</b>	<b>0.0246</b>	0.00500	mg/L	1	P3H2401	08/16/23 08:00	08/16/23 23:30	EPA 6020A	

Permian Basin Environmental Lab, L.P.

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 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-6**  
**3H10001-06 (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**

<b>Benzene</b>	<b>0.359</b>	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 13:01	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 13:01	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00403</b>	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 13:01	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00363</b>	0.00200	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 13:01	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00184</b>	0.00100	mg/L	1	P3H1513	08/15/23 15:40	08/16/23 13:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	175 %	80-120			P3H1513	08/15/23 15:40	08/16/23 13:01	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	97.4 %	80-120			P3H1513	08/15/23 15:40	08/16/23 13:01	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 13:00	8015M	
Ethene	ND	0.00100	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 13:00	8015M	
<b>Methane</b>	<b>1.51</b>	0.0250	mg/L	1	P3H2401	08/17/23 11:52	08/17/23 13:00	8015M	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>40.0</b>	2.00	mg/L	1	P3H1512	08/15/23 11:15	08/17/23 13:10	8000	QAL1
<b>Nitrate as N</b>	<b>2.14</b>	0.200	mg/L	1	P3H1010	08/10/23 15:16	08/11/23 19:27	EPA 300.0	
<b>Sulfate</b>	<b>45.9</b>	5.00	mg/L	5	P3H1010	08/10/23 15:16	08/11/23 16:22	EPA 300.0	
<b>Total Organic Carbon</b>	<b>5.16</b>	1.00	mg/L	1	P3H2401	08/14/23 13:50	08/14/23 13:50	EPA 415.1	

**Dissolved Metals by EPA / Standard Methods**

<b>Iron</b>	<b>0.728</b>	0.200	mg/L	1	P3H2401	08/16/23 08:00	08/24/23 14:28	EPA 6020A	
<b>Manganese</b>	<b>0.178</b>	0.00500	mg/L	1	P3H2401	08/16/23 08:00	08/24/23 14:28	EPA 6020A	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas  
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 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 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 P3H1513 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P3H1513-BLK1)</b>										
					Prepared: 08/15/23 Analyzed: 08/16/23					
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	0.00106	0.00100	"							B
Surrogate: 4-Bromofluorobenzene	0.210		"	0.120		175	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.5	80-120			

<b>LCS (P3H1513-BS1)</b>										
					Prepared: 08/15/23 Analyzed: 08/16/23					
Benzene	0.0946	0.00100	mg/L	0.100		94.6	80-120			
Toluene	0.0988	0.00100	"	0.100		98.8	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.233	0.00200	"	0.200		116	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 4-Bromofluorobenzene	0.226		"	0.120		188	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.8	80-120			

<b>LCS Dup (P3H1513-BSD1)</b>										
					Prepared: 08/15/23 Analyzed: 08/16/23					
Benzene	0.0969	0.00100	mg/L	0.100		96.9	80-120	2.39	20	
Toluene	0.0984	0.00100	"	0.100		98.4	80-120	0.375	20	
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120	0.154	20	
Xylene (p/m)	0.229	0.00200	"	0.200		114	80-120	1.89	20	
Xylene (o)	0.105	0.00100	"	0.100		105	80-120	11.7	20	
Surrogate: 4-Bromofluorobenzene	0.215		"	0.120		179	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.6	80-120			

<b>Calibration Blank (P3H1513-CCB1)</b>										
					Prepared & Analyzed: 08/15/23					
Benzene	0.240		ug/l							
Toluene	0.380		"							
Ethylbenzene	0.510		"							
Xylene (p/m)	1.13		"							
Xylene (o)	0.690		"							
Surrogate: 4-Bromofluorobenzene	0.210		"	0.120		175	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		88.9	80-120			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas  
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 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 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 P3H1513 - \*\*\* DEFAULT PREP \*\*\***

<b>Calibration Blank (P3H1513-CCB2)</b>										
					Prepared: 08/15/23 Analyzed: 08/16/23					
Benzene	0.360		ug/l							
Toluene	0.340		"							
Ethylbenzene	0.580		"							
Xylene (p/m)	1.16		"							
Xylene (o)	0.660		"							
Surrogate: 4-Bromofluorobenzene	0.193		"	0.120		161	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.8	80-120			

<b>Calibration Check (P3H1513-CCV1)</b>										
					Prepared & Analyzed: 08/15/23					
Benzene	0.0881	0.00100	mg/L	0.100		88.1	80-120			
Toluene	0.0927	0.00100	"	0.100		92.7	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.214	0.00200	"	0.200		107	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.200		"	0.120		167	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.8	80-120			

<b>Calibration Check (P3H1513-CCV2)</b>										
					Prepared: 08/15/23 Analyzed: 08/16/23					
Benzene	0.0948	0.00100	mg/L	0.100		94.8	80-120			
Toluene	0.0913	0.00100	"	0.100		91.3	80-120			
Ethylbenzene	0.0995	0.00100	"	0.100		99.5	80-120			
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.184		"	0.120		153	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.0	80-120			

<b>Calibration Check (P3H1513-CCV3)</b>										
					Prepared: 08/15/23 Analyzed: 08/17/23					
Benzene	0.0980	0.00100	mg/L	0.100		98.0	80-120			
Toluene	0.0954	0.00100	"	0.100		95.4	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.220	0.00200	"	0.200		110	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.203		"	0.120		169	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.0	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: 97-04\_MNA  
 Project Number: TNM 97-04  
 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 P3H1513 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P3H1513-MS1)</b>	<b>Source: 3H15014-02</b>			<b>Prepared: 08/15/23 Analyzed: 08/17/23</b>						
Benzene	0.0992	0.00100	mg/L	0.100	ND	99.2	80-120			
Toluene	0.0879	0.00100	"	0.100	ND	87.9	80-120			
Ethylbenzene	0.101	0.00100	"	0.100	ND	101	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200	ND	99.2	80-120			
Xylene (o)	0.0955	0.00100	"	0.100	ND	95.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.192		"	0.120		160	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.0	80-120			

<b>Matrix Spike Dup (P3H1513-MSD1)</b>	<b>Source: 3H15014-02</b>			<b>Prepared: 08/15/23 Analyzed: 08/17/23</b>						
Benzene	0.0993	0.00100	mg/L	0.100	ND	99.3	80-120	0.101	20	
Toluene	0.0931	0.00100	"	0.100	ND	93.1	80-120	5.75	20	
Ethylbenzene	0.109	0.00100	"	0.100	ND	109	80-120	6.71	20	
Xylene (p/m)	0.212	0.00200	"	0.200	ND	106	80-120	6.74	20	
Xylene (o)	0.101	0.00100	"	0.100	ND	101	80-120	6.05	20	
Surrogate: 4-Bromofluorobenzene	0.202		"	0.120		168	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		88.9	80-120			

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TRC Solutions- Midland, Texas	Project: 97-04_MNA
10 Desta Dr STE 150E	Project Number: TNM 97-04
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 P3H1010 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P3H1010-BLK1)** Prepared: 08/10/23 Analyzed: 08/11/23

Nitrate as N	ND	0.200	mg/L							
Sulfate	ND	1.00	"							

**LCS (P3H1010-BS1)** Prepared: 08/10/23 Analyzed: 08/11/23

Nitrate as N	10.2		mg/L	10.0		102	90-110			
Sulfate	9.58		"	10.0		95.8	90-110			

**LCS Dup (P3H1010-BSD1)** Prepared: 08/10/23 Analyzed: 08/11/23

Sulfate	9.59		mg/L	10.0		95.9	90-110	0.104	10	
Nitrate as N	10.1		"	10.0		101	90-110	0.236	10	

**Calibration Check (P3H1010-CCV1)** Prepared: 08/10/23 Analyzed: 08/11/23

Sulfate	9.70		mg/L	10.0		97.0	90-110			
Nitrate as N	10.2		"	10.0		102	90-110			

**Calibration Check (P3H1010-CCV2)** Prepared: 08/10/23 Analyzed: 08/11/23

Sulfate	9.92		mg/L	10.0		99.2	90-110			
Nitrate as N	10.3		"	10.0		103	90-110			

**Matrix Spike (P3H1010-MS1)** Source: 3H10001-01 Prepared: 08/10/23 Analyzed: 08/11/23

Sulfate	107		mg/L	100	11.1	95.9	80-120			
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**Matrix Spike (P3H1010-MS2)** Source: 3H10001-01 Prepared: 08/10/23 Analyzed: 08/11/23

Nitrate as N	18.8		mg/L	10.0	8.68	102	80-120			
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**Matrix Spike Dup (P3H1010-MSD1)** Source: 3H10001-01 Prepared: 08/10/23 Analyzed: 08/11/23

Sulfate	107		mg/L	100	11.1	95.9	80-120	0.00935	20	
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TRC Solutions- Midland, Texas	Project: 97-04_MNA
10 Desta Dr STE 150E	Project Number: TNM 97-04
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 P3H1010 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike Dup (P3H1010-MSD2)</b>	<b>Source: 3H10001-01</b>		Prepared: 08/10/23		Analyzed: 08/11/23					
Nitrate as N	18.8		mg/L	10.0	8.68	101	80-120	0.143	20	

**Batch P3H1512 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P3H1512-BLK1)</b>			Prepared: 08/15/23		Analyzed: 08/17/23					
Chemical Oxygen Demand	ND	2.00	mg/L							QAL1

<b>LCS (P3H1512-BS1)</b>			Prepared: 08/15/23		Analyzed: 08/17/23					
Chemical Oxygen Demand	109	2.00	mg/L	100		109	80-120			QAL1

<b>LCS Dup (P3H1512-BSD1)</b>			Prepared: 08/15/23		Analyzed: 08/17/23					
Chemical Oxygen Demand	107	2.00	mg/L	100		107	80-120	1.85	20	QAL1

<b>Calibration Blank (P3H1512-CCB1)</b>			Prepared: 08/15/23		Analyzed: 08/17/23					
Chemical Oxygen Demand	0.00		mg/L							QAL1

<b>Calibration Blank (P3H1512-CCB2)</b>			Prepared: 08/15/23		Analyzed: 08/17/23					
Chemical Oxygen Demand	0.00		mg/L							QAL1

<b>Calibration Check (P3H1512-CCV1)</b>			Prepared: 08/15/23		Analyzed: 08/17/23					
Chemical Oxygen Demand	90.0	2.00	mg/L				80-120			QAL1

<b>Calibration Check (P3H1512-CCV2)</b>			Prepared: 08/15/23		Analyzed: 08/17/23					
Chemical Oxygen Demand	93.0	2.00	mg/L				80-120			QAL1

<b>Calibration Check (P3H1512-CCV3)</b>			Prepared: 08/15/23		Analyzed: 08/17/23					
Chemical Oxygen Demand	94.0	2.00	mg/L				80-120			QAL1

Permian Basin Environmental Lab, L.P.

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

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 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
<b>Batch P3H1512 - *** DEFAULT PREP ***</b>										
<b>Duplicate (P3H1512-DUP1)</b>		<b>Source: 3H10001-01</b>		Prepared: 08/15/23 Analyzed: 08/17/23						
Chemical Oxygen Demand	ND	2.00	mg/L		16.0				20	QAL1
<b>Duplicate (P3H1512-DUP2)</b>		<b>Source: 3H02012-04</b>		Prepared: 08/15/23 Analyzed: 08/17/23						
Chemical Oxygen Demand	13.0	2.00	mg/L		ND				20	QAL1
<b>Matrix Spike (P3H1512-MS1)</b>		<b>Source: 3H10001-01</b>		Prepared: 08/15/23 Analyzed: 08/17/23						
Chemical Oxygen Demand	108	2.00	mg/L	100	16.0	92.0	80-120			QAL1
<b>Matrix Spike (P3H1512-MS2)</b>		<b>Source: 3H02012-04</b>		Prepared: 08/15/23 Analyzed: 08/17/23						
Chemical Oxygen Demand	110	2.00	mg/L	100	ND	110	80-120			QAL1
<b>Matrix Spike Dup (P3H1512-MSD1)</b>		<b>Source: 3H10001-01</b>		Prepared: 08/15/23 Analyzed: 08/17/23						
Chemical Oxygen Demand	117	2.00	mg/L	100	16.0	101	80-120	8.00	20	QAL1
<b>Matrix Spike Dup (P3H1512-MSD2)</b>		<b>Source: 3H02012-04</b>		Prepared: 08/15/23 Analyzed: 08/17/23						
Chemical Oxygen Demand	121	2.00	mg/L	100	ND	121	80-120	9.52	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: 97-04\_MNA  
Project Number: TNM 97-04  
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
- 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
- B Analyte is found in the associated blank as well as in the sample (CLP B-flag).
- 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: 8/25/2023

Brent Barron, Laboratory Director/Technical Director



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

Project: 97-04\_MNA  
Project Number: TNM 97-04  
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.



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: 97-04

Company Name: TRC Environmental Corporation

Project #: SRS: TNM 97-04

Company Address: 10 Destia Drive, Ste 130E

Project Loc: Lea County, NM

City/State/Zip: Midland TX 79705

PO #:

Telephone No: (432) 520-7720

Fax No: e-mail: [cdstanley@trccompanies.com](mailto:cdstanley@trccompanies.com)

Report Format:  Standard  TRRP  NPDES

Sampler Signature:

e-mail: [cdstanley@trccompanies.com](mailto:cdstanley@trccompanies.com)

(lab use only)

ORDER #: 3H10001

[clbryant@paalp.com](mailto:clbryant@paalp.com)  
[khudgens@paalp.com](mailto:khudgens@paalp.com)  
[mgreen@trccompanies.com](mailto:mgreen@trccompanies.com)

Analyze For:

TCLP:  
 TOTAL: X

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> (Field Filtered - 250 ml)	HCl (40 ml VOA)	H <sub>2</sub> SO <sub>4</sub> (250 ml)	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water GW=Groundwater NP=Non-Potable	SL=Sludge S=Soil/Solid 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
1	MW-10			8/9/23	1005		9	X	1	6	2					GW	GW	X	X	X	X	X		X	X
2	MW-15				1230		9	X	1	6	2					GW	GW	X	X	X	X	X		X	X
3	MW-14				1115		9	X	1	6	2					GW	GW	X	X	X	X	X		X	X
4	MW-5				1500		9	X	1	6	2					GW	GW	X	X	X	X	X		X	X
5	MW-9				1600		9	X	1	6	2					GW	GW	X	X	X	X	X		X	X
6	MW-6				1415		9	X	1	6	2					GW	GW	X	X	X	X	X		X	X

Special Instructions:

BILL TO PLAINS

Relinquished by: [Signature] Date: 8/9/23 Time: 8:38 Received by: [Signature] Date: 8/10/23 Time: 8:38

Relinquished by: [Signature] Date: 8/9/23 Time: 8:38 Received by: [Signature] Date: 8/10/23 Time: 8:38

Relinquished by: [Signature] Date: 8/9/23 Time: 8:38 Received by: [Signature] Date: 8/10/23 Time: 8:38

Relinquished by: [Signature] Date: 8/9/23 Time: 8:38 Received by: [Signature] Date: 8/10/23 Time: 8:38

Laboratory Comments:

Sample Containers Intact? X Labels on container(s) Y Custody seals on container(s) Y Labels on cooler(s) Y Custody seals on cooler(s) Y Sample Hand Delivered by Sampler/Client Rep. ? Y by Courier? N UPS N DHL N FedEx N Temperature Upon Receipt: 5.2 °C Temperature at Lab: 4.3 °C Adjusted: 5.2 °C





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

August 18, 2023

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

Work Order: **HS23080782**

Laboratory Results for: **3H10001**

Dear Brent Barron,

ALS Environmental received 6 sample(s) on Aug 11, 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: DAYNA.FISHER

Anna Kinchen  
Project Manager

**ALS Houston, US**

Date: 18-Aug-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H10001  
**Work Order:** HS23080782

**SAMPLE SUMMARY**

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23080782-01	3H10001-01	Water		09-Aug-2023 10:05	11-Aug-2023 09:55	<input type="checkbox"/>
HS23080782-02	3H10001-02	Water		09-Aug-2023 12:30	11-Aug-2023 09:55	<input type="checkbox"/>
HS23080782-03	3H10001-03	Water		09-Aug-2023 11:15	11-Aug-2023 09:55	<input type="checkbox"/>
HS23080782-04	3H10001-04	Water		09-Aug-2023 15:00	11-Aug-2023 09:55	<input type="checkbox"/>
HS23080782-05	3H10001-05	Water		09-Aug-2023 16:00	11-Aug-2023 09:55	<input type="checkbox"/>
HS23080782-06	3H10001-06	Water		09-Aug-2023 14:15	11-Aug-2023 09:55	<input type="checkbox"/>

**ALS Houston, US**

Date: 18-Aug-23

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**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H10001  
**Work Order:** HS23080782

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**CASE NARRATIVE**

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**GC Semivolatiles by Method RSK-175**

**Batch ID: R444338**

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

**Metals by Method SW6020A**

**Batch ID: 199053**

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

**WetChemistry by Method E415.1**

**Batch ID: R443953**

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

**ALS Houston, US**

Date: 18-Aug-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3H10001  
 Sample ID: 3H10001-01  
 Collection Date: 09-Aug-2023 10:05

**ANALYTICAL REPORT**

WorkOrder:HS23080782  
 Lab ID:HS23080782-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	17-Aug-2023 11:52
Ethene	ND		1.00	ug/L	1	17-Aug-2023 11:52
Methane	ND		0.500	ug/L	1	17-Aug-2023 11:52
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 16-Aug-2023	Analyst: MSC
Iron	ND		0.200	mg/L	1	16-Aug-2023 21:32
Manganese	ND		0.00500	mg/L	1	16-Aug-2023 21:32
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: DW
<b>Organic Carbon, Total</b>	<b>1.34</b>		<b>1.00</b>	<b>mg/L</b>	1	14-Aug-2023 12:21

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

**ALS Houston, US**

Date: 18-Aug-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3H10001  
 Sample ID: 3H10001-02  
 Collection Date: 09-Aug-2023 12:30

**ANALYTICAL REPORT**

WorkOrder:HS23080782  
 Lab ID:HS23080782-02  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	17-Aug-2023 12:06
Ethene	ND		1.00	ug/L	1	17-Aug-2023 12:06
<b>Methane</b>	<b>153</b>		<b>5.00</b>	<b>ug/L</b>	10	17-Aug-2023 13:38
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 16-Aug-2023	Analyst: MSC
Iron	ND		0.200	mg/L	1	16-Aug-2023 23:24
<b>Manganese</b>	<b>0.0354</b>		<b>0.00500</b>	<b>mg/L</b>	1	16-Aug-2023 23:24
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: DW
<b>Organic Carbon, Total</b>	<b>1.25</b>		<b>1.00</b>	<b>mg/L</b>	1	14-Aug-2023 12:46

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



**ALS Houston, US**

Date: 18-Aug-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3H10001  
 Sample ID: 3H10001-03  
 Collection Date: 09-Aug-2023 11:15

**ANALYTICAL REPORT**  
 WorkOrder:HS23080782  
 Lab ID:HS23080782-03  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	17-Aug-2023 12:29
Ethene	ND		1.00	ug/L	1	17-Aug-2023 12:29
<b>Methane</b>	<b>90.8</b>		<b>2.50</b>	<b>ug/L</b>	5	17-Aug-2023 14:07
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 16-Aug-2023	Analyst: MSC
Iron	ND		0.200	mg/L	1	16-Aug-2023 23:26
<b>Manganese</b>	<b>0.0533</b>		<b>0.00500</b>	<b>mg/L</b>	1	16-Aug-2023 23:26
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: DW
Organic Carbon, Total	ND		1.00	mg/L	1	14-Aug-2023 12:59

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

**ALS Houston, US**

Date: 18-Aug-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3H10001  
 Sample ID: 3H10001-04  
 Collection Date: 09-Aug-2023 15:00

**ANALYTICAL REPORT**

WorkOrder:HS23080782  
 Lab ID:HS23080782-04  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	17-Aug-2023 12:38
Ethene	ND		1.00	ug/L	1	17-Aug-2023 12:38
<b>Methane</b>	<b>5,880</b>		<b>100</b>	<b>ug/L</b>	200	17-Aug-2023 14:21
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 16-Aug-2023	Analyst: MSC
Iron	1.74		0.200	mg/L	1	16-Aug-2023 23:28
Manganese	0.245		0.00500	mg/L	1	16-Aug-2023 23:28
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: DW
Organic Carbon, Total	5.75		1.00	mg/L	1	14-Aug-2023 13:12

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

**ALS Houston, US**

Date: 18-Aug-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3H10001  
 Sample ID: 3H10001-05  
 Collection Date: 09-Aug-2023 16:00

**ANALYTICAL REPORT**

WorkOrder:HS23080782  
 Lab ID:HS23080782-05  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	17-Aug-2023 12:50
Ethene	ND		1.00	ug/L	1	17-Aug-2023 12:50
<b>Methane</b>	<b>795</b>		<b>25.0</b>	<b>ug/L</b>	50	17-Aug-2023 14:36
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 16-Aug-2023	Analyst: MSC
Iron	ND		0.200	mg/L	1	16-Aug-2023 23:30
<b>Manganese</b>	<b>0.0246</b>		<b>0.00500</b>	<b>mg/L</b>	1	16-Aug-2023 23:30
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: DW
<b>Organic Carbon, Total</b>	<b>2.84</b>		<b>1.00</b>	<b>mg/L</b>	1	14-Aug-2023 13:24

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

**ALS Houston, US**

Date: 18-Aug-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3H10001  
 Sample ID: 3H10001-06  
 Collection Date: 09-Aug-2023 14:15

**ANALYTICAL REPORT**  
 WorkOrder:HS23080782  
 Lab ID:HS23080782-06  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: SAM
Ethane	ND		1.00	ug/L	1	17-Aug-2023 13:00
Ethene	ND		1.00	ug/L	1	17-Aug-2023 13:00
<b>Methane</b>	<b>1,510</b>		<b>25.0</b>	<b>ug/L</b>	50	17-Aug-2023 14:51
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 16-Aug-2023	Analyst: MSC
Iron	0.728		0.200	mg/L	1	16-Aug-2023 23:32
Manganese	0.178		0.00500	mg/L	1	16-Aug-2023 23:32
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: DW
Organic Carbon, Total	5.16		1.00	mg/L	1	14-Aug-2023 13:50

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

ALS Houston, US

Date: 18-Aug-23

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP

Project: 3H10001

WorkOrder: HS23080782

Batch ID: 199053

Start Date: 16 Aug 2023 08:00

End Date: 16 Aug 2023 08:00

Method: DISS METALS PREP - WATER - SW3010A

Prep Code: 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23080782-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23080782-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23080782-03		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23080782-04		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23080782-05		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23080782-06		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US

Date: 18-Aug-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H10001  
**WorkOrder:** HS23080782

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> 199053 ( 0 )		<b>Test Name :</b> DISSOLVED METALS BY SW6020A			<b>Matrix:</b> Water	
HS23080782-01	3H10001-01	09 Aug 2023 10:05		16 Aug 2023 08:00	16 Aug 2023 21:32	1
HS23080782-02	3H10001-02	09 Aug 2023 12:30		16 Aug 2023 08:00	16 Aug 2023 23:24	1
HS23080782-03	3H10001-03	09 Aug 2023 11:15		16 Aug 2023 08:00	16 Aug 2023 23:26	1
HS23080782-04	3H10001-04	09 Aug 2023 15:00		16 Aug 2023 08:00	16 Aug 2023 23:28	1
HS23080782-05	3H10001-05	09 Aug 2023 16:00		16 Aug 2023 08:00	16 Aug 2023 23:30	1
HS23080782-06	3H10001-06	09 Aug 2023 14:15		16 Aug 2023 08:00	16 Aug 2023 23:32	1
<b>Batch ID:</b> R443953 ( 0 )		<b>Test Name :</b> TOTAL ORGANIC CARBON BY E415.1			<b>Matrix:</b> Water	
HS23080782-01	3H10001-01	09 Aug 2023 10:05			14 Aug 2023 12:21	1
HS23080782-02	3H10001-02	09 Aug 2023 12:30			14 Aug 2023 12:46	1
HS23080782-03	3H10001-03	09 Aug 2023 11:15			14 Aug 2023 12:59	1
HS23080782-04	3H10001-04	09 Aug 2023 15:00			14 Aug 2023 13:12	1
HS23080782-05	3H10001-05	09 Aug 2023 16:00			14 Aug 2023 13:24	1
HS23080782-06	3H10001-06	09 Aug 2023 14:15			14 Aug 2023 13:50	1
<b>Batch ID:</b> R444338 ( 0 )		<b>Test Name :</b> DISSOLVED GASES BY RSK-175			<b>Matrix:</b> Water	
HS23080782-01	3H10001-01	09 Aug 2023 10:05			17 Aug 2023 11:52	1
HS23080782-02	3H10001-02	09 Aug 2023 12:30			17 Aug 2023 13:38	10
HS23080782-02	3H10001-02	09 Aug 2023 12:30			17 Aug 2023 12:06	1
HS23080782-03	3H10001-03	09 Aug 2023 11:15			17 Aug 2023 14:07	5
HS23080782-03	3H10001-03	09 Aug 2023 11:15			17 Aug 2023 12:29	1
HS23080782-04	3H10001-04	09 Aug 2023 15:00			17 Aug 2023 14:21	200
HS23080782-04	3H10001-04	09 Aug 2023 15:00			17 Aug 2023 12:38	1
HS23080782-05	3H10001-05	09 Aug 2023 16:00			17 Aug 2023 14:36	50
HS23080782-05	3H10001-05	09 Aug 2023 16:00			17 Aug 2023 12:50	1
HS23080782-06	3H10001-06	09 Aug 2023 14:15			17 Aug 2023 14:51	50
HS23080782-06	3H10001-06	09 Aug 2023 14:15			17 Aug 2023 13:00	1

**ALS Houston, US**

Date: 18-Aug-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H10001  
**WorkOrder:** HS23080782

**QC BATCH REPORT**

<b>Batch ID:</b> R444338 ( 0 )	<b>Instrument:</b> FID-4	<b>Method:</b> DISSOLVED GASES BY RSK-175
--------------------------------	--------------------------	---

<b>MBLK</b>	Sample ID: <b>MBLK-230817</b>	Units: <b>ug/L</b>	Analysis Date: <b>17-Aug-2023 10:42</b>							
Client ID:	Run ID: <b>FID-4_444338</b>	SeqNo: <b>7499136</b>	PrepDate: DF: <b>1</b>							
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								

<b>LCS</b>	Sample ID: <b>LCS-230817</b>	Units: <b>ug/L</b>	Analysis Date: <b>17-Aug-2023 11:06</b>							
Client ID:	Run ID: <b>FID-4_444338</b>	SeqNo: <b>7499137</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	19.93	1.00	18.04	0	110	75 - 125				
Ethene	17.51	1.00	16.8	0	104	75 - 125				
Methane	7.773	0.500	9.647	0	80.6	75 - 125				

<b>LCS D</b>	Sample ID: <b>LCS D-230817</b>	Units: <b>ug/L</b>	Analysis Date: <b>17-Aug-2023 11:20</b>							
Client ID:	Run ID: <b>FID-4_444338</b>	SeqNo: <b>7499138</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	20.06	1.00	18.04	0	111	75 - 125	19.93	0.653	30	
Ethene	17.38	1.00	16.8	0	103	75 - 125	17.51	0.734	30	
Methane	7.707	0.500	9.647	0	79.9	75 - 125	7.773	0.861	30	

<b>DUP</b>	Sample ID: <b>HS23080765-02DUP</b>	Units: <b>ug/L</b>	Analysis Date: <b>17-Aug-2023 15:26</b>							
Client ID:	Run ID: <b>FID-4_444338</b>	SeqNo: <b>7499153</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	4.267	1.00					4.495	5.2	30	
Ethene	ND	1.00					0	0	30	
Methane	32.39	0.500					33.83	4.35	30	

<b>The following samples were analyzed in this batch:</b>	HS23080782-01	HS23080782-02	HS23080782-03	HS23080782-04
	HS23080782-05	HS23080782-06		

ALS Houston, US

Date: 18-Aug-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H10001  
**WorkOrder:** HS23080782

**QC BATCH REPORT**

**Batch ID:** 199053 ( 0 )      **Instrument:** ICPMS05      **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

MBLK	Sample ID:	MBLKF1-199053	Units:	mg/L	Analysis Date:	16-Aug-2023 21:28				
Client ID:	Run ID:	ICPMS05_444071	SeqNo:	7494895	PrepDate:	16-Aug-2023	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	ND	0.200								
Manganese	ND	0.00500								

MBLK	Sample ID:	MBLK-199053	Units:	mg/L	Analysis Date:	16-Aug-2023 21:26				
Client ID:	Run ID:	ICPMS05_444071	SeqNo:	7494894	PrepDate:	16-Aug-2023	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	ND	0.200								
Manganese	ND	0.00500								

