ANNUAL MONITORING REPORT

'EAR(S):

AP



2012 ANNUAL MONITORING REPORT

TNM 97-17

UNIT LTR K (NE ¼, SW ¼) SECTION 21, TOWNSHIP 20 SOUTH RANGE 37 EAST LEA COUNTY, NEW MEXICO PLAINS MARKETING SRS NUMBER: TNM 97-17 NMOCD REFERENCE AP-017

PREPARED FOR:

PLAINS MARKETING, L.P. 333 CLAY STREET SUITE 1600 HOUSTON, TEXAS 77022

PREPARED BY:

NOVA Safety and Environmental 2057 Commerce Street Midland, Texas 79703

March 2013

Nathan Callicoatte Project Manager

safety and environmental

Brittan K. Byerly, P.C. President

2013 WAR 28 A 11: 07

CEIVED OOD

PLAINS ALL AMERICAN

March 15, 2013

Mr. Edward Hansen New Mexico Oil Conservation Division Environmental Bureau 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Plains All American – 2012 Annual Monitoring Reports 15 Sites in Lea County, New Mexico

Dear Mr. Hansen:

Plains All American is an operator of crude oil pipelines and terminal facilities in the state of New Mexico. Plains All American actively monitors certain historical release sites exhibiting groundwater impacts, consistent with assessments and work plans developed in consultation with the New Mexico Oil Conservation Division (NMOCD). In accordance with the rules and regulations of the NMOCD, Plains All American hereby submits our Annual Monitoring reports for the following sites:

2013 MAR 28 A 11: 07

RECEIVED OOL

| 34 Junc. to Lea Sta. | 1R-0386 | Section 21, Township 20 South, Range 37 East, Lea County |
|----------------------|---------|---|
| 34 Junction South | 1R-0456 | Section 02, Township 17 South, Range 36 East, Lea County |
| Bob Durham | AP-0016 | Section 32, Township 19 South, Range 37 East, Lea County |
| HDO-90-23 | AP-009 | Section 06, Township 20 South, Range 37 East, Lea County |
| LF-59 | 1R-0103 | Section 32, Township 19 South, Range 37 East, Lea County |
| Monument 2 | 1R-0110 | Section 06, Township 20 South, Range 37 East, Lea County |
| | | Section 07, Township 20 South, Range 37 East, Lea, County |
| Monument 10 | 1R-0119 | Section 30, Township 19 South, Range 37 East, Lea County |
| Monument 17 | 1R-123 | Section 29, Township 19 South, Range 37 East, Lea County |
| Monument 18 | 1R-0124 | Section 07, Township 20 South, Range 37 East, Lea County |
| SPS-11 | GW-0140 | Section 18, Township 18 South, Range 36 East, Lea County |
| Texaco Skelly F | 1R-0420 | Section 11, Township 21 South, Range 37 East, Lea County |
| TNM 97-04 | GW-0294 | Section 11, Township 16 South, Range 35 East, Lea County |
| TNM 97-17 | AP-017 | Section 21, Township 20 South, Range 37 East, Lea County |
| TNM 97-18 | AP-0013 | Section 28, Township 20 South, Range 37 East, Lea County |
| TNM 98-05A | AP-12 | Section 26, Township 21 South, Range 37 East, Lea County |

Nova Safety and Environmental (Nova) prepared these documents and has vouched for their accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the documents and interviewed Nova personnel in order to verify the accuracy and completeness of these documents. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Reports for the above facilities.

2530 State Hwy. 214 • Denver City, TX 79323 • (575)441-1099



If you have any questions or require further information, please contact me at (575) 441-1099.

Sincerely,

Jason Henry

Remediation Coordinator Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM

Enclosures

2530 State Hwy. 214 • Denver City, TX 79323 • (575)441-1099

TABLE OF CONTENTS

| INTRODUCTION1 | |
|---|---|
| SITE DESCRIPTION AND BACKGROUND INFORMATION | |
| FIELD ACTIVITIES |) |
| LABORATORY RESULTS | 5 |
| SUMMARY |) |
| ANTICIPATED ACTIONS |) |
| LIMITATIONS10 |) |
| DISTRIBUTION12 |) |
| FIGURES | |

Figure 1 – Site Location Map

Figure 2A – Inferred Groundwater Gradient Map – February 29, 2012 2B – Inferred Groundwater Gradient Map – May 2, 2012 2C – Inferred Groundwater Gradient Map – December 6, 2012

Figure 3A – Groundwater Concentration and Inferred PSH Extent Map – February 29, 2012 3B – Groundwater Concentration and Inferred PSH Extent Map – May 2, 2012 3C – Groundwater Concentrations and Inferred PSH Extent Map – December 6, 2012

TABLES

0

 Table 1 – 2012 Groundwater Elevation Data

Table 2 – 2012 Concentrations of BTEX and TPH in Groundwater

Table 3 – 2012 Concentrations of PAH in Groundwater

APPENDICES

Appendix A – Release Notification and Corrective Action (Form C-141)

ENCLOSED ON DATA DISK

2012 Annual Monitoring Report 2012 Tables 1, 2 and 3 – Groundwater Elevation, BTEX and PAH Concentration Data 2012 Figures 1, 2A-2C, and 3A-3C Electronic Copies of Laboratory Reports Historic Table 1, 2 and 3 – Groundwater Elevation, BTEX and PAH Concentration Tables

INTRODUCTION

۲

On behalf of Plains Marketing, L.P., (Plains), NOVA Safety and Environmental (NOVA) is pleased to submit this 2012 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 NOVA. The TNM 97-17 Pipe Line Release Site, formally the responsibility of Enron Oil Trading and Transportation (EOTT), is the responsibility of Plains. The Release Notification and Corrective Action (Form C-141) is provided as Appendix A. This report is intended to be viewed as a complete document with figures, attachments, tables and text. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2012 only. For reference, the Site Location Map is provided as Figure 1. Cumulative tables and laboratory data are provided on the enclosed data disk.

Groundwater monitoring was conducted during the 1st, 2nd, and 4th quarters of 2012 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbon (PSH). Sampling was not conducted during the 3rd quarter of 2012 due to site excavation. Each groundwater monitoring event consisted of measuring static water levels in monitor 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 as per a NMOCD directive.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The legal description of the site is NE 1/4 SW 1/4 Section 21, Township 20 South, Range 37 East, Lea County, New Mexico. The TNM 97-17 release was discovered by Texas New Mexico Pipe Line Company (TNM) and reported on August 19, 1997. An estimated 170 barrels of crude oil were released with 160 barrels recovered. The release occurred from a 16-inch pipeline and was attributed to structural failure associated with internal pipeline corrosion. The Release Notification and Corrective Action (Form C-141) is provided as Appendix A. Following completion of repairs to the pipeline, approximately 1,160 cubic yards of impacted soil was excavated and stockpiled on-site pending treatment. The groundwater at this site ranges from approximately 17 to 21 feet below ground surface (bgs).

A total of 28 groundwater monitor wells (MW-1 through MW-28) and six PSH recovery wells (RW-1 through RW-6) are currently on-site. A pneumatic product recovery system formerly operated on-site, incorporating recovery well RW-6 and monitor wells MW-8, MW-14 and MW-15. The automated recovery system was decommissioned in the summer of 2007, due to declining PSH thickness, which cannot be efficiently recovered utilizing the automated recovery system. Currently, manual PSH recovery is performed on a weekly basis for monitor and recovery wells exhibiting PSH.

During the 3rd quarter of 2012, groundwater monitoring activities were not conducted due to site excavation. The excavation was backfilled in October, 2012, with remediated soil exhibiting BTEX and TPH concentrations less than NMOCD regulatory guidelines. A soil closure report will be submitted to the NMOCD during the 1st quarter of 2013.

FIELD ACTIVITIES

0

Product Recovery Efforts

A measurable thickness of PSH was recorded on five monitor wells and three recovery wells during the reporting period. The average thickness of PSH in monitor wells and recovery wells exhibiting PSH was 0.19 feet. The maximum thickness of PSH in monitor wells and recovery wells during the 2012 reporting period was 1.10 feet in monitor well MW-4 on December 11, 2012. Groundwater elevation data for the 2012 gauging events can be found in Table 1. Approximately 104 gallons (2.5 barrels) of PSH were recovered from the site during the reporting period. Approximately 2,496 gallons (approximately 59 barrels) of PSH has been recovered since project inception.

Groundwater Monitoring

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

| | NMOCD APPROVED SAMPLING SCHEDULE | | | | | | | | |
|----------|----------------------------------|----------|---------------|----------|---------------|--|--|--|--|
| Location | Schedule | Location | Schedule | Location | Schedule | | | | |
| MW-1 | Annually . | MW-13 | Annually | | Semi-Annually | | | | |
| MW-2 | Annually | MW-14 | Quarterly | MW-26 | Quarterly | | | | |
| MW-3 | Annually | MW-15 | Quarterly | MW-27 | Semi-Annually | | | | |
| | Quarterly | MW-16 | Annually | MW-28 | Annually | | | | |
| MW-5 | Quarterly | MW-17 | Annually | RW-1 | Quarterly | | | | |
| MW-6 | Quarterly | MW-18 | Annually | RW-2 | Quarterly | | | | |
| MW-7 | Quarterly | MW-19 | Quarterly | RW-3 | Quarterly | | | | |
| MW-8 | Quarterly | MW-20 | Quarterly | | Quarterly | | | | |
| MW-9 | Quarterly | MW-21 | Quarterly | RW-5 | Quarterly | | | | |
| MW-10 | Quarterly | | Semi-Annually | RW-6 | Quarterly | | | | |
| MW-11 | Annually | MW-23 | Semi-Annually | | | | | | |
| MW-12 | Annually | | Annually | | | | | | |

The site monitor wells were gauged and sampled on February 29, May 02, and December 07, 2012. Groundwater sampling was not conducted at the site in the third quarter due to excavation activities. During each sampling event, the monitor wells were purged of a minimum of three well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos pump. Groundwater was allowed to recharge and samples were collected using disposable Teflon 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.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during the four quarterly monitoring events, are depicted on Figures 2A through 2D, the Inferred Groundwater Gradient Maps. Groundwater elevation data for 2012 is provided as Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.004 feet/foot to the south-southeast as measured between monitor well MW-1 and MW-22. This is consistent with data presented on Figures 2A through 2C from earlier in the year. The corrected groundwater elevations ranged between 3486.94 to 3489.44 feet above mean sea level, in monitor well MW-22 on December 6, 2012 and in monitor well MW-4 on April 18, 2012, respectively.

LABORATORY RESULTS

ⓓ

٩

0

Monitor wells MW-4, MW-6, MW-7, MW-8, MW-14, MW-15 and MW-19 and recovery wells RW-1, RW-5 and RW-6 contained measurable PSH throughout the 2012 reporting period. Monitor wells MW-4, MW-7, MW-8 and MW-14 contained measurable PSH during at least three quarters of the reporting period and were not sampled.

Groundwater samples obtained during the quarterly sampling events of 2012 were delivered to Trace Analysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method 8021B. Polynuclear Aromatic Hydrocarbons (PAH) analysis was conducted during the 2012 calendar year on monitor wells MW-5, and MW-10, and recovery wells RW-3 and RW-4. Based upon historic PAH analytical data, only those wells exhibiting elevated constituent concentrations above WQCC standards are sampled, with the exclusion of those wells containing measurable PSH thicknesses. A listing of BTEX constituent concentrations for 2012 are summarized in Table 2 and the Historic PAH constituent concentrations are summarized in Table 3. Copies of the laboratory reports generated for 2012 are provided on the enclosed data disk. The quarterly groundwater sample results for BTEX constituent concentrations are depicted on Figures 3A through 3D.

Monitor well MW-1 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below laboratory method detection limits (MDL) and NMOCD regulatory standards of 0.01 mg/L for benzene, 0.75 mg/L for toluene, 0.75 mg/L for ethylbenzene and 0.62 for xylene during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last forty-nine consecutive quarters. PAH analysis was not required on samples from MW-1 during the 4th quarter sampling event.

Monitor well MW-2 is sampled on an annual schedule and analytical results indicate benzene, toluene, ethylbenzene and xylene concentrations were below the MDL and NMOCD regulatory standards during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last forty-nine consecutive quarters. PAH analysis was not required on samples from MW-2 during the 4th quarter sampling event.

Monitor well MW-3 is sampled on an annual schedule and analytical results indicate benzene, toluene, ethylbenzene and xylene concentrations were below the MDL and NMOCD regulatory standards, during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last forty-nine consecutive quarters. PAH analysis was not required on samples from MW-3 during the 4th quarter sampling event.

0

Monitor well MW-4 is monitored on a quarterly schedule. Monitor well MW-4 was not sampled during the 1st, 2nd, 3rd and 4th quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.36 feet, 0.24 feet and 1.09 feet were reported during the 1st, 2nd and 4th quarters of 2012, respectively. PAH analysis was not conducted on samples from MW-4 during the 4th quarter sampling event due to the presence of PSH.

Monitor well MW-5 is sampled on a quarterly schedule. Analytical results on groundwater samples collected indicate benzene concentrations ranged from 0.0295 mg/L during the 4th quarter to 0.1040 mg/L during the 1st quarter of 2012. Benzene concentrations were above the NMOCD regulatory standard during the three quarters of the reporting period in which it was sampled. Toluene concentrations were below MDLs and NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from <0.001 mg/L during the 4th quarter to 0.0404 mg/L during the 1st quarter of 2012. Ethylbenzene concentrations were below NMOCD regulatory standards during the 1st quarter of 2012. Ethylbenzene concentrations were below NMOCD regulatory standards during the three quarters of the reporting period in which it was sampled. Xylene concentrations ranged from <0.001 mg/L during the 4th quarter to 0.0422 mg/L during the 1st quarter of 2012. Xylene concentrations were below NMOCD regulatory standards during the three quarters of the reporting period in which it was sampled. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above MDLs for 1-methylnaphthalene (0.00739 mg/L), which is below WQCC standards.

Monitor well MW-6 is monitored on a quarterly schedule. Analytical results on groundwater samples collected indicate benzene concentrations were 0.0270 mg/L during the 1st quarter of 2012. Benzene concentrations were above the NMOCD regulatory standard during the first quarter of the reporting period. Toluene, ethyl-benzene and xylene concentrations were below the MDL and NMOCD regulatory standards during the reporting period. Samples were not taken during the 2^{nd} , 3^{rd} and 4^{th} quarters due to site excavation and PSH in the monitor well. PSH thickness of 0.09 feet was reported during the 4^{th} quarter of 2012. PAH analysis was not conducted on samples from MW-6 during the 4^{th} quarter sampling event due to the presence of PSH.

Monitor well MW-7 is monitored on a quarterly schedule. Monitor well MW-7 was not sampled during the 1st, 2nd and 4th quarters of the reporting period, due to the presence of PSH in the monitor well. Monitor well MW-7 was not sampled during the 3rd quarter due to site excavation. PSH thicknesses of 0.54 feet, 0.61 feet and 0.70 feet were reported during the 1st, 2nd and 4th quarters of 2012, respectively. PAH analysis was not conducted on samples from MW-7 during the 4th quarter sampling event due to the presence of PSH.

Monitor well MW-8 is monitored on a quarterly schedule. Monitor well MW-8 was not sampled during the 1^{st} , 2^{nd} and 4^{th} quarters of the reporting period, due to the presence of PSH in the monitor well. Monitor well MW-8 was not sampled during the 3^{rd} quarter due to site excavation. PSH thicknesses of 0.62 feet, 0.73 feet and 0.91 feet were reported during the 1^{st} , 2^{nd} and 4^{th} quarters of 2012, respectively. PAH analysis was not conducted on samples from MW-8 during the 4^{th} quarter sampling event due to the presence of PSH.