LCS	Sample ID:	LCS-199053	Units:	mg/L	Analysis Date:	16-Aug-2023 21:30				
Client ID:	Run ID:	ICPMS05_444071	SeqNo:	7494896	PrepDate:	16-Aug-2023	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	5.17	0.200	5	0	103	80 - 120				
Manganese	0.04952	0.00500	0.05	0	99.0	80 - 120				

MS	Sample ID:	HS23080782-01MS	Units:	mg/L	Analysis Date:	16-Aug-2023 21:36				
Client ID:	Run ID:	ICPMS05_444071	SeqNo:	7494899	PrepDate:	16-Aug-2023	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	5.019	0.200	5	0.03975	99.6	75 - 125				
Manganese	0.05119	0.00500	0.05	0.002044	98.3	75 - 125				

MSD	Sample ID:	HS23080782-01MSD	Units:	mg/L	Analysis Date:	16-Aug-2023 21:38				
Client ID:	Run ID:	ICPMS05_444071	SeqNo:	7494900	PrepDate:	16-Aug-2023	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.967	0.200	5	0.03975	98.5	75 - 125	5.019	1.06	20	
Manganese	0.05066	0.00500	0.05	0.002044	97.2	75 - 125	0.05119	1.03	20	



ALS Houston, US

Date: 18-Aug-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H10001  
**WorkOrder:** HS23080782

**QC BATCH REPORT**

<b>Batch ID:</b> 199053 ( 0 )	<b>Instrument:</b> ICPMS05	<b>Method:</b> DISSOLVED METALS BY SW6020A (DISSOLVED)
<b>SD</b>	Sample ID: <b>HS23080782-01SD</b>	Units: <b>mg/L</b>
Client ID: <b>3H10001-01</b>	Run ID: <b>ICPMS05_444071</b>	SeqNo: <b>7494898</b>
		PrepDate: <b>16-Aug-2023</b>
		DF: <b>5</b>
<b>Analysis Date:</b> 16-Aug-2023 21:34		
<b>Analyte</b>	<b>Result</b>	<b>PQL</b>
		<b>SPK Val</b>
		<b>SPK Ref Value</b>
		<b>%REC</b>
		<b>Control Limit</b>
		<b>RPD Ref Value</b>
		<b>%D</b>
		<b>Limit Qual</b>

Iron	ND	1.00					0.03975	0	10
Manganese	ND	0.0250					0.002044	0	10

The following samples were analyzed in this batch:

HS23080782-01	HS23080782-02	HS23080782-03	HS23080782-04
HS23080782-05	HS23080782-06		

ALS Houston, US

Date: 18-Aug-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H10001  
**WorkOrder:** HS23080782

**QC BATCH REPORT**

<b>Batch ID:</b> R443953 ( 0 )	<b>Instrument:</b> TOC_04	<b>Method:</b> TOTAL ORGANIC CARBON BY E415.1
--------------------------------	---------------------------	---

<b>MBLK</b>	Sample ID: <b>MBLK-08142023</b>	Units: <b>mg/L</b>	Analysis Date: <b>14-Aug-2023 11:41</b>							
Client ID:	Run ID: <b>TOC_04_443953</b>	SeqNo: <b>7490172</b>	PrepDate: DF: <b>1</b>							
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

<b>LCS</b>	Sample ID: <b>LCS-08142023</b>	Units: <b>mg/L</b>	Analysis Date: <b>14-Aug-2023 11:55</b>							
Client ID:	Run ID: <b>TOC_04_443953</b>	SeqNo: <b>7490173</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 9.523 1.00 10 0 95.2 85 - 115

<b>LCSD</b>	Sample ID: <b>LCSD-08142023</b>	Units: <b>mg/L</b>	Analysis Date: <b>14-Aug-2023 12:08</b>							
Client ID:	Run ID: <b>TOC_04_443953</b>	SeqNo: <b>7490174</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 9.577 1.00 10 0 95.8 85 - 115 9.523 0.565 20

<b>MS</b>	Sample ID: <b>HS23080782-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>14-Aug-2023 12:34</b>							
Client ID: <b>3H10001-01</b>	Run ID: <b>TOC_04_443953</b>	SeqNo: <b>7490176</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 11.42 1.00 10 1.344 101 80 - 120

<b>The following samples were analyzed in this batch:</b>	HS23080782-01	HS23080782-02	HS23080782-03	HS23080782-04
	HS23080782-05	HS23080782-06		

**ALS Houston, US**

Date: 18-Aug-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H10001  
**WorkOrder:** HS23080782

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	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

<b>Acronym</b>	<b>Description</b>
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: 18-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: 18-Aug-23

Sample Receipt Checklist

Work Order ID: HS23080782

Date/Time Received: 11-Aug-2023 09:55

Client Name: Permian Basin Lab

Received by: Corey Grandits

Completed By: /S/ Belinda Gomez	11-Aug-2023 18:39	Reviewed by: /S/ Anna Kinchen	15-Aug-2023 10:49
eSignature	Date/Time	eSignature	Date/Time

Matrices: **W**

Carrier 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): 4.3UC/4.2C IR31

Cooler(s)/Kit(s): RED

Date/Time sample(s) sent to storage: 8/11/23 1840

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
Company Name: PBEL
Company Address: 1400 Rankin HWY
City/State/Zip: Midland Texas 79701
Telephone No: 432-661-4184
Fax No:
Sampler Signature: N/A
e-mail: brentbarron@pbelab.com

Project Name: SUBCONTRACT
Project #:
Project Loc:
PO #:

Report Format: X Standard TRRP NPDES

HS23080782

Permian Basin Environmental Lab, LP
3H10001

Table with columns: Lab #, Field Code, Beginning Depth, Ending Depth, Date Sampled, Time Sampled, Field Filtered, Total #. of Containers, and various chemical preservation codes. Includes 'SPECIAL INSTRUCTIONS' and 'Laboratory Comments' sections.

ORIGIN ID:MAFA (432) 898-7235  
 PREN BARON  
 1400 RANKIN HWY  
 MIDLAND, TX 79701  
 UNITED STATES US

SHIP DATE: 10AUG23  
 ACTING TO:01LE  
 DUNS: 1541729 IN  
 BILL RECIPIENT

TO **SAMPLE RECEIVING**  
**AL.S-HOUSTON**  
**10450 STANCLIFF RD**

**HOUSTON TX 77099**  
 REF: (281) 530-9615

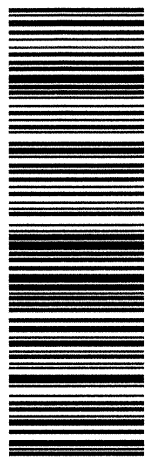
DEPT: PO: 583J4/C628/9AE3



TRK# 7730 1825 9368  
 [2027]

FRI - 11 AUG 5:00P  
 STANDARD OVERNIGHT

**XASGRA**  
 TX-US IAH 77099



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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: 97-04  
Project Number: TNM 97-04  
Location: Lea County, NM  
Lab Order Number: 3H16012



**Current Certification**

Report Date: 08/23/23



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

Project: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-13	3H16012-01	Water	08/08/23 09:01	08-16-2023 09:00
MW-18	3H16012-02	Water	08/08/23 09:20	08-16-2023 09:00

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

Project: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-13**  
**3H16012-01 (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	08/21/23 09:04	EPA 8021B	
<b>Toluene</b>	<b>0.00104</b>	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/21/23 09:04	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/21/23 09:04	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00416</b>	0.00200	mg/L	1	P3H1802	08/18/23 11:12	08/21/23 09:04	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/21/23 09:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.7 %		80-120		P3H1802	08/18/23 11:12	08/21/23 09:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P3H1802	08/18/23 11:12	08/21/23 09:04	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.*

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

Project: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-18**  
**3H16012-02 (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	08/21/23 09:25	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/21/23 09:25	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/21/23 09:25	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3H1802	08/18/23 11:12	08/21/23 09:25	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3H1802	08/18/23 11:12	08/21/23 09:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	88.3 %		80-120		P3H1802	08/18/23 11:12	08/21/23 09:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %		80-120		P3H1802	08/18/23 11:12	08/21/23 09:25	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: 97-04  
 Project Number: TNM 97-04  
 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.

*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: 97-04  
 Project Number: TNM 97-04  
 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 \*\*\***

<b>Calibration Blank (P3H1802-CCB2)</b>		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			

<b>Calibration Check (P3H1802-CCV1)</b>		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			

<b>Calibration Check (P3H1802-CCV2)</b>		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			

<b>Calibration Check (P3H1802-CCV3)</b>		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  
 10 Desta Dr STE 150E  
 Midland TX, 79705

Project: 97-04  
 Project Number: TNM 97-04  
 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 \*\*\***

<b>Matrix Spike (P3H1802-MS1)</b>	<b>Source: 3H16010-01</b>			<b>Prepared: 08/18/23 Analyzed: 08/21/23</b>						
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			

<b>Matrix Spike Dup (P3H1802-MSD1)</b>	<b>Source: 3H16010-01</b>			<b>Prepared: 08/18/23 Analyzed: 08/21/23</b>						
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  
10 Desta Dr STE 150E  
Midland TX, 79705

Project: 97-04  
Project Number: TNM 97-04  
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.
- 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: 8/23/2023

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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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

L: \_\_\_\_\_ CH: \_\_\_\_\_ W: \_\_\_\_\_  
Phone: 432-686-7235

*Cult Stanley*

Project Manager: *TRC*

Project Name: *97.04*

Company Address: *10 Dosta Dr.*

Project Loc: \_\_\_\_\_

City/State/Zip: *Midland Tx 79705*

PO #: \_\_\_\_\_

Telephone No: *(932) 580-7920*

Fax No: \_\_\_\_\_

Report Format:  Standard  TRRP  NPDES

Sampler Signature: *M. Wood*

e-mail: \_\_\_\_\_

ORDER #: *3H16012*

(lab use only)

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: TX 1005 TX 1006	Anions (Cl, SO <sub>4</sub> , Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
<i>1</i>	<i>M13</i>			<i>8-8-23</i>	<i>901</i>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<i>GW</i>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>2</i>	<i>M18</i>			<i>8-8-23</i>	<i>920</i>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<i>GW</i>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Special Instructions:	Date	Time	Received by:	Date	Time	Received by:	Date	Time	Received by:
	<i>8-16-23</i>	<i>900</i>	<i>Manny</i>				<i>8/16/23</i>	<i>9:00</i>	<i>Theresa B...</i>

Relinquished by:	Date	Time	Received by:	Date	Time	Received by:
<i>Manny</i>	<i>8-16-23</i>	<i>900</i>	<i>Manny</i>			

PEEL\_COC\_2021\_1 Revision #: 2021\_1 Effective Date: 9-21-21 Page \_\_\_ of \_\_\_



**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: 97-04\_MNA  
Project Number: TNM 97-04  
Location: Lea County, NM  
Lab Order Number: 3L08004



**Current Certification**

Report Date: 12/26/23

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

Project: 97-04\_MNA  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10	3L08004-01	Water	12/07/23 10:15	12-08-2023 08:30
MW-15	3L08004-02	Water	12/07/23 11:23	12-08-2023 08:30
MW-14	3L08004-03	Water	12/07/23 12:31	12-08-2023 08:30
MW-5	3L08004-04	Water	12/07/23 15:20	12-08-2023 08:30
MW-9	3L08004-05	Water	12/07/23 16:50	12-08-2023 08:30
MW-6	3L08004-06	Water	12/07/23 13:29	12-08-2023 08:30

Dissolved Gases, Dissolved Metals 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](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: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-10**  
**3L08004-01 (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	P3L1904	12/19/23 09:13	12/20/23 05:18	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 05:18	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 05:18	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 05:18	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 05:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.4 %			P3L1904	12/19/23 09:13	12/20/23 05:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.6 %			P3L1904	12/19/23 09:13	12/20/23 05:18	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3L2604	12/13/23 15:07	12/13/23 15:07	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3L2604	12/13/23 15:07	12/13/23 15:07	8015M	SUB-13
<b>Methane</b>	<b>0.00360</b>	<b>0.000500</b>	mg/L	1	P3L2604	12/13/23 15:07	12/13/23 16:55	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>4.00</b>	2.00	mg/L	1	P3L1111	12/11/23 11:39	12/18/23 08:26	8000	
<b>Nitrate as N</b>	<b>9.09</b>	0.200	mg/L	1	P3L1406	12/14/23 15:46	12/15/23 19:34	EPA 300.0	O-05
<b>Sulfate</b>	<b>64.8</b>	10.0	mg/L	10	P3L1407	12/14/23 15:49	12/18/23 14:41	EPA 300.0	
<b>Total Organic Carbon</b>	<b>1.33</b>	1.00	mg/L	1	P3L2604	12/19/23 16:34	12/19/23 16:34	EPA 415.1	SUB-13

**Dissolved Metals by EPA / Standard Methods**

Iron	ND	0.200	mg/L	1	P3L2604	12/13/23 14:30	12/13/10 14:30	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.00629</b>	0.00500	mg/L	1	P3L2604	12/13/23 14:30	12/14/23 18:10	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-15**  
**3L08004-02 (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	P3L1904	12/19/23 09:13	12/20/23 05:41	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 05:41	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 05:41	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 05:41	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 05:41	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		85.9 %			<i>P3L1904</i>	<i>12/19/23 09:13</i>	<i>12/20/23 05:41</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>		90.5 %			<i>P3L1904</i>	<i>12/19/23 09:13</i>	<i>12/20/23 05:41</i>	<i>EPA 8021B</i>	
<b>Ethane</b>	<b>0.00216</b>	0.00100	mg/L	1	P3L2604	12/13/23 15:07	12/13/23 16:55	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3L2604	12/13/23 15:07	12/13/23 16:55	8015M	SUB-13
<b>Methane</b>	<b>0.213</b>	0.00500	mg/L	1	P3L2604	12/13/23 15:07	12/13/23 16:55	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>4.00</b>	2.00	mg/L	1	P3L1111	12/11/23 11:39	12/18/23 08:26	8000	
<b>Nitrate as N</b>	<b>2.02</b>	0.200	mg/L	1	P3L1406	12/14/23 15:46	12/15/23 19:55	EPA 300.0	O-05
<b>Sulfate</b>	<b>82.5</b>	10.0	mg/L	10	P3L1407	12/14/23 15:49	12/18/23 15:02	EPA 300.0	
<b>Total Organic Carbon</b>	<b>1.26</b>	1.00	mg/L	1	P3L2604	12/19/23 16:34	12/19/23 16:46	EPA 415.1	SUB-13

**Dissolved Metals by EPA / Standard Methods**

Iron	ND	0.200	mg/L	1	P3L2604	12/13/23 14:30	12/14/23 18:13	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.0361</b>	0.00500	mg/L	1	P3L2604	12/13/23 14:30	12/14/23 18:13	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-14**  
**3L08004-03 (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	P3L1904	12/19/23 09:13	12/20/23 06:04	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 06:04	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 06:04	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 06:04	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 06:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.6 %			P3L1904	12/19/23 09:13	12/20/23 06:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.4 %			P3L1904	12/19/23 09:13	12/20/23 06:04	EPA 8021B	
<b>Ethane</b>	<b>0.00214</b>	0.00100	mg/L	1	P3L2604	12/13/23 15:07	12/13/23 16:13	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3L2604	12/13/23 15:07	12/13/23 16:13	8015M	SUB-13
<b>Methane</b>	<b>0.0341</b>	0.000500	mg/L	1	P3L2604	12/13/23 15:07	12/13/23 16:13	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>4.00</b>	2.00	mg/L	1	P3L1111	12/11/23 11:39	12/18/23 08:26	8000	
<b>Nitrate as N</b>	<b>2.12</b>	0.200	mg/L	1	P3L1406	12/14/23 15:46	12/15/23 20:16	EPA 300.0	O-05
<b>Sulfate</b>	<b>62.5</b>	10.0	mg/L	10	P3L1407	12/14/23 15:49	12/18/23 15:24	EPA 300.0	
<b>Total Organic Carbon</b>	<b>1.16</b>	1.00	mg/L	1	P3L2604	12/19/23 16:34	12/19/23 17:00	EPA 415.1	SUB-13

**Dissolved Metals by EPA / Standard Methods**

Iron	ND	0.200	mg/L	1	P3L2604	12/13/23 14:30	12/14/23 18:15	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.0328</b>	0.00500	mg/L	1	P3L2604	12/13/23 14:30	12/14/23 18:15	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas  
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 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-5**  
**3L08004-04 (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**

<b>Benzene</b>	<b>8.91</b>	0.100	mg/L	100	P3L1904	12/19/23 09:13	12/20/23 14:22	EPA 8021B	
<b>Toluene</b>	<b>5.10</b>	0.100	mg/L	100	P3L1904	12/19/23 09:13	12/20/23 14:22	EPA 8021B	
<b>Ethylbenzene</b>	<b>1.36</b>	0.100	mg/L	100	P3L1904	12/19/23 09:13	12/20/23 14:22	EPA 8021B	
<b>Xylene (p/m)</b>	<b>2.51</b>	0.200	mg/L	100	P3L1904	12/19/23 09:13	12/20/23 14:22	EPA 8021B	
<b>Xylene (o)</b>	<b>1.09</b>	0.100	mg/L	100	P3L1904	12/19/23 09:13	12/20/23 14:22	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		83.0 %		80-120	P3L1904	12/19/23 09:13	12/20/23 14:22	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		88.9 %		80-120	P3L1904	12/19/23 09:13	12/20/23 14:22	EPA 8021B	
<b>Ethane</b>	<b>0.439</b>	0.200	mg/L	1	P3L2604	12/13/23 15:07	12/13/23 17:12	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3L2604	12/13/23 15:07	12/13/23 16:24	8015M	SUB-13
<b>Methane</b>	<b>5.28</b>	0.100	mg/L	1	P3L2604	12/13/23 15:07	12/13/23 17:12	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>36.0</b>	2.00	mg/L	1	P3L1111	12/11/23 11:39	12/18/23 08:26	8000	
<b>Nitrate as N</b>	<b>0.411</b>	0.200	mg/L	1	P3L1406	12/14/23 15:46	12/15/23 20:38	EPA 300.0	O-05
<b>Sulfate</b>	<b>16.0</b>	10.0	mg/L	10	P3L1407	12/14/23 15:49	12/18/23 15:45	EPA 300.0	
<b>Total Organic Carbon</b>	<b>3.89</b>	1.00	mg/L	1	P3L2604	12/19/23 16:34	12/19/23 17:13	EPA 415.1	SUB-13

**Dissolved Metals by EPA / Standard Methods**

<b>Iron</b>	<b>1.46</b>	0.200	mg/L	1	P3L2604	12/13/23 14:30	12/14/23 18:17	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.234</b>	0.00500	mg/L	1	P3L2604	12/13/23 14:30	12/14/23 18:17	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: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-9**  
**3L08004-05 (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**

<b>Benzene</b>	<b>0.0111</b>	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 14:45	EPA 8021B	
<b>Toluene</b>	<b>0.00591</b>	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 14:45	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.126</b>	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 14:45	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.286</b>	0.00200	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 14:45	EPA 8021B	
<b>Xylene (o)</b>	<b>0.137</b>	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 14:45	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		83.2 %			<i>P3L1904</i>	<i>12/19/23 09:13</i>	<i>12/20/23 14:45</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>		82.9 %			<i>P3L1904</i>	<i>12/19/23 09:13</i>	<i>12/20/23 14:45</i>	<i>EPA 8021B</i>	
<b>Ethane</b>	<b>0.00406</b>	0.00100	mg/L	1	P3L2604	12/13/23 08:57	12/13/23 16:37	8015M	SUB-13
<b>Ethene</b>	<b>0.00851</b>	0.00100	mg/L	1	P3L2604	12/13/23 08:57	12/13/23 16:37	8015M	SUB-13
<b>Methane</b>	<b>0.753</b>	0.0250	mg/L	1	P3L2604	12/13/23 08:57	12/14/08 08:57	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>21.0</b>	2.00	mg/L	1	P3L1111	12/11/23 11:39	12/18/23 08:26	8000	
<b>Nitrate as N</b>	<b>2.16</b>	0.200	mg/L	1	P3L1406	12/14/23 15:46	12/15/23 20:59	EPA 300.0	O-05
<b>Sulfate</b>	<b>45.0</b>	10.0	mg/L	10	P3L1407	12/14/23 15:49	12/18/23 16:06	EPA 300.0	
<b>Total Organic Carbon</b>	<b>2.25</b>	1.00	mg/L	1	P3L2604	12/19/23 16:34	12/19/23 18:29	EPA 415.1	SUB-13

**Dissolved Metals by EPA / Standard Methods**

<b>Iron</b>	<b>ND</b>	0.200	mg/L	1	P3L2604	12/13/23 14:30	12/14/23 18:20	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.0181</b>	0.00500	mg/L	1	P3L2604	12/13/23 14:30	12/14/23 18:20	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  
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 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-6**  
**3L08004-06 (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**

<b>Benzene</b>	<b>1.15</b>	0.00500	mg/L	5	P3L1904	12/19/23 09:13	12/20/23 15:09	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 07:13	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0103</b>	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 07:13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 07:13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1904	12/19/23 09:13	12/20/23 07:13	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		85.2 %			<i>P3L1904</i>	<i>12/19/23 09:13</i>	<i>12/20/23 07:13</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>		98.4 %			<i>P3L1904</i>	<i>12/19/23 09:13</i>	<i>12/20/23 07:13</i>	<i>EPA 8021B</i>	
Ethane	ND	0.00100	mg/L	1	P3L2604	12/13/23 15:07	12/13/23 16:47	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3L2604	12/13/23 15:07	12/13/23 16:47	8015M	SUB-13
<b>Methane</b>	<b>2.04</b>	0.0500	mg/L	1	P3L2604	12/13/23 15:07	12/14/23 09:08	8015M	SUB-13

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chemical Oxygen Demand</b>	<b>37.0</b>	2.00	mg/L	1	P3L1111	12/11/23 11:39	12/18/23 08:26	8000	
<b>Nitrate as N</b>	<b>1.62</b>	0.200	mg/L	1	P3L1406	12/14/23 15:46	12/15/23 21:21	EPA 300.0	O-05
<b>Sulfate</b>	<b>33.3</b>	10.0	mg/L	10	P3L1407	12/14/23 15:49	12/18/23 16:28	EPA 300.0	
<b>Total Organic Carbon</b>	<b>7.29</b>	1.00	mg/L	1	P3L2604	12/19/23 16:34	12/19/23 18:55	EPA 415.1	SUB-13

**Dissolved Metals by EPA / Standard Methods**

<b>Iron</b>	<b>2.47</b>	0.200	mg/L	1	P3L2604	12/13/23 14:30	12/14/23 18:22	EPA 6020A	SUB-13
<b>Manganese</b>	<b>0.436</b>	0.00500	mg/L	1	P3L2604	12/13/23 14:30	12/14/23 18:22	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas  
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 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 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 P3L1904 - \*\*\* DEFAULT PREP \*\*\***

Blank (P3L1904-BLK1) <span style="float:right">Prepared: 12/19/23 Analyzed: 12/20/23</span>										
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	0.106		"	0.120		88.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.3	80-120			

LCS (P3L1904-BS1) <span style="float:right">Prepared: 12/19/23 Analyzed: 12/20/23</span>										
Benzene	0.0965	0.00100	mg/L	0.100		96.5	80-120			
Toluene	0.0891	0.00100	"	0.100		89.1	80-120			
Ethylbenzene	0.0899	0.00100	"	0.100		89.9	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		88.9	80-120			
Xylene (o)	0.0800	0.00100	"	0.100		80.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.0	80-120			

LCS Dup (P3L1904-BSD1) <span style="float:right">Prepared: 12/19/23 Analyzed: 12/20/23</span>										
Benzene	0.0996	0.00100	mg/L	0.100		99.6	80-120	3.21	20	
Toluene	0.0928	0.00100	"	0.100		92.8	80-120	4.05	20	
Ethylbenzene	0.0948	0.00100	"	0.100		94.8	80-120	5.32	20	
Xylene (p/m)	0.186	0.00200	"	0.200		93.2	80-120	4.74	20	
Xylene (o)	0.0836	0.00100	"	0.100		83.6	80-120	4.30	20	
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		85.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.6	80-120			

Calibration Blank (P3L1904-CCB1) <span style="float:right">Prepared: 12/19/23 Analyzed: 12/20/23</span>										
Benzene	0.150		ug/l							
Toluene	0.150		"							
Ethylbenzene	0.100		"							
Xylene (p/m)	0.160		"							
Xylene (o)	0.130		"							
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.9	80-120			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas  
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 Midland TX, 79705

Project: 97-04\_MNA  
 Project Number: TNM 97-04  
 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 P3L1904 - \*\*\* DEFAULT PREP \*\*\***

<b>Calibration Blank (P3L1904-CCB2)</b>										
					Prepared: 12/19/23 Analyzed: 12/20/23					
Benzene	0.260		ug/l							
Toluene	0.250		"							
Ethylbenzene	0.190		"							
Xylene (p/m)	0.280		"							
Xylene (o)	0.220		"							
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.1	80-120			

<b>Calibration Blank (P3L1904-CCB3)</b>										
					Prepared: 12/19/23 Analyzed: 12/20/23					
Benzene	0.210		ug/l							
Toluene	0.340		"							
Ethylbenzene	0.240		"							
Xylene (p/m)	0.340		"							
Xylene (o)	0.400		"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.7	80-120			

<b>Calibration Check (P3L1904-CCV1)</b>										
					Prepared: 12/19/23 Analyzed: 12/20/23					
Benzene	0.108	0.00100	mg/L	0.100		108	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.0953	0.00100	"	0.100		95.3	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.5	80-120			
Xylene (o)	0.0893	0.00100	"	0.100		89.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.4	80-120			

<b>Calibration Check (P3L1904-CCV2)</b>										
					Prepared: 12/19/23 Analyzed: 12/20/23					
Benzene	0.104	0.00100	mg/L	0.100		104	80-120			
Toluene	0.0954	0.00100	"	0.100		95.4	80-120			
Ethylbenzene	0.0910	0.00100	"	0.100		91.0	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.5	80-120			
Xylene (o)	0.0862	0.00100	"	0.100		86.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		83.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.4	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: 97-04\_MNA  
 Project Number: TNM 97-04  
 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 P3L1904 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Check (P3L1904-CCV3)**

Prepared: 12/19/23 Analyzed: 12/20/23

Benzene	0.0992	0.00100	mg/L	0.100		99.2	80-120			
Toluene	0.0948	0.00100	"	0.100		94.8	80-120			
Ethylbenzene	0.0874	0.00100	"	0.100		87.4	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.7	80-120			
Xylene (o)	0.0843	0.00100	"	0.100		84.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		85.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.9	80-120			

**Matrix Spike (P3L1904-MS1)**

Source: 3L07011-06

Prepared: 12/19/23 Analyzed: 12/20/23

Benzene	0.0879	0.00100	mg/L	0.100	ND	87.9	80-120			
Toluene	0.0801	0.00100	"	0.100	ND	80.1	80-120			
Ethylbenzene	0.0793	0.00100	"	0.100	ND	79.3	80-120			QM-05
Xylene (p/m)	0.137	0.00200	"	0.200	ND	68.6	80-120			QM-05
Xylene (o)	0.0702	0.00100	"	0.100	ND	70.2	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		85.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.2	80-120			

**Matrix Spike Dup (P3L1904-MSD1)**

Source: 3L07011-06

Prepared: 12/19/23 Analyzed: 12/20/23

Benzene	0.0952	0.00100	mg/L	0.100	ND	95.2	80-120	8.00	20	
Toluene	0.0882	0.00100	"	0.100	ND	88.2	80-120	9.59	20	
Ethylbenzene	0.0881	0.00100	"	0.100	ND	88.1	80-120	10.5	20	
Xylene (p/m)	0.150	0.00200	"	0.200	ND	74.9	80-120	8.81	20	QM-05
Xylene (o)	0.0777	0.00100	"	0.100	ND	77.7	80-120	10.1	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.7	80-120			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas	Project: 97-04_MNA
10 Desta Dr STE 150E	Project Number: TNM 97-04
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
<b>Batch P3L1111 - *** DEFAULT PREP ***</b>										
<b>Blank (P3L1111-BLK1)</b>				Prepared: 12/11/23 Analyzed: 12/18/23						
Chemical Oxygen Demand	ND	2.00	mg/L							
<b>LCS (P3L1111-BS1)</b>				Prepared: 12/11/23 Analyzed: 12/18/23						
Chemical Oxygen Demand	106	2.00	mg/L	100		106	80-120			
<b>LCS Dup (P3L1111-BSD1)</b>				Prepared: 12/11/23 Analyzed: 12/18/23						
Chemical Oxygen Demand	114	2.00	mg/L	100		114	80-120	7.27	20	
<b>Duplicate (P3L1111-DUP1)</b>				Source: 3L01006-02 Prepared: 12/11/23 Analyzed: 12/18/23						
Chemical Oxygen Demand	65.0	2.00	mg/L		65.0			0.00	20	
<b>Duplicate (P3L1111-DUP2)</b>				Source: 3L08004-01 Prepared: 12/11/23 Analyzed: 12/18/23						
Chemical Oxygen Demand	18.0	2.00	mg/L		4.00			127	20	R3
<b>Matrix Spike (P3L1111-MS1)</b>				Source: 3L01006-02 Prepared: 12/11/23 Analyzed: 12/18/23						
Chemical Oxygen Demand	164	2.00	mg/L	100	65.0	99.0	80-120			
<b>Matrix Spike (P3L1111-MS2)</b>				Source: 3L08004-01 Prepared: 12/11/23 Analyzed: 12/18/23						
Chemical Oxygen Demand	114	2.00	mg/L	100	4.00	110	80-120			
<b>Matrix Spike Dup (P3L1111-MSD1)</b>				Source: 3L01006-02 Prepared: 12/11/23 Analyzed: 12/18/23						
Chemical Oxygen Demand	161	2.00	mg/L	100	65.0	96.0	80-120	1.85	20	
<b>Matrix Spike Dup (P3L1111-MSD2)</b>				Source: 3L08004-01 Prepared: 12/11/23 Analyzed: 12/18/23						
Chemical Oxygen Demand	55.0	2.00	mg/L	100	4.00	51.0	80-120	69.8	20	R3
<b>Batch P3L1406 - *** DEFAULT PREP ***</b>										
<b>Blank (P3L1406-BLK1)</b>				Prepared: 12/14/23 Analyzed: 12/15/23						
Nitrate as N	ND	0.200	mg/L							

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas	Project: 97-04_MNA
10 Desta Dr STE 150E	Project Number: TNM 97-04
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 P3L1406 - \*\*\* DEFAULT PREP \*\*\***

<b>LCS (P3L1406-BS1)</b>				Prepared: 12/14/23 Analyzed: 12/15/23						
Nitrate as N	10.6		mg/L	10.0		106	90-110			
<b>LCS Dup (P3L1406-BSD1)</b>				Prepared: 12/14/23 Analyzed: 12/15/23						
Nitrate as N	10.5		mg/L	10.0		105	90-110	0.892	10	
<b>Calibration Check (P3L1406-CCV1)</b>				Prepared: 12/14/23 Analyzed: 12/15/23						
Nitrate as N	10.6		mg/L	10.0		106	90-110			
<b>Calibration Check (P3L1406-CCV2)</b>				Prepared: 12/14/23 Analyzed: 12/15/23						
Nitrate as N	10.5		mg/L	10.0		105	90-110			
<b>Calibration Check (P3L1406-CCV3)</b>				Prepared: 12/14/23 Analyzed: 12/15/23						
Nitrate as N	10.5		mg/L	10.0		105	90-110			
<b>Matrix Spike (P3L1406-MS1)</b>		<b>Source: 3L01006-01</b>		Prepared: 12/14/23 Analyzed: 12/15/23						
Nitrate as N	10.5		mg/L	10.0	0.311	101	80-120			
<b>Matrix Spike (P3L1406-MS2)</b>		<b>Source: 3L06003-05</b>		Prepared: 12/14/23 Analyzed: 12/15/23						
Nitrate as N	10.9		mg/L	10.0	0.263	106	80-120			
<b>Matrix Spike Dup (P3L1406-MSD1)</b>		<b>Source: 3L01006-01</b>		Prepared: 12/14/23 Analyzed: 12/15/23						
Nitrate as N	10.4		mg/L	10.0	0.311	101	80-120	0.528	20	
<b>Matrix Spike Dup (P3L1406-MSD2)</b>		<b>Source: 3L06003-05</b>		Prepared: 12/14/23 Analyzed: 12/15/23						
Nitrate as N	10.8		mg/L	10.0	0.263	106	80-120	0.304	20	

**Batch P3L1407 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P3L1407-BLK1)</b>				Prepared: 12/14/23 Analyzed: 12/17/23						
Sulfate	ND	1.00	mg/L							

TRC Solutions- Midland, Texas	Project: 97-04_MNA
10 Desta Dr STE 150E	Project Number: TNM 97-04
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
<b>Batch P3L1407 - *** DEFAULT PREP ***</b>										
<b>LCS (P3L1407-BS1)</b>				Prepared: 12/14/23 Analyzed: 12/17/23						
Sulfate	10.7		mg/L	10.0		107	90-110			
<b>LCS Dup (P3L1407-BSD1)</b>				Prepared: 12/14/23 Analyzed: 12/17/23						
Sulfate	10.2		mg/L	10.0		102	90-110	4.38	10	
<b>Calibration Check (P3L1407-CCV1)</b>				Prepared: 12/14/23 Analyzed: 12/17/23						
Sulfate	10.3		mg/L	10.0		103	90-110			
<b>Calibration Check (P3L1407-CCV2)</b>				Prepared: 12/14/23 Analyzed: 12/18/23						
Sulfate	10.5		mg/L	10.0		105	90-110			
<b>Matrix Spike (P3L1407-MS1)</b>				Source: 3L01006-01		Prepared: 12/14/23 Analyzed: 12/17/23				
Sulfate	50.6		mg/L	10.0	39.4	112	80-120			
<b>Matrix Spike (P3L1407-MS2)</b>				Source: 3L06003-05		Prepared: 12/14/23 Analyzed: 12/18/23				
Sulfate	12.1		mg/L	10.0	1.41	107	80-120			
<b>Matrix Spike Dup (P3L1407-MSD2)</b>				Source: 3L06003-05		Prepared: 12/14/23 Analyzed: 12/18/23				
Sulfate	12.9		mg/L	10.0	1.41	115	80-120	6.23	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: 97-04\_MNA  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**Notes and Definitions**

- SUB-13 Subcontract of analyte/analysis to ALS Houston.
- ROI Received on Ice
- 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.
- 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: 12/26/2023

Brent Barron, Laboratory Director/Technical Director

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: 97-04\_MNA  
Project Number: TNM 97-04  
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.





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: 97-04

Company Name: TRC Environmental Corporation

Project #: SRS: TMM 97-04

Company Address: 10 Desta Drive, Ste 130E

Project Loc: Lea County, NM

City/State/Zip: Midland TX 79705

PO #:

Telephone No: (432) 520-7720

Fax No:

Report Format:

- Standard
- TRRP
- NPDES

Sampler Signature: *[Signature]*

e-mail:

[cdstanley@trccompanies.com](mailto:cdstanley@trccompanies.com)  
[clbryant@paalp.com](mailto:clbryant@paalp.com)  
[khuddgens@paalp.com](mailto:khuddgens@paalp.com)  
[mgreen@trccompanies.com](mailto:mgreen@trccompanies.com)

(lab use only)

ORDER #: 3108004

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> (Field Filtered - 250 ml)	HCl (40 ml VOA)	H <sub>2</sub> SO <sub>4</sub> (250 ml)	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	Matrix	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
1	MW-10			12-7-23	1015		9	X	1	6	2					GW	X	X	X	X	X	X	X	X
2	MW-15				1123		9	X	1	6	2					GW	X	X	X	X	X	X	X	X
3	MW-14				1231		9	X	1	6	2					GW	X	X	X	X	X	X	X	X
4	MW-5				1520		9	X	1	6	2					GW	X	X	X	X	X	X	X	X
5	MW-9				1650		9	X	1	6	2					GW	X	X	X	X	X	X	X	X
6	MW-6				1329		9	X	1	6	2					GW	X	X	X	X	X	X	X	X

BILL TO PLAINS

Relinquished by: *Manny* Date: 12-8-23 Time: 0830 Received by: *[Signature]* Date: 12-8-23 Time: 8:30

Relinquished by: *Manny* Date: 12-8-23 Time: 0830 Received by: *[Signature]* Date: 12-8-23 Time: 8:30

Relinquished by: *[Signature]* Date: 12-8-23 Time: 8:30 Received by: *[Signature]* Date: 12-8-23 Time: 8:30

Relinquished by: *[Signature]* Date: 12-8-23 Time: 8:30 Received by: *[Signature]* Date: 12-8-23 Time: 8:30





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

December 20, 2023

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

Work Order: **HS23120728**

Laboratory Results for: **3L08004**

Dear Brent Barron,

ALS Environmental received 6 sample(s) on Dec 12, 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: DAYNA.FISHER  
Anna Kinchen  
Project Manager

ALS Houston, US

Date: 20-Dec-23

Client: Permian Basin Environmental Lab, LP  
Project: 3L08004  
Work Order: HS23120728

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23120728-01	3L08004-01	Water		07-Dec-2023 10:15	12-Dec-2023 09:15	<input type="checkbox"/>
HS23120728-02	3L08004-02	Water		07-Dec-2023 11:23	12-Dec-2023 09:15	<input type="checkbox"/>
HS23120728-03	3L08004-03	Water		07-Dec-2023 12:31	12-Dec-2023 09:15	<input type="checkbox"/>
HS23120728-04	3L08004-04	Water		07-Dec-2023 15:20	12-Dec-2023 09:15	<input type="checkbox"/>
HS23120728-05	3L08004-05	Water		07-Dec-2023 16:50	12-Dec-2023 09:15	<input type="checkbox"/>
HS23120728-06	3L08004-06	Water		07-Dec-2023 13:29	12-Dec-2023 09:15	<input type="checkbox"/>

**ALS Houston, US**

Date: 20-Dec-23

---

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08004  
**Work Order:** HS23120728

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**CASE NARRATIVE**

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**GC Semivolatiles by Method RSK-175**

**Batch ID: R454150**

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

**Metals by Method SW6020A**

**Batch ID: 204774**

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

**WetChemistry by Method E415.1**

**Batch ID: R454667,R454668**

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

**ALS Houston, US**

Date: 20-Dec-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3L08004  
 Sample ID: 3L08004-01  
 Collection Date: 07-Dec-2023 10:15

**ANALYTICAL REPORT**  
 WorkOrder:HS23120728  
 Lab ID:HS23120728-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: E.H.
Ethane	ND		1.00	ug/L	1	13-Dec-2023 15:07
Ethene	ND		1.00	ug/L	1	13-Dec-2023 15:07
<b>Methane</b>	<b>3.60</b>		<b>0.500</b>	<b>ug/L</b>	1	13-Dec-2023 15:07
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 13-Dec-2023	Analyst: JC
Iron	ND		0.200	mg/L	1	14-Dec-2023 18:10
<b>Manganese</b>	<b>0.00629</b>		<b>0.00500</b>	<b>mg/L</b>	1	14-Dec-2023 18:10
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: DW
<b>Organic Carbon, Total</b>	<b>1.33</b>		<b>1.00</b>	<b>mg/L</b>	1	19-Dec-2023 16:34

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

**ALS Houston, US**

Date: 20-Dec-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3L08004  
 Sample ID: 3L08004-02  
 Collection Date: 07-Dec-2023 11:23

**ANALYTICAL REPORT**  
 WorkOrder:HS23120728  
 Lab ID:HS23120728-02  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: E.H.
Ethane	2.16		1.00	ug/L	1	13-Dec-2023 15:51
Ethene	ND		1.00	ug/L	1	13-Dec-2023 15:51
Methane	213		5.00	ug/L	10	13-Dec-2023 16:55
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 13-Dec-2023	Analyst: JC
Iron	ND		0.200	mg/L	1	14-Dec-2023 18:13
Manganese	0.0361		0.00500	mg/L	1	14-Dec-2023 18:13
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: DW
Organic Carbon, Total	1.26		1.00	mg/L	1	19-Dec-2023 16:46

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

**ALS Houston, US**

Date: 20-Dec-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3L08004  
 Sample ID: 3L08004-03  
 Collection Date: 07-Dec-2023 12:31

**ANALYTICAL REPORT**  
 WorkOrder:HS23120728  
 Lab ID:HS23120728-03  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: E.H.
Ethane	2.14		1.00	ug/L	1	13-Dec-2023 16:13
Ethene	ND		1.00	ug/L	1	13-Dec-2023 16:13
Methane	34.1		0.500	ug/L	1	13-Dec-2023 16:13
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 13-Dec-2023	Analyst: JC
Iron	ND		0.200	mg/L	1	14-Dec-2023 18:15
Manganese	0.0328		0.00500	mg/L	1	14-Dec-2023 18:15
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: DW
Organic Carbon, Total	1.16		1.00	mg/L	1	19-Dec-2023 17:00

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



**ALS Houston, US**

Date: 20-Dec-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3L08004  
 Sample ID: 3L08004-04  
 Collection Date: 07-Dec-2023 15:20

**ANALYTICAL REPORT**  
 WorkOrder:HS23120728  
 Lab ID:HS23120728-04  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: E.H.
Ethane	439		200	ug/L	200	13-Dec-2023 17:12
Ethene	ND		1.00	ug/L	1	13-Dec-2023 16:24
Methane	5,280		100	ug/L	200	13-Dec-2023 17:12
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 13-Dec-2023	Analyst: JC
Iron	1.46		0.200	mg/L	1	14-Dec-2023 18:17
Manganese	0.234		0.00500	mg/L	1	14-Dec-2023 18:17
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: DW
Organic Carbon, Total	3.89		1.00	mg/L	1	19-Dec-2023 17:13

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

**ALS Houston, US**

Date: 20-Dec-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3L08004  
 Sample ID: 3L08004-05  
 Collection Date: 07-Dec-2023 16:50

**ANALYTICAL REPORT**

WorkOrder:HS23120728  
 Lab ID:HS23120728-05  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: E.H.
Ethane	4.06		1.00	ug/L	1	13-Dec-2023 16:37
Ethene	8.51		1.00	ug/L	1	13-Dec-2023 16:37
Methane	753		25.0	ug/L	50	14-Dec-2023 08:57
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 13-Dec-2023	Analyst: JC
Iron	ND		0.200	mg/L	1	14-Dec-2023 18:20
Manganese	0.0181		0.00500	mg/L	1	14-Dec-2023 18:20
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: DW
Organic Carbon, Total	2.25		1.00	mg/L	1	19-Dec-2023 18:29

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

**ALS Houston, US**

Date: 20-Dec-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3L08004  
 Sample ID: 3L08004-06  
 Collection Date: 07-Dec-2023 13:29

**ANALYTICAL REPORT**  
 WorkOrder:HS23120728  
 Lab ID:HS23120728-06  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>DISSOLVED GASES BY RSK-175</b>		<b>Method:RSK-175</b>				Analyst: E.H.
Ethane	ND		1.00	ug/L	1	13-Dec-2023 16:47
Ethene	ND		1.00	ug/L	1	13-Dec-2023 16:47
<b>Methane</b>	<b>2,040</b>		<b>50.0</b>	<b>ug/L</b>	100	14-Dec-2023 09:08
<b>DISSOLVED METALS BY SW6020A</b>		<b>Method:SW6020A (dissolved)</b>			Prep:SW3010A / 13-Dec-2023	Analyst: JC
Iron	2.47		0.200	mg/L	1	14-Dec-2023 18:22
Manganese	0.436		0.00500	mg/L	1	14-Dec-2023 18:22
<b>TOTAL ORGANIC CARBON BY E415.1</b>		<b>Method:E415.1</b>				Analyst: DW
Organic Carbon, Total	7.29		1.00	mg/L	1	19-Dec-2023 18:55

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

ALS Houston, US

Date: 20-Dec-23

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP

Project: 3L08004

WorkOrder: HS23120728

<b>Batch ID:</b> 204774	<b>Start Date:</b> 13 Dec 2023 14:30	<b>End Date:</b> 13 Dec 2023 14:30
<b>Method:</b> DISS METALS PREP - WATER - SW3010A		<b>Prep Code:</b> 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23120728-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23120728-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23120728-03		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23120728-04		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23120728-05		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23120728-06		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US

Date: 20-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08004  
**WorkOrder:** HS23120728

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID: 204774 ( 0 )</b>		<b>Test Name : DISSOLVED METALS BY SW6020A</b>			<b>Matrix: Water</b>	
HS23120728-01	3L08004-01	07 Dec 2023 10:15		13 Dec 2023 14:30	14 Dec 2023 18:10	1
HS23120728-02	3L08004-02	07 Dec 2023 11:23		13 Dec 2023 14:30	14 Dec 2023 18:13	1
HS23120728-03	3L08004-03	07 Dec 2023 12:31		13 Dec 2023 14:30	14 Dec 2023 18:15	1
HS23120728-04	3L08004-04	07 Dec 2023 15:20		13 Dec 2023 14:30	14 Dec 2023 18:17	1
HS23120728-05	3L08004-05	07 Dec 2023 16:50		13 Dec 2023 14:30	14 Dec 2023 18:20	1
HS23120728-06	3L08004-06	07 Dec 2023 13:29		13 Dec 2023 14:30	14 Dec 2023 18:22	1
<b>Batch ID: R454150 ( 0 )</b>		<b>Test Name : DISSOLVED GASES BY RSK-175</b>			<b>Matrix: Water</b>	
HS23120728-01	3L08004-01	07 Dec 2023 10:15			13 Dec 2023 15:07	1
HS23120728-02	3L08004-02	07 Dec 2023 11:23			13 Dec 2023 16:55	10
HS23120728-02	3L08004-02	07 Dec 2023 11:23			13 Dec 2023 15:51	1
HS23120728-03	3L08004-03	07 Dec 2023 12:31			13 Dec 2023 16:13	1
HS23120728-04	3L08004-04	07 Dec 2023 15:20			13 Dec 2023 17:12	200
HS23120728-04	3L08004-04	07 Dec 2023 15:20			13 Dec 2023 16:24	1
HS23120728-05	3L08004-05	07 Dec 2023 16:50			14 Dec 2023 08:57	50
HS23120728-05	3L08004-05	07 Dec 2023 16:50			13 Dec 2023 16:37	1
HS23120728-06	3L08004-06	07 Dec 2023 13:29			14 Dec 2023 09:08	100
HS23120728-06	3L08004-06	07 Dec 2023 13:29			13 Dec 2023 16:47	1
<b>Batch ID: R454667 ( 0 )</b>		<b>Test Name : TOTAL ORGANIC CARBON BY E415.1</b>			<b>Matrix: Water</b>	
HS23120728-01	3L08004-01	07 Dec 2023 10:15			19 Dec 2023 16:34	1
HS23120728-02	3L08004-02	07 Dec 2023 11:23			19 Dec 2023 16:46	1
HS23120728-03	3L08004-03	07 Dec 2023 12:31			19 Dec 2023 17:00	1
HS23120728-04	3L08004-04	07 Dec 2023 15:20			19 Dec 2023 17:13	1
<b>Batch ID: R454668 ( 0 )</b>		<b>Test Name : TOTAL ORGANIC CARBON BY E415.1</b>			<b>Matrix: Water</b>	
HS23120728-05	3L08004-05	07 Dec 2023 16:50			19 Dec 2023 18:29	1
HS23120728-06	3L08004-06	07 Dec 2023 13:29			19 Dec 2023 18:55	1

ALS Houston, US

Date: 20-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08004  
**WorkOrder:** HS23120728

**QC BATCH REPORT**

**Batch ID:** R454150 ( 0 )      **Instrument:** FID-4      **Method:** DISSOLVED GASES BY RSK-175

<b>MBLK</b>		Sample ID: <b>MBLK-231213</b>		Units: <b>ug/L</b>		Analysis Date: <b>13-Dec-2023 13:02</b>			
Client ID:		Run ID: <b>FID-4_454150</b>		SeqNo: <b>7726903</b>		PrepDate:		DF: <b>1</b>	
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							

<b>LCS</b>		Sample ID: <b>LCS-231213</b>		Units: <b>ug/L</b>		Analysis Date: <b>13-Dec-2023 13:11</b>			
Client ID:		Run ID: <b>FID-4_454150</b>		SeqNo: <b>7726904</b>		PrepDate:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	21.31	1.00	18.04	0	118	75 - 125			
Ethene	15.26	1.00	16.8	0	90.8	75 - 125			
Methane	11.05	0.500	9.647	0	115	75 - 125			

<b>LCS D</b>		Sample ID: <b>LCS D-231213</b>		Units: <b>ug/L</b>		Analysis Date: <b>13-Dec-2023 13:22</b>			
Client ID:		Run ID: <b>FID-4_454150</b>		SeqNo: <b>7726905</b>		PrepDate:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	18.47	1.00	18.04	0	102	75 - 125	21.31	14.3	30
Ethene	15.25	1.00	16.8	0	90.8	75 - 125	15.26	0.0671	30
Methane	9.265	0.500	9.647	0	96.0	75 - 125	11.05	17.6	30

<b>DUP</b>		Sample ID: <b>HS23120728-03DUP</b>		Units: <b>ug/L</b>		Analysis Date: <b>13-Dec-2023 17:04</b>			
Client ID: <b>3L08004-03</b>		Run ID: <b>FID-4_454150</b>		SeqNo: <b>7726922</b>		PrepDate:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	1.622	1.00					2.136	27.4	30
Ethene	ND	1.00					0	0	30
Methane	33.86	0.500					34.1	0.694	30

The following samples were analyzed in this batch: HS23120728-01    HS23120728-02    HS23120728-03    HS23120728-04  
 HS23120728-05    HS23120728-06

ALS Houston, US

Date: 20-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08004  
**WorkOrder:** HS23120728

**QC BATCH REPORT**

<b>Batch ID:</b> 204774 ( 0 )	<b>Instrument:</b> ICPMS07	<b>Method:</b> DISSOLVED METALS BY SW6020A (DISSOLVED)
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<b>MBLK</b>	Sample ID: <b>MBLKF2-204774</b>	Units: <b>mg/L</b>	Analysis Date: <b>14-Dec-2023 15:34</b>							
Client ID:	Run ID: <b>ICPMS07_454142</b>	SeqNo: <b>7727922</b>	PrepDate: <b>13-Dec-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Iron	ND	0.200								
Manganese	ND	0.00500								

<b>MBLK</b>	Sample ID: <b>MBLKF3-204774</b>	Units: <b>mg/L</b>	Analysis Date: <b>14-Dec-2023 15:37</b>							
Client ID:	Run ID: <b>ICPMS07_454142</b>	SeqNo: <b>7727923</b>	PrepDate: <b>13-Dec-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Iron	ND	0.200								
Manganese	ND	0.00500								

<b>MBLK</b>	Sample ID: <b>MBLKF1-204774</b>	Units: <b>mg/L</b>	Analysis Date: <b>14-Dec-2023 15:32</b>							
Client ID:	Run ID: <b>ICPMS07_454142</b>	SeqNo: <b>7727921</b>	PrepDate: <b>13-Dec-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Iron	ND	0.200								
Manganese	ND	0.00500								

<b>MBLK</b>	Sample ID: <b>MBLK-204774</b>	Units: <b>mg/L</b>	Analysis Date: <b>14-Dec-2023 15:30</b>							
Client ID:	Run ID: <b>ICPMS07_454142</b>	SeqNo: <b>7727920</b>	PrepDate: <b>13-Dec-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Iron	ND	0.200								
Manganese	ND	0.00500								

<b>LCS</b>	Sample ID: <b>LCS-204774</b>	Units: <b>mg/L</b>	Analysis Date: <b>14-Dec-2023 15:39</b>							
Client ID:	Run ID: <b>ICPMS07_454142</b>	SeqNo: <b>7727924</b>	PrepDate: <b>13-Dec-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Iron	4.362	0.200	5	0	87.2	80 - 120				
Manganese	0.04335	0.00500	0.05	0	86.7	80 - 120				

ALS Houston, US

Date: 20-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08004  
**WorkOrder:** HS23120728

**QC BATCH REPORT**

**Batch ID:** 204774 ( 0 )      **Instrument:** ICPMS07      **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

<b>MS</b>		Sample ID: <b>HS23111592-01MS</b>			Units: <b>mg/L</b>		Analysis Date: <b>14-Dec-2023 16:04</b>			
Client ID:		Run ID: <b>ICPMS07_454142</b>			SeqNo: <b>7727930</b>		PrepDate: <b>13-Dec-2023</b>		DF: <b>5</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.177	1.00	5	0.0069	83.4	75 - 125				
Manganese	0.04371	0.0250	0.05	0.00223	83.0	75 - 125				

<b>MSD</b>		Sample ID: <b>HS23111592-01MSD</b>			Units: <b>mg/L</b>		Analysis Date: <b>14-Dec-2023 16:22</b>			
Client ID:		Run ID: <b>ICPMS07_454142</b>			SeqNo: <b>7727933</b>		PrepDate: <b>13-Dec-2023</b>		DF: <b>5</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.149	1.00	5	0.0069	82.9	75 - 125	4.177	0.668	20	
Manganese	0.04423	0.0250	0.05	0.00223	84.0	75 - 125	0.04371	1.18	20	

<b>PDS</b>		Sample ID: <b>HS23111592-01PDS</b>			Units: <b>mg/L</b>		Analysis Date: <b>14-Dec-2023 16:19</b>			
Client ID:		Run ID: <b>ICPMS07_454142</b>			SeqNo: <b>7727932</b>		PrepDate: <b>13-Dec-2023</b>		DF: <b>5</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	8.107	1.00	10	0.0069	81.0	75 - 125				
Manganese	0.08354	0.0250	0.1	0.00223	81.3	75 - 125				

<b>SD</b>		Sample ID: <b>HS23111592-01SD</b>			Units: <b>mg/L</b>		Analysis Date: <b>14-Dec-2023 16:02</b>			
Client ID:		Run ID: <b>ICPMS07_454142</b>			SeqNo: <b>7727929</b>		PrepDate: <b>13-Dec-2023</b>		DF: <b>25</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Iron	ND	5.00					0.0069	0	10	
Manganese	ND	0.125					0.00223	0	10	

The following samples were analyzed in this batch:

HS23120728-01	HS23120728-02	HS23120728-03	HS23120728-04
HS23120728-05	HS23120728-06		



ALS Houston, US

Date: 20-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08004  
**WorkOrder:** HS23120728

**QC BATCH REPORT**

<b>Batch ID:</b> R454667 ( 0 )	<b>Instrument:</b> TOC_04	<b>Method:</b> TOTAL ORGANIC CARBON BY E415.1
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<b>MBLK</b>	Sample ID: <b>MBLK-12192023</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Dec-2023 13:59</b>							
Client ID:	Run ID: <b>TOC_04_454667</b>	SeqNo: <b>7739263</b>	PrepDate: DF: <b>1</b>							
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

<b>LCS</b>	Sample ID: <b>LCS-12192023</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Dec-2023 14:12</b>							
Client ID:	Run ID: <b>TOC_04_454667</b>	SeqNo: <b>7739264</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 9.978 1.00 10 0 99.8 85 - 115

<b>LCSD</b>	Sample ID: <b>LCSD-12192023</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Dec-2023 14:25</b>							
Client ID:	Run ID: <b>TOC_04_454667</b>	SeqNo: <b>7739265</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 9.698 1.00 10 0 97.0 85 - 115 9.978 2.85 20

<b>MS</b>	Sample ID: <b>HS23120385-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Dec-2023 15:56</b>							
Client ID:	Run ID: <b>TOC_04_454667</b>	SeqNo: <b>7739272</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 25.99 1.00 10 16.22 97.7 80 - 120

<b>The following samples were analyzed in this batch:</b>	HS23120728-01	HS23120728-02	HS23120728-03	HS23120728-04
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**ALS Houston, US**

Date: 20-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08004  
**WorkOrder:** HS23120728

**QC BATCH REPORT**

<b>Batch ID:</b> R454668 ( 0 )	<b>Instrument:</b> TOC_04	<b>Method:</b> TOTAL ORGANIC CARBON BY E415.1
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<b>MBLK</b>	Sample ID: <b>MBLK-12192023</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Dec-2023 13:59</b>							
Client ID:	Run ID: <b>TOC_04_454668</b>	SeqNo: <b>7739289</b>	PrepDate: DF: <b>1</b>							
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

<b>LCS</b>	Sample ID: <b>LCS-12192023</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Dec-2023 14:12</b>							
Client ID:	Run ID: <b>TOC_04_454668</b>	SeqNo: <b>7739284</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 9.978 1.00 10 0 99.8 85 - 115

<b>LCSD</b>	Sample ID: <b>LCSD-12192023</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Dec-2023 14:25</b>							
Client ID:	Run ID: <b>TOC_04_454668</b>	SeqNo: <b>7739285</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 9.698 1.00 10 0 97.0 85 - 115 9.978 2.85 20

<b>MS</b>	Sample ID: <b>HS23120728-05MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Dec-2023 18:42</b>							
Client ID: <b>3L08004-05</b>	Run ID: <b>TOC_04_454668</b>	SeqNo: <b>7739291</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 10.26 1.00 10 2.252 80.1 80 - 120

The following samples were analyzed in this batch: HS23120728-05 HS23120728-06

**ALS Houston, US**

Date: 20-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08004  
**WorkOrder:** HS23120728