Monitor well MW-9 is sampled on a quarterly schedule. Monitor well MW-9 was not sampled during the 3rd and 4th quarters due to site excavation and low water levels. Analytical results indicate benzene concentrations ranged from 0.0055 mg/L during the 2nd quarter to 0.0105 mg/L during the 1st quarter of 2012. Benzene concentrations were above the NMOCD regulatory standard during the 1st quarter of the reporting period. Toluene, ethylbenzene and xylene concentrations were below the MDL and the NMOCD regulatory standards during the reporting period. PAH analysis was not required on samples from MW-9 during the 4th quarter sampling event.

0

۲

۲

Monitor well MW-10 is sampled on a quarterly schedule. Monitor well MW-10 was not sampled during the 3^{rd} quarter due to site excavation. Analytical results indicate benzene concentrations ranged from <0.005 mg/L during the 4^{th} quarter to 0.0121 mg/L during the 1^{st} quarter of 2012. Benzene concentrations were above the NMOCD regulatory standard during the 1^{st} quarter of the reporting period. Toluene, ethylbenzene and xylene concentrations were below the MDL and the NMOCD regulatory standards during the reporting period. PAH analysis during the 4^{th} quarter sampling event indicated all concentrations were below WQCC Drinking Water Standards during the reporting period.

Monitor well MW-11 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last forty consecutive quarters. PAH analysis was not required on samples from MW-11 during the 4th quarter sampling event.

Monitor well MW-12 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last forty consecutive quarters. PAH analysis was not required on samples from MW-12 during the 4th quarter sampling event.

Monitor well MW-13 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last forty-one consecutive quarters. PAH analysis was not required on samples from MW-13 during the 4th quarter sampling event.

Monitor well MW-14 is monitored on a quarterly schedule. Monitor well MW-14 was not sampled during the 1^{st} , 2^{nd} , 3^{rd} and 4^{th} quarters of the reporting period, due to the presence of PSH in the monitor well and site excavation. PSH thicknesses of 1.04 feet, 0.68 feet and 0.76 feet were reported during the 1^{st} , 2^{nd} and 4^{th} quarters of 2012, respectively. PAH analysis was not required on samples from MW-14 during the 4^{th} quarter sampling event, due to the presence of PSH.

Monitor well MW-15 is monitored on a quarterly schedule. Monitor well MW-15 was not sampled during the 3^{rd} and 4^{th} quarters of the reporting period due to the presence of PSH in the monitor well and site excavation. PSH thicknesses of 0.22 feet were reported during 4^{th} quarter

of 2012. Analytical results indicate benzene concentrations ranged from 0.1420 mg/L during the 2nd quarter to 0.2550 during the 1st quarter of 2012. Benzene concentrations were above the NMOCD regulatory standard during the 1st and 2nd quarters of the reporting period. Toluene, ethylbenzene and xylene concentrations were below the MDL and the NMOCD regulatory standards during the 1st and 2nd quarters of the reporting period. PAH analysis was not conducted on samples from MW-15 during the 4th quarter sampling event due to the presence of PSH. **Monitor well MW-16** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have below regulatory standards for the last forty consecutive quarters. PAH analysis was not required on samples from MW-16 during the 4th quarter sampling event.

Õ

Monitor well MW-17 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last thirty-nine consecutive quarters. PAH analysis was not required on samples from MW-17 during the 4th quarter sampling event.

Monitor well MW-18 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below MDL and NMOCD regulatory standards during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last forty consecutive quarters. PAH analysis was not required on samples from MW-18 during the 4th quarter sampling event.

Monitor well MW-19 is monitored on a quarterly schedule. Monitor well MW-19 was not sampled during the 3^{rd} and 4^{th} quarters of the reporting period due to the presence of PSH in the monitor well and site excavation Analytical results indicate benzene concentrations ranged from 0.2550 mg/L during the 2^{nd} quarter to 0.3070 mg/L during the 1^{st} quarter of 2012. Benzene concentrations were above the NMOCD regulatory standard during the reporting period. Toluene concentrations were below MDLs and NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0404 mg/L in the 2^{nd} quarter to 0.0515 mg/L in the 1^{st} quarter of 2012. Ethylbenzene concentrations were below NMOCD regulatory standards during the reporting period. NMOCD regulatory standards during the 2^{nd} quarter to 0.0635 mg/L during the 1^{st} quarter of 2012. Xylene concentrations were below NMOCD regulatory standards during the reporting period. PAH analysis was not conducted on samples from MW-19 during the 4^{th} quarter sampling event due to the presence of PSH.

Monitor well MW-20 is sampled on a quarterly schedule. Monitor well MW-20 was not sampled during the 3^{rd} quarter due to site excavation. Analytical results indicate benzene concentrations ranged from 0.0136 mg/L during the 4^{th} quarter to 0.0245 mg/L during the 2^{nd} quarter of 2012. Benzene concentrations were above the NMOCD regulatory standard during the reporting period. Toluene and ethyl-benzene concentrations were below the MDL and NMOCD regulatory standards during the four quarterly sampling events of 2012. Xylene concentrations were below the 4^{th} quarter to 0.0246 mg/L during the 1^{st} quarter of 2012. Xylene concentrations were below the NMOCD regulatory standard during the 1^{st} quarter of 2012. Xylene concentrations were below the NMOCD regulatory standard during the 1^{st}

reporting period. PAH analysis was not required on samples from MW-20 during the 4th quarter sampling event.

Ō

Ŏ

Monitor well MW-21 is sampled on a quarterly schedule. Monitor well MW-21 was not sampled during the 3^{rd} quarter due to site excavation. Analytical results indicate benzene concentrations ranged from <0.005 mg/L during the 4^{th} quarter to 0.0146 mg/L during the 1^{st} quarter of 2012. Benzene concentrations were above the NMOCD regulatory standard during the 1^{st} and 2^{nd} quarter of the reporting period. Toluene, ethylbenzene and xylene concentrations were below the MDL and NMOCD regulatory standards during the reporting period. PAH analysis was not required on samples from MW-21 during the 4^{th} quarter sampling event.

Monitor well MW-22 is sampled on a semi-annual schedule. Analytical results on groundwater samples collected during the 2^{nd} and 4^{th} quarter events indicated BTEX constituent concentrations were below the MDL and NMOCD regulatory standards during the 4^{th} quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last twenty-four consecutive quarters. PAH analysis was not required on samples from MW-22 during the 4^{th} quarter sampling event.

Monitor well MW-23 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards during the 2nd and 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last twenty-four consecutive quarters. PAH analysis was not required on samples from MW-23 during the 4th quarter sampling event.

Monitor well MW-24 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below MDL and NMOCD regulatory standards during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last forty consecutive quarters. PAH analysis was not required on samples from MW-24 during the 4th quarter sampling event.

Monitor well MW-25 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below MDL and NMOCD regulatory standards during the 2nd and 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last forty-one consecutive quarters. PAH analysis was not required on samples from MW-25 during the 4th quarter sampling event.

Monitor well MW-26 is sampled on a quarterly schedule. Monitor well MW-26 was not sampled during the 3^{rd} quarter due to site excavation. Analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 4^{th} quarter to 0.0086 mg/L during the 1^{st} quarter of 2012. Benzene concentrations were below the NMOCD regulatory standard during the reporting period. Toluene, ethyl-benzene and xylene concentrations were below the MDL and NMOCD regulatory standards during the reporting period. PAH analysis was not required on samples from MW-26 during the 4^{th} quarter sampling event.

Monitor well MW-27 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below MDL and NMOCD regulatory standards during the 2^{nd} and 4^{th} quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last forty-one consecutive quarters. PAH analysis was not required on samples from MW-27 during the 4^{th} quarter sampling event.

۲

Monitor well MW-28 is sampled on an annual schedule. Analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below regulatory standards for the last forty consecutive quarters. PAH analysis was not conducted on samples from MW-28 during the 4th quarter sampling event.

Recovery well RW-1 is monitored on a quarterly schedule. Recovery well RW-1 was not sampled during the 1st, 3rd and 4th quarters of the reporting period, due to the presence of PSH in the monitor well and site excavation. PSH thickness of 0.01 feet was reported during the 4th quarter. Analytical results indicate benzene concentrations were 0.3220 mg/L during the 2nd quarter of 2012. Benzene concentrations were above the NMOCD regulatory standard during the 2nd quarter of the reporting period. Toluene, ethylbenzene and xylene concentrations were below NMOCD and MDLs regulatory standards during the reporting period. PAH analysis was not conducted on samples from RW-1 during the 4th quarter sampling event due to the presence of PSH.

Recovery well RW-2 is sampled on a quarterly schedule. Recovery well RW-2 was not sampled during the 3rd and 4th quarters of the reporting period due to site excavation and low water levels. Analytical results indicate benzene concentrations ranged from 0.0131 mg/L during the 2nd quarter to 0.0547 mg/L during the 1st quarter of 2012. Benzene concentrations were above the NMOCD regulatory standard during the reporting period. Toluene and xylene concentrations were below the MDL and NMOCD regulatory standards during 2012. Ethylbenzene concentrations ranged from <0.001 mg/L during the 1st quarter of 2012. Benzene to 0.0086 mg/L during the 1st quarter of 2012. Ethylbenzene concentrations were below the NMOCD regulatory standard during the 2nd quarter to 0.0086 mg/L during the 1st quarter of 2012. Ethylbenzene concentrations were below the NMOCD regulatory standard during the 2nd quarter sampled from <0.001 mg/L during the 2nd quarter to 0.0086 mg/L during the 1st quarter of 2012. Ethylbenzene concentrations were below the NMOCD regulatory standard during the reporting period. PAH analysis was not conducted on samples from RW-2 during the 4th quarter sampling event.

Recovery well RW-3 is sampled on a quarterly schedule. Recovery well RW-3 was not sampled during the 3^{rd} quarter of the reporting period due to site excavation. Analytical results indicate benzene concentrations ranged from 0.0209 mg/L during the 4^{th} quarter to 0.2510 mg/L during the 2^{nd} quarter of 2012. Benzene concentrations were above the NMOCD regulatory standard during the reporting period. Toluene concentrations ranged from <0.005 mg/L during the 4^{th} quarter to <0.020 mg/L during the 1^{st} and 2^{nd} quarters of 2012. Ethylbenzene concentrations ranged from <0.005 mg/L during the 1^{st} and 2^{nd} quarters of 2012. Ethylbenzene concentrations ranged from <0.005 mg/L during the 4^{th} quarter to <0.020 mg/L during the 1^{st} and 2^{nd} quarters of 2012. Ethylbenzene concentrations were below the NMOCD regulatory standard during the reporting period. Xylene concentrations ranged from <0.005 mg/L during the 1^{st} and 2^{nd} quarters of 2012. Xylene concentrations were below the NMOCD regulatory standard during the NMOCD regulatory standard during the reporting period. PAH analysis during the 4^{th} quarter to <0.020 mg/L during the 1^{st} and 2^{nd} quarters of 2012. Yylene concentrations were below the NMOCD regulatory standard during the reporting period. PAH analysis during the 4^{th} quarter to <0.020 mg/L), which is below WQCC standards.

Ð ❶ 0

Recovery well RW-4 is sampled on a quarterly schedule. Recovery well RW-4 was not sampled during the 3^{rd} quarter of the reporting period due to site excavation. Analytical results indicate benzene concentrations ranged from 0.2760 mg/L during the 4^{th} quarter to 0.6290 mg/L during the 2^{nd} quarter of 2012. Benzene concentrations were above the NMOCD regulatory standard during the reporting period. Toluene concentrations ranged from <0.005 mg/L during the 4^{th} quarter to <0.020 mg/L during the 1^{st} and 2^{nd} quarters of 2012. Ethylbenzene concentrations ranged from <0.020 mg/L during the 1^{st} quarter to 0.2110 mg/L during the 2^{nd} quarter of 2012. Ethylbenzene concentrations were below the NMOCD regulatory standard during the reporting period. Xylene concentrations ranged from <0.020 mg/L during the 2^{nd} quarter of 2012. Xylene concentrations were below the NMOCD regulatory standard during the reporting period. PAH analysis during the 4^{th} quarter sampling event indicated elevated concentrations above MDLs for 1-methylnaphthalene (0.0076 mg/L), which is below WQCC standards.

Recovery well RW-5 is monitored on a quarterly schedule. Recovery well RW-5 was not sampled during the 1st, 3rd and 4th quarters of the reporting period, due to the presence of PSH in the monitor well and site excavation. PSH thicknesses of 0.01 feet and 0.90 feet were reported during the 2nd and 4th quarters of 2012, respectively. Analytical results indicate benzene concentrations were 0.3490 mg/L during the 2nd quarter of 2012. Toluene concentrations were below the NMOCD and MDLs regulatory standards during the reporting period. Ethylbenzene concentrations were 0.2010 mg/L during the 2nd quarter of 2012, which is below NMOCD regulatory standards. Xylene concentrations were 0.1940 mg/L during the 2nd quarter of 2012, which is below NMOCD regulatory standards. PAH analysis was not conducted on samples from RW-5 during the 4th quarter sampling event, due to the presence of PSH.

Recovery well RW-6 is monitored on a quarterly schedule. Recovery well RW-6 was not sampled during the 1^{st} , 2^{nd} , 3^{rd} and 4^{th} quarters of the reporting period, due to the presence of PSH in the monitor well and site excavation. PSH thicknesses of 0.52 feet, 0.31 feet and 0.01 feet were reported during the 1^{st} , 2^{nd} and 4^{th} quarters of 2012, respectively. PAH analysis was not conducted on samples from RW-6 during the 4^{th} quarter sampling event, due to the presence of PSH.

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

SUMMARY

This report presents the results of monitoring activities for the 2012 annual monitoring period. Currently, there are 28 groundwater monitor wells (MW-1 through MW-28) and six product recovery wells (RW-1 through RW-6) on-site. A pneumatic product recovery system operated on-site, incorporating recovery well RW-6 and monitor wells MW-8, MW-14 and MW-15. The automated recovery system was decommissioned in the summer of 2007, due to declining PSH thickness, which cannot be efficiently recovered utilizing the automated recovery system. Currently, manual PSH recovery is performed on a weekly basis for monitor and recovery wells exhibiting PSH. Approximately 104 gallons (2.5 barrels) of PSH were recovered from the site during the reporting period. Approximately 2,496 gallons (approximately 59 barrels) of PSH has been recovered since project inception.

During the reporting period, five monitor wells (MW-4, MW-7, MW-8, MW-14 and MW-15) and three recovery wells (RW-1, RW-5 and RW-6) contained measurable PSH during at least three or more quarters of the 2012 reporting period.

The average thickness of PSH in monitor wells and recovery wells exhibiting PSH was 0.19 feet. The maximum thickness of PSH in monitor wells and recovery wells during the 2012 reporting period was 1.10 feet in monitor well MW-4 on December 11, 2012. In comparison, the maximum PSH thickness reported during the 2010 reporting period was 2.05 feet.

Groundwater elevation contours generated from water level measurements acquired indicated a general gradient of approximately 0.004 feet/foot to the south-southeast.

Review of laboratory analytical results of the groundwater samples obtained during the 2012 monitoring period indicates the BTEX constituent concentrations are below applicable NMOCD standards in 15 of the 28 monitor wells currently on-site. Dissolved phase and phase separated hydrocarbon impact appears to be limited to monitor wells MW-4 through MW-8, MW-14, MW-15 and MW-19 and recovery wells RW-1, RW-5 and RW-6. Analytical results on groundwater samples collected indicate PAH concentrations are demonstrating a fluctuating trend in MW-4 and MW-5 and a decreasing trend in MW-10 and RW-3.

ANTICIPATED ACTIONS

۲

۲

Quarterly gauging and sampling will continue in 2013. Manual product recovery will continue weekly and will be adjusted according to site conditions. An Annual Monitoring Report will be submitted to the NMOCD before April 1, 2014.

Monitor well MW-9 and recovery well RW-2 were damaged during excavation to a point where they can no longer be sampled. Plains respectfully requests NMOCD approval to plug and abandon these wells.

Based on the results of the PAH analysis over the past several years, further PAH analysis will be conducted only on those monitor wells (MW-5, MW-6, MW-10, MW-19) and recovery wells (RW-1 through RW-4) which have historically exhibited elevated constituents near or above the WQCC standards. PAH analysis will also be conducted on those monitoring wells where NAPL is no longer detected (including MW-15).

LIMITATIONS

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

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

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

DISTRIBUTION

| Copy 1 | Ed Hansen New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505 |
|---------|---|
| Copy 2: | Geoffrey R. Leking New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1625 French Drive Hobbs, NM 88240 |
| Copy 3: | Jason Henry Plains Marketing, L.P. 2530 State Highway 214 Denver City, TX 79323 jhenry@paalp.com |
| Copy 4: | Jeff Dann Plains Marketing, L.P. 333 Clay Street Suite 1600 Houston, TX 77002 jpdann@paalp.com |
| Copy 5: | NOVA Safety and Environmental 2057 Commerce Street Midland, TX 79703 ncallicoatte@novatraining.cc |

FIGURES

.

•

٠

•

0

0

ſ

.













•



1

.

(

GROUNDWATER ELEVATION DATA - 2012

TNM 97-17

LEA COUNTY, NEW MEXICO PLAINS MARKETING, L.P. NMOCD REFERENCE NUMBER AP-017

| | | TOP OF | | | - | CORRECTED |
|-----------------|---|--|------------|----------|------------------|--------------------------|
| WELL | DATE | CASING | DEPTH TO | DEPTH TO | PSH THICKNESS | GROUNDWATER ELEVATION |
| NUMBER | MEASURED | ELEVATION | PRODUCT | WATER | | |
| MW - 1 | 02/29/12 | 3510.90 | - | 21.34 | 0.00 | 3489.56 |
| MW - 1 | 05/02/12 | 3510.90 | - | 21.29 | 0.00 | 3489.61 |
| MW - 1 | 12/06/12 | 3510.90 | - | 21.62 | 0.00 | 3489.28 |
| | | | | | | |
| MW - 2 | 02/29/12 | 3509.23 | - | 20.24 | 0.00 | 3488.99 |
| MW - 2 | 05/02/12 | 3509.23 | | 20.15 | 0.00 | 3489.08 |
| MW - 2 | 12/06/12 | 3509.23 | | 20.43 | 0.00 | 3488.80 |
| | | | | | | |
| <u>MW - 3</u> | 02/29/12 | 3508.82 | - | 19.94 | 0.00 | 3488.88 |
| MW - 3 | 05/02/12 | 3508.82 | - | 19.84 | 0.00 | 3488.98 |
| MW - 3 | 12/06/12 | 3508.82 | - | 20.21 | 0.00 | 3488.61 |
| | | Hard and a second s | Piera N.S. | | | |
| MW - 4 | 01/12/12 | 3509.15 | 20.03 | 20.25 | 0.22 | 3489.09 |
| MW - 4 | 01/19/12 | 3509.15 | 19.99 | 20.20 | 0.21 | 3489.13 |
| MW - 4 | 02/03/12 | 3509.15 | 19.95 | 20.19 | 0.24 | 3489.16 |
| MW - 4 | 02/29/12 | 3509.15 | 19.84 | 20.20 | 0.36 | 3489.26 |
| MW - 4 | 03/14/12 | 3509.15 | 19.79 | 20.13 | 0.34 | 3489.31 |
| <u>MW - 4</u> | 03/19/12 | 3509.15 | 19.70 | 19.95 | 0.25 | 3489.41 |
| MW - 4 | 03/29/12 | 3509.15 | 19.74 | 20.00 | 0.26 | 3489.37 |
| <u>MW - 4</u> | 04/05/12 | 3509.15 | 19.71 | 19.97 | 0.26 | 3489.40 |
| MW - 4 | 04/18/12 | 3509.15 | 19.67 | 19.93 | 0.26 | 3489.44 |
| MW - 4 | 04/27/12 | 3509.15 | 19.71 | 19.97 | 0.26 | 3489.40 |
| MW - 4 | 05/02/12 | 3509.15 | 19.77 | 20.01 | 0.24 | 3489.34 |
| MW - 4 | 05/31/12 | 3509.15 | 19.72 | 20.10 | 0.38 | 3489.37 |
| MW - 4 | 06/08/12 | 3509.15 | 19.76 | 20.34 | 0.58 | 3489.30 |
| MW - 4 | 06/12/12 | 3509.15 | 19.83 | 20.18 | 0.35 | 3489.27 |
| MW - 4 | 06/21/12 | 3509.15 | 19.82 | 20.17 | 0.35 | 3489.28 |
| MW - 4 | 06/29/12 | 3509.15 | 19.90 | 20.05 | 0.15 | 3489.23 |
| MW - 4 | 07/13/12 | 3509.15 | 20.10 | 20.35 | 0.25 | 3489.01 |
| MW - 4 | 12/06/12 | 3509.15 | 20.52 | 21.61 | 1.09 | 3488.47 |
| <u>MW - 4</u> | 12/11/12 | 3509.15 | 20.53 | 21.63 | 1.10 | 3488.46 |
| MW - 4 | 12/18/12 | 3509.15 | 20.52 | 21.47 | 0.95 | 3488.49 |
| the best in the | - x (, , , , , , , , , , , , , , , , , , | | | | | |
| MW - 5 | 01/12/12 | 3509.96 | | 20.80 | | 3489.16 |
| MW - 5 | 01/19/12 | 3509.96 | | 20.70 | | 3489.26 |
| MW - 5 | 02/03/12 | 3509.96 | | 20.89 | | 3489.07 |
| MW - 5 | 02/09/12 | 3509.96 | - | 20.59 | <u> </u> | 3489.37 |
| <u>MW - 5</u> | 03/14/12 | 3509.96 | - | 20.50 | | 3489.46 |
| MW - 5 | 03/19/12 | 3509.96 | - | 20.56 | | 3489.40 |
| MW - 5 | 03/29/12 | 3509.96 | | 20.46 | | 3489.50 |
| MW - 5 | 04/05/12 | 3509.96 | - | 20.43 | | 3489.53 |
| MW - 5 | 04/18/12 | 3509.96 | ` - | 20.39 | | 3489.57 |
| <u>MW - 5</u> | 04/27/12 | 3509.96 | - | 20.43 | | 3489.53 |
| <u>MW - 5</u> | 05/02/12 | 3509.96 | - | 20.53 | | 3489.43 |
| MW - 5 | 05/31/12 | 3509.96 | | 20.45 | | 3489.51 |

.

GROUNDWATER ELEVATION DATA - 2012

TNM 97-17

LEA COUNTY, NEW MEXICO PLAINS MARKETING, L.P. NMOCD REFERENCE NUMBER AP-017

| WELL | DATE | TOP OF CASING | DEPTH TO | ДЕРТН ТО | PSH | CORRECTED GROUNDWATER |
|---------------|----------|------------------|--|-----------------|-----------|--------------------------|
| NUMBER | MEASURED | ELEVATION | PRODUCT | WATER | THICKNESS | ELEVATION |
| MW - 5 | 06/08/12 | 3509.96 | - | 20.50 | | 3489.46 |
| MW - 5 | 06/12/12 | 3509.96 | - | 20.59 | | 3489.37 |
| MW - 5 | 06/21/12 | 3509.96 | | 20.59 | | 3489.37 |
| MW - 5 | 06/29/12 | 3509.96 | | 20.68 | | 3489.28 |
| MW - 5 | 07/13/12 | 3509.96 | | 20.86 | | 3489.10 |
| MW - 5 | 12/06/12 | 3509.96 | | 20.80 | | 3489.14 |
| MW - 5 | 12/11/12 | 3509.96 | | 20.82 | | 3489.12 |
| MW - 5 | 12/18/12 | 3509.96 | | 20.84 | | 3489.12 |
| | | | | | | |
| MW - 6 | 01/12/12 | 3507.94 | 9 867999933-22×78/1+3.559994999 | 18.92 | 0.00 | 3489.02 |
| MW - 6 | 01/19/12 | 3507.94 | - | 18.90 | 0.00 | 3489.04 |
| MW - 6 | 02/03/12 | 3507.94 | | 18.88 | 0.00 | 3489.06 |
| MW - 6 | 02/29/12 | 3507.94 | | 18.77 | 0.00 | 3489.17 |
| MW - 6 | 03/14/12 | 3507.94 | - | 18.72 | 0.00 | 3489.22 |
| MW - 6 | 03/19/12 | 3507.94 | | 18.72 | 0.00 | 3489.22 |
| MW - 6 | 03/29/12 | 3507.94 | | 18.70 | 0.00 | 3489.24 |
| MW - 6 | 04/05/12 | 3507.94 | - | 18.66 | 0.00 | 3489.28 |
| MW - 6 | 04/18/12 | 3507.94 | | 18.62 | 0.00 | 3489.32 |
| MW - 6 | 04/27/12 | 3507.94 | _ | 18.66 | 0.00 | 3489.28 |
| MW - 6 | 05/02/12 | 3507.94 | - | 18.70 | 0.00 | 3489.24 |
| MW - 6 | 05/31/12 | 3507.94 | - | 18.66 | 0.00 | 3489.28 |
| MW - 6 | 06/08/12 | 3507.94 | - | 19.63 | 0.00 | 3488.31 |
| MW - 6 | 06/12/12 | 3507.94 | - | 18.76 | 0.00 | 3489.18 |
| MW - 6 | 06/21/12 | 3507.94 | - | 18.76 | 0.00 | .3489.18 |
| MW - 6 | 06/29/12 | 3507.94 | - | 18.83 | 0.00 | 3489.11 |
| MW - 6 | 07/13/12 | 3507.94 | | 19.02 | 0.00 | 3488.92 |
| MW - 6 | 12/06/12 | 3507.94 | 19.02 | 19.11 | 0.09 | 3488.91 |
| MW - 6 | 12/11/12 | 3507.94 | 19.02 | 19.14 | 0.12 | 3488.90 |
| MW - 6 | 12/18/12 | 3507.94 | 19.01 | 19.07 | 0.06 | 3488.92 |
| | | | $-d_{\vec{r}}$ | A A A A A A | | |
| <u>MW - 7</u> | 01/12/12 | 3507.08 | 18.19 | 18.49 | 0.30 | 3488.85 |
| MW - 7 | 01/19/12 | 3507.08 | 18.13 | 18.33 | 0.20 | 3488.92 |
| <u>MW - 7</u> | 02/03/12 | 3507.08 | 18.08 | 18.49 | 0.41 | 3488.94 |
| <u>MW - 7</u> | 02/29/12 | 3507.08 | 17.99 | 18.53 | 0.54 | 3489.01 |
| <u>MW - 7</u> | 03/14/12 | 3507.08 | 17.94 | 18.51 | 0.57 | 3489.05 |
| <u>MW - 7</u> | 03/19/12 | 3507.08 | 17.90 | 18.41 | 0.51 | 3489.10 |
| <u>MW - 7</u> | 03/29/12 | 3507.08 | 17.88 | 18.46 | 0.58 | 3489.11 |
| <u>MW - 7</u> | 04/05/12 | 3507.08 | 17.85 | 18.47 | 0.62 | 3489.14 |
| <u>MW - 7</u> | 04/18/12 | 3507.08 | 17.81 | 18.42 | 0.61 | 3489.18 |
| <u>MW - 7</u> | 04/27/12 | 3507.08 | 17.85 | 18.47 | 0.62 | 3489.14 |
| <u>MW - 7</u> | 05/02/12 | 3507.08 | 17.89 | 18.50 | 0.61 | 3489.10 |
| <u>MW - 7</u> | 05/31/12 | 3507.08 | 17.89 | 18.65 | 0.76 | 3489.08 |
| <u>MW - 7</u> | 06/08/12 | 3507.08 | 17.95 | 18.83 | 0.88 | 3489.00 |
| <u>MW - 7</u> | 06/12/12 | 3507.08 | 17.99 | 18.78 | 0.79 | 3488.97 |
| MW - 7 | 06/21/12 | 3507.08 | 17.94 | 18.46 | 0.52 | 3489.06 |

.

•

0

GROUNDWATER ELEVATION DATA - 2012

TNM 97-17

LEA COUNTY, NEW MEXICO PLAINS MARKETING, L.P. NMOCD REFERENCE NUMBER AP-017

| | | TOP OF | | | | CORRECTED |
|-----------------------|-----------------------|--|---|----------|-----------|--|
| WELL | DATE | CASING | DEPTH TO | DEPTH TO | PSH | GROUNDWATER |
| NUMBER | MEASURED | ELEVATION | PRODUCT | WATER | THICKNESS | ELEVATION |
| <u>MW - 7</u> | 06/29/12 | 3507.08 | 18.02 | 18.55 | 0.53 | 3488.98 |
| <u>MW</u> - 7 | 07/13/12 | 3507.08 | 18.21 | 18.69 | 0.48 | 3488.80 |
| MW - 7 | 12/06/12 | 3507.08 | 18.21 | 18.91 | 0.70 | 3488.77 |
| MW - 7 | 12/11/12 | 3507.08 | 18.21 | 18.94 | 0.73 | 3488.76 |
| MW - 7 | 12/18/12 | 3507.08 | 18.19 | 18.83 | 0.64 | 3488.79 |
| | | | | | | |
| MW - 8 | 01/12/12 | 3506.39 | 17.78 | 18.24 | 0.46 | 3488.54 |
| MW - 8 | 01/19/12 | 3506.39 | 17.71 | 18.13 | 0.42 | 3488.62 |
| MW - 8 | 02/03/12 | 3506.39 | 17.68 | 18.19 | 0.51 | 3488.63 |
| MW - 8 | 02/29/12 | 3506.39 | 17.58 | 18.20 | 0.62 | 3488.72 |
| MW - 8 | 03/14/12 | 3506.39 | 17.54 | 18.09 | 0.55 | 3488.77 |
| MW - 8 | 03/19/12 | 3506.39 | 17.53 | 17.99 | 0.46 | 3488.79 |
| MW - 8 | 03/29/12 | 3506.39 | 17.48 | 18.01 | 0.53 | 3488.83 |
| MW - 8 | 04/05/12 | 3506.39 | 17.46 | 18.02 | 0.56 | 3488.85 |
| MW - 8 | 04/18/12 | 3506.39 | 17.43 | 18.00 | 0.57 | 3488.87 |
| MW - 8 | 04/27/12 | 3506.39 | 17.46 | 18.02 | 0.56 | 3488.85 |
| MW - 8 | 05/02/12 | 3506.39 | 17.58 | 18.31 | 0.73 | 3488.70 |
| MW - 8 | 05/31/12 | 3506.39 | 17.49 | 18.17 | 0.68 | 3488.80 |
| MW - 8 | 06/08/12 | 3506.39 | 17.52 | 18.19 | 0.67 | 3488.77 |
| MW - 8 | 06/12/12 | 3506.39 | 17.55 | 18.13 | 0.58 | 3488.75 |
| MW - 8 | 06/21/12 | 3506.39 | 17.49 | 18.01 | 0.52 | 3488.82 |
| MW - 8 | 06/29/12 | 3506.39 | 17.58 | 18.06 | 0.48 | 3488.74 |
| MW - 8 | 07/13/12 | 3506.39 | 17.78 | 18.33 | 0.55 | 3488.53 |
| MW - 8 | 12/06/12 | 3506.39 | 19.85 | 20.76 | 0.91 | 3486.40 |
| MW - 8 | 12/11/12 | 3506.39 | 19.85 | 20.77 | 0.92 | 3486.40 |
| MW - 8 | 12/18/12 | 3506.39 | 19.83 | 20.69 | 0.86 | 3486.43 |
| | · • • | | 5-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | | | |
| MW - 9 | 02/29/12 | 3509.36 | - | 20.28 | 0.00 | 3489.08 |
| MW - 9 | 05/02/12 | 3509.36 | - | 20.19 | 0.00 | 3489.17 |
| MW - 9 | 12/06/12 | 3509.36 | - | - | - | - |
| | and the second of the | | | | | |
| MW - 10 | 12/06/12 | 3509.91 | - | 21.17 | 0.00 | 3488.74 |
| MW - 10 | 12/11/12 | 3509.91 | - | 21.17 | 0.00 | 3488.74 |
| MW - 10 | 12/18/12 | 3509.91 | - | 21.16 | 0.00 | 3488.75 |
| | | 2000 - 100 - | | | | |
| MW - 11 | 02/29/12 | 3509.27 | - | 19.83 | 0.00 | 3489.44 |
| MW - 11 | 05/02/12 | 3509.27 | - | 19.76 | 0.00 | 3489.51 |
| MW - 11 | 12/06/12 | 3509.27 | - | 20.12 | 0.00 | 3489.15 |
| and the second second | | | | | | · · · · · · · · · · · · · · · · · · · |
| MW - 12 | 02/29/12 | 3508.63 | - | 19.46 | 0.00 | 3489.17 |
| MW - 12 | 05/02/12 | 3508.63 | - | 19.37 | 0.00 | 3489.26 |
| MW - 12 | 12/06/12 | 3508.63 | - | 19.73 | 0.00 | 3488.90 |
| | | | | | ± | a second and a second |
| MW - 13 | 02/29/12 | 3507.96 | | 18.96 | 0.00 | 3489.00 |
| MW - 13 | 05/02/12 | 3507.96 | - | 18.96 | 0.00 | 3489.00 |