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	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

<b>Acronym</b>	<b>Description</b>
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: 20-Dec-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: 20-Dec-23

Sample Receipt Checklist

Work Order ID: HS23120728

Date/Time Received: 12-Dec-2023 09:15

Client Name: Permian Basin Lab

Received by: Corey Grandits

Completed By: /S/ Corey Grandits	12-Dec-2023 12:45	Reviewed by: /S/ Anna Kinchen	13-Dec-2023 10:00
eSignature	Date/Time	eSignature	Date/Time

Matrices: **W**

Carrier 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):	3.9UC/3.8C	IR31
Cooler(s)/Kit(s):	Md Red	
Date/Time sample(s) sent to storage:	12/12/23	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



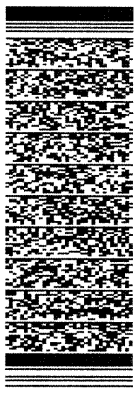
ORIGIN ID:MAFA (432) 888-7235 SHIP DATE: 11DEC23  
 BREW BARRON CANTON, OH 44705-1118  
 1400 BARKER HWY DIMS: 15x17x9 IN  
 MIDLAND, TX 79701 UNITED STATES,US BILL RECIPIENT

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

**HOUSTON TX 77099**  
 (281) 530-9615 REF:

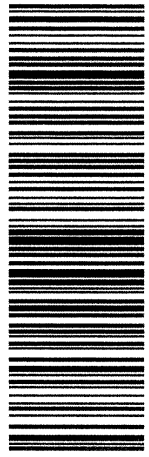
PO DEPT

583J27C14/9AE3



TRK# 7744 3271 2239 TUE - 12 DEC 5:00P  
 STANDARD OVERNIGHT

**AB 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: 97-04  
Project Number: TNM 97-04  
Location: Lea County, NM  
Lab Order Number: 3L08003



**Current Certification**

Report Date: 12/27/23



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

Project: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6	3L08003-01	Water	12/07/23 13:29	12-08-2023 08:30
MW-5	3L08003-02	Water	12/07/23 15:20	12-08-2023 08:30
MW-9	3L08003-03	Water	12/07/23 16:50	12-08-2023 08:30

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](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: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-6**  
**3L08003-01 (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 Semivolatle GCMS**

<b>1-Methylnaphthalene</b>	<b>0.0026</b>	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
<b>2-Methylnaphthalene</b>	<b>0.00069</b>	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
Acenaphthene	ND	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
Acenaphthylene	ND	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
Anthracene	ND	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
Benzo (a) anthracene	ND	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
Benzo (a) pyrene	ND	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
Benzo (b) fluoranthene	ND	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
Benzo (g,h,i) perylene	ND	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
Benzo (k) fluoranthene	ND	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
Chrysene	ND	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
Dibenzo (a,h) anthracene	ND	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
Dibenzofuran	ND	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
<b>Fluoranthene</b>	<b>0.00048</b>	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
Fluorene	ND	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.0053</b>	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
Naphthalene	ND	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
Phenanthrene	ND	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/18/23 16:22	8270C	SUB-13
<b>Pyrene</b>	<b>1.4</b>	0.010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:07	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  
 10 Desta Dr STE 150E  
 Midland TX, 79705

Project: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-5**  
**3L08003-02 (Water)**

**Permian Basin Environmental Lab, L.P.**

**PAH compounds by Semivolatiles GCMS**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>1-Methylnaphthalene</b>	<b>1.8</b>	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:07	8270C	SUB-13
<b>2-Methylnaphthalene</b>	<b>0.049</b>	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
<b>Acenaphthene</b>	<b>0.018</b>	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
Acenaphthylene	ND	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
Anthracene	ND	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
Benzo (a) anthracene	ND	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
Benzo (a) pyrene	ND	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
Benzo (b) fluoranthene	ND	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
Benzo (g,h,i) perylene	ND	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
Benzo (k) fluoranthene	ND	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
Chrysene	ND	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
Dibenzo (a,h) anthracene	ND	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
<b>Dibenzofuran</b>	<b>0.13</b>	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
Fluoranthene	ND	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
<b>Fluorene</b>	<b>0.84</b>	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.18</b>	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
Naphthalene	ND	0.010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 11:47	8270C	SUB-13
<b>Phenanthrene</b>	<b>0.043</b>	0.0010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:48	8270C	SUB-13
<b>Pyrene</b>	<b>0.024</b>	0.0010		mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:48	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: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-9**  
**3L08003-03 (Water)**

**Permian Basin Environmental Lab, L.P.**

**PAH compounds by Semivolatiles GCMS**

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
<b>1-Methylnaphthalene</b>	<b>0.00036</b>	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
<b>2-Methylnaphthalene</b>	<b>0.00039</b>	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
<b>Acenaphthene</b>	<b>0.00034</b>	0.00010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
Acenaphthylene	ND	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
Anthracene	ND	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
Benzo (a) anthracene	ND	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
Benzo (a) pyrene	ND	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
Benzo (b) fluoranthene	ND	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
Benzo (g,h,i) perylene	ND	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
Benzo (k) fluoranthene	ND	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
Chrysene	ND	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
<b>Dibenzo (a,h) anthracene</b>	<b>0.0041</b>	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
Dibenzofuran	ND	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
<b>Fluoranthene</b>	<b>0.035</b>	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:48	8270C	SUB-13
<b>Fluorene</b>	<b>0.0051</b>	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
Indeno (1,2,3-cd) pyrene	ND	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/19/23 12:28	8270C	SUB-13
Naphthalene	ND	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/27/23 15:48	8270C	SUB-13
Phenanthrene	ND	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/27/23 15:48	8270C	SUB-13
Pyrene	ND	0.0010	mg/L	1	P3L2706	12/14/23 12:00	12/27/23 15:48	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: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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: 97-04  
Project Number: TNM 97-04  
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: 12/27/2023

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



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: 97-04

Company Name: TRC Environmental Corporation

Project #: SRS: TNM 97-04

Company Address: 10 Desta 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]*

e-mail: [cdstanley@trccompanies.com](mailto:cdstanley@trccompanies.com)

[cjbryant@paalp.com](mailto:cjbryant@paalp.com)  
[khudgens@paalp.com](mailto:khudgens@paalp.com)  
[mgreen@trccompanies.com](mailto:mgreen@trccompanies.com)

ORDER #: 3608003

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:				RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT			
								Ice	HNO <sub>3</sub> (Field Filtered - 250 ml)	HCl (40 ml VOA)	H <sub>2</sub> SO <sub>4</sub> (250 ml)	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	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
1	MW-6			12-4-23	1329		3	X																		X	
2	MW-5				1520		3	X																		X	
3	MW-9				1650		3	X																		X	
	MW-4						3	X																		X	
	MW-2						3	X																		X	
	MW-3						3	X																		X	
	RW-1						3	X																		X	
	RW-2						3	X																		X	
	RW-3						3	X																		X	

SPECIAL INSTRUCTIONS: BILL TO PLAINS

Relinquished by:	Date	Time	Received by:	Date	Time	Received by RBEL:	Date	Time	Laboratory Comments:
Relinquished by: <i>Manny</i>	12-8-23	0830	Received by:			<i>[Signature]</i>	12/8/23	8:30	Sample Containers Intact? Y VOCs Free of Headspace? Y Labels on container(s) Y Custody seals on container(s) Y Custody seals on cooler(s) Y Sample Hand Delivered by Sampler/Client Rep. ? Y by Courier? UPS DHL FedEx Lone Star Temperature Upon Receipt: 5.5 °C 43 Adjusted: 5.5 °C NCP
Relinquished by:			Received by:						







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

December 19, 2023

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

Work Order: **HS23120725**

Laboratory Results for: **3L08003**

Dear Brent Barron,

ALS Environmental received 3 sample(s) on Dec 12, 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: 19-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08003  
**Work Order:** HS23120725

**SAMPLE SUMMARY**

---

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23120725-01	3L08003-01	Water		07-Dec-2023 13:29	12-Dec-2023 09:15	<input type="checkbox"/>
HS23120725-02	3L08003-02	Water		07-Dec-2023 15:20	12-Dec-2023 09:15	<input type="checkbox"/>
HS23120725-03	3L08003-03	Water		07-Dec-2023 16:50	12-Dec-2023 09:15	<input type="checkbox"/>

**ALS Houston, US**

Date: 19-Dec-23

---

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08003  
**Work Order:** HS23120725

**CASE NARRATIVE**

---

**GCMS Semivolatiles by Method SW8270**

**Batch ID: 204835**

**Sample ID: 3L08003-02 (HS23120725-02)**

- The GCMS semi-volatile extract of this sample was run at a dilution due to a high level of matrix interference.
  
  - The surrogate recoveries could not be determined due to dilution below the calibration range.
-

**ALS Houston, US**

Date: 19-Dec-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3L08003  
 Sample ID: 3L08003-01  
 Collection Date: 07-Dec-2023 13:29

**ANALYTICAL REPORT**

WorkOrder:HS23120725  
 Lab ID:HS23120725-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>LOW-LEVEL PAHS - 8270D</b>		<b>Method:SW8270</b>			Prep:SW3511 / 14-Dec-2023	Analyst: MBG
<b>1-Methylnaphthalene</b>	<b>2.62</b>	n	<b>0.103</b>	<b>ug/L</b>	1	18-Dec-2023 16:22
<b>2-Methylnaphthalene</b>	<b>0.689</b>		<b>0.103</b>	<b>ug/L</b>	1	18-Dec-2023 16:22
Acenaphthene	ND		0.103	ug/L	1	18-Dec-2023 16:22
Acenaphthylene	ND		0.103	ug/L	1	18-Dec-2023 16:22
Anthracene	ND		0.103	ug/L	1	18-Dec-2023 16:22
Benz(a)anthracene	ND		0.103	ug/L	1	18-Dec-2023 16:22
Benzo(a)pyrene	ND		0.103	ug/L	1	18-Dec-2023 16:22
Benzo(b)fluoranthene	ND		0.103	ug/L	1	18-Dec-2023 16:22
Benzo(g,h,i)perylene	ND		0.103	ug/L	1	18-Dec-2023 16:22
Benzo(k)fluoranthene	ND		0.103	ug/L	1	18-Dec-2023 16:22
Chrysene	ND		0.103	ug/L	1	18-Dec-2023 16:22
Dibenz(a,h)anthracene	ND		0.103	ug/L	1	18-Dec-2023 16:22
Fluoranthene	ND		0.103	ug/L	1	18-Dec-2023 16:22
<b>Fluorene</b>	<b>0.481</b>		<b>0.103</b>	<b>ug/L</b>	1	18-Dec-2023 16:22
Indeno(1,2,3-cd)pyrene	ND		0.103	ug/L	1	18-Dec-2023 16:22
<b>Naphthalene</b>	<b>5.30</b>		<b>0.103</b>	<b>ug/L</b>	1	18-Dec-2023 16:22
Phenanthrene	ND		0.103	ug/L	1	18-Dec-2023 16:22
Pyrene	ND		0.103	ug/L	1	18-Dec-2023 16:22
Surr: 2-Fluorobiphenyl	117		32-130	%REC	1	18-Dec-2023 16:22
Surr: 4-Terphenyl-d14	109		40-135	%REC	1	18-Dec-2023 16:22
Surr: Nitrobenzene-d5	95.9		45-142	%REC	1	18-Dec-2023 16:22

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

**ALS Houston, US**

Date: 19-Dec-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3L08003  
 Sample ID: 3L08003-02  
 Collection Date: 07-Dec-2023 15:20

**ANALYTICAL REPORT**

WorkOrder:HS23120725  
 Lab ID:HS23120725-02  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>LOW-LEVEL PAHS - 8270D</b>		<b>Method:SW8270</b>			Prep:SW3511 / 14-Dec-2023	Analyst: MBG
<b>1-Methylnaphthalene</b>	<b>1,420</b>	n	<b>103</b>	<b>ug/L</b>	1000	19-Dec-2023 12:07
<b>2-Methylnaphthalene</b>	<b>1,780</b>		<b>103</b>	<b>ug/L</b>	1000	19-Dec-2023 12:07
<b>Acenaphthene</b>	<b>49.1</b>		<b>10.3</b>	<b>ug/L</b>	100	19-Dec-2023 11:47
<b>Acenaphthylene</b>	<b>17.7</b>		<b>10.3</b>	<b>ug/L</b>	100	19-Dec-2023 11:47
Anthracene	ND		10.3	ug/L	100	19-Dec-2023 11:47
Benz(a)anthracene	ND		10.3	ug/L	100	19-Dec-2023 11:47
Benzo(a)pyrene	ND		10.3	ug/L	100	19-Dec-2023 11:47
Benzo(b)fluoranthene	ND		10.3	ug/L	100	19-Dec-2023 11:47
Benzo(g,h,i)perylene	ND		10.3	ug/L	100	19-Dec-2023 11:47
Benzo(k)fluoranthene	ND		10.3	ug/L	100	19-Dec-2023 11:47
Chrysene	ND		10.3	ug/L	100	19-Dec-2023 11:47
Dibenz(a,h)anthracene	ND		10.3	ug/L	100	19-Dec-2023 11:47
Fluoranthene	ND		10.3	ug/L	100	19-Dec-2023 11:47
<b>Fluorene</b>	<b>130</b>		<b>10.3</b>	<b>ug/L</b>	100	19-Dec-2023 11:47
Indeno(1,2,3-cd)pyrene	ND		10.3	ug/L	100	19-Dec-2023 11:47
<b>Naphthalene</b>	<b>841</b>		<b>10.3</b>	<b>ug/L</b>	100	19-Dec-2023 11:47
<b>Phenanthrene</b>	<b>184</b>		<b>10.3</b>	<b>ug/L</b>	100	19-Dec-2023 11:47
Pyrene	ND		10.3	ug/L	100	19-Dec-2023 11:47
Surr: 2-Fluorobiphenyl	0	JS	32-130	%REC	100	19-Dec-2023 11:47
Surr: 2-Fluorobiphenyl	0	JS	32-130	%REC	1000	19-Dec-2023 12:07
Surr: 4-Terphenyl-d14	0	JS	40-135	%REC	100	19-Dec-2023 11:47
Surr: 4-Terphenyl-d14	0	JS	40-135	%REC	1000	19-Dec-2023 12:07
Surr: Nitrobenzene-d5	0	JS	45-142	%REC	100	19-Dec-2023 11:47
Surr: Nitrobenzene-d5	0	JS	45-142	%REC	1000	19-Dec-2023 12:07

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

**ALS Houston, US**

Date: 19-Dec-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3L08003  
 Sample ID: 3L08003-03  
 Collection Date: 07-Dec-2023 16:50

**ANALYTICAL REPORT**  
 WorkOrder:HS23120725  
 Lab ID:HS23120725-03  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>LOW-LEVEL PAHS - 8270D</b>		<b>Method:SW8270</b>			Prep:SW3511 / 14-Dec-2023	Analyst: MBG
<b>1-Methylnaphthalene</b>	<b>42.6</b>	n	<b>0.999</b>	<b>ug/L</b>	10	19-Dec-2023 12:48
<b>2-Methylnaphthalene</b>	<b>24.1</b>		<b>0.999</b>	<b>ug/L</b>	10	19-Dec-2023 12:48
<b>Acenaphthene</b>	<b>0.360</b>		<b>0.0999</b>	<b>ug/L</b>	1	19-Dec-2023 12:28
<b>Acenaphthylene</b>	<b>0.386</b>		<b>0.0999</b>	<b>ug/L</b>	1	19-Dec-2023 12:28
<b>Anthracene</b>	<b>0.336</b>		<b>0.0999</b>	<b>ug/L</b>	1	19-Dec-2023 12:28
Benz(a)anthracene	ND		0.0999	ug/L	1	19-Dec-2023 12:28
Benzo(a)pyrene	ND		0.0999	ug/L	1	19-Dec-2023 12:28
Benzo(b)fluoranthene	ND		0.0999	ug/L	1	19-Dec-2023 12:28
Benzo(g,h,i)perylene	ND		0.0999	ug/L	1	19-Dec-2023 12:28
Benzo(k)fluoranthene	ND		0.0999	ug/L	1	19-Dec-2023 12:28
Chrysene	ND		0.0999	ug/L	1	19-Dec-2023 12:28
Dibenz(a,h)anthracene	ND		0.0999	ug/L	1	19-Dec-2023 12:28
Fluoranthene	ND		0.0999	ug/L	1	19-Dec-2023 12:28
<b>Fluorene</b>	<b>4.14</b>		<b>0.0999</b>	<b>ug/L</b>	1	19-Dec-2023 12:28
Indeno(1,2,3-cd)pyrene	ND		0.0999	ug/L	1	19-Dec-2023 12:28
<b>Naphthalene</b>	<b>34.6</b>		<b>0.999</b>	<b>ug/L</b>	10	19-Dec-2023 12:48
<b>Phenanthrene</b>	<b>5.12</b>		<b>0.0999</b>	<b>ug/L</b>	1	19-Dec-2023 12:28
Pyrene	ND		0.0999	ug/L	1	19-Dec-2023 12:28
Surr: 2-Fluorobiphenyl	121		32-130	%REC	1	19-Dec-2023 12:28
Surr: 2-Fluorobiphenyl	95.3		32-130	%REC	10	19-Dec-2023 12:48
Surr: 4-Terphenyl-d14	124		40-135	%REC	1	19-Dec-2023 12:28
Surr: 4-Terphenyl-d14	81.7		40-135	%REC	10	19-Dec-2023 12:48
Surr: Nitrobenzene-d5	117		45-142	%REC	1	19-Dec-2023 12:28
Surr: Nitrobenzene-d5	70.9		45-142	%REC	10	19-Dec-2023 12:48

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

ALS Houston, US

Date: 19-Dec-23

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP

Project: 3L08003

WorkOrder: HS23120725

Batch ID: 204835

Start Date: 14 Dec 2023 12:00

End Date: 14 Dec 2023 12:00

Method: SW3511

Prep Code: 3511\_PAH

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23120725-01		32 (mL)	2 (mL)	0.0625	40 mL Amber
HS23120725-02		31.94 (mL)	2 (mL)	0.06262	40 mL Amber
HS23120725-03		33.04 (mL)	2 (mL)	0.06053	40 mL Amber

ALS Houston, US

Date: 19-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08003  
**WorkOrder:** HS23120725

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> 204835 ( 0 )		<b>Test Name :</b> LOW-LEVEL PAHS - 8270D			<b>Matrix:</b> Water	
HS23120725-01	3L08003-01	07 Dec 2023 13:29		14 Dec 2023 12:00	18 Dec 2023 16:22	1
HS23120725-02	3L08003-02	07 Dec 2023 15:20		14 Dec 2023 12:00	19 Dec 2023 12:07	1000
HS23120725-02	3L08003-02	07 Dec 2023 15:20		14 Dec 2023 12:00	19 Dec 2023 11:47	100
HS23120725-03	3L08003-03	07 Dec 2023 16:50		14 Dec 2023 12:00	19 Dec 2023 12:48	10
HS23120725-03	3L08003-03	07 Dec 2023 16:50		14 Dec 2023 12:00	19 Dec 2023 12:28	1



ALS Houston, US

Date: 19-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08003  
**WorkOrder:** HS23120725

**QC BATCH REPORT**

<b>Batch ID:</b> 204835 ( 0 )	<b>Instrument:</b> SV-6	<b>Method:</b> LOW-LEVEL PAHS - 8270D
-------------------------------	-------------------------	---------------------------------------

<b>MBLK</b>	Sample ID: <b>MBLK-204835</b>	Units: <b>ug/L</b>	Analysis Date: <b>18-Dec-2023 13:41</b>							
Client ID:	Run ID: <b>SV-6_454554</b>	SeqNo: <b>7736627</b>	PrepDate: <b>14-Dec-2023</b> DF: <b>1</b>							
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	3.129	0.100	3.03	0	103	32 - 130				
Surr: 4-Terphenyl-d14	3.375	0.100	3.03	0	111	40 - 135				
Surr: Nitrobenzene-d5	3.025	0.100	3.03	0	99.8	45 - 142				

**ALS Houston, US**

Date: 19-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08003  
**WorkOrder:** HS23120725

**QC BATCH REPORT**

<b>Batch ID:</b> 204835 ( 0 )	<b>Instrument:</b> SV-6	<b>Method:</b> LOW-LEVEL PAHS - 8270D
-------------------------------	-------------------------	---------------------------------------

LCS	Sample ID: LCS-204835	Units: ug/L			Analysis Date: 18-Dec-2023 14:01					
Client ID:	Run ID: SV-6_454554	SeqNo: 7736628	PrepDate: 14-Dec-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	3.262	0.100	3.03	0	108	40 - 140				
2-Methylnaphthalene	3.357	0.100	3.03	0	111	40 - 140				
Acenaphthene	3.776	0.100	3.03	0	125	40 - 140				
Acenaphthylene	3.675	0.100	3.03	0	121	40 - 140				
Anthracene	3.987	0.100	3.03	0	132	40 - 140				
Benz(a)anthracene	3.564	0.100	3.03	0	118	40 - 140				
Benzo(a)pyrene	2.822	0.100	3.03	0	93.2	40 - 140				
Benzo(b)fluoranthene	3.036	0.100	3.03	0	100	40 - 140				
Benzo(g,h,i)perylene	2.709	0.100	3.03	0	89.4	40 - 140				
Benzo(k)fluoranthene	3.201	0.100	3.03	0	106	40 - 140				
Chrysene	3.623	0.100	3.03	0	120	40 - 140				
Dibenz(a,h)anthracene	3.302	0.100	3.03	0	109	40 - 140				
Fluoranthene	3.868	0.100	3.03	0	128	40 - 140				
Fluorene	3.582	0.100	3.03	0	118	40 - 140				
Indeno(1,2,3-cd)pyrene	3.142	0.100	3.03	0	104	40 - 140				
Naphthalene	3.234	0.100	3.03	0	107	40 - 140				
Phenanthrene	3.298	0.100	3.03	0	109	40 - 140				
Pyrene	3.016	0.100	3.03	0	99.5	40 - 140				
Surr: 2-Fluorobiphenyl	3.01	0.100	3.03	0	99.3	32 - 130				
Surr: 4-Terphenyl-d14	2.679	0.100	3.03	0	88.4	40 - 135				
Surr: Nitrobenzene-d5	2.329	0.100	3.03	0	76.9	45 - 142				

ALS Houston, US

Date: 19-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08003  
**WorkOrder:** HS23120725

**QC BATCH REPORT**

**Batch ID:** 204835 ( 0 )      **Instrument:** SV-6      **Method:** LOW-LEVEL PAHS - 8270D

LCSD	Sample ID: LCSD-204835	Units: ug/L			Analysis Date: 18-Dec-2023 14:21					
Client ID:	Run ID: SV-6_454554	SeqNo: 7736629	PrepDate: 14-Dec-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	3.721	0.100	3.03	0	123	40 - 140	3.262	13.2	25	
2-Methylnaphthalene	3.524	0.100	3.03	0	116	40 - 140	3.357	4.86	25	
Acenaphthene	3.452	0.100	3.03	0	114	40 - 140	3.776	8.98	25	
Acenaphthylene	3.411	0.100	3.03	0	113	40 - 140	3.675	7.46	25	
Anthracene	3.822	0.100	3.03	0	126	40 - 140	3.987	4.2	25	
Benz(a)anthracene	3.801	0.100	3.03	0	125	40 - 140	3.564	6.43	25	
Benzo(a)pyrene	3.141	0.100	3.03	0	104	40 - 140	2.822	10.7	25	
Benzo(b)fluoranthene	3.228	0.100	3.03	0	107	40 - 140	3.036	6.13	25	
Benzo(g,h,i)perylene	2.726	0.100	3.03	0	90.0	40 - 140	2.709	0.616	25	
Benzo(k)fluoranthene	3.207	0.100	3.03	0	106	40 - 140	3.201	0.172	25	
Chrysene	3.285	0.100	3.03	0	108	40 - 140	3.623	9.8	25	
Dibenz(a,h)anthracene	3.449	0.100	3.03	0	114	40 - 140	3.302	4.35	25	
Fluoranthene	3.795	0.100	3.03	0	125	40 - 140	3.868	1.91	25	
Fluorene	3.575	0.100	3.03	0	118	40 - 140	3.582	0.186	25	
Indeno(1,2,3-cd)pyrene	3.364	0.100	3.03	0	111	40 - 140	3.142	6.81	25	
Naphthalene	3.378	0.100	3.03	0	111	40 - 140	3.234	4.38	25	
Phenanthrene	3.413	0.100	3.03	0	113	40 - 140	3.298	3.43	25	
Pyrene	3.248	0.100	3.03	0	107	40 - 140	3.016	7.39	25	
Surr: 2-Fluorobiphenyl	2.772	0.100	3.03	0	91.5	32 - 130	3.01	8.24	25	
Surr: 4-Terphenyl-d14	2.608	0.100	3.03	0	86.1	40 - 135	2.679	2.71	25	
Surr: Nitrobenzene-d5	2.381	0.100	3.03	0	78.6	45 - 142	2.329	2.21	25	

The following samples were analyzed in this batch: HS23120725-01    HS23120725-02    HS23120725-03

**ALS Houston, US**

Date: 19-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L08003  
**WorkOrder:** HS23120725

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	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

<b>Acronym</b>	<b>Description</b>
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: 19-Dec-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: 19-Dec-23

Sample Receipt Checklist

Work Order ID: HS23120725

Date/Time Received: 12-Dec-2023 09:15

Client Name: Permian Basin Lab

Received by: Corey Grandits

Completed By: /S/ Corey Grandits	12-Dec-2023 12:35	Reviewed by: /S/ Anna Kinchen	13-Dec-2023 09:55
eSignature	Date/Time	eSignature	Date/Time

Matrices: **W**

Carrier 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):	3.9UC/3.8C	IR31
Cooler(s)/Kit(s):	Md Red	
Date/Time sample(s) sent to storage:	12/12/23	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



ORIGIN ID:MMFA (432) 686-7235  
 BRENT BARRON  
 PREP LAB  
 1400 RANKIN HWY  
 MIDLAND TX 79701

SHIP DATE: 11DEC23  
 ACTIVITY: 1401  
 CAD: 10173664NET6595  
 DIMS: 15x17x9 IN  
 BILL RECEIPT

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

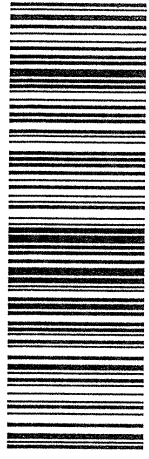
**HOUSTON TX 77099**

ZIP: (281) 530-5615  
 NY: REF: DEPT: 583J27C14/SAE3



TRK# 7744 3271 2239  
 TUE - 12 DEC 5:00P  
 STANDARD OVERNIGHT

**ABSGRA**  
 TX-US IAH 77099



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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: 97-04  
Project Number: TNM 97-04  
Location: Lea County, NM  
Lab Order Number: 3L14001



**Current Certification**

Report Date: 01/02/24

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

Project: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-12	3L14001-01	Water	12/08/23 10:30	12-14-2023 08:15
MW-7	3L14001-02	Water	12/08/23 10:57	12-14-2023 08:15
MW-16	3L14001-03	Water	12/08/23 11:27	12-14-2023 08:15
MW-11	3L14001-04	Water	12/08/23 11:52	12-14-2023 08:15
MW-13	3L14001-05	Water	12/08/23 12:22	12-14-2023 08:15
MW-18	3L14001-06	Water	12/08/23 12:57	12-14-2023 08:15

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

Project: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-12**  
**3L14001-01 (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	P3L2206	12/22/23 08:00	12/22/23 20:27	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 20:27	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 20:27	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 20:27	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 20:27	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	84.9 %		80-120		P3L2206	12/22/23 08:00	12/22/23 20:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	88.3 %		80-120		P3L2206	12/22/23 08:00	12/22/23 20:27	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

Project: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-7**  
**3L14001-02 (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	P3L2206	12/22/23 08:00	12/22/23 20:51	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 20:51	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 20:51	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 20:51	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 20:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	85.0 %		80-120		P3L2206	12/22/23 08:00	12/22/23 20:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	87.9 %		80-120		P3L2206	12/22/23 08:00	12/22/23 20:51	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas 10 Desta Dr STE 150E Midland TX, 79705	Project: 97-04 Project Number: TNM 97-04 Project Manager: Curt Stanley
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**MW-16**  
**3L14001-03 (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	P3L2206	12/22/23 08:00	12/22/23 21:14	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 21:14	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 21:14	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 21:14	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 21:14	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		85.7 %			<i>P3L2206</i>	<i>12/22/23 08:00</i>	<i>12/22/23 21:14</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>		88.6 %			<i>P3L2206</i>	<i>12/22/23 08:00</i>	<i>12/22/23 21:14</i>	<i>EPA 8021B</i>	

Permian Basin Environmental Lab, L.P.