GROUNDWATER ELEVATION DATA - 2012

TNM 97-17

LEA COUNTY, NEW MEXICO PLAINS MARKETING, L.P. NMOCD REFERENCE NUMBER AP-017

| WELL | DATE | TOP OF CASING | ДЕРТН ТО | ДЕРТН ТО | PSH | CORRECTED GROUNDWATER |
|-----------------|----------|------------------|--|----------------------|-----------|--------------------------|
| NUMBER | MEASURED | ELEVATION | PRODUCT | WATER | THICKNESS | ELEVATION |
| MW - 13 | 12/06/12 | 3507.96 | TRODUCT | 19.23 | 0.00 | 3488.73 |
| | | 5307.90 | | | | 5400.75 |
| MW - 14 | 01/12/12 | 3507.46 | 19.00 | 19.90 | 0.90 | 3488.33 |
| <u>MW - 14</u> | 01/12/12 | 3507.46 | 18.93 | 19.82 | 0.89 | 3488.40 |
| MW - 14 | 02/03/12 | 3507.46 | 18.93 | 19.85 | 0.94 | 3488.41 |
| MW - 14 | 02/09/12 | 3507.46 | 18.79 | 19.83 | 1.04 | 3488.51 |
| MW - 14 | 03/14/12 | 3507.46 | 18.76 | 19.71 | 0.95 | 3488.56 |
| MW - 14 | 03/19/12 | 3507.46 | 18.77 | 19.46 | 0.69 | 3488.59 |
| MW - 14 | 03/29/12 | 3507.46 | 18.73 | 19.43 | 0.70 | 3488.63 |
| MW - 14 | 04/05/12 | 3507.46 | 18.71 | 19.42 | 0.71 | 3488.64 |
| MW - 14 | 04/18/12 | 3507.46 | 18.67 | 19.36 | 0.69 | 3488.69 |
| MW - 14 | 04/27/12 | 3507.46 | 18.71 | 19.42 | 0.71 | 3488.64 |
| MW - 14 | 05/02/12 | 3507.46 | 18.72 | 19.40 | 0.68 | 3488.64 |
| MW - 14 | 05/31/12 | 3507.46 | 18.69 | 19.62 | 0.93 | 3488.63 |
| MW - 14 | 06/08/12 | 3507.46 | 18.73 | 19.50 | 0.77 | 3488.61 |
| MW - 14 | 06/12/12 | 3507.46 | 18.81 | 19.62 | 0.81 | 3488.53 |
| MW - 14 | 06/21/12 | 3507.46 | 18.81 | 19.63 | 0.82 | 3488.53 |
| MW - 14 | 06/29/12 | 3507.46 | 18.82 | 19.81 | 0.99 | 3488.49 |
| MW - 14 | 07/13/12 | 3507.46 | 19.03 | 20.04 | 1.01 | 3488.28 |
| MW - 14 | 12/06/12 | 3507.46 | 19.82 | 20.58 | 0.76 | 3487.53 |
| MW - 14 | 12/11/12 | 3507.46 | 19.84 | 20.44 | 0.60 | 3487.53 |
| MW - 14 | 12/18/12 | 3507.46 | 19.83 | 19.97 | 0.14 | 3487.61 |
| | | | | | | |
| MW - 15 | 02/03/12 | 3506.48 | - | 18.04 | 0.00 | 3488.44 |
| MW - 15 | 02/29/12 | 3506.48 | - | 17.96 | 0.00 | 3488.52 |
| MW - 15 | 03/14/12 | 3506.48 | - | 17.88 | 0.00 | 3488.60 |
| MW - 15 | 03/19/12 | 3506.48 | - | 17.96 | 0.00 | 3488.52 |
| MW - 15 | 03/29/12 | 3506.48 | - | 17.89 | 0.00 | 3488.59 |
| MW - 15 | 04/05/12 | 3506.48 | - | 17.84 | 0.00 | 3488.64 |
| MW - 15 | 04/18/12 | 3506.48 | - | 17.78 | 0.00 | 3488.70 |
| MW - 15 | 04/27/12 | 3506.48 | - | 17.84 | 0.00 | 3488.64 |
| MW - 15 | 05/02/12 | 3506.48 | - | 17.86 | 0.00 | 3488.62 |
| MW - 15 | 05/31/12 | 3506.48 | - | 17.83 | 0.00 | 3488.65 |
| MW - 15 | 06/08/12 | 3506.48 | - | 17.85 | 0.00 | 3488.63 |
| <u>MW - 15</u> | 06/12/12 | 3506.48 | - | 17.89 | 0.00 | 3488.59 |
| <u>MW</u> - 15 | 06/21/12 | 3506.48 | | 17.91 | 0.00 | 34 <u>88</u> .57 |
| MW - 15 | 06/29/12 | 3506.48 | - | 17.93 | 0.00 | 3488.55 |
| <u>MW</u> - 15 | 07/13/12 | 3506.48 | 18.11 | 18.43 | 0.32 | 3488.32 |
| <u>MW</u> - 15 | 12/06/12 | 3506.48 | 20.09 | 20.31 | 0.22 | 3486.36 |
| MW - 15 | 12/11/12 | 3506.48 | 20.08 | 20.27 | 0.19 | 3486.37 |
| <u>MW - 15</u> | 12/18/12 | 3506.48 | 20.07 | 20.22 | 0.15 | 3486.39 |
| | | 1. g - 1 | n se di se d | en frank i Star Star | 1 | |
| <u>M</u> W - 16 | 02/29/12 | 3509.38 | - ' | 20.20 | 0.00 | 3489.18 |
| <u>MW</u> - 16 | 05/02/12 | 3509.38 | - | 20.11 | 0.00 | 3489.27 |
| MW - 16 | 12/06/12 | 3509.38 | - | 20.48 | 0.00 | 3488.90 |

GROUNDWATER ELEVATION DATA - 2012

TNM 97-17

LEA COUNTY, NEW MEXICO PLAINS MARKETING, L.P. NMOCD REFERENCE NUMBER AP-017

| | | TOP OF | | | | CORRECTED |
|---------|----------|---|-----------------|-----------------|-----------|-------------|
| WELL | DATE | CASING | ДЕРТН ТО | ДЕРТН ТО | PSH | GROUNDWATER |
| NUMBER | MEASURED | ELEVATION | PRODUCT | WATER | THICKNESS | ELEVATION |
| | | | | | | |
| MW - 17 | 02/29/12 | 3507.56 | - | 19.12 | 0.00 | 3488.44 |
| MW - 17 | 05/02/12 | 3507.56 | - | 19.01 | 0.00 | 3488.55 |
| MW - 17 | 12/06/12 | 3507.56 | - | 20.19 | 0.00 | 3487.37 |
| | | | | | | |
| MW - 18 | 02/29/12 | 3509.12 | - | 20.59 | 0.00 | 3488.53 |
| MW - 18 | 05/02/12 | 3509.12 | - | 20.50 | 0.00 | 3488.62 |
| MW - 18 | 12/06/12 | 3509.12 | - | 20.86 | 0.00 | 3488.26 |
| | | | | | | |
| MW - 19 | 01/12/12 | 3507.28 | - | 19.18 | 0.00 | 3488.10 |
| MW - 19 | 01/19/12 | 3507.28 | - | 19.09 | 0.00 | 3488.19 |
| MW - 19 | 02/03/12 | 3507.28 | - | 19.10 | 0.00 | 3488.18 |
| MW - 19 | 02/29/12 | 3507.28 | - | 18.97 | 0.00 | 3488.31 |
| MW - 19 | 03/14/12 | 3507.28 | - | 18.94 | 0.00 | 3488.34 |
| MW - 19 | 03/19/12 | 3507.28 | - | 18.95 | 0.00 | 3488.33 |
| MW - 19 | 03/29/12 | 3507.28 | - | 18.90 | 0.00 | 3488.38 |
| MW - 19 | 04/05/12 | 3507.28 | - | 18.88 | 0.00 | 3488.40 |
| MW - 19 | 04/18/12 | 3507.28 | - | 18.83 | 0.00 | 3488.45 |
| MW - 19 | 04/27/12 | 3507.28 | - | 18.88 | 0.00 | 3488.40 |
| MW - 19 | 05/02/12 | 3507.28 | - | 18.92 | 0.00 | 3488.36 |
| MW - 19 | 05/31/12 | 3507.28 | - | 18.90 | 0.00 | 3488.38 |
| MW - 19 | 06/08/12 | 3507.28 | - | 19.83 | 0.00 | 3487.45 |
| MW - 19 | 06/12/12 | 3507.28 | - | 18.97 | 0.00 | 3488.31 |
| MW - 19 | 06/21/12 | 3507.28 | - | 18.96 | 0.00 | 3488.32 |
| MW - 19 | 06/29/12 | 3507.28 | - | 19.02 | 0.00 | 3488.26 |
| MW - 19 | 07/13/12 | 3507.28 | - | 19.19 | 0.00 | 3488.09 |
| MW - 19 | 12/06/12 | 3507.28 | 19.26 | 19.29 | 0.03 | 3488.02 |
| MW - 19 | 12/11/12 | 3507.28 | 19.26 | 19.32 | 0.06 | 3488.01 |
| MW - 19 | 12/18/12 | 3507.28 | 19.24 | 19.31 | 0.07 | 3488.03 |
| | | 1. 1996年1月1日(1998年) 1. 1997年1月1日(1998年) 1. 1997年1月1日(1998年) | | 臺灣警察 20 | 的。我是这种错 | |
| MW - 20 | 01/12/12 | 3508.43 | - | 20.56 | 0.00 | 3487.87 |
| MW - 20 | 01/19/12 | 3508.43 | - | 20.53 | 0.00 | 3487.90 |
| MW - 20 | 02/03/12 | 3508.43 | - | 20.49 | 0.00 | 3487.94 |
| MW - 20 | 02/29/12 | 3508.43 | · - | 20.41 | 0.00 | 3488.02 |
| MW - 20 | 03/14/12 | 3508.43 | - | 20.36 | 0.00 | 3488.07 |
| MW - 20 | 03/19/12 | 3508.43 | - | 20.35 | 0.00 | 3488.08 |
| MW - 20 | 03/29/12 | 3508.43 | - | 20.31 | 0.00 | 3488.12 |
| MW - 20 | 04/05/12 | 3508.43 | - | 20.29 | 0.00 | 3488.14 |
| MW - 20 | 04/18/12 | 3508.43 | - | 20.26 | 0.00 | 3488.17 |
| MW - 20 | 04/27/12 | 3508.43 | - | 20.29 | 0.00 | 3488.14 |
| MW - 20 | 05/02/12 | 3508.43 | | 20.34 | 0.00 | 3488.09 |
| MW - 20 | 05/31/12 | 3508.43 | - | 20.31 | 0.00 | 3488.12 |
| MW - 20 | 06/08/12 | 3508.43 | - | 20.36 | 0.00 | 3488.07 |
| MW - 20 | 06/12/12 | 3508.43 | - | 20.40 | 0.00 | 3488.03 |
| MW - 20 | 06/21/12 | 3508.43 | - | 20.39 | 0.00 | 3488.04 |

GROUNDWATER ELEVATION DATA - 2012

TNM 97-17

LEA COUNTY, NEW MEXICO PLAINS MARKETING, L.P. NMOCD REFERENCE NUMBER AP-017

.

•

| | | TOP OF | | | | CORRECTED |
|--|---|--|----------------------------|---|-----------|-------------|
| WELL | DATE | CASING | DEPTH TO | ДЕРТН ТО | PSH | GROUNDWATER |
| NUMBER | MEASURED | ELEVATION | PRODUCT | WATER | THICKNESS | ELEVATION |
| MW - 20 | 06/29/12 | 3508.43 | * | 20.46 | 0.00 | 3487.97 |
| MW - 20 | 07/13/12 | 3508.43 | - | 20.62 | 0.00 | 3487.81 |
| MW - 20 | 12/06/12 | 3508.43 | - | 20.69 | 0.00 | 3487.74 |
| MW - 20 | 12/11/12 | 3508.43 | - | 20.69 | 0.00 | 3487.74 |
| MW - 20 | 12/18/12 | 3508.43 | - | 20.69 | 0.00 | 3487.74 |
| | | | | | | |
| MW - 21 | 02/29/12 | 3506.98 | - | 19.35 | 0.00 | 3487.63 |
| MW - 21 | 05/02/12 | 3506.98 | - | 19.30 | 0.00 | 3487.68 |
| MW - 21 | 12/06/12 | 3506.98 | - | 19.64 | 0.00 | 3487.34 |
| | S. S | | | | | |
| MW - 22 | 02/29/12 | 3505.61 | - | 18.36 | 0.00 | 3487.25 |
| MW - 22 | 05/02/12 | 3505.61 | - | 18.32 | 0.00 | 3487.29 |
| MW - 22 | 12/06/12 | 3505.61 | -' | 18.67 | 0.00 | 3486.94 |
| | | STATES AND | | | | |
| MW - 23 | 02/29/12 | 3509.79 | - | 22.06 | 0.00 | 3487.73 |
| MW - 23 | 05/02/12 | 3509.79 | - | 22.00 | 0.00 | 3487.79 |
| MW - 23 | 12/06/12 | 3509.79 | - | 22.35 | 0.00 | 3487.44 |
| | | | 影響時間。一種國 | | | |
| MW - 24 | 02/29/12 | 3509.68 | - | 22.32 | 0.00 | 3487.36 |
| MW - 24 | 05/02/12 | 3509.68 | - | 22.27 | 0.00 | 3487.41 |
| MW - 24 | 12/06/12 | 3509.68 | - | 22.62 | 0.00 | 3487.06 |
| | | | | | | |
| MW - 25 | 02/29/12 | 3509.65 | - | 21.70 | 0.00 | 3487.95 |
| MW - 25 | 05/02/12 | 3509.65 | - | 21.63 | 0.00 | 3488.02 |
| MW - 25 | 12/06/12 | 3509.65 | - | 21.98 | 0.00 | 3487.67 |
| | | | | 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - | | |
| MW - 26 | 02/29/12 | 3507.49 | - | 19.34 | 0.00 | 3488.15 |
| · MW - 26 | 05/02/12 | 3507.49 | - | 19.25 | 0.00 | 3488.24 |
| MW - 26 | 12/06/12 | 3507.49 | - | 19.61 | 0.00 | 3487.88 |
| ما بي د المربع الان يا الانهام المربع ال إلى المربع الم ومن المربع الم | $ \begin{array}{c} \left\{ \begin{array}{c} \left\{ \begin{array}{c} \left\{ 1 \right\} \\ \left\{$ | | | | | |
| MW - 27 | 02/29/12 | 3507.66 | - | 19.78 | 0.00 | 3487.88 |
| MW - 27 | 05/02/12 | 3507.66 | - | 19.70 | 0.00 | 3487.96 |
| MW - 27 | 12/06/12 | 3507.66 | - | 20.07 | 0.00 | 3487.59 |
| 201 | | | | | | |
| MW - 28 | 02/29/12 | 3508.37 | - | 20.20 | 0.00 | 3488.17 |
| MW - 28 | 05/02/12 | 3508.37 | - | 20.11 | 0.00 | 3488.26 |
| MW - 28 | 12/06/12 | 3508.37 | - | 20.48 | 0.00 | 3487.89 |
| | | ىر ئەر 10 (10 مىلى). بىلىچىنىگى تور ئىل | 1911 - 1918 1919 - 1919 | | 3. | |
| <u>RW - 1</u> | 01/12/12 | 3507.27 | - | 19.18 | 0.00 | 3488.94 |
| RW - 1 | 01/19/12 | 3507.27 | - | 19.11 | 0.00 | 3489.01 |
| <u>RW - 1</u> | 02/03/12 | 3507.27 | - | 19.11 | 0.00 | 3489.01 |
| RW - 1 | 02/29/12 | 3507.27 | - | 19.01 | 0.00 | 3489.11 |
| RW - 1 | 03/14/12 | 3507.27 | | 18.86 | 0.00 | 3489.26 |
| RW - 1 | 03/19/12 | 3507.27 | - | 19.10 | 0.00 | 3489.02 |
| <u>RW - 1</u> | 03/29/12 | 3507.27 | - | 18.89 | 0.00 | 3489.23 |

GROUNDWATER ELEVATION DATA - 2012

TNM 97-17

LEA COUNTY, NEW MEXICO PLAINS MARKETING, L.P. NMOCD REFERENCE NUMBER AP-017

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|--|---------------------------|-------------------------------|---------------------|--|------------------|---------------------------------------|
| RW - 1 | 04/05/12 | 3507.27 | - | 18.82 | 0.00 | 3489.30 |
| RW - 1 | 04/18/12 | 3507.27 | - · | 18.81 | 0.00 | 3489.31 |
| RW - 1 | 04/27/12 | 3507.27 | - | 18.82 | 0.00 | 3489.30 |
| RW - 1 | 05/02/12 | 3507.27 | - | 18.87 | 0.00 | 3489.25 |
| RW - 1 | 05/31/12 | 3507.27 | - | 18.95 | 0.00 | 3489.17 |
| RW - 1 | 06/08/12 | 3507.27 | 19.81 | 19.82 | 0.01 | 3488.29 |
| RW - 1 | 06/12/12 | 3507.27 | 18.92 | 18.94 | 0.02 | 3489.16 |
| RW - 1 | 06/21/12 | 3507.27 | - | 19.06 | 0.00 | 3489.06 |
| RW - 1 | 06/29/12 | 3507.27 | - | 19.18 | 0.00 | 3488.94 |
| RW - 1 | 07/13/12 | 3507.27 | 19.21 | 19.27 | 0.06 | 3488.79 |
| RW - 1 | 12/06/12 | 3507.27 | 20.73 | 20.74 | 0.01 | 3487.37 |
| RW - 1 | 12/11/12 | 3507.27 | - | 20.72 | 0.00 | 3487.40 |
| RW - 1 | 12/18/12 | 3507.27 | 19.69 | 19.70 | 0.01 | 3488.41 |
| | Contraction of the second | | | | | |
| RW - 2 | 01/12/12 | 3507.45 | | 18.98 | 0.00 | 3488.47 |
| RW - 2 | 01/19/12 | 3507.45 | - | 18.90 | 0.00 | 3488.55 |
| RW - 2 | 02/03/12 | 3507.45 | - | 18.88 | 0.00 | 3488.57 |
| ' RW - 2 | 02/29/12 | 3507.45 | - | 18.71 | 0.00 | 3488.74 |
| RW - 2 | 05/02/12 | 3507.45 | - | 18.62 | 0.00 | 3488.83 |
| | 12/06/12 | 3507.45 | - | 0.00 | 0.00 | 3507.45 |
| RW - 2 | 12/11/12 | 3507.45 | - | 0.00 | 0.00 | 3507.45 |
| RW - 2 | 12/18/12 | 3507.45 | - | 0.00 | 0.00 | 3507.45 |
| | | | | | | |
| RW - 3 | 01/12/12 | 3507.86 | - | 19.29 | 0.00 | 3488.57 |
| RW - 3 | 01/19/12 | 3507.86 | - | 19.31 | 0.00 | 3488.55 |
| RW - 3 | 02/03/12 | 3507.86 | - | 19.23 | 0.00 | 3488.63 |
| RW - 3 | 02/29/12 | 3507.86 | - | 19.09 | 0.00 | 3488.77 |
| RW - 3 | 05/02/12 | 3507.86 | - | 19.01 | 0.00 | 3488.85 |
| RW - 3 | 12/06/12 | 3507.86 | - | 20.20 | 0.00 | 3487.66 |
| RW - 3 | 12/11/12 | 3507.86 | - | 20.20 | 0.00 | 3487.66 |
| RW - 3 | 12/18/12 | 3507.86 | 20.14 | 20.15 | 0.01 | 3487.72 |
| Mar Salar | | | 해상 문제 작품 | a de la companya de la compa | n san shekarar | |
| RW - 4 | 01/12/12 | 3507.22 | | 18.56 | 0.00 | 3488.66 |
| RW - 4 | 01/19/12 | 3507.22 | - | 18.52 | 0.00 | 3488.70 |
| RW - 4 | 02/03/12 | 3507.22 | - | 18.52 | 0.00 | 3488.70 |
| RW - 4 | 02/29/12 | 3507.22 | - | 18.26 | 0.00 | 3488.96 |
| RW - 4 | 05/02/12 | 3507.22 | - | 18.18 | 0.00 | 3489.04 |
| RW - 4 | 12/06/12 | 3507.22 | - | 20.44 | 0.00 | 3486.78 |
| RW - 4 | 12/11/12 | 3507.22 | • | 20.46 | 0.00 | 3486.76 |
| RW - 4 | 12/18/12 | 3507.22 | - | 20.43 | 0.00 | 3486.79 |
| and a second | | | | S. C. Warner | | |
| RW - 5 | 01/12/12 | 3506.91 | - | 18.15 | 0.00 | 3488.76 |
| RW - 5 | 01/19/12 | 3506.91 | - | 18.54 | 0.00 | 3488.37 |
| RW - 5 | 02/03/12 | 3506.91 | - | 18.40 | 0.00 | 3488.51 |
| RW - 5 | 02/29/12 | 3506.91 | - | 18.32 | 0.00 | 3488.59 |

.

GROUNDWATER ELEVATION DATA - 2012

TNM 97-17

LEA COUNTY, NEW MEXICO PLAINS MARKETING, L.P. NMOCD REFERENCE NUMBER AP-017

| | | TOP OF | | | | CORRECTED |
|----------------|--------------------|--|-----------------|-----------------|-----------|-------------|
| WELL | DATE | CASING | DEPTH TO | ДЕРТН ТО | PSH | GROUNDWATER |
| NUMBER | MEASURED | ELEVATION | PRODUCT | WATER | THICKNESS | ELEVATION |
| RW - 5 | 03/14/12 | 3506.91 | - | 18.22 | 0.00 | 3488.69 |
| RW - 5 | 03/19/12 | 3506.91 | 18.19 | 18.21 | 0.02 | 3488.72 |
| RW - 5 | 03/29/12 | 3506.91 | | 18.25 | 0.00 | 3488.66 |
| RW - 5 | 04/05/12 | 3506.91 | | 18.15 | 0.00 | 3488.76 |
| RW - 5 | 04/18/12 | 3506.91 | | 18.15 | 0.00 | 3488.76 |
| RW - 5 | • 04/27/12 | 3506.91 | | 18.15 | 0.00 | 3488.76 |
| RW - 5 | 05/02/12 | 3506.91 | 18.20 | 18.21 | 0.01 | 3488.71 |
| RW - 5 | 05/31/12 | 3506.91 | | 18.30 | 0.01 | 3488.62 |
| RW - 5 | 06/08/12 | . 3506.91 | | 18.31 | 0.01 | 3488.61 |
| RW - 5 | 06/12/12 | 3506.91 | 18.25 | 18.27 | 0.02 | 3488.66 |
| RW - 5 | 06/21/12 | 3506.91 | 18.36 | 18.37 | 0.01 | 3488.55 |
| RW - 5 | 06/29/12 | 3506.91 | 18.36 | 18.39 | 0.03 | 3488.55 |
| RW - 5 | 07/13/12 | 3506.91 | 18.50 | 18.77 | 0.27 | 3488.37 |
| RW - 5 | 12/06/12 | 3506.91 | 20.15 | 21.05 | 0.90 | 3486.63 |
| RW - 5 | 12/11/12 | 3506.91 | 20.15 | 21.08 | 0.00 | 3485.83 |
| RW - 5 | 12/18/12 | 3506.91 | 20.13 | 21.04 | 0.00 | 3485.87 |
| | | | | | | |
| RW - 6 | 01/12/12 | 3507.45 | 19.12 | 19.63 | 0.51 | 3488.25 |
| RW - 6 | 01/19/12 | 3507.45 | 19.08 | 19.49 | 0.41 | 3488.31 |
| RW - 6 | 02/03/12 | 3507.45 | 19.02 | 19.57 | 0.55 | 3488.35 |
| RW - 6 | 02/29/12 | 3507.45 | 18.91 | 19.43 | 0.52 | 3488.46 |
| RW - 6 | 03/14/12 | 3507.45 | 18.88 | 19.33 | 0.45 | 3488.50 |
| RW - 6 | 03/19/12 | 3507.45 | 18.87 | 19.21 | 0.34 | 3488.53 |
| RW - 6 | 03/29/12 | 3507.45 | 18.83 | 19.19 | 0.36 | 3488.57 |
| RW - 6 | 04/05/12 | 3507.45 | 18.81 | 19.15 | 0.34 | 3488.59 |
| RW - 6 | 04/18/12 | 3507.45 | 18.77 | 19.06 | 0.29 | 3488.64 |
| RW - 6 | 04/27/12 | 3507.45 | 18.81 | 19.15 | 0.34 | 3488.59 |
| RW - 6 | 05/02/12 | 3507.45 | 18.82 | 19.13 | 0.31 | 3488.58 |
| RW - 6 | 05/31/12 | 3507.45 | 18.90 | 19.15 | 0.25 | 3488.51 |
| RW - 6 | 06/08/12 | 3507.45 | 18.83 | 19.43 | 0.60 | 3488.53 |
| RW - 6 | 06/12/12 | 3507.45 | 18.95 | 19.31 | 0.36 | 3488.45 |
| RW - 6 | 06/21/12 | 3507.45 | 18.90 | 19.40 | 0.50 | 3488.48 |
| RW - 6 | 06/29/12 | 3507.45 | 18.92 | 19.51 | 0.59 | 3488.44 |
| RW - 6 | 07/13/12 | 3507.45 | 19.14 | 19.58 | 0.44 | 3488.24 |
| RW - 6 | 12/06/12 | 3507.45 | 20.74 | 20.75 | 0.01 | 3486.71 |
| RW - 6 | 12/11/12 | 3507.45 | | 20.78 | 0.00 | 3486.67 |
| RW - 6 | 12/18/12 | 3507.45 | 20.72 | 20.73 | 0.01 | 3486.73 |
| | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | | | |
| * Complete His | toriaal Tablas are | provided on the atte | | | | |

* Complete Historical Tables are provided on the attached CD.

CONCENTRATIONS OF BTEX IN GROUNDWATER - 2012

PLAINS MARKETING, L.P. TNM 97-17 LEA COUNTY, NM NMOCD REFERENCE NUMBER AP-017

All concentrations are reported in mg/L

| | | EPA SW 846-8015M | | SW 846-8012B, 5030 | | | | | | |
|------------------------|--|---|--|---|--------------------------------|--|---|---------------------------------------|--|--|
| SAMPLE LOCATION | SAMPLE DATE | GRO C6-C12 mg/L | DRO C12-C35 mg/L | BENZENE | TOLUENE | ETHYL- BENZENE | m, p, - XYLENES | o - XYLENE | | |
| NMOCD Regulatory Limit | | | | 0.010 | 0.75 | 0.75 | 0.62 | | | |
| MW - 1 | 02/29/12 | | - | Not Sampled | l on Current S | Sample Schedul | e | | | |
| MW - 1 | 05/02/12 | | | Not Sampled | l on Current S | ample Schedul | e | | | |
| MW - 1 | 08/10/12 | | | Not Sampled | I Due to Site I | Excavation | | | | |
| MW - 1 | 12/06/12 | | | < 0.001 | < 0.001 | < 0.001 | <0.001 | | | |
| | | | | | | | | | | |
| MW - 2 | 02/29/12 | | | | | ample Schedul | | | | |
| MW - 2 | 05/02/12 | | · · · · · · · · · · · · · · · · · · · | | | ample Schedul | | | | |
| MW - 2 | 08/10/12 | | | ^ | Due to Site I | A | | | | |
| MW - 2 | 12/06/12 | | | < 0.001 | < 0.001 | <0.001 | <0.001 | | | |
| | | | | I KACAMATA | | | | | | |
| MW - 3 | 02/29/12 | | | | | ample Schedul | | | | |
| MW - 3 | 05/02/12 | | | | | Sample Schedul | | | | |
| MW - 3 | 08/10/12 | • | | | l due to Site E | | | | | |
| MW - 3 | 12/06/12 | | | <0.001 | <0.001 | < 0.001 | <0.0 | 001 | | |
| | | | المراجعة ال محمد المراجعة | | | | | | | |
| MW - 4 | 02/29/12 | | A CONTRACTOR OF | | | | and the state of the | | | |
| MW - 4 | 05/02/12 | | | Not Sampled Due to PSH in Well Not Sampled Due to PSH in Well | | | | | | |
| MW - 4 | 08/10/12 | | | Not Sampled Due to Site Excavation | | | | | | |
| MW - 4 | 12/07/12 | | | Not Sampled Due to PSH in Well | | | | | | |
| | | | | | | | | | | |
| MW - 5 | 02/29/12 | | | 0.1040 | < 0.001 | 0.0404 | 0.04 | | | |
| MW - 5 | 05/02/12 | | | 0.0804 | < 0.001 | 0.0206 | 0.02 | | | |
| MW - 5 | 08/10/12 | | | | due to Site E | | | | | |
| MW - 5 | 12/06/12 | | | 0.0295 | <0.001 | < 0.001 | <0.0 | 001 | | |
| | | | т. | | | and the set of the set | ilia, shikishing i siye. Ta an ta angelara | | | |
| MW - 6 | 02/29/12 | | | 0.0270 | <0.001 | 0.0101 | <0.0 | | | |
| MW - 6 | 05/02/12 | | | Not Sampled | | | | | | |
| MW - 6 | 08/10/12 | | | Not Sampled due to Site Excavation | | | | | | |
| MW - 6 | 12/07/12 | | | | Not Sampled Due to PSH in Well | | | | | |
| ja ser | | | | | | | La Changella Star | 14.5 | | |
| MW - 7 | 02/29/12 | <u>* * * * * * * * * * * * * * * * * * * </u> | | | Due to PSH | | en on an ann an 1871 | | | |
| MW - 7 | 05/02/12 | | | ^ | Due to PSH | | | | | |
| MW - 7 | 08/10/12 | 1 | | | due to Site E | | 1 | | | |
| MW - 7 | 12/07/12 | | l | | d Due to PSH | | 1 | | | |
| | 12/07/12 | | · · · | | | | | | | |
| MW - 8 | 02/29/12 | · · · · · | • • • · · · · | | Due to PSH | | A 1 5 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| MW - 8 | 05/02/12 | | | | d Due to PSH | | | } | | |
| MW - 8 | 03/02/12 | | | | d due to Site I | | <u> </u> | | | |
| MW - 8 | 12/07/12 | | | | d Due to PSH | | | | | |
| | 12/07/12 | | | | | | 1. N. N. K | A 1 | | |
| | le é la seconda de | | 10 - 10 - N | | | 三部であるが、 | 1 | Contract of the | | |