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**MW-11**  
**3L14001-04 (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	P3L2206	12/22/23 08:00	12/22/23 21:37	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 21:37	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 21:37	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 21:37	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 21:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	85.3 %		80-120		P3L2206	12/22/23 08:00	12/22/23 21:37	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	89.7 %		80-120		P3L2206	12/22/23 08:00	12/22/23 21:37	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

Project: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-13**  
**3L14001-05 (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	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 22:00	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 22:00	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 22:00	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 22:00	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 22:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	85.3 %		80-120		P3L2206	12/22/23 08:00	12/22/23 22:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	88.8 %		80-120		P3L2206	12/22/23 08:00	12/22/23 22:00	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

Project: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**MW-18**  
**3L14001-06 (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	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 22:23	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 22:23	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 22:23	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 22:23	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2206	12/22/23 08:00	12/22/23 22:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	83.9 %		80-120		P3L2206	12/22/23 08:00	12/22/23 22:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	89.2 %		80-120		P3L2206	12/22/23 08:00	12/22/23 22:23	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: 97-04  
 Project Number: TNM 97-04  
 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 P3L2206 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P3L2206-BLK1)**

Prepared & Analyzed: 12/22/23

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		85.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.4	80-120			

**LCS (P3L2206-BS1)**

Prepared & Analyzed: 12/22/23

Benzene	0.0960	0.00100	mg/L	0.100		96.0	80-120			
Toluene	0.0895	0.00100	"	0.100		89.5	80-120			
Ethylbenzene	0.0910	0.00100	"	0.100		91.0	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.3	80-120			
Xylene (o)	0.0805	0.00100	"	0.100		80.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.0	80-120			

**LCS Dup (P3L2206-BSD1)**

Prepared & Analyzed: 12/22/23

Benzene	0.0984	0.00100	mg/L	0.100		98.4	80-120	2.47	20	
Toluene	0.0930	0.00100	"	0.100		93.0	80-120	3.81	20	
Ethylbenzene	0.0943	0.00100	"	0.100		94.3	80-120	3.55	20	
Xylene (p/m)	0.184	0.00200	"	0.200		91.9	80-120	2.92	20	
Xylene (o)	0.0808	0.00100	"	0.100		80.8	80-120	0.335	20	
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		84.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.6	80-120			

**Calibration Blank (P3L2206-CCB1)**

Prepared & Analyzed: 12/22/23

Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.210		"							
Xylene (p/m)	0.310		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.6	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  
 10 Desta Dr STE 150E  
 Midland TX, 79705

Project: 97-04  
 Project Number: TNM 97-04  
 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 P3L2206 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Blank (P3L2206-CCB2)**

Prepared: 12/22/23 Analyzed: 12/23/23

Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.140		"							
Xylene (p/m)	0.210		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.6	80-120			

**Calibration Blank (P3L2206-CCB3)**

Prepared: 12/22/23 Analyzed: 12/23/23

Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.180		"							
Xylene (p/m)	0.190		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0977		"	0.120		81.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.1	80-120			

**Calibration Check (P3L2206-CCV1)**

Prepared & Analyzed: 12/22/23

Benzene	0.0993	0.00100	mg/L	0.100		99.3	80-120			
Toluene	0.0930	0.00100	"	0.100		93.0	80-120			
Ethylbenzene	0.0894	0.00100	"	0.100		89.4	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.5	80-120			
Xylene (o)	0.0827	0.00100	"	0.100		82.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.9	80-120			

**Calibration Check (P3L2206-CCV2)**

Prepared & Analyzed: 12/22/23

Benzene	0.102	0.00100	mg/L	0.100		102	80-120			
Toluene	0.0968	0.00100	"	0.100		96.8	80-120			
Ethylbenzene	0.0919	0.00100	"	0.100		91.9	80-120			
Xylene (p/m)	0.188	0.00200	"	0.200		94.2	80-120			
Xylene (o)	0.0847	0.00100	"	0.100		84.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.5	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: 97-04  
 Project Number: TNM 97-04  
 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 P3L2206 - \*\*\* DEFAULT PREP \*\*\***

<b>Calibration Check (P3L2206-CCV3)</b>				Prepared: 12/22/23 Analyzed: 12/23/23					
Benzene	0.104	0.00100	mg/L	0.100	104	80-120			
Toluene	0.0962	0.00100	"	0.100	96.2	80-120			
Ethylbenzene	0.0909	0.00100	"	0.100	90.9	80-120			
Xylene (p/m)	0.186	0.00200	"	0.200	92.8	80-120			
Xylene (o)	0.0843	0.00100	"	0.100	84.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.0975		"	0.120	81.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120	88.6	80-120			

<b>Matrix Spike (P3L2206-MS1)</b>				Source: 3L14001-01		Prepared: 12/22/23 Analyzed: 12/23/23			
Benzene	0.0812	0.00100	mg/L	0.100	ND	81.2	80-120		
Toluene	0.0739	0.00100	"	0.100	ND	73.9	80-120		QM-05
Ethylbenzene	0.0753	0.00100	"	0.100	ND	75.3	80-120		QM-05
Xylene (p/m)	0.147	0.00200	"	0.200	ND	73.5	80-120		QM-05
Xylene (o)	0.0636	0.00100	"	0.100	ND	63.6	80-120		QM-05
Surrogate: 4-Bromofluorobenzene	0.0967		"	0.120		80.6	80-120		
Surrogate: 1,4-Difluorobenzene	0.103		"	0.120		85.9	80-120		

<b>Matrix Spike Dup (P3L2206-MSD1)</b>				Source: 3L14001-01		Prepared: 12/22/23 Analyzed: 12/23/23			
Benzene	0.0982	0.00100	mg/L	0.100	ND	98.2	80-120	18.9	20
Toluene	0.0903	0.00100	"	0.100	ND	90.3	80-120	20.0	20
Ethylbenzene	0.0920	0.00100	"	0.100	ND	92.0	80-120	20.1	20
Xylene (p/m)	0.178	0.00200	"	0.200	ND	88.9	80-120	19.0	20
Xylene (o)	0.0777	0.00100	"	0.100	ND	77.7	80-120	19.9	20
Surrogate: 4-Bromofluorobenzene	0.0962		"	0.120		80.2	80-120		
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		86.6	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  
10 Desta Dr STE 150E  
Midland TX, 79705

Project: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**Notes and Definitions**

- 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: 1/2/2024

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.

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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: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley



**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: 97-04  
Project Number: TNM 97-04  
Location: Lea County, NM  
Lab Order Number: 3E09006



**Current Certification**

Report Date: 05/31/23

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

Project: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Post-Metals	3E09006-01	Water	05/08/23 15:05	05-09-2023 08:44

Total Metals 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](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: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**Post-Metals**  
**3E09006-01 (Water)**

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

**Permian Basin Environmental Lab, L.P.**

**Total Metals by EPA / Standard Methods**

Silver	ND	0.00200	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	EPA 6020A	SUB-13
<b>Aluminum</b>	<b>0.0200</b>	0.0100	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	EPA 200.8	SUB-13
<b>Arsenic</b>	<b>0.0130</b>	0.00200	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	EPA 6020A	SUB-13
<b>Boron</b>	<b>0.0927</b>	0.0200	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	SW846-6020A	SUB-13
<b>Barium</b>	<b>0.163</b>	0.00400	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	EPA 6020A	SUB-13
Cadmium	ND	0.00200	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	EPA 6020A	SUB-13
Cobalt	ND	0.00500	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	EPA 6020A	SUB-13
Chromium	ND	0.00400	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	EPA 6020A	SUB-13
<b>Copper</b>	<b>0.0130</b>	0.00200	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	EPA 6020A	SUB-13
<b>Iron</b>	<b>0.501</b>	0.200	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	EPA 6020A	SUB-13
Mercury	ND	0.000200	ug/l	1	P3E3106	05/30/23 08:00	05/30/23 15:27	EPA 7470A	SUB-13
<b>Manganese</b>	<b>0.119</b>	0.00500	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	EPA 6020A	SUB-13
Molybdenum	ND	0.00500	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	EPA 6020A	SUB-13
<b>Nickel</b>	<b>0.0160</b>	0.00200	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	EPA 6020A	SUB-13
Lead	ND	0.00200	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	EPA 6020A	SUB-13
Selenium	ND	0.00200	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	EPA 6020A	SUB-13
<b>Zinc</b>	<b>0.0810</b>	0.00400	mg/L	1	P3E3106	05/26/23 09:00	05/26/23 14:30	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: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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: 97-04  
Project Number: TNM 97-04  
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: 5/31/2023

Brent Barron, Laboratory Director/Technical Director

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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

L: \_\_\_\_\_ CH: \_\_\_\_\_ W: \_\_\_\_\_  
Phone: 432-686-7235

Project Manager: Curt Staley  
Company Name: TRE Environmental Corporation  
Company Address: 10 Delta Drive Suite 150 E  
City/State/Zip: Midland, TX 79705  
Telephone No: (432) 520-7720 Fax No: \_\_\_\_\_  
Sampler Signature: [Signature] e-mail: dstaley@trecompany.com  
Report Format:  Standard  TRRP  NPDES

ORDER #: 3E09006  
LAB # (lab use only): \_\_\_\_\_  
FIELD CODE: \_\_\_\_\_

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: TX 1005 TX 1006	Anions (Cl, SO <sub>4</sub> , Alkalinity)	BTEX 8021B/5030 or BTEX 8260	Tot.P:	TOTAL:	Analyze For:	RUSH TAT (Pre-Schedule) 24, 48, 72 h		
	Port - Metals	NA	NA	05-08-23	1505		1																				

Special Instructions: Bill to Plains

Relinquished by: <u>[Signature]</u>	Date: <u>05-08-23</u>	Time: <u>1600</u>	Received by:	Date:	Time:
Relinquished by: <u>Manny</u>	Date: <u>5-9-23</u>	Time: <u>8:44</u>	Received by: <u>[Signature]</u>	Date: <u>6/9/23</u>	Time: <u>8:44</u>

Received by PBEL: [Signature]  
Effective Date: 9-21-21

Temperature Upon Receipt: 4.3 °C  
Thermometer Factor: \_\_\_\_\_

Laboratory Comments:  
 Sample Containers Intact? Y  
 VOCs Free of Headspace? Y  
 Labels on container(s) Y  
 Custody seals on container(s) Y  
 Custody seals on cooler(s) Y  
 Sample Hand Delivered Y  
 by Sampler/Client Rep.?  
 by Courier? Y  
 UPS Y  
 DHL Y  
 FedEx Y  
 Lone Star Y

PBEL\_COC\_2021\_1 Revision #: 2021\_1 Effective Date: 9-21-21 Page \_\_\_ of \_\_\_



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

Analyze For:

ORDER #:	LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	ICE	HNO <sub>3</sub> 250 poly 1	HCl 3 40mL VOA	H <sub>2</sub> SO <sub>4</sub> 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NONE	NONE 3 AMBER VOAA VIALS	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Matrix	Fe,Al,As,B,Ba,Cd,Co,Ag,Cu Total ICP/MS 6020A	Zn,Mn,Mo,Ni,Pb,Se,Cr ICP-MS 6020A	Hg Total CVAA 7470	24 HOUR STANDARD
		3E09006-01			5/8/2023	15:05		1	X	X														X

SPECIAL INSTRUCTIONS:

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:

Sample Containers Intact?	Y
VOCs Free of Headspace?	Y
Labels on container(s)	Y
Custody seals on container(s)	Y
Custody seals on cooler(s)	Y
Sample Hand Delivered by Sampler/Client Rep.?	Y
Temperature Upon Receipt:	C
Adjusted:	C Factor

ORIGIN ID:MAEA (432) 686-7235  
BRENT BARRON  
PBE LAB  
1400 RANKIN HWY  
MIDLAND, TX 79701  
UNITED STATES US

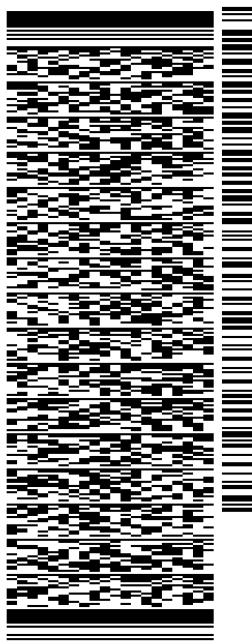
SHIP DATE: 11MAY23  
ACTWGT: 50.00 LB  
CAD: 107136946INMET4610

BILL RECIPIENT

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

**HOUSTON TX 77099**

REF: (281) 530-5615  
INV: PO: DEPT:

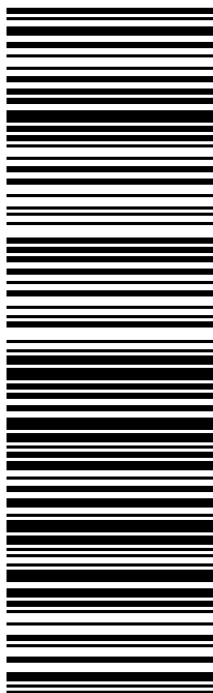


J232023040501uv

583J32BC3/FE2D

TRK# 7721 1877 8157  
0201  
FRI - 12 MAY 4:30P  
STANDARD OVERNIGHT

**ABSGRA**  
TX-US **IAH**  
**77099**



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

May 30, 2023

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

Work Order: **HS23051001**

Laboratory Results for: **3E09006**

Dear Brent Barron,

ALS Environmental received 1 sample(s) on May 22, 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: 30-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E09006  
**Work Order:** HS23051001

**SAMPLE SUMMARY**

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Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23051001-01	3E09006-01	Water		08-May-2023 15:05	22-May-2023 10:50	<input type="checkbox"/>

**ALS Houston, US**

Date: 30-May-23

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**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E09006  
**Work Order:** HS23051001

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**CASE NARRATIVE**

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**Metals by Method SW7470A**

**Batch ID: 194442**

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

**Metals by Method SW6020A**

**Batch ID: 194374**

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

**ALS Houston, US**

Date: 30-May-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3E09006  
 Sample ID: 3E09006-01  
 Collection Date: 08-May-2023 15:05

**ANALYTICAL REPORT**

WorkOrder:HS23051001  
 Lab ID:HS23051001-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>ICP-MS METALS BY SW6020A</b>		<b>Method:SW6020A</b>		Prep:SW3010A / 26-May-2023		Analyst: JC
Aluminum	0.0200		0.0100	mg/L	1	26-May-2023 14:30
Arsenic	0.0130		0.00200	mg/L	1	26-May-2023 14:30
Barium	0.163		0.00400	mg/L	1	26-May-2023 14:30
Boron	0.0927		0.0200	mg/L	1	26-May-2023 14:30
Cadmium	ND		0.00200	mg/L	1	26-May-2023 14:30
Chromium	ND		0.00400	mg/L	1	26-May-2023 14:30
Cobalt	ND		0.00500	mg/L	1	26-May-2023 14:30
Copper	0.0130		0.00200	mg/L	1	26-May-2023 14:30
Iron	0.501		0.200	mg/L	1	26-May-2023 14:30
Lead	ND		0.00200	mg/L	1	26-May-2023 14:30
Manganese	0.119		0.00500	mg/L	1	26-May-2023 14:30
Molybdenum	ND		0.00500	mg/L	1	26-May-2023 14:30
Nickel	0.0160		0.00200	mg/L	1	26-May-2023 14:30
Selenium	ND		0.00200	mg/L	1	26-May-2023 14:30
Silver	ND		0.00200	mg/L	1	26-May-2023 14:30
Zinc	0.0810		0.00400	mg/L	1	26-May-2023 14:30
<b>MERCURY BY SW7470A</b>		<b>Method:SW7470A</b>		Prep:SW7470A / 30-May-2023		Analyst: JS
Mercury	ND		0.000200	mg/L	1	30-May-2023 15:27

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

ALS Houston, US

Date: 30-May-23

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP

Project: 3E09006

WorkOrder: HS23051001

<b>Batch ID:</b> 194374	<b>Start Date:</b> 26 May 2023 09:00	<b>End Date:</b> 26 May 2023 09:00
<b>Method:</b> WATER - SW3010A	<b>Prep Code:</b> 3010A	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23051001-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

<b>Batch ID:</b> 194442	<b>Start Date:</b> 30 May 2023 08:00	<b>End Date:</b> 30 May 2023 08:00
<b>Method:</b> MERCURY PREP BY 7470A- WATER	<b>Prep Code:</b> HG_WPR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23051001-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US

Date: 30-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E09006  
**WorkOrder:** HS23051001

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> 194374 ( 0 )		<b>Test Name :</b> ICP-MS METALS BY SW6020A			<b>Matrix:</b> Water	
HS23051001-01	3E09006-01	08 May 2023 15:05		26 May 2023 09:00	26 May 2023 14:30	1
<b>Batch ID:</b> 194442 ( 0 )		<b>Test Name :</b> MERCURY BY SW7470A			<b>Matrix:</b> Water	
HS23051001-01	3E09006-01	08 May 2023 15:05		30 May 2023 08:00	30 May 2023 15:27	1

**ALS Houston, US**

Date: 30-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E09006  
**WorkOrder:** HS23051001

**QC BATCH REPORT**

<b>Batch ID:</b> 194374 ( 0 )	<b>Instrument:</b> ICPMS06	<b>Method:</b> ICP-MS METALS BY SW6020A								
<b>MBLK</b>	Sample ID: <b>MBLK-194374</b>	Units: <b>mg/L</b>	Analysis Date: <b>26-May-2023 15:34</b>							
Client ID:	Run ID: <b>ICPMS06_436368</b>	SeqNo: <b>7327131</b>	PrepDate: <b>26-May-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Aluminum	ND	0.0100								
Arsenic	ND	0.00200								
Barium	ND	0.00400								
Boron	ND	0.0200								
Cadmium	ND	0.00200								
Chromium	ND	0.00400								
Cobalt	ND	0.00500								
Copper	ND	0.00200								
Iron	ND	0.200								
Lead	ND	0.00200								
Manganese	ND	0.00500								
Molybdenum	ND	0.00500								
Nickel	ND	0.00200								
Selenium	ND	0.00200								
Silver	ND	0.00200								
Zinc	ND	0.00400								

**ALS Houston, US**

Date: 30-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E09006  
**WorkOrder:** HS23051001

**QC BATCH REPORT**

Batch ID: 194374 ( 0 )		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A						
<b>LCS</b>	Sample ID: <b>LCS-194374</b>	Units: <b>mg/L</b>			Analysis Date: <b>26-May-2023 14:16</b>					
Client ID:	Run ID: <b>ICPMS06_436368</b>	SeqNo: <b>7326954</b>		PrepDate: <b>26-May-2023</b>		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Aluminum	0.09932	0.0100	0.1	0	99.3	80 - 120				
Arsenic	0.04635	0.00200	0.05	0	92.7	80 - 120				
Barium	0.044	0.00400	0.05	0	88.0	80 - 120				
Boron	0.451	0.0200	0.5	0	90.2	80 - 120				
Cadmium	0.04579	0.00200	0.05	0	91.6	80 - 120				
Chromium	0.04333	0.00400	0.05	0	86.7	80 - 120				
Cobalt	0.04431	0.00500	0.05	0	88.6	80 - 120				
Copper	0.0455	0.00200	0.05	0	91.0	80 - 120				
Iron	4.589	0.200	5	0	91.8	80 - 120				
Lead	0.04424	0.00200	0.05	0	88.5	80 - 120				
Manganese	0.04621	0.00500	0.05	0	92.4	80 - 120				
Molybdenum	0.04277	0.00500	0.05	0	85.5	80 - 120				
Nickel	0.04542	0.00200	0.05	0	90.8	80 - 120				
Selenium	0.04838	0.00200	0.05	0	96.8	80 - 120				
Silver	0.04472	0.00200	0.05	0	89.4	80 - 120				
Zinc	0.04705	0.00400	0.05	0	94.1	80 - 120				

ALS Houston, US

Date: 30-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E09006  
**WorkOrder:** HS23051001

**QC BATCH REPORT**

<b>Batch ID:</b> 194374 ( 0 )	<b>Instrument:</b> ICPMS06	<b>Method:</b> ICP-MS METALS BY SW6020A
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MS	Sample ID: HS23051425-01MS	Units: mg/L			Analysis Date: 26-May-2023 14:25					
Client ID:	Run ID: ICPMS06_436368	SeqNo: 7326957	PrepDate: 26-May-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.2688	0.0100	0.1	0.1588	110	80 - 120				
Arsenic	0.04775	0.00200	0.05	0.000898	93.7	80 - 120				
Barium	0.09762	0.00400	0.05	0.05344	88.4	80 - 120				
Boron	0.6071	0.0200	0.5	0.1547	90.5	80 - 120				
Cadmium	0.04602	0.00200	0.05	0.000017	92.0	80 - 120				
Chromium	0.05089	0.00400	0.05	0.006785	88.2	80 - 120				
Cobalt	0.04354	0.00500	0.05	0.000316	86.4	80 - 120				
Copper	0.04444	0.00200	0.05	0.000614	87.6	80 - 120				
Iron	4.8	0.200	5	0.1656	92.7	80 - 120				
Lead	0.04544	0.00200	0.05	0.000552	89.8	80 - 120				
Manganese	0.05799	0.00500	0.05	0.01258	90.8	80 - 120				
Molybdenum	0.0488	0.00500	0.05	0.004227	89.2	80 - 120				
Nickel	0.04416	0.00200	0.05	0.000423	87.5	80 - 120				
Selenium	0.0507	0.00200	0.05	0.001994	97.4	80 - 120				
Silver	0.04506	0.00200	0.05	0.000018	90.1	80 - 120				
Zinc	0.0618	0.00400	0.05	0.01534	92.9	80 - 120				



ALS Houston, US

Date: 30-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E09006  
**WorkOrder:** HS23051001

**QC BATCH REPORT**

<b>Batch ID:</b> 194374 ( 0 )	<b>Instrument:</b> ICPMS06	<b>Method:</b> ICP-MS METALS BY SW6020A
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MSD	Sample ID: HS23051425-01MSD	Units: mg/L			Analysis Date: 26-May-2023 14:26					
Client ID:	Run ID: ICPMS06_436368	SeqNo: 7326958	PrepDate: 26-May-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.2564	0.0100	0.1	0.1588	97.6	80 - 120	0.2688	4.74	20	
Arsenic	0.04796	0.00200	0.05	0.000898	94.1	80 - 120	0.04775	0.424	20	
Barium	0.09768	0.00400	0.05	0.05344	88.5	80 - 120	0.09762	0.0614	20	
Boron	0.6263	0.0200	0.5	0.1547	94.3	80 - 120	0.6071	3.1	20	
Cadmium	0.04626	0.00200	0.05	0.000017	92.5	80 - 120	0.04602	0.527	20	
Chromium	0.05043	0.00400	0.05	0.006785	87.3	80 - 120	0.05089	0.898	20	
Cobalt	0.04323	0.00500	0.05	0.000316	85.8	80 - 120	0.04354	0.705	20	
Copper	0.04433	0.00200	0.05	0.000614	87.4	80 - 120	0.04444	0.239	20	
Iron	4.744	0.200	5	0.1656	91.6	80 - 120	4.8	1.17	20	
Lead	0.04548	0.00200	0.05	0.000552	89.9	80 - 120	0.04544	0.101	20	
Manganese	0.05776	0.00500	0.05	0.01258	90.4	80 - 120	0.05799	0.389	20	
Molybdenum	0.04846	0.00500	0.05	0.004227	88.5	80 - 120	0.0488	0.705	20	
Nickel	0.04383	0.00200	0.05	0.000423	86.8	80 - 120	0.04416	0.75	20	
Selenium	0.05023	0.00200	0.05	0.001994	96.5	80 - 120	0.0507	0.931	20	
Silver	0.0449	0.00200	0.05	0.000018	89.8	80 - 120	0.04506	0.358	20	
Zinc	0.0611	0.00400	0.05	0.01534	91.5	80 - 120	0.0618	1.14	20	

ALS Houston, US

Date: 30-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E09006  
**WorkOrder:** HS23051001

**QC BATCH REPORT**

<b>Batch ID:</b> 194374 ( 0 )	<b>Instrument:</b> ICPMS06	<b>Method:</b> ICP-MS METALS BY SW6020A
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<b>PDS</b>	Sample ID: <b>HS23051425-01PDS</b>	Units: <b>mg/L</b>	Analysis Date: <b>26-May-2023 14:28</b>						
Client ID:	Run ID: <b>ICPMS06_436368</b>	SeqNo: <b>7326959</b>	PrepDate: <b>26-May-2023</b> DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Aluminum	0.2755	0.0100	0.1	0.1588	117	75 - 125			
Arsenic	0.09134	0.00200	0.1	0.000898	90.4	75 - 125			
Barium	0.1386	0.00400	0.1	0.05344	85.1	75 - 125			
Boron	0.6049	0.0200	0.5	0.1547	90.0	75 - 125			
Cadmium	0.08797	0.00200	0.1	0.000017	88.0	75 - 125			
Chromium	0.09115	0.00400	0.1	0.006785	84.4	75 - 125			
Cobalt	0.0835	0.00500	0.1	0.000316	83.2	75 - 125			
Copper	0.08522	0.00200	0.1	0.000614	84.6	75 - 125			
Iron	8.993	0.200	10	0.1656	88.3	75 - 125			
Lead	0.08753	0.00200	0.1	0.000552	87.0	75 - 125			
Manganese	0.09957	0.00500	0.1	0.01258	87.0	75 - 125			
Molybdenum	0.08914	0.00500	0.1	0.004227	84.9	75 - 125			
Nickel	0.08461	0.00200	0.1	0.000423	84.2	75 - 125			
Selenium	0.09697	0.00200	0.1	0.001994	95.0	75 - 125			
Silver	0.08868	0.00200	0.1	0.000018	88.7	75 - 125			
Zinc	0.1179	0.00400	0.1	0.01534	103	75 - 125			

ALS Houston, US

Date: 30-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E09006  
**WorkOrder:** HS23051001

**QC BATCH REPORT**

**Batch ID:** 194374 ( 0 )      **Instrument:** ICPMS06      **Method:** ICP-MS METALS BY SW6020A

SD	Sample ID: HS23051425-01SD	Units: mg/L			Analysis Date: 26-May-2023 14:23					
Client ID:	Run ID: ICPMS06_436368	SeqNo: 7326956	PrepDate: 26-May-2023	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Aluminum	0.1745	0.0500					0.1588	9.91	10	
Arsenic	ND	0.0100					0.000898	0	10	
Barium	0.05115	0.0200					0.05344	4.29	10	
Boron	0.1697	0.100					0.1547	9.67	10	
Cadmium	ND	0.0100					0.000017	0	10	
Chromium	0.006749	0.0200					0.006785	0	10	J
Cobalt	ND	0.0250					0.000316	0	10	
Copper	ND	0.0100					0.000614	0	10	
Iron	0.1711	1.00					0.1656	0	10	J
Lead	ND	0.0100					0.000552	0	10	
Manganese	0.01246	0.0250					0.01258	0	10	J
Molybdenum	0.00412	0.0250					0.004227	0	10	J
Nickel	ND	0.0100					0.000423	0	10	
Selenium	ND	0.0100					0.001994	0	10	
Silver	ND	0.0100					0.000018	0	10	
Zinc	0.01631	0.0200					0.01534	0	10	J

The following samples were analyzed in this batch: HS23051001-01

ALS Houston, US

Date: 30-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E09006  
**WorkOrder:** HS23051001

**QC BATCH REPORT**

<b>Batch ID:</b> 194442 ( 0 )	<b>Instrument:</b> HG04	<b>Method:</b> MERCURY BY SW7470A
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<b>MBLK</b>	Sample ID: <b>MBLK-194442</b>	Units: <b>mg/L</b>	Analysis Date: <b>30-May-2023 15:19</b>							
Client ID:	Run ID: <b>HG04_436592</b>	SeqNo: <b>7331009</b>	PrepDate: <b>30-May-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury ND 0.000200

<b>LCS</b>	Sample ID: <b>LCS-194442</b>	Units: <b>mg/L</b>	Analysis Date: <b>30-May-2023 15:25</b>							
Client ID:	Run ID: <b>HG04_436592</b>	SeqNo: <b>7331010</b>	PrepDate: <b>30-May-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury 0.00445 0.000200 0.005 0 89.0 80 - 120

<b>MS</b>	Sample ID: <b>HS23051180-04MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>30-May-2023 15:34</b>							
Client ID:	Run ID: <b>HG04_436592</b>	SeqNo: <b>7331015</b>	PrepDate: <b>30-May-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury 0.00472 0.000200 0.005 -0.000009 94.6 75 - 125

<b>MSD</b>	Sample ID: <b>HS23051180-04MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>30-May-2023 15:36</b>							
Client ID:	Run ID: <b>HG04_436592</b>	SeqNo: <b>7331016</b>	PrepDate: <b>30-May-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury 0.00478 0.000200 0.005 -0.000009 95.8 75 - 125 0.00472 1.26 20

The following samples were analyzed in this batch: HS23051001-01

**ALS Houston, US**

Date: 30-May-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3E09006  
**WorkOrder:** HS23051001

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	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

<b>Acronym</b>	<b>Description</b>
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: 30-May-23

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**CERTIFICATIONS,ACCREDITATIONS & LICENSES**

<b>Agency</b>	<b>Number</b>	<b>Expire Date</b>
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: 30-May-23

Sample Receipt Checklist

Work Order ID: HS23051001

Date/Time Received: 22-May-2023 10:50

Client Name: Permian Basin Lab

Received by: Malcolm Burleson

Completed By: /S/ Niles D. Ranchod 16-May-2023 10:46 Reviewed by: /S/ Anna Kinchen 17-May-2023 11:22
eSignature Date/Time eSignature Date/Time

Matrices: Soil

Carrier name: FedEx Priority Overnight

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

Temperature(s)/Thermometer(s): 3.0C/2.9C UC/C IR 31
Cooler(s)/Kit(s): RED
Date/Time sample(s) sent to storage: 05/12/2023 18:00
Water - VOA vials have zero headspace? Yes [ ] No [ ] No VOA vials submitted [checked]
Water - pH acceptable upon receipt? Yes [checked] No [ ] N/A [ ]
pH adjusted? Yes [ ] No [checked] N/A [ ]

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments: [ ]

Corrective Action: [ ]



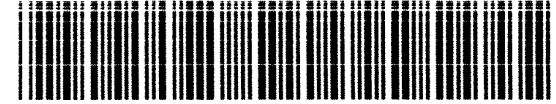
CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

HS23051001

Permian Basin Environmental Lab, LP
3E09006



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
Sampler Signature: N/A
e-mail: brentbarron@pbelab.com

Report Format: X Standard [ ] TRRP [ ] NPDES

Table with columns: ORDER #, LAB # (lab use only), FIELD CODE, Beginning Depth, Ending Depth, Date Sampled, Time Sampled, Field Filtered, Total # of Containers, ICE, HNO3 250 poly 1, HCl 3 40mL VOA, H2SO4 1 AMBER 500/250POLY, NaOH / Ascorbic Acid 250ML P, Na2S2O3, NONE, NONE 3 AMBER VOAA VIALS, Matrix, Analyze For, 24 HOUR, STANDARD. Includes data row for field code 3E09006-01.