CONCENTRATIONS OF BTEX IN GROUNDWATER - 2012

PLAINS MARKETING, L.P. TNM 97-17 LEA COUNTY, NM NMOCD REFERENCE NUMBER AP-017

•

•

•

•

Õ

0

Î)

All concentrations are reported in mg/L

| | | EPA SW 846-8015M | | SW 846-8012B, 5030 | | | | | | |
|------------------------|----------------------|---------------------------------|-----------------------------|---|--|-------------------|--|-------------------|--|--|
| SAMPLE LOCATION | SAMPLE DATE | GRO C6-C12 mg/L | DRO C12-C35 mg/L | BENZENE | TOLUENE | ETHYL- BENZENE | m, p, - XYLENES | 0- XYLENE | | |
| NMOCD Regulatory Limit | | | | 0.010 | 0.010 0.75 0.75 | | | 0.62 | | |
| MW - 9 | 02/29/12 | | | 0.0105 | < 0.001 | <0.001 | <0.001 | | | |
| MW - 9 | 05/02/12 | | | 0.0055 | < 0.001 | <0.001 | <0.001 | | | |
| MW - 9 | 08/10/12 | | | Not Sampled | due to Site E | Excavation | | | | |
| MW - 9 | 12/07/12 | | | | | Water Levels | | | | |
| | | | | | | | | | | |
| MW - 10 | 02/29/12 | | | 0.0121 | <0.001 | <0.001 | <0.001 | | | |
| MW - 10 | 05/02/12 | | | 0.0057 | <0.001 | <0.001 | < 0.001 | | | |
| MW - 10 | 08/10/12 | | · | | due to Site E | | | | | |
| MW - 10 | 12/06/12 | | | <0.005 | < 0.005 | < 0.005 | < 0.005 | | | |
| | | | | | | | | | | |
| MW - 11 | 02/29/12 | | | | | ample Schedu | | | | |
| MW - 11 | 05/02/12 | | · | | ed on Current Sample Schedule | | | | | |
| MW - 11 | 08/10/12 | | | | due to Site E | | -0.4 | 01 | | |
| MW - 11 | 12/07/12 | an an is a start strictly being | | < 0.001 | < 0.001 | < 0.001 | <0.0 | | | |
| | | | | | | | | | | |
| <u>. MW - 12</u> | 02/29/12 | | | | | Sample Schedu | | | | |
| MW - 12 | 05/02/12 | | | Not Sampled on Current Sample Schedule Not Sampled due to Site Excavation | | | | | | |
| MW - 12 MW - 12 | 08/10/12 12/06/12 | | | | | <0.001 | <0.001 | | | |
| | 12/00/12 | | AL DE LE ASSE | | | | <0.001 | | | |
| MW - 13 | 02/29/12 | ty to be the same to a | i - Judi - Bahli Visi Kudda | | | | | 题读说: 题: "" | | |
| MW - 13 MW - 13 | 05/02/12 | | | Not Sampled on Current Sample Schedule Not Sampled on Current Sample Schedule | | | | | | |
| MW - 13 | 08/10/12 | | | Not Sampled on Current Sample Schedule | | | | | | |
| MW - 13 | 12/07/12 | | | <0.001 | < 0.001 | < 0.001 | <0. | 01 | | |
| | | the state of the state | | | | | | | | |
| MW - 14 | 02/29/12 | 1 1 1 1 1 1 | | | Due to PSH | | an a | auss estimates | | |
| MW - 14 | 05/02/12 | | | | Not Sampled Due to PSH in Well | | | | | |
| MW - 14 | 08/10/12 | | | Not Sampled due to Site Excavation | | | | | | |
| MW - 14 | 12/07/12 | | | Not Sampled Due to PSH in Well | | | | | | |
| | | | 2 | | 11. 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | |
| MW - 15 | 02/29/12 | | | 0.2550 | < 0.020 | 0.2000 | <0. | | | |
| MW - 15 | 05/02/12 | | | 0.1420 | < 0.020 | 0.1010 | <0.0 | 020 | | |
| MW - 15 | 08/10/12 | | | Not Sample | d due to Site I | Excavation | | | | |
| MW - 15 | 12/07/12 | | | | d due to PSH | | | | | |
| | | | 1 72 Y 15 | | i se | - 3-71 | | | | |
| MW - 16 | 02/29/12 | | | Not Sampled on Current Sample Schedule | | | | | | |
| MW - 16 | 05/02/12 | | | Not Sampled on Current Sample Schedule | | | | | | |
| MW - 16 | 08/10/12 | · . | | Not Sample | d due to Site I | Excavation | | | | |
| MW - 16 | 12/06/12 | | | < 0.001 | < 0.001 | < 0.001 | | 001 | | |
| Z | | د <i>ب</i> | and the second | | 2 | | | 2 | | |
TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER - 2012

PLAINS MARKETING, L.P. TNM 97-17 LEA COUNTY, NM NMOCD REFERENCE NUMBER AP-017

All concentrations are reported in mg/L

| | | EPA SW | ' 846-8015M | | S | W 846-8012B, 50 | 30 | |
|--------------------|---------------------------------------|-----------------------|------------------------|-------------|-----------------|-------------------|--------------------|---------------|
| SAMPLE LOCATION | SAMPLE DATE | GRO C6-C12 mg/L | DRO C12-C35 mg/L | BENZENE | TOLUENE | ETHYL- BENZENE | m, p, - XYLENES | 0 - Xylene |
| NMOCD Reg | ulatory Limit | | | 0.010 | 0.75 | 0.75 | 0.0 | 52 |
| MW - 17 | 02/29/12 | <u> </u> | | Not Sampled | l on Current S | ample Schedul | e | |
| MW - 17 | 05/02/12 | | | Not Sampled | l on Current S | ample Schedul | le | |
| MW - 17 | 08/10/12 | | | Not Sampled | l due to Site E | | | |
| MW - 17 | 12/07/12 | | | <0.001 | <0.001 | < 0.001 | <0. | |
| | の必要に認識 | | | | | | | |
| MW - 18 | 02/29/12 | | | | | ample Schedul | | |
| MW - 18 | 05/02/12 | | | | | Sample Schedul | e | |
| MW - 18 | 08/10/12 | | | | due to Site E | | | |
| MW - 18 | 12/06/12 | | | <0.001 | <0.001 | < 0.001 | <0. | |
| | | | | | | | | |
| MW - 19 | 02/29/12 | | | 0.3070 | <0.001 | 0.0515 | .0.0 | |
| MW - 19 | 05/02/12 | | | 0.2550 | <0.001 | 0.0404 | 0.04 | 471 |
| MW - 19 | 08/10/12 | | | | due to Site E | | | |
| MW - 19 | 12/07/12 | | | | due to PSH | | · | |
| | | | | | | | | |
| MW - 20 | 02/29/12 | | | 0.0235 | < 0.001 | <0.001 | 0.02 | |
| MW - 20 | 05/02/12 | | | 0.0245 | <0.001 | < 0.001 | <0. | 001 |
| <u>MW - 20</u> | 08/10/12 | | | ^ | due to Site I | | | |
| MW - 20 | 12/06/12 | | | 0.0136 | <0.001 | <0.001 | <0.0 | |
| | And the second second | | | | | | | |
| MW - 21 | 02/29/12 | | | 0.0146 | <0.001 | <0.001 | <0. | |
| MW - 21 | 05/02/12 | | | 0.0148 | <0.001 | <0.001 | <0.0 | 001 |
| MW - 21 | 08/10/12 | | 1 | Not Sample | d due to Site I | | | |
| MW - 21 | 12/06/12 | | | < 0.005 | <0.005 | < 0.005 | <0. | |
| | | 2 ⁻¹ -1 | | | | | | |
| MW - 22 | 02/29/12 | | | | - | Sample Schedu | | |
| MW - 22 | 05/02/12 | | | <0.001 | <0.001 | <0.001 | <0. | 001 |
| MW - 22 | 08/10/12 | | | | d due to Site I | | ļ | |
| MW - 22 | 12/06/12 | | · | <0.001 | <0.001 | <0.001 | <0. | |
| | i i i i i i i i i i i i i i i i i i i | | 1.2.2 | | | 1916 18 9000 | | |
| MW - 23 | 02/29/12 | | | | | Sample Schedu | | |
| MW - 23 | 05/02/12 | | 1 | <0.001 | <0.001 | <0.001 | . <0. | 001 |
| MW - 23 | 08/10/12 | | | | d due to Site I | | Į | |
| MW - 23 | 12/07/12 | | | <0.001 | <0.001 | <0.001 | | 001 |
| | | | | | | 通いたいない。 | | |
| MW - 24 | 02/29/12 | ļ | | | - m- | Sample Schedu | | |
| MW - 24 | 05/02/12 | | <u> </u> | | | Sample Schedu | le | |
| MW - 24 | 08/10/12 | | | | d due to Site I | | | |
| MW - 24 | 12/06/12 | ļ | | <0.001 | <0.001 | <0.001 | | 001 |
| | | 1.1.1 | | | А | | H | |

•

TABLE 2

.

CONCENTRATIONS OF BTEX IN GROUNDWATER - 2012

PLAINS MARKETING, L.P. TNM 97-17 LEA COUNTY, NM NMOCD REFERENCE NUMBER AP-017

All concentrations are reported in mg/L

•

Ď

| | | EPA SW | 846-8015M | | S | W 846-8012B, 50 | 30 | |
|--|----------------|-----------------------|---|-------------|----------------------------|-------------------|--------------------|-----------------------|
| SAMPLE LOCATION | SAMPLE DATE | GRO C6-C12 mg/L | DRO C12-C35 mg/L | BENZENE | TOLUENE | ETHYL- BENZENE | m, p, - XYLENES | o- Xylene |
| NMOCD Reg | ulatory Limit | | | 0.010 | 0.75 | · 0.75 | 0.6 | 52 |
| MW - 25 | 02/29/12 | | | Not Sampled | l on Current S | ample Schedul | e | |
| MW - 25 | 05/02/12 | | | <0.001 | < 0.001 | < 0.001 | <0.0 | 001 |
| MW - 25 | 08/10/12 | | | Not Sampled | due to Site F | Excavation | | |
| MW - 25 | 12/07/12 | | • | < 0.001 | < 0.001 | < 0.001 | <0.0 | |
| | | 治生"。本于"精髓髓髓 | | | | 的问题。 | | |
| MW - 26 | 02/29/12 | | | 0.0086 | < 0.001 | < 0.001 | <0.0 |)01 |
| MW - 26 | 05/02/12 | | | 0.0051 | < 0.001 | < 0.001 | <0.(| 001 |
| MW - 26 | 08/10/12 | | | Not Sampled | due to Site E | Excavation | | |
| MW - 26 | 12/06/12 | | | <0.001 | <0.001 | <0.001 | <0.0 | |
| | | | | | | | 制造作用的 | |
| MW - 27 | 02/29/12 | | | | | ample Schedul | | |
| MW - 27 | 05/02/12 | | | <0.001 | <0.001 | <0.001 | <0.0 | 001 |
| MW - 27 | 08/10/12 | | | Not Sampleo | l due to Site E | Excavation | | |
| MW - 27 | 12/06/12 | | | < 0.001 | < 0.001 | < 0.001 | <0.0 | |
| | | | | | 整體性計算術 | | STROM STATE | |
| MW - 28 | 02/29/12 | | | | | Sample Schedul | | |
| MW - 28 | 05/02/12 | | | Not Sampled | i on Current S | Sample Schedul | le | |
| MW - 28 | 08/10/12 | | | Not Sampleo | due to Site E | Excavation | | |
| MW - 28 | 12/06/12 | | | < 0.001 | < 0.001 | < 0.001 | <0.0 | 001 |
| | | | · 注意: [1] · · · · · · · · · · · · · · · · · · · | | 建建立推荐 | 如此這個觀察 | | |
| RW - 1 | 02/29/12 | | | Not Sampled | Due to PSH | in Well | | |
| RW - 1 | 05/02/12 | | | 0.3220 | < 0.001 | < 0.001 | <0.0 | 001 |
| RW - 1 | 08/10/12 | | | Not Sampled | due to Site F | Excavation | | |
| RW - 1 | 12/07/12 | | | Not Sampled | Due to PSH | in Well | | |
| | Star Star | | | | a start and a start of the | | | |
| RW - 2 | 02/29/12 | | | 0.0574 | < 0.001 | 0.0086 | <0.0 | 001 |
| RW - 2 | 05/02/12 | | | 0.0131 | <0.001 | < 0.001 | <0.0 | 001 |
| RW - 2 | 08/10/12 | | | | due to Site I | | | |
| RW - 2 | 12/07/12 | | • | | | Water Levels | | , |
| | | | | | | | | |
| RW - 3 | 02/29/12 | | | 0.2200 | <0.020 | <0.020 | <0. | 020 |
| RW - 3 | 05/02/12 | | | 0.2510 | <0.020 | < 0.020 | <0.0 | 020 |
| RW - 3 | 08/10/12 | | | Not Sample | due to Site I | Excavation | | |
| RW - 3 | 12/06/12 | | | 0.0209 | <0.005 | < 0.005 | <0.0 | |
| | | | | | he but the | | | |
| RW - 4 | 02/29/12 | | | 0.3310 | <0.0200 | < 0.020 | <0.0 | |
| RW - 4 | 05/02/12 | | | 0.6290 | <0.0200 | 0.2110 | 0.3 | 200 |
| RW - 4 | 08/10/12 | | | Not Sample | d due to Site I | Excavation | | |
| RW - 4 | 12/06/12 | | | 0.2760 | < 0.005 | 0.0841 | | 362 |
| and the second sec | | 1 | | | | | | 198 - 15 ¹ |

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER - 2012

PLAINS MARKETING, L.P. TNM 97-17 LEA COUNTY, NM NMOCD REFERENCE NUMBER AP-017

All concentrations are reported in mg/L

| | | EPA SW | 846-8015M | | S' | W 846-8012B, 50 | 30 | |
|--------------------|----------------|-----------------------|------------------------|-------------|-----------------|-------------------|--------------------|--------------|
| SAMPLE LOCATION | SAMPLE DATE | GRO C6-C12 mg/L | DRO C12-C35 mg/L | BENZENE | TOLUENE | ETHYL- BENZENE | m, p, - XYLENES | 0- Xylene |
| NMOCD Reg | ulatory Limit | | | 0.010 | 0.75 | 0.75 | 0.6 | 52 |
| RW - 5 | 02/29/12 | | | Not Sampled | Due to PSH | in Well | | |
| RW - 5 | 05/02/12 | | | 0.3490 | <0.0100 | 0.2010 | 0.19 | 940 |
| RW - 5 | 08/10/12 | | | Not Sampled | due to Site E | xcavation | | |
| RW - 5 | 12/07/12 | | | Not Sampled | Due to PSH | in Well | | |
| | | | | | | | | |
| RW - 6 | 02/29/12 | | | | Due to PSH | | | |
| RW - 6 | 05/02/12 | | | Not Sampled | Due to PSH | in Well | | |
| RW - 6 | 08/10/12 | | | Not Sampled | l due to Site E | xcavation | | |
| RW - 6 | 12/07/12 | | | Not Sampled | Due to PSH | in Well | | |

* Complete Historical Data Tables are presented on the attached CD.