SPECIAL INSTRUCTIONS: Laboratory Comments table with columns for Date, Time, Received by, and various checkboxes for sample integrity and delivery.



ORIGIN ID:MAFA (432) 866-7235  
 PBE LAB  
 1400 RANKIN HWY  
 MIDLAND TX 79701  
 UNITED STATES US

SHIP DATE: 11MAY23  
 ACTWGT: 50.00 LB  
 CAD: 107136846INLET4610

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

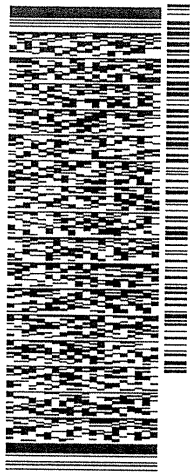
**HOUSTON TX 77099**

(281) 530-5615  
 INV  
 REF

DEPT

BILL RECIPIENT

593J3/2BC3/FE20

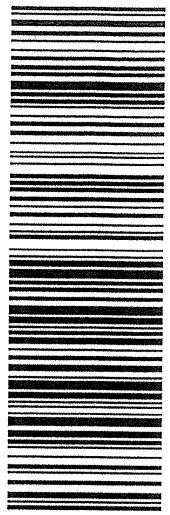


TRK# 7721 1877 8157  
 0207

**FRI - 12 MAY 4:30P**  
**STANDARD OVERNIGHT**

**AB SGRA**

77099  
 TX:US IAH



*Red*

*1234567890*

**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.  
 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.

**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: 97-04  
Project Number: TNM 97-04  
Location: Lea County, NM  
Lab Order Number: 3H31011



**Current Certification**

Report Date: 09/28/23

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

Project: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Post-Metals	3H31011-01	Water	08/30/23 11:05	08-31-2023 08:22

Post Metals and PAH 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](https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf)

Unfortunately due to a shipping/scheduling error the PAHs were extracted 1 day outside of the holding time. The Client advised to proceed with the reporting of the PAHs. All PAHs were non-detect and had been kept at < 6 Degrees C until time of extraction.

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

Project: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**Post-Metals**  
**3H31011-01 (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	P310105	09/01/23 16:22	09/03/23 14:33	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P310105	09/01/23 16:22	09/03/23 14:33	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P310105	09/01/23 16:22	09/03/23 14:33	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P310105	09/01/23 16:22	09/03/23 14:33	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P310105	09/01/23 16:22	09/03/23 14:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	80-120		P310105	09/01/23 16:22	09/03/23 14:33	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.2 %	80-120		P310105	09/01/23 16:22	09/03/23 14:33	EPA 8021B	

**Total Metals by EPA / Standard Methods**

Silver	ND	0.00200	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	EPA 6020A	SUB-13
<b>Aluminum</b>	<b>0.0361</b>	0.0100	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	EPA 200.8	SUB-13
<b>Arsenic</b>	<b>0.00549</b>	0.00200	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	EPA 6020A	SUB-13
<b>Boron</b>	<b>0.126</b>	0.0200	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	SW846-6020A	SUB-13
<b>Barium</b>	<b>0.166</b>	0.00400	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	EPA 6020A	SUB-13
Cadmium	ND	0.00200	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	EPA 6020A	SUB-13
Cobalt	ND	0.00500	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	EPA 6020A	SUB-13
Chromium	ND	0.00400	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	EPA 6020A	SUB-13
<b>Copper</b>	<b>0.0229</b>	0.00200	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	EPA 6020A	SUB-13
<b>Iron</b>	<b>1.01</b>	0.200	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	EPA 6020A	SUB-13
Mercury	ND	0.000200	ug/l	1	P312807	09/08/23 16:00	09/08/23 13:36	EPA 7470A	SUB-13
<b>Manganese</b>	<b>0.167</b>	0.00500	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	EPA 6020A	SUB-13
Molybdenum	ND	0.00500	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	EPA 6020A	SUB-13
<b>Nickel</b>	<b>0.0126</b>	0.00200	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	EPA 6020A	SUB-13
Lead	ND	0.00200	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	EPA 6020A	SUB-13
Selenium	ND	0.00200	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	EPA 6020A	SUB-13
<b>Zinc</b>	<b>0.521</b>	0.00400	mg/L	1	P312807	09/11/23 09:00	09/11/23 22:33	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: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**Post-Metals**  
**3H31011-01 (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	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
2-Methylnaphthalene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Acenaphthene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Acenaphthylene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Anthracene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Benzo (a) anthracene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Benzo (a) pyrene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Benzo (b) fluoranthene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Benzo (g,h,i) perylene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Benzo (k) fluoranthene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Chrysene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Dibenzo (a,h) anthracene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Dibenzofuran	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Fluoranthene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Fluorene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Indeno (1,2,3-cd) pyrene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Naphthalene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Phenanthrene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, SUB-13
Pyrene	ND	0.11	mg/L	1	P312807	09/07/23 09:00	09/11/23 18:55	8270C	O-05, 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: 97-04  
 Project Number: TNM 97-04  
 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 P310105 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P310105-BLK1)**

Prepared: 09/01/23 Analyzed: 09/03/23

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	0.118		"	0.120		98.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.1	80-120			

**LCS (P310105-BS1)**

Prepared: 09/01/23 Analyzed: 09/03/23

Benzene	0.0914	0.00100	mg/L	0.100		91.4	80-120			
Toluene	0.0945	0.00100	"	0.100		94.5	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.0951	0.00100	"	0.100		95.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.1	80-120			

**LCS Dup (P310105-BSD1)**

Prepared: 09/01/23 Analyzed: 09/03/23

Benzene	0.0915	0.00100	mg/L	0.100		91.5	80-120	0.153	20	
Toluene	0.0925	0.00100	"	0.100		92.5	80-120	2.18	20	
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120	1.40	20	
Xylene (p/m)	0.214	0.00200	"	0.200		107	80-120	1.85	20	
Xylene (o)	0.0936	0.00100	"	0.100		93.6	80-120	1.54	20	
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.7	80-120			

**Calibration Blank (P310105-CCB1)**

Prepared: 09/01/23 Analyzed: 09/03/23

Benzene	0.0900		ug/l							
Toluene	0.110		"							
Ethylbenzene	0.170		"							
Xylene (p/m)	0.190		"							
Xylene (o)	0.150		"							
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.0912		"	0.120		76.0	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: 97-04  
 Project Number: TNM 97-04  
 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 P3I0105 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Blank (P3I0105-CCB2)**

Prepared: 09/01/23 Analyzed: 09/03/23

Benzene	0.220		ug/l							
Toluene	0.170		"							
Ethylbenzene	0.260		"							
Xylene (p/m)	0.260		"							
Xylene (o)	0.250		"							
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	80-120			

**Calibration Check (P3I0105-CCV1)**

Prepared: 09/01/23 Analyzed: 09/03/23

Benzene	0.0951	0.00100	mg/L	0.100		95.1	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.0985	0.00100	"	0.100		98.5	80-120			
Xylene (p/m)	0.230	0.00200	"	0.200		115	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	80-120			

**Calibration Check (P3I0105-CCV2)**

Prepared: 09/01/23 Analyzed: 09/03/23

Benzene	0.0957	0.00100	mg/L	0.100		95.7	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.226	0.00200	"	0.200		113	80-120			
Xylene (o)	0.0998	0.00100	"	0.100		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	80-120			

**Calibration Check (P3I0105-CCV3)**

Prepared: 09/01/23 Analyzed: 09/03/23

Benzene	0.0922	0.00100	mg/L	0.100		92.2	80-120			
Toluene	0.0973	0.00100	"	0.100		97.3	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.219	0.00200	"	0.200		110	80-120			
Xylene (o)	0.0985	0.00100	"	0.100		98.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.0	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: 97-04  
 Project Number: TNM 97-04  
 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 P3I0105 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P3I0105-MS1)</b>	<b>Source: 3H25001-01</b>			<b>Prepared: 09/01/23 Analyzed: 09/03/23</b>						
Benzene	0.0925	0.00100	mg/L	0.100	ND	92.5	80-120			
Toluene	0.0933	0.00100	"	0.100	ND	93.3	80-120			
Ethylbenzene	0.104	0.00100	"	0.100	ND	104	80-120			
Xylene (p/m)	0.206	0.00200	"	0.200	ND	103	80-120			
Xylene (o)	0.0899	0.00100	"	0.100	ND	89.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	80-120			

<b>Matrix Spike Dup (P3I0105-MSD1)</b>	<b>Source: 3H25001-01</b>			<b>Prepared: 09/01/23 Analyzed: 09/03/23</b>						
Benzene	0.0879	0.00100	mg/L	0.100	ND	87.9	80-120	5.15	20	
Toluene	0.0899	0.00100	"	0.100	ND	89.9	80-120	3.70	20	
Ethylbenzene	0.102	0.00100	"	0.100	ND	102	80-120	1.83	20	
Xylene (p/m)	0.202	0.00200	"	0.200	ND	101	80-120	1.81	20	
Xylene (o)	0.0888	0.00100	"	0.100	ND	88.8	80-120	1.21	20	
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		96.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.7	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  
10 Desta Dr STE 150E  
Midland TX, 79705

Project: 97-04  
Project Number: TNM 97-04  
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.
- 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: 9/28/2023

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





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10450 Stancliff Rd. Suite 210  
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September 12, 2023

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

Work Order: **HS23090284**

Laboratory Results for: **3H31011**

Dear Brent Barron,

ALS Environmental received 1 sample(s) on Sep 06, 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: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**Work Order:** HS23090284

**SAMPLE SUMMARY**

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Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23090284-01	3H31011-1	Water		30-Aug-2023 11:05	06-Sep-2023 09:40	<input type="checkbox"/>

**ALS Houston, US**

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**Work Order:** HS23090284

**CASE NARRATIVE**

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**GCMS Semivolatiles by Method SW8270**

**Batch ID: 200085**

**Sample ID: 3H31011-1 (HS23090284-01)**

- Sample was analyzed outside of the holding time at the request of the client. Results should be considered estimated.

---

**Metals by Method SW6020A**

**Batch ID: 200174**

**Sample ID: HS23080717-01MS**

- MS and MSD are for an unrelated sample

**Sample ID: HS23080717-02MS**

- MS and MSD are for an unrelated sample

---

**Metals by Method SW7470A**

**Batch ID: 200125**

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

**ALS Houston, US**

Date: 12-Sep-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3H31011  
 Sample ID: 3H31011-1  
 Collection Date: 30-Aug-2023 11:05

**ANALYTICAL REPORT**

WorkOrder:HS23090284  
 Lab ID:HS23090284-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>LOW-LEVEL PAHS - 8270D</b>		<b>Method:SW8270</b>		Prep:SW3511 / 07-Sep-2023		Analyst: JLJ
1-Methylnaphthalene	ND	Hn	0.106	ug/L	1	11-Sep-2023 18:55
2-Methylnaphthalene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Acenaphthene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Acenaphthylene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Anthracene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Benz(a)anthracene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Benzo(a)pyrene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Benzo(b)fluoranthene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Benzo(g,h,i)perylene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Benzo(k)fluoranthene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Chrysene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Dibenz(a,h)anthracene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Fluoranthene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Fluorene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Indeno(1,2,3-cd)pyrene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Naphthalene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Phenanthrene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Pyrene	ND	H	0.106	ug/L	1	11-Sep-2023 18:55
Surr: 2-Fluorobiphenyl	53.1		32-130	%REC	1	11-Sep-2023 18:55
Surr: 4-Terphenyl-d14	60.9		40-135	%REC	1	11-Sep-2023 18:55
Surr: Nitrobenzene-d5	53.9		45-142	%REC	1	11-Sep-2023 18:55
<b>ICP-MS METALS BY SW6020A</b>		<b>Method:SW6020A</b>		Prep:SW3010A / 11-Sep-2023		Analyst: JC
<b>Aluminum</b>	<b>0.0361</b>		<b>0.0100</b>	<b>mg/L</b>	1	11-Sep-2023 22:33
<b>Arsenic</b>	<b>0.00549</b>		<b>0.00200</b>	<b>mg/L</b>	1	11-Sep-2023 22:33
<b>Barium</b>	<b>0.166</b>		<b>0.00400</b>	<b>mg/L</b>	1	11-Sep-2023 22:33
<b>Boron</b>	<b>0.126</b>		<b>0.0200</b>	<b>mg/L</b>	1	11-Sep-2023 22:33
Cadmium	ND		0.00200	mg/L	1	11-Sep-2023 22:33
Chromium	ND		0.00400	mg/L	1	11-Sep-2023 22:33
Cobalt	ND		0.00500	mg/L	1	11-Sep-2023 22:33
<b>Copper</b>	<b>0.0229</b>		<b>0.00200</b>	<b>mg/L</b>	1	11-Sep-2023 22:33
<b>Iron</b>	<b>1.01</b>		<b>0.200</b>	<b>mg/L</b>	1	11-Sep-2023 22:33
Lead	ND		0.00200	mg/L	1	11-Sep-2023 22:33
<b>Manganese</b>	<b>0.167</b>		<b>0.00500</b>	<b>mg/L</b>	1	11-Sep-2023 22:33
Molybdenum	ND		0.00500	mg/L	1	11-Sep-2023 22:33
<b>Nickel</b>	<b>0.0126</b>		<b>0.00200</b>	<b>mg/L</b>	1	11-Sep-2023 22:33
Selenium	ND		0.00200	mg/L	1	11-Sep-2023 22:33
Silver	ND		0.00200	mg/L	1	11-Sep-2023 22:33
<b>Zinc</b>	<b>0.521</b>		<b>0.00400</b>	<b>mg/L</b>	1	11-Sep-2023 22:33

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

**ALS Houston, US**

Date: 12-Sep-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3H31011  
 Sample ID: 3H31011-1  
 Collection Date: 30-Aug-2023 11:05

**ANALYTICAL REPORT**

WorkOrder:HS23090284  
 Lab ID:HS23090284-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>MERCURY BY SW7470A</b>		<b>Method:SW7470A</b>			Prep:SW7470A / 08-Sep-2023	Analyst: JS
Mercury	ND		0.000200	mg/L	1	08-Sep-2023 13:36

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

ALS Houston, US

Date: 12-Sep-23

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP

Project: 3H31011

WorkOrder: HS23090284

<b>Batch ID:</b> 200085	<b>Start Date:</b> 07 Sep 2023 16:00	<b>End Date:</b> 07 Sep 2023 16:00
<b>Method:</b> SW3511	<b>Prep Code:</b> 3511_PAH	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23090284-01		31.14 (mL)	2 (mL)	0.06423	40 mL Amber

<b>Batch ID:</b> 200125	<b>Start Date:</b> 08 Sep 2023 08:30	<b>End Date:</b> 08 Sep 2023 08:30
<b>Method:</b> MERCURY PREP BY 7470A- WATER	<b>Prep Code:</b> HG_WPR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23090284-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

<b>Batch ID:</b> 200174	<b>Start Date:</b> 11 Sep 2023 09:00	<b>End Date:</b> 11 Sep 2023 09:00
<b>Method:</b> WATER - SW3010A	<b>Prep Code:</b> 3010A	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23090284-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2



ALS Houston, US

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> 200085 ( 0 )		<b>Test Name :</b> LOW-LEVEL PAHS - 8270D			<b>Matrix:</b> Water	
HS23090284-01	3H31011-1	30 Aug 2023 11:05		07 Sep 2023 16:00	11 Sep 2023 18:55	1
<b>Batch ID:</b> 200125 ( 0 )		<b>Test Name :</b> MERCURY BY SW7470A			<b>Matrix:</b> Water	
HS23090284-01	3H31011-1	30 Aug 2023 11:05		08 Sep 2023 08:30	08 Sep 2023 13:36	1
<b>Batch ID:</b> 200174 ( 0 )		<b>Test Name :</b> ICP-MS METALS BY SW6020A			<b>Matrix:</b> Water	
HS23090284-01	3H31011-1	30 Aug 2023 11:05		11 Sep 2023 09:00	11 Sep 2023 22:33	1

ALS Houston, US

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QC BATCH REPORT**

<b>Batch ID:</b> 200125 ( 0 )	<b>Instrument:</b> HG04	<b>Method:</b> MERCURY BY SW7470A
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<b>MBLK</b>	Sample ID: <b>MBLK-200125</b>	Units: <b>mg/L</b>	Analysis Date: <b>08-Sep-2023 13:11</b>							
Client ID:	Run ID: <b>HG04_445833</b>	SeqNo: <b>7532504</b>	PrepDate: <b>08-Sep-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury ND 0.000200

<b>LCS</b>	Sample ID: <b>LCS-200125</b>	Units: <b>mg/L</b>	Analysis Date: <b>08-Sep-2023 13:16</b>							
Client ID:	Run ID: <b>HG04_445833</b>	SeqNo: <b>7532505</b>	PrepDate: <b>08-Sep-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00557 0.000200 0.005 0 111 80 - 120

<b>MS</b>	Sample ID: <b>HS23090219-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>08-Sep-2023 13:24</b>							
Client ID:	Run ID: <b>HG04_445833</b>	SeqNo: <b>7532510</b>	PrepDate: <b>08-Sep-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00561 0.000200 0.005 0.000004 112 75 - 125

<b>MSD</b>	Sample ID: <b>HS23090219-01MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>08-Sep-2023 13:26</b>							
Client ID:	Run ID: <b>HG04_445833</b>	SeqNo: <b>7532511</b>	PrepDate: <b>08-Sep-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00498 0.000200 0.005 0.000004 99.5 75 - 125 0.00561 11.9 20

The following samples were analyzed in this batch: HS23090284-01

**ALS Houston, US**

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QC BATCH REPORT**

<b>Batch ID:</b> 200174 ( 0 )		<b>Instrument:</b> ICPMS06		<b>Method:</b> ICP-MS METALS BY SW6020A					
<b>MBLK</b>	Sample ID: <b>MBLKF1-200174</b>	Units: <b>mg/L</b>		Analysis Date: <b>11-Sep-2023 21:52</b>					
Client ID:	Run ID: <b>ICPMS06_445942</b>	SeqNo: <b>7536738</b>		PrepDate: <b>11-Sep-2023</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Aluminum	0.04219	0.0100							
Arsenic	ND	0.00200							
Barium	ND	0.00400							
Boron	ND	0.0200							
Cadmium	ND	0.00200							
Chromium	ND	0.00400							
Cobalt	ND	0.00500							
Copper	ND	0.00200							
Iron	ND	0.200							
Lead	ND	0.00200							
Manganese	ND	0.00500							
Molybdenum	ND	0.00500							
Nickel	ND	0.00200							
Selenium	ND	0.00200							
Silver	ND	0.00200							
Zinc	ND	0.00400							

**ALS Houston, US**

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QC BATCH REPORT**

<b>Batch ID:</b> 200174 ( 0 )		<b>Instrument:</b> ICPMS06		<b>Method:</b> ICP-MS METALS BY SW6020A					
<b>MBLK</b>	Sample ID: <b>MBLK-200174</b>	Units: <b>mg/L</b>		Analysis Date: <b>11-Sep-2023 21:50</b>					
Client ID:	Run ID: <b>ICPMS06_445942</b>	SeqNo: <b>7536737</b>		PrepDate: <b>11-Sep-2023</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Aluminum	ND	0.0100							
Arsenic	ND	0.00200							
Barium	ND	0.00400							
Boron	ND	0.0200							
Cadmium	ND	0.00200							
Chromium	ND	0.00400							
Cobalt	ND	0.00500							
Copper	ND	0.00200							
Iron	ND	0.200							
Lead	ND	0.00200							
Manganese	ND	0.00500							
Molybdenum	ND	0.00500							
Nickel	ND	0.00200							
Selenium	ND	0.00200							
Silver	ND	0.00200							
Zinc	ND	0.00400							

**ALS Houston, US**

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QC BATCH REPORT**

<b>Batch ID:</b> 200174 ( 0 )	<b>Instrument:</b> ICPMS06	<b>Method:</b> ICP-MS METALS BY SW6020A
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<b>LCS</b>	Sample ID: <b>LCS-200174</b>	Units: <b>mg/L</b>	Analysis Date: <b>11-Sep-2023 21:54</b>							
Client ID:	Run ID: <b>ICPMS06_445942</b>	SeqNo: <b>7536739</b>	PrepDate: <b>11-Sep-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Aluminum	0.1144	0.0100	0.1	0	114	80 - 120				
Arsenic	0.05279	0.00200	0.05	0	106	80 - 120				
Barium	0.05092	0.00400	0.05	0	102	80 - 120				
Boron	0.5317	0.0200	0.5	0	106	80 - 120				
Cadmium	0.05258	0.00200	0.05	0	105	80 - 120				
Chromium	0.0513	0.00400	0.05	0	103	80 - 120				
Cobalt	0.05243	0.00500	0.05	0	105	80 - 120				
Copper	0.05284	0.00200	0.05	0	106	80 - 120				
Iron	5.166	0.200	5	0	103	80 - 120				
Lead	0.05281	0.00200	0.05	0	106	80 - 120				
Manganese	0.0521	0.00500	0.05	0	104	80 - 120				
Molybdenum	0.05012	0.00500	0.05	0	100	80 - 120				
Nickel	0.05217	0.00200	0.05	0	104	80 - 120				
Selenium	0.05322	0.00200	0.05	0	106	80 - 120				
Silver	0.0515	0.00200	0.05	0	103	80 - 120				
Zinc	0.05529	0.00400	0.05	0	111	80 - 120				

ALS Houston, US

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QC BATCH REPORT**

Batch ID: 200174 ( 0 )		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A						
MS	Sample ID: HS23080717-02MS	Units: mg/L			Analysis Date: 11-Sep-2023 22:14					
Client ID:	Run ID: ICPMS06_445942	SeqNo: 7536695	PrepDate: 11-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.106	0.0100	0.1	0.006627	99.3	80 - 120				
Arsenic	14.45	0.00200	0.05	14.42	61.5	80 - 120				SEO
Barium	0.08494	0.00400	0.05	0.03646	97.0	80 - 120				
Boron	0.6014	0.0200	0.5	0.1136	97.5	80 - 120				
Cadmium	0.04955	0.00200	0.05	0.000029	99.0	80 - 120				
Chromium	0.04895	0.00400	0.05	0.000437	97.0	80 - 120				
Cobalt	0.04963	0.00500	0.05	0.001055	97.1	80 - 120				
Copper	0.04813	0.00200	0.05	0.000325	95.6	80 - 120				
Iron	8.282	0.200	5	3.366	98.3	80 - 120				
Lead	0.05034	0.00200	0.05	0.000113	100	80 - 120				
Manganese	0.1925	0.00500	0.05	0.1436	97.7	80 - 120				
Molybdenum	0.05166	0.00500	0.05	0.001831	99.7	80 - 120				
Nickel	0.05483	0.00200	0.05	0.006116	97.4	80 - 120				
Selenium	0.04843	0.00200	0.05	0.000279	96.3	80 - 120				
Silver	0.04759	0.00200	0.05	0.000017	95.1	80 - 120				
Zinc	0.05712	0.00400	0.05	0.003107	108	80 - 120				

ALS Houston, US

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QC BATCH REPORT**

<b>Batch ID:</b> 200174 ( 0 )	<b>Instrument:</b> ICPMS06	<b>Method:</b> ICP-MS METALS BY SW6020A
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<b>MS</b>	Sample ID: <b>HS23080717-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>11-Sep-2023 22:04</b>							
Client ID:	Run ID: <b>ICPMS06_445942</b>	SeqNo: <b>7536690</b>	PrepDate: <b>11-Sep-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Aluminum	0.1289	0.0100	0.1	0.02697	102	80 - 120				
Arsenic	2.44	0.00200	0.05	2.568	-258	80 - 120				SEO
Barium	0.08344	0.00400	0.05	0.03438	98.1	80 - 120				
Boron	0.6255	0.0200	0.5	0.154	94.3	80 - 120				
Cadmium	0.05061	0.00200	0.05	0.000002	101	80 - 120				
Chromium	0.04882	0.00400	0.05	0.000888	95.9	80 - 120				
Cobalt	0.04906	0.00500	0.05	0.000224	97.7	80 - 120				
Copper	0.04934	0.00200	0.05	0.00039	97.9	80 - 120				
Iron	4.888	0.200	5	0.02423	97.3	80 - 120				
Lead	0.05036	0.00200	0.05	0.000041	101	80 - 120				
Manganese	0.05015	0.00500	0.05	0.001595	97.1	80 - 120				
Molybdenum	0.05157	0.00500	0.05	0.001315	101	80 - 120				
Nickel	0.0499	0.00200	0.05	0.003369	93.1	80 - 120				
Selenium	0.05075	0.00200	0.05	0.000777	99.9	80 - 120				
Silver	0.04939	0.00200	0.05	0.000006	98.8	80 - 120				
Zinc	0.05082	0.00400	0.05	0.002102	97.4	80 - 120				

ALS Houston, US

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QC BATCH REPORT**

Batch ID: 200174 ( 0 )		Instrument: ICPMS06			Method: ICP-MS METALS BY SW6020A					
MSD	Sample ID: HS23080717-02MSD	Units: mg/L			Analysis Date: 11-Sep-2023 22:16					
Client ID:	Run ID: ICPMS06_445942	SeqNo: 7536696		PrepDate: 11-Sep-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.106	0.0100	0.1	0.006627	99.4	80 - 120	0.106	0.00377	20	
Arsenic	14.39	0.00200	0.05	14.42	-66.8	80 - 120	14.45	0.445	20	SEO
Barium	0.08526	0.00400	0.05	0.03646	97.6	80 - 120	0.08494	0.371	20	
Boron	0.61	0.0200	0.5	0.1136	99.3	80 - 120	0.6014	1.43	20	
Cadmium	0.04988	0.00200	0.05	0.000029	99.7	80 - 120	0.04955	0.672	20	
Chromium	0.04959	0.00400	0.05	0.000437	98.3	80 - 120	0.04895	1.3	20	
Cobalt	0.05003	0.00500	0.05	0.001055	98.0	80 - 120	0.04963	0.805	20	
Copper	0.04881	0.00200	0.05	0.000325	97.0	80 - 120	0.04813	1.39	20	
Iron	8.382	0.200	5	3.366	100	80 - 120	8.282	1.2	20	
Lead	0.05026	0.00200	0.05	0.000113	100	80 - 120	0.05034	0.171	20	
Manganese	0.1927	0.00500	0.05	0.1436	98.3	80 - 120	0.1925	0.148	20	
Molybdenum	0.05071	0.00500	0.05	0.001831	97.8	80 - 120	0.05166	1.86	20	
Nickel	0.05412	0.00200	0.05	0.006116	96.0	80 - 120	0.05483	1.31	20	
Selenium	0.04714	0.00200	0.05	0.000279	93.7	80 - 120	0.04843	2.69	20	
Silver	0.04777	0.00200	0.05	0.000017	95.5	80 - 120	0.04759	0.378	20	
Zinc	0.05607	0.00400	0.05	0.003107	106	80 - 120	0.05712	1.87	20	



ALS Houston, US

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QC BATCH REPORT**

Batch ID: 200174 ( 0 )		Instrument: ICPMS06			Method: ICP-MS METALS BY SW6020A					
MSD	Sample ID: HS23080717-01MSD	Units: mg/L			Analysis Date: 11-Sep-2023 22:06					
Client ID:	Run ID: ICPMS06_445942	SeqNo: 7536691		PrepDate: 11-Sep-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1228	0.0100	0.1	0.02697	95.8	80 - 120	0.1289	4.9	20	
Arsenic	2.441	0.00200	0.05	2.568	-254	80 - 120	2.44	0.0772	20	SEO
Barium	0.08402	0.00400	0.05	0.03438	99.3	80 - 120	0.08344	0.701	20	
Boron	0.6277	0.0200	0.5	0.154	94.7	80 - 120	0.6255	0.364	20	
Cadmium	0.05196	0.00200	0.05	0.000002	104	80 - 120	0.05061	2.65	20	
Chromium	0.04988	0.00400	0.05	0.000888	98.0	80 - 120	0.04882	2.15	20	
Cobalt	0.04973	0.00500	0.05	0.000224	99.0	80 - 120	0.04906	1.35	20	
Copper	0.05001	0.00200	0.05	0.00039	99.2	80 - 120	0.04934	1.34	20	
Iron	5.003	0.200	5	0.02423	99.6	80 - 120	4.888	2.33	20	
Lead	0.05151	0.00200	0.05	0.000041	103	80 - 120	0.05036	2.26	20	
Manganese	0.05096	0.00500	0.05	0.001595	98.7	80 - 120	0.05015	1.6	20	
Molybdenum	0.0528	0.00500	0.05	0.001315	103	80 - 120	0.05157	2.36	20	
Nickel	0.04967	0.00200	0.05	0.003369	92.6	80 - 120	0.0499	0.452	20	
Selenium	0.05115	0.00200	0.05	0.000777	101	80 - 120	0.05075	0.781	20	
Silver	0.04969	0.00200	0.05	0.000006	99.4	80 - 120	0.04939	0.606	20	
Zinc	0.05101	0.00400	0.05	0.002102	97.8	80 - 120	0.05082	0.361	20	

**ALS Houston, US**

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QC BATCH REPORT**

**Batch ID:** 200174 ( 0 )      **Instrument:** ICPMS06      **Method:** ICP-MS METALS BY SW6020A

<b>PDS</b>		Sample ID: <b>HS23080717-02PDS</b>			Units: <b>mg/L</b>		Analysis Date: <b>11-Sep-2023 22:18</b>			
Client ID:		Run ID: <b>ICPMS06_445942</b>			SeqNo: <b>7536697</b>		PrepDate: <b>11-Sep-2023</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1155	0.0100	0.1	0.006627	109	75 - 125				
Barium	0.1416	0.00400	0.1	0.03646	105	75 - 125				
Cadmium	0.1061	0.00200	0.1	0	106	75 - 125				
Chromium	0.1054	0.00400	0.1	0.000437	105	75 - 125				
Cobalt	0.105	0.00500	0.1	0.001055	104	75 - 125				
Copper	0.1019	0.00200	0.1	0	102	75 - 125				
Iron	14.03	0.200	10	3.366	107	75 - 125				
Lead	0.1063	0.00200	0.1	0	106	75 - 125				
Manganese	0.2495	0.00500	0.1	0.1436	106	75 - 125				
Molybdenum	0.1054	0.00500	0.1	0.001831	104	75 - 125				
Nickel	0.1096	0.00200	0.1	0.006116	103	75 - 125				
Selenium	0.1107	0.00200	0.1	0	111	75 - 125				
Silver	0.1006	0.00200	0.1	0	101	75 - 125				
Zinc	0.1091	0.00400	0.1	0.003107	106	75 - 125				

<b>PDS</b>		Sample ID: <b>HS23080717-01PDS</b>			Units: <b>mg/L</b>		Analysis Date: <b>11-Sep-2023 22:08</b>			
Client ID:		Run ID: <b>ICPMS06_445942</b>			SeqNo: <b>7536692</b>		PrepDate: <b>11-Sep-2023</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.129	0.0100	0.1	0.02697	102	75 - 125				
Barium	0.1349	0.00400	0.1	0.03438	101	75 - 125				
Boron	0.3842	0.0200	0.25	0.154	92.1	75 - 125				
Cadmium	0.1032	0.00200	0.1	0	103	75 - 125				
Chromium	0.0994	0.00400	0.1	0.000888	98.5	75 - 125				
Cobalt	0.0988	0.00500	0.1	0.000224	98.6	75 - 125				
Copper	0.09923	0.00200	0.1	0	99.2	75 - 125				
Iron	9.953	0.200	10	0.02423	99.3	75 - 125				
Lead	0.101	0.00200	0.1	0	101	75 - 125				
Manganese	0.101	0.00500	0.1	0.001595	99.4	75 - 125				
Molybdenum	0.102	0.00500	0.1	0.001315	101	75 - 125				
Nickel	0.09886	0.00200	0.1	0.003369	95.5	75 - 125				
Selenium	0.1049	0.00200	0.1	0	105	75 - 125				
Silver	0.09865	0.00200	0.1	0	98.6	75 - 125				
Zinc	0.1014	0.00400	0.1	0.002102	99.3	75 - 125				

ALS Houston, US

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QC BATCH REPORT**

<b>Batch ID:</b> 200174 ( 0 )	<b>Instrument:</b> ICPMS06	<b>Method:</b> ICP-MS METALS BY SW6020A
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<b>PDS</b>	Sample ID: <b>HS23080717-02PDS</b>	Units: <b>mg/L</b>	Analysis Date: <b>12-Sep-2023 12:26</b>							
Client ID:	Run ID: <b>ICPMS06_446057</b>	SeqNo: <b>7537865</b>	PrepDate: <b>11-Sep-2023</b> DF: <b>100</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	26.22	0.200	10	14.31	119	75 - 125				

<b>PDS</b>	Sample ID: <b>HS23080717-01PDS</b>	Units: <b>mg/L</b>	Analysis Date: <b>12-Sep-2023 12:20</b>							
Client ID:	Run ID: <b>ICPMS06_446057</b>	SeqNo: <b>7537860</b>	PrepDate: <b>11-Sep-2023</b> DF: <b>20</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	4.633	0.0400	2	2.599	102	75 - 125				

<b>SD</b>	Sample ID: <b>HS23080717-02SD</b>	Units: <b>mg/L</b>	Analysis Date: <b>11-Sep-2023 22:12</b>							
Client ID:	Run ID: <b>ICPMS06_445942</b>	SeqNo: <b>7536694</b>	PrepDate: <b>11-Sep-2023</b> DF: <b>5</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	ND	0.0500					0.006627	0	10	
Barium	0.03988	0.0200					0.03646	9.36	10	
Boron	0.1233	0.100					0.1136	8.5	10	
Cadmium	ND	0.0100					0.000029	0	10	
Chromium	ND	0.0200					0.000437	0	10	
Cobalt	0.001084	0.0250					0.001055	0	10	J
Copper	ND	0.0100					0.000325	0	10	
Iron	3.628	1.00					3.366	7.79	10	
Lead	ND	0.0100					0.000113	0	10	
Manganese	0.1482	0.0250					0.1436	3.21	10	
Molybdenum	ND	0.0250					0.001831	0	10	
Nickel	0.006375	0.0100					0.006116	0	10	J
Selenium	ND	0.0100					0.000279	0	10	
Silver	ND	0.0100					0.000017	0	10	
Zinc	ND	0.0200					0.003107	0	10	

ALS Houston, US

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QC BATCH REPORT**

Batch ID: 200174 ( 0 )		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A						
<b>SD</b>	Sample ID: <b>HS23080717-01SD</b>	Units: <b>mg/L</b>		Analysis Date: <b>11-Sep-2023 22:02</b>						
Client ID:	Run ID: <b>ICPMS06_445942</b>	SeqNo: <b>7536689</b>		PrepDate: <b>11-Sep-2023</b>			DF: <b>5</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual	
Aluminum	0.03667	0.0500					0.02697	0 10	J	
Barium	0.0332	0.0200					0.03438	3.44 10		
Cadmium	ND	0.0100					0.000002	0 10		
Chromium	ND	0.0200					0.000888	0 10		
Cobalt	ND	0.0250					0.000224	0 10		
Copper	ND	0.0100					0.00039	0 10		
Iron	ND	1.00					0.02423	0 10		
Lead	ND	0.0100					0.000041	0 10		
Manganese	ND	0.0250					0.001595	0 10		
Molybdenum	ND	0.0250					0.001315	0 10		
Nickel	0.003696	0.0100					0.003369	0 10	J	
Selenium	ND	0.0100					0.000777	0 10		
Silver	ND	0.0100					0.000006	0 10		
Zinc	ND	0.0200					0.002102	0 10		

<b>SD</b>	Sample ID: <b>HS23080717-02SD</b>	Units: <b>mg/L</b>		Analysis Date: <b>12-Sep-2023 12:24</b>						
Client ID:	Run ID: <b>ICPMS06_446057</b>	SeqNo: <b>7537864</b>		PrepDate: <b>11-Sep-2023</b>			DF: <b>500</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual	
Arsenic	14.28	1.00					14.31	0.227 10		

<b>SD</b>	Sample ID: <b>HS23080717-01SD</b>	Units: <b>mg/L</b>		Analysis Date: <b>12-Sep-2023 12:18</b>						
Client ID:	Run ID: <b>ICPMS06_446057</b>	SeqNo: <b>7537859</b>		PrepDate: <b>11-Sep-2023</b>			DF: <b>100</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual	
Arsenic	2.62	0.200					2.599	0.822 10		

The following samples were analyzed in this batch: HS23090284-01

ALS Houston, US

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QC BATCH REPORT**

<b>Batch ID:</b> 200085 ( 0 )	<b>Instrument:</b> SV-6	<b>Method:</b> LOW-LEVEL PAHS - 8270D
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<b>MBLK</b>	Sample ID: <b>MBLK-200085</b>	Units: <b>ug/L</b>	Analysis Date: <b>11-Sep-2023 16:34</b>							
Client ID:	Run ID: <b>SV-6_445949</b>	SeqNo: <b>7538272</b>	PrepDate: <b>07-Sep-2023</b> DF: <b>1</b>							
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	1.84	0.100	3.03	0	60.7	32 - 130				
Surr: 4-Terphenyl-d14	1.81	0.100	3.03	0	59.7	40 - 135				
Surr: Nitrobenzene-d5	1.459	0.100	3.03	0	48.2	45 - 142				

ALS Houston, US

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QC BATCH REPORT**

Batch ID: 200085 ( 0 )		Instrument: SV-6		Method: LOW-LEVEL PAHS - 8270D						
LCS	Sample ID: LCS-200085	Units: ug/L			Analysis Date: 11-Sep-2023 16:54					
Client ID:	Run ID: SV-6_445949	SeqNo: 7538273		PrepDate: 07-Sep-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1-Methylnaphthalene	1.75	0.100	3.03	0	57.8	40 - 140				
2-Methylnaphthalene	1.577	0.100	3.03	0	52.0	40 - 140				
Acenaphthene	1.911	0.100	3.03	0	63.1	40 - 140				
Acenaphthylene	1.726	0.100	3.03	0	57.0	40 - 140				
Anthracene	2.43	0.100	3.03	0	80.2	40 - 140				
Benzo(a)anthracene	1.649	0.100	3.03	0	54.4	40 - 140				
Benzo(a)pyrene	1.671	0.100	3.03	0	55.1	40 - 140				
Benzo(b)fluoranthene	1.503	0.100	3.03	0	49.6	40 - 140				
Benzo(g,h,i)perylene	2.287	0.100	3.03	0	75.5	40 - 140				
Benzo(k)fluoranthene	1.766	0.100	3.03	0	58.3	40 - 140				
Chrysene	1.663	0.100	3.03	0	54.9	40 - 140				
Dibenz(a,h)anthracene	2.363	0.100	3.03	0	78.0	40 - 140				
Fluoranthene	1.909	0.100	3.03	0	63.0	40 - 140				
Fluorene	1.689	0.100	3.03	0	55.8	40 - 140				
Indeno(1,2,3-cd)pyrene	1.937	0.100	3.03	0	63.9	40 - 140				
Naphthalene	1.741	0.100	3.03	0	57.5	40 - 140				
Phenanthrene	1.525	0.100	3.03	0	50.3	40 - 140				
Pyrene	1.649	0.100	3.03	0	54.4	40 - 140				
Surr: 2-Fluorobiphenyl	1.96	0.100	3.03	0	64.7	32 - 130				
Surr: 4-Terphenyl-d14	1.653	0.100	3.03	0	54.6	40 - 135				
Surr: Nitrobenzene-d5	1.428	0.100	3.03	0	47.1	45 - 142				

**ALS Houston, US**

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QC BATCH REPORT**

**Batch ID:** 200085 ( 0 )      **Instrument:** SV-6      **Method:** LOW-LEVEL PAHS - 8270D

LCSD	Sample ID: LCSD-200085	Units: ug/L			Analysis Date: 11-Sep-2023 17:14					
Client ID:	Run ID: SV-6_445949	SeqNo: 7538274	PrepDate: 07-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	1.96	0.100	3.03	0	64.7	40 - 140	1.75	11.3	25	
2-Methylnaphthalene	2.004	0.100	3.03	0	66.2	40 - 140	1.577	23.9	25	
Acenaphthene	1.843	0.100	3.03	0	60.8	40 - 140	1.911	3.59	25	
Acenaphthylene	1.822	0.100	3.03	0	60.1	40 - 140	1.726	5.41	25	
Anthracene	2.68	0.100	3.03	0	88.4	40 - 140	2.43	9.78	25	
Benzo(a)anthracene	1.535	0.100	3.03	0	50.7	40 - 140	1.649	7.18	25	
Benzo(a)pyrene	1.765	0.100	3.03	0	58.2	40 - 140	1.671	5.48	25	
Benzo(b)fluoranthene	1.592	0.100	3.03	0	52.6	40 - 140	1.503	5.78	25	
Benzo(g,h,i)perylene	2.395	0.100	3.03	0	79.0	40 - 140	2.287	4.61	25	
Benzo(k)fluoranthene	1.816	0.100	3.03	0	59.9	40 - 140	1.766	2.77	25	
Chrysene	1.842	0.100	3.03	0	60.8	40 - 140	1.663	10.2	25	
Dibenz(a,h)anthracene	2.311	0.100	3.03	0	76.3	40 - 140	2.363	2.23	25	
Fluoranthene	2.234	0.100	3.03	0	73.7	40 - 140	1.909	15.7	25	
Fluorene	1.844	0.100	3.03	0	60.8	40 - 140	1.689	8.73	25	
Indeno(1,2,3-cd)pyrene	2.142	0.100	3.03	0	70.7	40 - 140	1.937	10	25	
Naphthalene	2.172	0.100	3.03	0	71.7	40 - 140	1.741	22	25	
Phenanthrene	1.423	0.100	3.03	0	47.0	40 - 140	1.525	6.93	25	
Pyrene	1.864	0.100	3.03	0	61.5	40 - 140	1.649	12.2	25	
Surr: 2-Fluorobiphenyl	1.627	0.100	3.03	0	53.7	32 - 130	1.96	18.6	25	
Surr: 4-Terphenyl-d14	1.944	0.100	3.03	0	64.2	40 - 135	1.653	16.2	25	
Surr: Nitrobenzene-d5	1.618	0.100	3.03	0	53.4	45 - 142	1.428	12.4	25	

The following samples were analyzed in this batch: HS23090284-01

**ALS Houston, US**

Date: 12-Sep-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3H31011  
**WorkOrder:** HS23090284

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	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

<b>Acronym</b>	<b>Description</b>
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: 12-Sep-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
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

Date: 12-Sep-23

Sample Receipt Checklist

Work Order ID: HS23090284

Date/Time Received: 06-Sep-2023 09:40

Client Name: Permian Basin Lab

Received by: Malcolm Burleson

Completed By: /S/ Belinda Gomez	06-Sep-2023 16:12	Reviewed by: /S/ Anna Kinchen	07-Sep-2023 14:17
eSignature	Date/Time	eSignature	Date/Time

Matrices: w

Carrier 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):	2.8uc/2.7c	ir31
Cooler(s)/Kit(s):	m red	
Date/Time sample(s) sent to storage:	9/6/23 1612	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



M. Red SEP 06 2023

FedEx

TRK# 8168 6084 2990  
0200

WED - 06 SEP AA  
STANDARD OVERNIGHT

AB SGRA

M. Red 77099  
TX-US  
IAH



673024 05Sep2023 NAFA 581G3/CEED/C008

**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: 97-04  
Project Number: TNM 97-04  
Location: Lea County, NM  
Lab Order Number: 3127015



**Current Certification**

Report Date: 10/25/23

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

Project: 97-04  
Project Number: TNM 97-04  
Project Manager: Curt Stanley

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Post-Carbon	3127015-01	Water	09/27/23 13:00	09-27-2023 16:20

Low Level PAHs and Total Metals 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](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: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**Post-Carbon  
 3127015-01 (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	P312809	09/28/23 14:38	09/29/23 15:44	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P312809	09/28/23 14:38	09/29/23 15:44	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P312809	09/28/23 14:38	09/29/23 15:44	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P312809	09/28/23 14:38	09/29/23 15:44	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P312809	09/28/23 14:38	09/29/23 15:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.4 %	80-120		P312809	09/28/23 14:38	09/29/23 15:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.3 %	80-120		P312809	09/28/23 14:38	09/29/23 15:44	EPA 8021B	

**Total Metals by EPA / Standard Methods**

Silver	ND	0.0100	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	EPA 6020A	SUB-13
<b>Aluminum</b>	<b>0.0187</b>	0.00200	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	EPA 200.8	SUB-13
<b>Arsenic</b>	<b>0.00578</b>	0.00200	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	EPA 6020A	SUB-13
<b>Boron</b>	<b>0.0497</b>	0.0200	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	SW846-6020A	SUB-13
<b>Barium</b>	<b>0.232</b>	0.00400	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	EPA 6020A	SUB-13
Cadmium	ND	0.00200	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	EPA 6020A	SUB-13
Cobalt	ND	0.00400	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	EPA 6020A	SUB-13
Chromium	ND	0.00500	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	EPA 6020A	SUB-13
<b>Copper</b>	<b>0.00533</b>	0.00200	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	EPA 6020A	SUB-13
<b>Iron</b>	<b>0.331</b>	0.200	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	EPA 6020A	SUB-13
Mercury	ND	0.000200	ug/l	1	P3J2408	10/05/23 08:00	10/05/23 19:19	EPA 7470A	SUB-13
<b>Manganese</b>	<b>0.105</b>	0.00500	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	EPA 6020A	SUB-13
Molybdenum	ND	0.00500	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	EPA 6020A	SUB-13
<b>Nickel</b>	<b>0.00478</b>	0.00200	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	EPA 6020A	SUB-13
Lead	ND	0.00200	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	EPA 6020A	SUB-13
Selenium	ND	0.00200	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	EPA 6020A	SUB-13
<b>Zinc</b>	<b>0.0284</b>	0.00400	mg/L	1	P3J2408	10/05/23 13:00	10/05/23 19:19	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: 97-04  
 Project Number: TNM 97-04  
 Project Manager: Curt Stanley

**Post-Carbon  
 3127015-01 (Water)**

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

**Permian Basin Environmental Lab, L.P.**

**PAH compounds by Semivolatile GCMS**

1-Methylnaphthalene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
2-Methylnaphthalene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Acenaphthene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Acenaphthylene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Anthracene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Benzo (a) anthracene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Benzo (a) pyrene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Benzo (b) fluoranthene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Benzo (g,h,i) perylene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Benzo (k) fluoranthene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Chrysene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Dibenzo (a,h) anthracene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Dibenzofuran	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Fluoranthene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Fluorene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Indeno (1,2,3-cd) pyrene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Naphthalene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Phenanthrene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	8270C	SUB-13
Pyrene	ND	0.00010	mg/L	1	P3J2408	10/02/23 15:00	10/03/23 20:42	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: 97-04  
 Project Number: TNM 97-04  
 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 P312809 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P312809-BLK1)** Prepared: 09/28/23 Analyzed: 09/29/23

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	0.113		"	0.120		94.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.4	80-120			

**LCS (P312809-BS1)** Prepared: 09/28/23 Analyzed: 09/29/23

Benzene	0.0911	0.00100	mg/L	0.100		91.1	80-120			
Toluene	0.0878	0.00100	"	0.100		87.8	80-120			
Ethylbenzene	0.0900	0.00100	"	0.100		90.0	80-120			
Xylene (p/m)	0.174	0.00200	"	0.200		87.0	80-120			
Xylene (o)	0.0806	0.00100	"	0.100		80.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.7	80-120			

**LCS Dup (P312809-BSD1)** Prepared: 09/28/23 Analyzed: 09/29/23

Benzene	0.0929	0.00100	mg/L	0.100		92.9	80-120	1.94	20	
Toluene	0.0902	0.00100	"	0.100		90.2	80-120	2.73	20	
Ethylbenzene	0.0929	0.00100	"	0.100		92.9	80-120	3.19	20	
Xylene (p/m)	0.179	0.00200	"	0.200		89.5	80-120	2.87	20	
Xylene (o)	0.0803	0.00100	"	0.100		80.3	80-120	0.448	20	
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.6	80-120			

**Calibration Blank (P312809-CCB1)** Prepared: 09/28/23 Analyzed: 09/29/23

Benzene	0.210		ug/l							
Toluene	0.150		"							
Ethylbenzene	0.160		"							
Xylene (p/m)	0.170		"							
Xylene (o)	0.300		"							
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.4	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  
 10 Desta Dr STE 150E  
 Midland TX, 79705

Project: 97-04  
 Project Number: TNM 97-04  
 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 P3I2809 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Blank (P3I2809-CCB2)**

Prepared: 09/28/23 Analyzed: 09/29/23

Benzene	0.250		ug/l							
Toluene	0.180		"							
Ethylbenzene	0.130		"							
Xylene (p/m)	0.200		"							
Xylene (o)	0.260		"							
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.4	80-120			

**Calibration Check (P3I2809-CCV1)**

Prepared: 09/28/23 Analyzed: 09/29/23

Benzene	0.0983	0.00100	mg/L	0.100		98.3	80-120			
Toluene	0.0963	0.00100	"	0.100		96.3	80-120			
Ethylbenzene	0.0936	0.00100	"	0.100		93.6	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.6	80-120			
Xylene (o)	0.0874	0.00100	"	0.100		87.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.3	80-120			

**Calibration Check (P3I2809-CCV2)**

Prepared: 09/28/23 Analyzed: 09/29/23

Benzene	0.0963	0.00100	mg/L	0.100		96.3	80-120			
Toluene	0.0980	0.00100	"	0.100		98.0	80-120			
Ethylbenzene	0.0919	0.00100	"	0.100		91.9	80-120			
Xylene (p/m)	0.182	0.00200	"	0.200		91.1	80-120			
Xylene (o)	0.0914	0.00100	"	0.100		91.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	80-120			

**Calibration Check (P3I2809-CCV3)**

Prepared: 09/28/23 Analyzed: 09/29/23

Benzene	0.101	0.00100	mg/L	0.100		101	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.0950	0.00100	"	0.100		95.0	80-120			
Xylene (p/m)	0.191	0.00200	"	0.200		95.7	80-120			
Xylene (o)	0.0949	0.00100	"	0.100		94.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	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  
 10 Desta Dr STE 150E  
 Midland TX, 79705

Project: 97-04  
 Project Number: TNM 97-04  
 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 P3I2809 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P3I2809-MS1)</b>	<b>Source: 3I28006-01</b>			<b>Prepared: 09/28/23 Analyzed: 09/29/23</b>						
Benzene	0.0934	0.00100	mg/L	0.100	0.000510	92.9	80-120			
Toluene	0.0922	0.00100	"	0.100	ND	92.2	80-120			
Ethylbenzene	0.0929	0.00100	"	0.100	ND	92.9	80-120			
Xylene (p/m)	0.173	0.00200	"	0.200	ND	86.6	80-120			
Xylene (o)	0.0820	0.00100	"	0.100	ND	82.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.6	80-120			

<b>Matrix Spike Dup (P3I2809-MSD1)</b>	<b>Source: 3I28006-01</b>			<b>Prepared: 09/28/23 Analyzed: 09/29/23</b>						
Benzene	0.0935	0.00100	mg/L	0.100	0.000510	93.0	80-120	0.0538	20	
Toluene	0.0946	0.00100	"	0.100	ND	94.6	80-120	2.51	20	
Ethylbenzene	0.0923	0.00100	"	0.100	ND	92.3	80-120	0.616	20	
Xylene (p/m)	0.173	0.00200	"	0.200	ND	86.6	80-120	0.0115	20	
Xylene (o)	0.0841	0.00100	"	0.100	ND	84.1	80-120	2.44	20	
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	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  
10 Desta Dr STE 150E  
Midland TX, 79705

Project: 97-04  
Project Number: TNM 97-04  
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: 10/25/2023

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.





CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235  
PBELAB\_SUB\_COOC\_V2

Project Name: SUBCONTRACT

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

Project #:

Project Loc:

PO #:

Fax No: e-mail: brentbarron@pbelab.com

Report Format:  Standard  TRRP  NPDES

Analyze For:

ORDER #:	LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	ICE	HNO <sub>3</sub> 250 poly 1	HCl 3 40mL VOA	H <sub>2</sub> SO <sub>4</sub> 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	VOA VIAL - AMBER UNPRESSERVED	NONE	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	8270C PAH LL	Cu, Ag, Al,As, B, Ba, Cd TOTAL ICP/MS 6020A	Cr, Zn,Fe, Mn, Mo,Ni, Pb,Se, Co TOTAL ICP MS 6020	Hg Total CVAA 7470	72 HOUR RUSH	STANDARD
		3127015-01			9/27/2023	13:00		4	X	X					X			W		X	X	X			X

SPECIAL INSTRUCTIONS:

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:

Sample Containers Intact? Y N  
 VOCs Free of Heedspare? 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 Courier/UPS/DHL/FedEx/Lotje Star  
 Sample/Glient Rep. 2  
 Temperature Upon Receipt: °C  
 Received: C-Factor Adjusted:



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

October 06, 2023

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

Work Order: **HS23100031**

Laboratory Results for: **3127015**

Dear Brent Barron,

ALS Environmental received 1 sample(s) on Sep 29, 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: 06-Oct-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3I27015  
**Work Order:** HS23100031

**SAMPLE SUMMARY**

---

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23100031-01	3I27015-01	Water		27-Sep-2023 13:00	29-Sep-2023 09:20	<input type="checkbox"/>



**ALS Houston, US**

Date: 06-Oct-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3I27015  
**Work Order:** HS23100031

**CASE NARRATIVE**

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**GCMS Semivolatiles by Method SW8270**

**Batch ID: 201277**

**Sample ID: LCSD-201277**

- LCSD RPD was above the upper control limit. The individual recoveries were in control.