1

ē

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P. TNM 97-17 1 EA CONDERV NEW MEVICO

LEA COUNTY, NEW MEXICO NMOCD REFERENCE NUMBER AP-017 All wurer concernations are reported in mg2 EPA SW846-8270C, 3510

| - | | | SO I | ला | | _ | _ | | संग | έπι | _ | _ | | सा | ला | - T | - | net | - | - | _ | | _ | 357 | | _ | <u> </u> | - | <u>م</u> | - |
|---|-------------------------------------|--|--------------|---------------------|---|---|---|----------------|---------------------|---------------------|--|---|---|--|-------------------------------|---|---|--|-----------|-------------|---|------------------------------------|------------------------------------|--|-------------|------------------|----------------|---|-----------|---|
| | Dibenzofuran | | <0.000186 | <0.000183 | | | | | <0.000184 | <0.000183 | | | ALC: NOT THE | <0.000184 | <0.000183 | | | 構造ない | 0.00239 | 0.00851 | | | | | 0.0023 | 0.00109 | | 0.00138 | <0.00095 | |
| ľ | ənəladındanıydı əM-2 | | <0.000186 | <0.000183 | | ┤ | | | <0.000184 | <0.000183 | | | and the first officers | <0.000184 | <0.000183 | | | 記念の日 | 0.0131 | 0.0574 | | | | 「「「「「「「」」」」 | <0.000922 | <0.000185 | | <0.000183 | <0.000957 | |
| Ì | ənəladtılqanlythəM-I | J\ym £0.0 | | <0.000183 | | | | _ | | <0.000183 | | | | | <0.000183 | | | ののないのである | 0.015 | 0.0802 | | | | | | 0.00234 | | _ | 739 | 1 |
| | anslettidgeV. | | <0.000186 < | <0.000183 < | | | : | -+ | | <0.000183 < | | | _ | | <0.000183 < | | | 10.00 | 0.00682 | 0.0229 | | | | | _ | <0.000185 | | _ | 000957 | · · · · · · |
| ŀ | Pyrene | J\gm 100.0 | <0.000186 <0 | <0.000183 <0 | | | | | _ | <0.000183 <0 | _ | -+ | | | <0.000183 <(| | - | | | <0.000926 | | | _ | | _ | <0.000185 <(| | _ | - | |
| ŀ | ຈ ແຈາເຖິດຂ ຕ ອດຊີ | J\zm 100.0 | <0.000186 <(| <0.000183 <(| i | | | _ | _ | <0.000183 <(| | | | | <0.000183 <(| | | 循 | 7 | 0.0121 <(| | | | | - | 0.000814 | | _ | | |
| ŀ | ənəryq(bə-E,L,I onəbnI | Л\gm ≯0 00,0 | <0.000186 <(| <0.000183 <(| | | | | _ | <0.000183 < | | | 22 · With 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 199 27 · With 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 | | <0.000183 < | - | | | | <0.000926 | | | | | | <0.000185 | | | - | 19. Carlo 1 |
| | Fluorene | J\gm 100.0 | <0.000186 < | <0.000183 < | | | | <u> </u> | <0.000184 < | <0.000183 < | | | | | <0.000183 < | | | 北北南省北北 國 | -+ | 0.00834 < | | | | | 0.00233 < | 0.00116 < | | _ | | (도산 New 2) # |
| | อนอนุมชรวงก <u>า</u> ส | J\3m 100.0 | <0.000186 < | <0.000183 < | | | | <u> </u> | <0.000184 | <0.000183 < | | | | | <0.000183 < | | | | <0.000917 | <0.000926 | | | | | <0.000922 | <0.000185 | | | 957 | |
| | Dibenz(s,h)anthracene | J\¥m £000.0 | <0.000186 | <0.000183 < | | | | <u> </u> | <0.000184 < | <0.000183 < | | | 5. BUD (1995) | <0.000184 < | <0.000183 | | | and the second of the second | | <0.000926 < | | i - | | ELECTION D | <0.000922 | <0.000185 < | | _ | 0957 | |
| | Сћуувеће | J\2m 2000.0 | <0.000186 | <0.000183 < | | | | | <0.000184 < | <0.000183 < | | | 新年的時代至 日。 | <0.000184 < | <0.000183 | | | 出现的原始 | | <0.000926 < | | | | | <0.000922 | <0.000185 < | | | | ·清朝王朝(1) |
| Ì | รณรณักตรางยมิ[A]osnรมี | J\2m 100.0 | <0.000186 < | <0.000183 < | Event. | vent. | | | <0.000184 < | 183 | vent. | | 日本の時間 | <0.000184 < | <0.000183 < | Event. | Event. | <u> 1885 18</u> | _ | 926 | Svent. | | | | <0.000922 < | <0.000185 < | | | | ALL REPORT OF |
| | Benzo[g,b,i]perylene | | <0.000186 < | <0.000183 < | ring | Monitoring Event | Monitoring Event | | <0.000184 < | <0.000183 < | Monitoring E | Monitoring Even | の必須読ん | 184 | <0.000183 | Monitoring I | Monitoring F | 軍に変むない意見 | <0,000917 | 28 | Monitoring Event | | ence of PSH | | <0.000922 | 185 | ring | 28 | 957 | |
| ľ | brantheroull[d]oan s d | J\2m 100.0 | <0.000186 | <0.000183 < | Not Sampled as part of Quarterly Monitc | Not Sampled as part of Quarterly Monito | Not Sampled as part of Quarterly Monito | 「「「「「「「「「「」」」」 | <0.000184 < | <0.000183 < | Not Sampled as part of Quarterly Monitoring Event. | Not Sampled as part of Quarterly Monito | 「「「「「「「」」 | <0.000184 <0.000184 <0.000184 <0.000184 <0.000 | <0.000183 < | Not Sampled as part of Quarterly Monite | Not Sampled as part of Quarterly Monitoring | D MARKAR | | <0.000926 < | Not Sampled as part of Quarterly Monite | Not Sampled due to the presence of | Not Sampled due to the presence of | | <0.000922 | <0.000185 <0.000 | | | | 아파 수 전 28 🕅 |
| | Benzo[s]pyrene | J\2m 7000.0 | <0.000186 < | =0.000183 | led as part o | led as part o | led as part o | 2 2 2 | | <0.000183 | led as part o | led as part o | | <0.000184 < | <0.000183 | led as part c | led as part o | | <0.000917 | <0.000926 | led as part o | Sampled du | Sampled du | 管理器等 | <0.000922 | <0.000185 | oled as part o | <0.000183 | | 1. 1. 1. L |
| | anoorutus[s]ozu d | J\2m 1000.0 | <0.000186 | <0.000183 <0.000183 | Not Samp | Not Samp | Not Samp | | <0.000184 <0.000184 | <0.000183 <0.000183 | Not Samp | Not Samp | 1.18.59.57 | <0.000184 | <0.000183 <0.000183 <0.000183 | Not Samp | Not Samp | | <0.000917 | <0.000926 | Not Samp | Not | Not | 調整な話 | <0.000922 | <0.000185 | Not Sam | <0.000183 | <0.000957 | |
| | Апійнаселе | J\2m 100.0 | <0.000186 | <0.000183 | | | | | <0.000184 < | | | | | <0.000184 | <0.000183 | i | | 揺りいた | <0.000917 | <0.000926 | | | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | <0.000922 | <0.000185 | | <0.000183 | <0.000957 | 1 1 1 |
| | snslγthdganssA | | <0.000186 < | <0.000183 < | | | | | <0.000184 < | <0.000183 <0.000183 | | | | <0.000184 < | <0.000183 < | | | | <0.000917 | <0.000926 < | | | | | <0.000922 | <0.000185 | | <0.000183 | <0.000957 | |
| | ənəfinqanəəA | | <0.000186 | | | | | | <0.000184 | <0.000183 | | | | <0.000184 | <0.000183 | , | | | <0.000917 | <0.000926 | | | | | <0.000922 | | | <0.000183 <0.000183 <0.000183 <0.000183 <0.000183 <0.000183 <0.000183 | <0.000957 | 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | SAMPLE DATE | ttaminant M ng water ions 1- 103.A. | 11/12/08 | ╉── | 11/11/0 | 12/14/11 | 12/06/12 | | 11/12/08 | · 60//11/11 | | 12/14/11 | | 11/12/08 | · 60/L1/11 | 01/11/11 | 12/14/11 | | 11/12/08 | 11/18/09 | 11/11/10 | 12/14/11 | 12/06/12 | 77 (S. 1997) | 11/12/08 | - | | 12/14/11 | 12/06/12 | |
| | SAMPLE S LOCATION | Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1- 101.UU and 3-103.A. | NW-I | ┢ | | | | | MW-2 | ╞ | | | · · · | MW-3 | | | | ちょうだい こうちょう | MW-4 | | | | | 観光をしていた。 | MW-5 | | | | | |

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P. TNM 97-17 LEA COUNTY, NEW MEXICO NMOCD REFERENCE NUMBER AP-017

itrations are reported in mg/l

411 water

<0.00018 <0.00095 <0.00183 <0.00018 <0.00185 <0.00186 0.00261 0.00112 <0.0002 0.0077 0.0295 0.00034 0.00441 neruhoznadiQ ----<0.000184 <0.000184 <0,000183 <0.000183 <0.000184 000922 <0.000926 「「「「「「」」 0.00712 0.0175 0.0168 0.03830,123 จบจเหมุมปฏิธณาจู่ทางพ-2 õ <0.000184 <0.000952 - 18 MAR 0.000746 0.00287 0.00264 0.00958 0.00277 0.0285 0.0261 0.249 0.00477 0.0115 0.0792 J\2m £0.0 analadidqaniydhaM-I <0.000184 <0.000952 <0.000184 <0.000183 <0.000183 <0.000184 <0.000922 <0.000926 0.00782 0.0106 0.0151 0.038 0.012 analedthqqBV ç <0.000184 <0.000183 <0.000184 <0.000183 いたのである <0.000184 22 <0.000926 <0.000952 <0.000922 <0.00183 <0.00185 <0.00186 <0.00185 <0.0009: J/gm 100.0 Pyrene 1 0.00339 <0.000952 <0.000183 0.000596 0.000755 No. <0.000184 「「「「 0.00418 0.00357 0.00582 0.0045 0.0486 0.00296 0.0108 Репландиене J\2m 100.0 <0.000184 開設に行い <0.000184 <0.00186 <0.000183 開いたたい <0.000183 <0.000184 調査に行いた <0.000922 <0.000926 <0.00185 <0.000922 <0.00183 <0.00185 ł ananyq(ba-E,2,1)onabal J\2m 4000.0 <0.000184 <0.000183 < 0.000183 < 0.000183 < 0.000183 < 0.000183 < 0.000183 <0.000184 < 0.000184 < 0.000184 < 0.000184 < 0.000184 0.000842聞い が見ていたが、 <0.000184 のため影 <0.00183 <0.000183 0.00539 0.00894<0.00186 0.0341 0.00420.00344Pluorene J/3m 100.0 50 <0.000184 務約点の調整 <0.000922 <0.00186 の記述に開き <0.000922 <0.00183 <0.00185 <0.00185 <0.000926 J\2m 100.0 3510 anadingroul3 EPA SW846-8270C. 83 と言語が見 <0.000184 <0.000184 <0.000184 <0.000952 267.00 < 0.000922< 0.000184<0.000926 <0.00183 <0.00185 <0.00186 <0.00185 <0.0001 Dibenz[a,h]anthracene Л\2m £000.0 10000 ő <0.000183 0952 <0.000952 <0.000952 <0.000922 1.5.1 が最高い。「「「「「「「「」」」 <0.000926 <0.00183 <0.00185 14 86 <0.00185 <0.001 Л/3т 2000.0 CpLAseue ŝ <0.000922 00186 83 <0.000184 <0.00183 <0.00185 <0.00185 <0.000926 <0.0005 <0.000 Benzo|k|fluoranthene J\2m 100.0 Event Event. Event Even Not Sampled as part of Quarterly Monitoring Event Not Sampled as part of Quarterly Monitoring Event ŝ Not Sampled as part of Quarterly Monitoring Not Sampled due to the presence of PSH Not Sampled as part of Quarterly Monitoring Not Sampled as part of Quarterly Monitoring Not Sampled as part of Quarterly Monitoring Not Sampled due to the presence of PSF Not Sampled as part of Quarterly Monitoring < 0.000184<0.000183 <0.000183 <0.000183 <0.000183 <0.000183 <0.000922 <0.000184 <0.000926 <0.000184 <0.00185 <0.00186 <0.00185 の時に 「「「「「「」」」」「「「「」」」」「「」」」「「」」」」」 <0.000952 <0,00183 <0.000183 <0.000922 j, Not Sampled due to the presence of Not Sampled due to the presence of Benzo[g,h,i]perylene <0.000952 84 <0.00185 <0.00185 <0.000183 <0.000184 <0.000184 <0.00183 <0.000184 <0.000922 <0.00186 <0.000926 <0.000926 <0.000922 <0.0001 J/gm 100.0 Benzolb[fluoranthene <0.000183 <0.000184 <0.000184 <0.00185 <0.000922 <0.00185 <0.000952 <0.00183 <0.00186 <0.000922 Benzo[a]pyrene J\gm 7000.0 < 0.000184<0.000184 <0.00185 <0.000922 <0.00186 <0.000183 <0.000184 <0.000926 <0.000952 <0.00183 <0.00185 「「「「」 <0.000922 Benzo[a]anthracene J\gm 1000.0 <0.000184 <0.000184 <0.000184 <0.000184 <0.000183 <0.000183 <0.000183 0.0059 <0.000922 <0.000183 <0.000184 <0.000926 <0.000952 0.00361 <0.00185 <0.000922 0.00454 ουουειτηταγ J/8m 100.0 <0.000184 <0.000183 <0.000926 <0.00183 <0.00185 <0.000922 <0.00185 <0.000184 <0.000922 <0.000952 <0.00186 --analyththensaA <0.000922 <0.000183 <0,000184 <0.000926 <0.000184 <0.00185 <0.000952 <0.00183 <0.00185 <0.000922 <0.00186 sasdidqanssA ----SAMPLE Maximum Contaminant 12/14/11 12/14/11 12/06/12 11/18/09 11/12/08 1/18/09 11/12/08 11/12/08 11/18/09 11/18/09 WQCC Drinking water 11/12/08 11/18/09 1/11/10 12/06/12 11/11/10 12/06/12 11/12/08 11/11/10 11/11/10 DATE 1/11/10 12/06/12 12/14/11 12/14/11 12/14/11 standards Sections 1-[01.UU and 3-103.A. Levels from NM SAMPLE 01-WI **MW-6** 7-WM MW-8 6-WW

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P. TNM 97-17 1 fa connty new mexico