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**Metals by Method SW6020A**

**Batch ID: 201494**

**Sample ID: HS23091824-03MS**

- MS and MSD are for an unrelated sample (Manganese)

**Sample ID: HS23091824-03PDS**

- PDS is for an unrelated sample (Manganese)

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**Metals by Method SW7470A**

**Batch ID: 201462**

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

Date: 06-Oct-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3I27015  
 Sample ID: 3I27015-01  
 Collection Date: 27-Sep-2023 13:00

**ANALYTICAL REPORT**

WorkOrder:HS23100031  
 Lab ID:HS23100031-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>LOW-LEVEL PAHS - 8270D</b>		<b>Method:SW8270</b>		Prep:SW3511 / 02-Oct-2023		Analyst: MBG
1-Methylnaphthalene	ND	n	0.102	ug/L	1	03-Oct-2023 20:42
2-Methylnaphthalene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Acenaphthene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Acenaphthylene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Anthracene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Benz(a)anthracene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Benzo(a)pyrene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Benzo(b)fluoranthene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Benzo(g,h,i)perylene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Benzo(k)fluoranthene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Chrysene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Dibenz(a,h)anthracene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Fluoranthene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Fluorene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Indeno(1,2,3-cd)pyrene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Naphthalene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Phenanthrene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Pyrene	ND		0.102	ug/L	1	03-Oct-2023 20:42
Surr: 2-Fluorobiphenyl	85.2		32-130	%REC	1	03-Oct-2023 20:42
Surr: 4-Terphenyl-d14	103		40-135	%REC	1	03-Oct-2023 20:42
Surr: Nitrobenzene-d5	112		45-142	%REC	1	03-Oct-2023 20:42
<b>ICP-MS METALS BY SW6020A</b>		<b>Method:SW6020A</b>		Prep:SW3010A / 05-Oct-2023		Analyst: MSC
<b>Aluminum</b>	<b>0.0187</b>		<b>0.0100</b>	<b>mg/L</b>	1	05-Oct-2023 19:19
<b>Arsenic</b>	<b>0.00578</b>		<b>0.00200</b>	<b>mg/L</b>	1	05-Oct-2023 19:19
<b>Barium</b>	<b>0.232</b>		<b>0.00400</b>	<b>mg/L</b>	1	05-Oct-2023 19:19
<b>Boron</b>	<b>0.0497</b>		<b>0.0200</b>	<b>mg/L</b>	1	05-Oct-2023 19:19
Cadmium	ND		0.00200	mg/L	1	05-Oct-2023 19:19
Chromium	ND		0.00400	mg/L	1	05-Oct-2023 19:19
Cobalt	ND		0.00500	mg/L	1	05-Oct-2023 19:19
<b>Copper</b>	<b>0.00533</b>		<b>0.00200</b>	<b>mg/L</b>	1	05-Oct-2023 19:19
<b>Iron</b>	<b>0.331</b>		<b>0.200</b>	<b>mg/L</b>	1	05-Oct-2023 19:19
Lead	ND		0.00200	mg/L	1	05-Oct-2023 19:19
<b>Manganese</b>	<b>0.105</b>		<b>0.00500</b>	<b>mg/L</b>	1	05-Oct-2023 19:19
Molybdenum	ND		0.00500	mg/L	1	05-Oct-2023 19:19
<b>Nickel</b>	<b>0.00478</b>		<b>0.00200</b>	<b>mg/L</b>	1	05-Oct-2023 19:19
Selenium	ND		0.00200	mg/L	1	05-Oct-2023 19:19
Silver	ND		0.00200	mg/L	1	05-Oct-2023 19:19
<b>Zinc</b>	<b>0.0284</b>		<b>0.00400</b>	<b>mg/L</b>	1	05-Oct-2023 19:19

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

**ALS Houston, US**

Date: 06-Oct-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3I27015  
 Sample ID: 3I27015-01  
 Collection Date: 27-Sep-2023 13:00

**ANALYTICAL REPORT**  
 WorkOrder:HS23100031  
 Lab ID:HS23100031-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>MERCURY BY SW7470A</b>		<b>Method:SW7470A</b>			Prep:SW7470A / 05-Oct-2023	Analyst: JS
Mercury	ND		0.000200	mg/L	1	05-Oct-2023 12:41

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

ALS Houston, US

Date: 06-Oct-23

**Weight / Prep Log**

**Client:** Permian Basin Environmental Lab, LP

**Project:** 3I27015

**WorkOrder:** HS23100031

<b>Batch ID:</b> 201277	<b>Start Date:</b> 02 Oct 2023 15:00	<b>End Date:</b> 02 Oct 2023 15:00
<b>Method:</b> SW3511	<b>Prep Code:</b> 3511_PAH	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23100031-01		32.39 (mL)	2 (mL)	0.06175	40 mL Amber, HCL

<b>Batch ID:</b> 201462	<b>Start Date:</b> 05 Oct 2023 08:00	<b>End Date:</b> 05 Oct 2023 08:00
<b>Method:</b> MERCURY PREP BY 7470A- WATER	<b>Prep Code:</b> HG_WPR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23100031-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

<b>Batch ID:</b> 201494	<b>Start Date:</b> 05 Oct 2023 13:00	<b>End Date:</b> 05 Oct 2023 13:00
<b>Method:</b> WATER - SW3010A	<b>Prep Code:</b> 3010A	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23100031-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US

Date: 06-Oct-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3I27015  
**WorkOrder:** HS23100031

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> 201277 ( 0 )		<b>Test Name :</b> LOW-LEVEL PAHS - 8270D			<b>Matrix:</b> Water	
HS23100031-01	3I27015-01	27 Sep 2023 13:00		02 Oct 2023 15:00	03 Oct 2023 20:42	1
<b>Batch ID:</b> 201462 ( 0 )		<b>Test Name :</b> MERCURY BY SW7470A			<b>Matrix:</b> Water	
HS23100031-01	3I27015-01	27 Sep 2023 13:00		05 Oct 2023 08:00	05 Oct 2023 12:41	1
<b>Batch ID:</b> 201494 ( 0 )		<b>Test Name :</b> ICP-MS METALS BY SW6020A			<b>Matrix:</b> Water	
HS23100031-01	3I27015-01	27 Sep 2023 13:00		05 Oct 2023 13:00	05 Oct 2023 19:19	1

ALS Houston, US

Date: 06-Oct-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3I27015  
**WorkOrder:** HS23100031

**QC BATCH REPORT**

<b>Batch ID:</b> 201462 ( 0 )	<b>Instrument:</b> HG04	<b>Method:</b> MERCURY BY SW7470A
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<b>MBLK</b>	Sample ID: <b>MBLK-201462</b>	Units: <b>mg/L</b>	Analysis Date: <b>05-Oct-2023 11:37</b>							
Client ID:	Run ID: <b>HG04_448236</b>	SeqNo: <b>7587286</b>	PrepDate: <b>05-Oct-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury ND 0.000200

<b>LCS</b>	Sample ID: <b>LCS-201462</b>	Units: <b>mg/L</b>	Analysis Date: <b>05-Oct-2023 11:39</b>							
Client ID:	Run ID: <b>HG04_448236</b>	SeqNo: <b>7587287</b>	PrepDate: <b>05-Oct-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00493 0.000200 0.005 0 98.6 80 - 120

<b>MS</b>	Sample ID: <b>HS23091555-13MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>05-Oct-2023 11:42</b>							
Client ID:	Run ID: <b>HG04_448236</b>	SeqNo: <b>7587289</b>	PrepDate: <b>05-Oct-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00569 0.000200 0.005 0.000139 111 75 - 125

<b>MSD</b>	Sample ID: <b>HS23091555-13MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>05-Oct-2023 11:44</b>							
Client ID:	Run ID: <b>HG04_448236</b>	SeqNo: <b>7587290</b>	PrepDate: <b>05-Oct-2023</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00511 0.000200 0.005 0.000139 99.4 75 - 125 0.00569 10.7 20

The following samples were analyzed in this batch: HS23100031-01

**ALS Houston, US**

Date: 06-Oct-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3I27015  
**WorkOrder:** HS23100031

**QC BATCH REPORT**

<b>Batch ID:</b> 201494 ( 0 )		<b>Instrument:</b> ICPMS07		<b>Method:</b> ICP-MS METALS BY SW6020A						
<b>MBLK</b>	Sample ID: <b>MBLK-201494</b>	Units: <b>mg/L</b>		Analysis Date: <b>05-Oct-2023 17:44</b>						
Client ID:	Run ID: <b>ICPMS07_448233</b>	SeqNo: <b>7589130</b>		PrepDate: <b>05-Oct-2023</b>		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Aluminum	ND	0.0100								
Arsenic	ND	0.00200								
Barium	ND	0.00400								
Boron	ND	0.0200								
Cadmium	ND	0.00200								
Chromium	ND	0.00400								
Cobalt	ND	0.00500								
Copper	ND	0.00200								
Iron	ND	0.200								
Lead	ND	0.00200								
Manganese	ND	0.00500								
Molybdenum	ND	0.00500								
Nickel	ND	0.00200								
Selenium	ND	0.00200								
Silver	ND	0.00200								
Zinc	ND	0.00400								

**ALS Houston, US**

Date: 06-Oct-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3I27015  
**WorkOrder:** HS23100031

**QC BATCH REPORT**

Batch ID: 201494 ( 0 )		Instrument: ICPMS07		Method: ICP-MS METALS BY SW6020A						
LCS	Sample ID: LCS-201494	Units: mg/L			Analysis Date: 05-Oct-2023 17:51					
Client ID:	Run ID: ICPMS07_448233	SeqNo: 7589133	PrepDate: 05-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09797	0.0100	0.1	0	98.0	80 - 120				
Arsenic	0.05064	0.00200	0.05	0	101	80 - 120				
Barium	0.04997	0.00400	0.05	0	99.9	80 - 120				
Boron	0.4669	0.0200	0.5	0	93.4	80 - 120				
Cadmium	0.05051	0.00200	0.05	0	101	80 - 120				
Chromium	0.04997	0.00400	0.05	0	99.9	80 - 120				
Cobalt	0.05094	0.00500	0.05	0	102	80 - 120				
Copper	0.05152	0.00200	0.05	0	103	80 - 120				
Iron	5.095	0.200	5	0	102	80 - 120				
Lead	0.04657	0.00200	0.05	0	93.1	80 - 120				
Manganese	0.04974	0.00500	0.05	0	99.5	80 - 120				
Molybdenum	0.04826	0.00500	0.05	0	96.5	80 - 120				
Nickel	0.05128	0.00200	0.05	0	103	80 - 120				
Selenium	0.0492	0.00200	0.05	0	98.4	80 - 120				
Silver	0.04701	0.00200	0.05	0	94.0	80 - 120				
Zinc	0.05314	0.00400	0.05	0	106	80 - 120				



ALS Houston, US

Date: 06-Oct-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3I27015  
**WorkOrder:** HS23100031

**QC BATCH REPORT**

<b>Batch ID:</b> 201494 ( 0 )	<b>Instrument:</b> ICPMS07	<b>Method:</b> ICP-MS METALS BY SW6020A
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MS	Sample ID: HS23091824-03MS	Units: mg/L			Analysis Date: 05-Oct-2023 17:58					
Client ID:	Run ID: ICPMS07_448233	SeqNo: 7589136	PrepDate: 05-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.107	0.0100	0.1	0.007491	99.5	80 - 120				
Arsenic	0.05237	0.00200	0.05	0.000333	104	80 - 120				
Barium	0.07153	0.00400	0.05	0.02156	100.0	80 - 120				
Boron	0.5805	0.0200	0.5	0.09028	98.0	80 - 120				
Cadmium	0.04805	0.00200	0.05	-0.000011	96.1	80 - 120				
Chromium	0.05318	0.00400	0.05	0.003098	100	80 - 120				
Cobalt	0.05828	0.00500	0.05	0.0089	98.8	80 - 120				
Copper	0.04843	0.00200	0.05	0.000202	96.5	80 - 120				
Iron	5.245	0.200	5	0.32	98.5	80 - 120				
Lead	0.04708	0.00200	0.05	0.000071	94.0	80 - 120				
Manganese	1.524	0.00500	0.05	1.451	146	80 - 120				SO
Molybdenum	0.0496	0.00500	0.05	0.000683	97.8	80 - 120				
Nickel	0.05924	0.00200	0.05	0.01068	97.1	80 - 120				
Selenium	0.04775	0.00200	0.05	0.000938	93.6	80 - 120				
Silver	0.04423	0.00200	0.05	0.000006	88.4	80 - 120				
Zinc	0.05348	0.00400	0.05	0.005535	95.9	80 - 120				

ALS Houston, US

Date: 06-Oct-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3I27015  
**WorkOrder:** HS23100031

**QC BATCH REPORT**

Batch ID: 201494 ( 0 )		Instrument: ICPMS07		Method: ICP-MS METALS BY SW6020A						
MSD	Sample ID: HS23091824-03MSD	Units: mg/L			Analysis Date: 05-Oct-2023 18:00					
Client ID:	Run ID: ICPMS07_448233	SeqNo: 7589137	PrepDate: 05-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09545	0.0100	0.1	0.007491	88.0	80 - 120	0.107	11.4	20	
Arsenic	0.04878	0.00200	0.05	0.000333	96.9	80 - 120	0.05237	7.11	20	
Barium	0.07058	0.00400	0.05	0.02156	98.1	80 - 120	0.07153	1.34	20	
Boron	0.5744	0.0200	0.5	0.09028	96.8	80 - 120	0.5805	1.07	20	
Cadmium	0.04739	0.00200	0.05	-0.000011	94.8	80 - 120	0.04805	1.38	20	
Chromium	0.05092	0.00400	0.05	0.003098	95.6	80 - 120	0.05318	4.34	20	
Cobalt	0.05557	0.00500	0.05	0.0089	93.3	80 - 120	0.05828	4.77	20	
Copper	0.04682	0.00200	0.05	0.000202	93.2	80 - 120	0.04843	3.39	20	
Iron	5.003	0.200	5	0.32	93.7	80 - 120	5.245	4.71	20	
Lead	0.04624	0.00200	0.05	0.000071	92.3	80 - 120	0.04708	1.81	20	
Manganese	1.446	0.00500	0.05	1.451	-9.17	80 - 120	1.524	5.22	20	SO
Molybdenum	0.04898	0.00500	0.05	0.000683	96.6	80 - 120	0.0496	1.24	20	
Nickel	0.05714	0.00200	0.05	0.01068	92.9	80 - 120	0.05924	3.61	20	
Selenium	0.04624	0.00200	0.05	0.000938	90.6	80 - 120	0.04775	3.21	20	
Silver	0.04367	0.00200	0.05	0.000006	87.3	80 - 120	0.04423	1.26	20	
Zinc	0.0559	0.00400	0.05	0.005535	101	80 - 120	0.05348	4.43	20	

**ALS Houston, US**

Date: 06-Oct-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3I27015  
**WorkOrder:** HS23100031

**QC BATCH REPORT**

Batch ID: 201494 ( 0 )		Instrument: ICPMS07		Method: ICP-MS METALS BY SW6020A						
<b>PDS</b>	Sample ID: <b>HS23091824-03PDS</b>	Units: <b>mg/L</b>			Analysis Date: <b>05-Oct-2023 18:02</b>					
Client ID:	Run ID: <b>ICPMS07_448233</b>	SeqNo: <b>7589138</b>		PrepDate: <b>05-Oct-2023</b>		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Aluminum	0.1897	0.0100	0.2	0.007491	91.1	75 - 125				
Arsenic	0.2007	0.00200	0.2	0	100	75 - 125				
Barium	0.2229	0.00400	0.2	0.02156	101	75 - 125				
Cadmium	0.1941	0.00200	0.2	0	97.0	75 - 125				
Chromium	0.1981	0.00400	0.2	0.003098	97.5	75 - 125				
Cobalt	0.2027	0.00500	0.2	0.0089	96.9	75 - 125				
Copper	0.1897	0.00200	0.2	0	94.9	75 - 125				
Iron	19.7	0.200	20	0.32	96.9	75 - 125				
Lead	0.2021	0.00200	0.2	0	101	75 - 125				
Manganese	1.596	0.00500	0.2	1.451	72.5	75 - 125			SO	
Molybdenum	0.1998	0.00500	0.2	0.000683	99.6	75 - 125				
Nickel	0.2015	0.00200	0.2	0.01068	95.4	75 - 125				
Selenium	0.1854	0.00200	0.2	0	92.7	75 - 125				
Silver	0.1733	0.00200	0.2	0	86.7	75 - 125				
Zinc	0.1973	0.00400	0.2	0.005535	95.9	75 - 125				

**ALS Houston, US**

Date: 06-Oct-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3I27015  
**WorkOrder:** HS23100031

**QC BATCH REPORT**

Batch ID: 201494 ( 0 )		Instrument: ICPMS07		Method: ICP-MS METALS BY SW6020A						
SD	Sample ID: HS23091824-03SD	Units: mg/L			Analysis Date: 05-Oct-2023 17:55					
Client ID:	Run ID: ICPMS07_448233	SeqNo: 7589135	PrepDate: 05-Oct-2023	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Aluminum	ND	0.0500					0.007491	0	10	
Arsenic	ND	0.0100					0.000333	0	10	
Barium	0.02148	0.0200					0.02156	0.371	10	
Boron	0.144	0.100					0.09028	0	10	
Cadmium	ND	0.0100					-0.000011	0	10	
Chromium	0.002628	0.0200					0.003098	0	10	J
Cobalt	0.008672	0.0250					0.0089	0	10	J
Copper	ND	0.0100					0.000202	0	10	
Iron	0.2847	1.00					0.32	0	10	J
Lead	ND	0.0100					0.000071	0	10	
Manganese	1.455	0.0250					1.451	0.277	10	
Molybdenum	ND	0.0250					0.000683	0	10	
Nickel	0.01033	0.0100					0.01068	3.28	10	
Selenium	0.005632	0.0100					0.000938	0	10	J
Silver	ND	0.0100					0.000006	0	10	
Zinc	ND	0.0200					0.005535	0	10	

The following samples were analyzed in this batch: HS23100031-01

**ALS Houston, US**

Date: 06-Oct-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3I27015  
**WorkOrder:** HS23100031

**QC BATCH REPORT**

Batch ID: 201277 ( 0 )		Instrument: SV-6		Method: LOW-LEVEL PAHS - 8270D						
<b>MBLK</b>	Sample ID: <b>MBLK-201277</b>	Units: <b>ug/L</b>			Analysis Date: <b>03-Oct-2023 17:20</b>					
Client ID:	Run ID: <b>SV-6_448173</b>	SeqNo: <b>7585234</b>		PrepDate: <b>02-Oct-2023</b>		DF: <b>1</b>				
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	2.73	0.100	3.03	0	90.1	32 - 130				
Surr: 4-Terphenyl-d14	2.767	0.100	3.03	0	91.3	40 - 135				
Surr: Nitrobenzene-d5	3.761	0.100	3.03	0	124	45 - 142				

ALS Houston, US

Date: 06-Oct-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3I27015  
**WorkOrder:** HS23100031

**QC BATCH REPORT**

Batch ID: 201277 ( 0 )		Instrument: SV-6		Method: LOW-LEVEL PAHS - 8270D						
LCS	Sample ID: LCS-201277	Units: ug/L			Analysis Date: 03-Oct-2023 17:40					
Client ID:	Run ID: SV-6_448173	SeqNo: 7585235	PrepDate: 02-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	2.759	0.100	3.03	0	91.1	40 - 140				
2-Methylnaphthalene	2.912	0.100	3.03	0	96.1	40 - 140				
Acenaphthene	2.819	0.100	3.03	0	93.0	40 - 140				
Acenaphthylene	2.824	0.100	3.03	0	93.2	40 - 140				
Anthracene	2.65	0.100	3.03	0	87.5	40 - 140				
Benz(a)anthracene	2.273	0.100	3.03	0	75.0	40 - 140				
Benzo(a)pyrene	2.629	0.100	3.03	0	86.8	40 - 140				
Benzo(b)fluoranthene	2.169	0.100	3.03	0	71.6	40 - 140				
Benzo(g,h,i)perylene	2.479	0.100	3.03	0	81.8	40 - 140				
Benzo(k)fluoranthene	2.28	0.100	3.03	0	75.2	40 - 140				
Chrysene	2.686	0.100	3.03	0	88.6	40 - 140				
Dibenz(a,h)anthracene	2.489	0.100	3.03	0	82.2	40 - 140				
Fluoranthene	2.668	0.100	3.03	0	88.1	40 - 140				
Fluorene	2.85	0.100	3.03	0	94.0	40 - 140				
Indeno(1,2,3-cd)pyrene	2.462	0.100	3.03	0	81.2	40 - 140				
Naphthalene	2.663	0.100	3.03	0	87.9	40 - 140				
Phenanthrene	2.406	0.100	3.03	0	79.4	40 - 140				
Pyrene	2.437	0.100	3.03	0	80.4	40 - 140				
Surr: 2-Fluorobiphenyl	2.792	0.100	3.03	0	92.1	32 - 130				
Surr: 4-Terphenyl-d14	2.535	0.100	3.03	0	83.7	40 - 135				
Surr: Nitrobenzene-d5	3.198	0.100	3.03	0	106	45 - 142				

ALS Houston, US

Date: 06-Oct-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3I27015  
**WorkOrder:** HS23100031

**QC BATCH REPORT**

Batch ID: 201277 ( 0 )		Instrument: SV-6		Method: LOW-LEVEL PAHS - 8270D						
LCSD	Sample ID: LCSD-201277	Units: ug/L			Analysis Date: 03-Oct-2023 18:00					
Client ID:	Run ID: SV-6_448173	SeqNo: 7585236	PrepDate: 02-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	3.168	0.100	3.03	0	105	40 - 140	2.759	13.8	25	
2-Methylnaphthalene	3.397	0.100	3.03	0	112	40 - 140	2.912	15.4	25	
Acenaphthene	2.472	0.100	3.03	0	81.6	40 - 140	2.819	13.1	25	
Acenaphthylene	2.461	0.100	3.03	0	81.2	40 - 140	2.824	13.7	25	
Anthracene	3.599	0.100	3.03	0	119	40 - 140	2.65	30.4	25	R
Benz(a)anthracene	2.733	0.100	3.03	0	90.2	40 - 140	2.273	18.4	25	
Benzo(a)pyrene	2.477	0.100	3.03	0	81.7	40 - 140	2.629	5.95	25	
Benzo(b)fluoranthene	2.718	0.100	3.03	0	89.7	40 - 140	2.169	22.5	25	
Benzo(g,h,i)perylene	2.592	0.100	3.03	0	85.5	40 - 140	2.479	4.46	25	
Benzo(k)fluoranthene	3.12	0.100	3.03	0	103	40 - 140	2.28	31.1	25	R
Chrysene	3.244	0.100	3.03	0	107	40 - 140	2.686	18.8	25	
Dibenz(a,h)anthracene	2.49	0.100	3.03	0	82.2	40 - 140	2.489	0.0389	25	
Fluoranthene	3.42	0.100	3.03	0	113	40 - 140	2.668	24.7	25	
Fluorene	2.505	0.100	3.03	0	82.7	40 - 140	2.85	12.9	25	
Indeno(1,2,3-cd)pyrene	2.687	0.100	3.03	0	88.7	40 - 140	2.462	8.74	25	
Naphthalene	3.052	0.100	3.03	0	101	40 - 140	2.663	13.6	25	
Phenanthrene	3.183	0.100	3.03	0	105	40 - 140	2.406	27.8	25	R
Pyrene	2.934	0.100	3.03	0	96.8	40 - 140	2.437	18.5	25	
Surr: 2-Fluorobiphenyl	2.328	0.100	3.03	0	76.8	32 - 130	2.792	18.1	25	
Surr: 4-Terphenyl-d14	3.064	0.100	3.03	0	101	40 - 135	2.535	18.9	25	
Surr: Nitrobenzene-d5	3.174	0.100	3.03	0	105	45 - 142	3.198	0.734	25	

The following samples were analyzed in this batch: HS23100031-01

**ALS Houston, US**

Date: 06-Oct-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3I27015  
**WorkOrder:** HS23100031

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	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

<b>Acronym</b>	<b>Description</b>
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: 06-Oct-23

**CERTIFICATIONS,ACCREDITATIONS & LICENSES**

<b>Agency</b>	<b>Number</b>	<b>Expire Date</b>
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
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

Date: 06-Oct-23

Sample Receipt Checklist

Work Order ID: HS23100031

Date/Time Received: 29-Sep-2023 09:20

Client Name: Permian Basin Lab

Received by: Corey Grandits

Completed By: /S/ Malcolm Burleson	02-Oct-2023 13:40	Reviewed by: /S/ Anna Kinchen	03-Oct-2023 11:45
eSignature	Date/Time	eSignature	Date/Time

Matrices: water

Carrier 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):	1.9uc 1.8c	ir31
Cooler(s)/Kit(s):	Black	
Date/Time sample(s) sent to storage:	10022023	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:		

Login Notes:

Client Contacted: \_\_\_\_\_ Date Contacted: \_\_\_\_\_ Person Contacted: \_\_\_\_\_  
 Contacted By: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments:

Corrective Action:



ORIGIN ID: AAF6 (432) 886-7235  
 BRENT BARROW  
 PRE LAB  
 1400 RANKIN HWY  
 MIDLAND, TX 79701  
 UNITED STATES

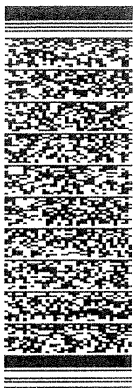
SHIP DATE: 28SEP23  
 CTRY: US  
 CD: 077389601N1453  
 DIMS: 15x17x9 IN  
 BILL RECEIPT

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

**HOUSTON TX 77099**

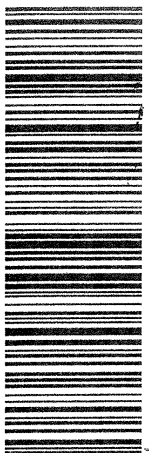
281 530-5615  
 TX  
 REF:

DEPT  
 583J48B35/9AE3



TRK# 7735 8025 3211  
 FRI - 29 SEP 5:00P  
 STANDARD OVERNIGHT

**ABSGRA**  
 TX-US IAH  
**77099**



BLACK SEP 29 2023

After printing this label:  
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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**  
P.O. BOX 1980, HOBBS, NM 88241-1980

State of New Mexico  
Energy, Minerals and Natural Resources Department

SUBMIT 2 COPIES TO  
APPROPRIATE DISTRICT  
OFFICE IN ACCORDANCE  
WITH RULE 116 PRINTED  
ON BACK SIDE OF FORM

**DISTRICT II**  
P.O. DRAWER DD, ARTESIA, NM 88211-0719

**OIL CONSERVATION DIVISION**


**DISTRICT III**  
1000 Rio Brazos Rd, Aztec, NM 87410

TNM-97-04

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

*Initial Report*

**NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOWOUTS**

OPERATOR Texas-New Mexico Pipe Line Company			ADDRESS P. O. Box 60028, San Angelo, TX 76906			TELEPHONE (915) 947-9000	
REPORT OF	FIRE	BREAK	SPILL	LEAK X	BLOWOUT	OTHER*	
TYPE OF FACILITY	DRLG WELL	PROD WELL	TANK BTRY	PIPE LINE X	GASO PLANT	OIL RFY	OTHER*
FACILITY NAME: 4" gathering line							
LOCATION OF FACILITY Qtr/Qtr Sec. or Footage. SW/4 SW/4			SE/4 SE/4	SEC. 11	TWP. 11S 16E	RGE. 35E	COUNTY Lea
DISTANCE AND DIRECTION FROM NEAREST TOWN OR PROMINENT LANDMARK 2 miles west of Lovington							
DATE AND HOUR OF OCCURRENCE Unknown				DATE AND HOUR OF DISCOVERY April 16, 1997 4:00 p.m.			
WAS IMMEDIATE NOTICE GIVEN?		YES	NO	NOT REQUIRED X	IF YES, TO WHOM Wayne Price		
BY WHOM B. D. Chapman (reported that quantity may be more than 10 barrels)					DATE AND HOUR April 25, 1997 9:00 a.m.		
TYPE OF FLUID LOST Sweet Crude		QUANTITY OF LOSS Unknown (*see note below)		VOLUME RECOVERED None			
DID ANY FLUIDS REACH A WATERCOURSE?		YES	NO X	QUANTITY			
IF YES, DESCRIBE FULLY**							
DESCRIBE CAUSE OF PROBLEM AND REMEDIAL ACTION TAKEN** External Corrosion. Leak successfully clamped off.							
DESCRIBE AREA AFFECTED AND CLEANUP ACTION TAKEN** Approximately 1500 sq.ft. pasture land. Will remediate on site.							
*Originally estimated at 10 barrels. Under investigation. An amended report will be issued when quantity is determined.							
DESCRIPTION OF AREA		FARMING	GRAZING X	URBAN	OTHER*		
SURFACE CONDITION		SANDY	SANDY LOAM	CLAY	ROCKY X	WET	DRY X SNOW
RECORD GENERAL CONDITIONS PREVAILING (TEMPERATURE, PRECIPITATION, ETC.)** 75 degrees; clear							
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF							
SIGNED 		PRINTED NAME AND TITLE Edwin H. Gripp, District Manager			DATE April 25, 1997		

\*SPECIFY

\*\*ATTACH ADDITIONAL SHEETS IF NECESSARY

State Corp. Commission  
Pipe Line Division

Hazardous Waste Section  
NM Environmental Improvement Div.

TNM-97-04

BDC

**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 351136

**CONDITIONS**

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 351136
	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 TNM 97-04: content satisfactory 1. Resume operation of the ERS (Enhanced Recovery System) for the 2024 reporting period after upgrades have been put in place. 2. Conduct O&M for the system with shut-down periods as necessary. 3. Continue PSH recovery, quarterly groundwater monitoring for BTEX and PAH by method SW-846, and 8270. 4. Continue to conduct low-flow sampling on MW-10, MW-9, MW-5, MW-6, MW-15 and MW-14 as prescribed for MNA. 5 Submit the 2024 annual report to OCD electronically by May 1, 2025.	7/17/2024