LEA COUNTY, NEW MEXICO NMOCD REFERENCE NUMBER AP-017

All water concentrations are reported in mg/L EPA SW846-8270C, 3510

| _ | | | T | सि | | - | | 1 | चा | सा | _ | _ | | · · · · | 6 | 601 | | - | - | | | _ | | - | - | | _ | | <u> </u> | - | | |
|-----------------------|-------------------------------|--|-----------|---------------------|---|---|---|--------|---------------------|---|---|--|---|------------------|---|---------------------|---|--|---|--|----------|----------|---|--|------------------------------------|--|--|----------|---|---|------------------------------------|---|
| | nsrutozn s diO | | <0.000184 | <0.00018 | | | | 3 - 4 | <0.000184 | <0.000184 | | | | 2012 | <0.000199 | <0.000183 | | | | | 0.0289 | 0.0603 | | | | | | 0.0236 | | 0.00176 | | ` |
| | snəladinqanlydisəM-2 | | <0.000184 | <0.000184 | | | | | | <0.000184 | | | | | <0.000199 | <0.000183 | | | | 調査部に | 0.137 | 0.346 | | | | | | 0.0508 | | <0.000184 | | 1 |
| | | J\2m £0.0 | <0.000184 | <0.000184 | | | | | | <0.000184 | | | | | <0.000199 | <0.000183 | | | | 資源総理論 | 0.147 | 0.628 | | | | | | 0.157 | | 0.0035 | | |
| | จตอเตสาชญาติก | | <0.000184 | <0.000184 | | | | | | <0.000184 | | | | 3 w 4 5 | <0.000199 | <0.000183 | | | | にある。 | 0.0377 | 0.124 | | | | A 1.4. 1. 1. | | 0.0219 | | <0.000184 | | |
| | Pyrene | J\2m [00.0 | <0.000184 | <0.000184 | | | | | | <0.000184 | | | | S | <0.000199 | <0.000183 | | | | | <0.0184 | <0.00461 | | | | R. Samera and | | <0.00185 | | <0.000184 | | |
| | ગ્ યગ્રમ)પ્રશગ્ર્થ | J/3m 100.0 | <0.000184 | <0.000184 | | | | | | <0.000184 | | | | 2 Sec. 22 136 24 | <0.000199 | <0.000183 | | | | | 0.0402 | 0.102 | | | | 「「「「「「」」」 | | 0,0369 | | 0.00136 | | |
| | snorvq(bo-€,2,1]onobaI | J\3m Þ0 00.0 | <0.000184 | <0.000184 | | | | | <0.000184 | <0.000184 | | | | 1 家臺那近海影 | <0.000199 | <0.000183 | | | | | <0.0184 | <0.00461 | | | | なるので | | <0.00185 | | <0.000184 | - | 1. A. |
| | Fluorene | J\zm [00.0 | <0.000184 | <0.000184 | | | | | | <0.000184 | | | | 「「「「「「「」」」 | <0.000199 | <0.000183 | | | | | 0.0233 | 0.0786 | | | i | 影響到 | | 0.0274 | | <0.000184 <0.000184 | | |
| ,3510 | ร ถงกุ <i>ร</i> ณรายปล | J\ym 100.0 | <0.000184 | <0.000184 | | | | | | <0.000184 | | | | 源二、 変更で 4 | <0.000199 | <0.000183 | | | | 「「「「「「「「」」」 | <0.0184 | <0.00461 | | | | 1. N. W. W. S. | | <0.00185 | | | | |
| EPA SW846-8270C, 3510 | ənəəsrafins[d,s]znədiU | J\2m £000.0 | <0.000184 | <0.000184 | | | | | | <0.000184 | | | | 1945, 30° J. | <0.000199 | <0.000183 | | | | States and | <0.0184 | <0.00461 | l | | | 一行的影響者 | | <0.00185 | | <0.000184 <0.000184 <0.000184 | | |
| EPA SW | Chrysene | J\gm 2000,0 | <0.000184 | <0.000184 | | | | | | <0.000184 | ļ | | | | <0.000199 | <0.000183 | | | | 1. C | <0.0184 | ⊲0.00461 | | | | | i 1 | <0.00185 | | <0.000184 | | |
| | Benzo k]ü <i>ueren</i> e | J\3m 100.0 | <0.000184 | <0.000184 | Event. | Event. | Event. | | | <0.000184 | Event. | Event. | Event. | | <0.000199 | 0183 | Event. | Event. | oring Event. | Shanna | <0.0184 | <0.00461 | Event. | - | | | | <0.00185 | | :0.000184 | | 「読んないな |
| | Benzo(g,h,i)perylene | | <0.000184 | | Monitoring | Monitoring | Monitoring | | 184 | <0.000184 | Monitoring | Monitoring | Monitoring | 1 | 199 | <0.000183 | Monitoring | Monitoring | Monitoring | | <0.0184 | <0.00461 | Monitoring | ence of PSI | ence of PSH. | No. | er volume | <0.00185 | Monitoring | 184 | PS | |
| | 9a9thar10uff[d]ozn9t | J\3m 100.0 | <0.000184 | <0.000184 | Not Sampled as part of Quarterly Monitoring Event | Not Sampled as part of Quarterly Monitoring Event | Not Sampled as part of Quarterly Monitoring Event | | <0.000184 | <0.000184 | Not Sampled as part of Quarterly Monitoring | Not Sampled as part of Quarterly Monitoring Event. | Not Sampled as part of Quarterly Monitoring Event | 92. 1 | <0.00199 <0.000199 <0.000199 <0.000199 <0.000 | <0.000183 | Not Sampled as part of Quarterly Monitoring Event | Not Sampled as part of Quarterly Monitoring Event. | Not Sampled as part of Quarterly Monito | 建設 定計1 | <0.0184 | <0.00461 | Not Sampled as part of Quarterly Monitoring Event | Not Sampled due to the presence of PSH | Not Sampled due to the presence of | 「「「「「「「「「「」」」」」 | Not Sampled due to Insufficient water volume | <0.00185 | Not Sampled as part of Quarterly Monitoring Event | <0.000184 <0.000184 | Not Sampled due to the presence of | 一体弱に下す |
| | Benzo(s)pyrene | J\zm 7000.0 | <0.000184 | | pled as part of | pled as part | pled as part | 9 e . | <0.000184 | <0.000184 | pled as part | pled as part | pled as part | | <0.000199 | <0.000183 | pled as part | pled as part | pled as part | 100 - 10 - 10 - 10 - 10 - 10 - 10 - 10 | <0.0184 | <0.00461 | pled as part | Sampled du | Sampled du | 神戸といると語 | d due to Inst | <0.00185 | pled as part | <0.000184 | Sampled du | |
| | Benzo[a]anstaracene | J\zm 1000.0 | <0.000184 | <0.000184 <0.000184 | Not Sam | Not Sam | Not Sam | | <0.000184 <0.000184 | <0.000184 | Not Sam | Not Sam | Not Sam | • • • • | <0.000199 | <0.000183 <0.000183 | Not Sam | Not Sam | Not Sam | 。 法驾驶 | <0.0184 | <0.00461 | Not Sam | Not | Not | 調整する | Not Sample | <0.00185 | Not Sam | <0.000184 | | |
| | anaosrutin A | J\3m 100.0 | <0.000184 | <0.000184 | | | | | <0.000184 <0.000184 | <0.000184 | | | | | <0.000199 | <0.000183 | | | | | <0.0184 | <0.00461 | | | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | <0.00185 | | <0.000184 | | |
| I | 9 α9 ίγάἐάq¤aəəA | | <0.000184 | <0.000184 | | | | | <0.000184 | <0.000184 < 0.000184 < 0.000184 30.000184 < 0.000184 < 0.000184 | | | | | <0.000199 <0.000199 | <0.000183 <0.000183 | | | | | < 0.0184 | <0.00461 | | | | Water of the Water of States | | <0.00185 | | <0.000184 <0.000184 <0.000184 <0.000184 <0.000184 <0.000184 | | |
| | Acenaphtinganas A | | <0.000184 | | | | | х • | <0.000184 | <0.000184 | | | | | <0.000199 | <0.000183 | | | | | <0.0184 | <0.00461 | | | | | | <0.00185 | | <0.000184 | | |
| | SAMPLE DATE | ntaminant M ing water tions 1- 103.A. | 11/12/08 | 11/17/09 | 11/11/10 | 12/14/11 | 12/06/12 | | | 11/17/09 | 11/11/10 | 12/14/11 | 12/06/12 | - - - | 11/12/08 | 11/17/09 | 11/11/10 | 12/14/11 | 12/06/12 | • | 11/12/08 | 11/18/09 | 11/11/10 | 12/14/11 | 12/06/12 | | 11/12/08 | 11/18/09 | 11/11/10 | 12/31/11 | 12/06/12 | |
| | SAMPLE | Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1- 101.UU and 3-103.A. | II-MM | | | | | | MW-12 | | | | | | MW-13 | | | | | la. | MW-14 | | | | | | MW-15 | | | | | |

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P. TNM 97-17

TNM 97-17 LEA COUNTY, NEW MEXICO NMOCD REFERENCE NUMBER AP-017

All water concentrations are reported in mg/L EPA SW846-8270C, 3510

| _ | | | | <u></u> | | | _ | γ T | 5 | ~ | _ | - | | - | ~ | ά. | - | - | - | | _ | - | - | | - T | 17-10 | | _ | | T | | - |
|------------|------------------------|--|--------------------|----------------|---|---|---|---------------|---------------------|----------------|---|---|--|--------------|----------------|----------------|---|---|--|--|--|--------------------|---|---------------------------------|--|---------------|----------------|--------------|--|--|--|---|
| | nsrutoznadiO | | <0.000193 | <0.000184 | | | | | <0.000185 | <0.000183 | | | | | <0.000183 | <0.000183 | | | | | | 0.0051 | 1 | 0.00518 | | | 0.000958 | 0.000783 | | | | 5 |
| ſ | ənəlantırqaniyntəM-2 | | <0.000193 | <0.000184 | | | | | <0.000185 | <0.000183 | | | | × | <0.000183 | <0.000183 | | | | 「「「「「「」」」 | | 0.00258 | | 0.00517 | | | < 0.000185 | <0.000183 | | | | |
| Ī | ənəlartılqanlyritəM-i | J\gm £0,0 | | <0.000184 | - | | | _ | _ | <0.000183 | | _ | | _ | | <0.000183 | | | | | | 0.0275 | Ì | 0.0293 | | 鸖 | 0.00351 | 0.00159 | | | | |
| ŀ | 9m9lsdthqsM | | <0.000193 | <0.000184 < | | | | | | <0.000183 < | | | | - | _ | <0.000183 < | | | _ | 二、「「「「「「「「「「」」」」 | | 0.00526 | | 0.00656 | - | | <0.000185 | <0.000183 | | | | |
| ŀ | Бугепе | J\gm 100.0 | | <0.000184 | | | | | | <0.000183 <(| | | | | | <0.000183 < | | - | | たいのからに、船 | _ | <0.000922 (| | <0.000184 (| | | <0.000185 | | | | | |
| | Phenanthrene | | <0.000193 <0 | <0.000184 <0 | | | | | <0.000185 <0 | <0.000183 <0 | | | _ | _ | | <0.000183 <0 | | | | 品の部分を見たい | | 0.00471 <0 | | 0.00624 <0 | | | 0.000318 <0 | 0.000401 < 0 | | | | |
| | ənənyq(bɔ-£,2,1]onəbul | J/8m #000.0 | <0.000193 <0. | <0.000184 <0. | _ | | | | | <0.000183 <0. | | | | - | _ | <0.000183 <0 | | | | | _ | <0.000922 0. | | <0.000184 0. | _ | | <0.000185 0.1 | - | | | | 38.77 N. 27 |
| | | Л\ ут 100.0 | <0.000193 <0.0 | <0.000184 <0.0 | | | | | < 0.000185 < 0.0 | <0.000183 <0.0 | | | | - | _ | <0.000183 <0. | _ | - | | 「「「「「「「「」」」」 | -1 | 0.00387 <0. | - | <0.000184 <0. | | | 0.000615 <0. | 12.2 | | | | 5 32° |
| , | | J\ym 100.0 | <0.00193 <0.0 | <0.000184 <0.0 | | | | であるの語 | <0.000185 <0.0 | <0.000183 <0.0 | | - | | | | 000183 <0.0 | | | | | | <0.000922 0.0 | | <0.000184 <0.0 | - | | <0.000185 0.0 | | | | | 2 V . W. W |
| 0 TOC | | | <0.05 [50103] <0.0 | | | | | | <0.000185 <0.0 | | | | | _ | Å | <0.000183 <0.0 | | | | | | <0.000922 <0.0 | | <0.000184 <0.0 | | | <0.000185 <0.0 | | | | | |
| -0+0 M 0 V | Dibenz[a,h]anthracene | J\2m £000.0 | | | | | | | | | | | | 14 | | 000183 <0.00 | | | | | | | | | | | | | | | | A. C. F. LEW Strategy of St |
| EFA | Cyryssae | Д\gm 2000.0 | 193 <0.000193 | | | | | | 185 < 0.000185 | | | | | | 183 < 0.000183 | 8 | | | | 「「「「「「「「」」」 | | 922 <0.000922 | | 184 < 0.000184 | | | 185 < 0.000185 | | | | | 17. No. 16 |
| | Βειτο[k]fluoranthene | | 193 < 0.000193 | 84 < 0.000184 | ning Event. | ring Event. | oring Event. | | 85 < 0.000185 | 83 <0.000183 | ring Event. | pring Event. | oring Event. | - 「「「「「「「」」」 | 183 < 0.000183 | 183 < 0.000183 | oring Event. | oring Event. | oring Event. | | | 922 <0.000922 | oring Event. | <0.000184 < 0.000184 | PSH. | | 85 < 0.000185 | | | oring Event. | oring Event. | 1862 St. C. |
| | Benzo[E+p+i]berylene | | <0,0001 | <0.000 | | rly Monitor | rly Monitor | | 35 < 0.000185 | | rly Monitoi | rly Monitor | rly Monitor | ,此气 小洋 | <0.000 | | rly Monitor | rly Monitoi | rly Monito | 学校部 新島 金 | | 22 < 0.0009 | rly Monitor | 34 <0.0001 | presence of | | 35 < 0.000185 | <0.000 | | | | 27. S. S. S. |
| | Benzo[b]ปันงาลสที่กลาย | J\zm 100.0 | 3 <0.000193 | | rt of Quarte | rt of Quarte | rt of Quarte | 1.422-2494 | 5 < 0.000185 | 3 < 0.000183 | rt of Quarte | rt of Quarte | rt of Quarte | 1. S.S | 3 < 0.000183 | 3 <0.000183 | rt of Quarte | rt of Quarte | rt of Quarte | 御御に置いて | | 2 <0.000922 | rt of Quarte | 4 < 0.000184 | due to the p | | 5 < 0.000185 | 3 <0.000183 | rt of Quarte | rt of Quarte | rt of Quarte | 2 2 2 |
| | Benzo[a]pyrene | | 1<0.000193 | <0.000184 | Not Sampled as part of Quarterly Monite | Not Sampled as part of Quarterly Monitoring | Not Sampled as part of Quarterly Monite | | <0.000185 <0.000185 | 3 < 0.000183 | Not Sampled as part of Quarterly Monitoring Event | Not Sampled as part of Quarterly Monite | Not Sampled as part of Quarterly Monit | | 3 <0.000183 | 3 <0.000183 | Not Sampled as part of Quarterly Monite | Not Sampled as part of Quarterly Monito | Not Sampled as part of Quarterly Monit | | ater volume | 2 <0.000922 | Not Sampled as part of Quarterly Monite | 4 < 0.000184 | Not Sampled due to the presence of PSH | | 5 < 0.000185 | 3 <0.000183 | Not Sampled as part of Quarterly Monit | Not Sampled as part of Quarterly Monit | Not Sampled as part of Quarterly Monit | |
| | Benzo[a]anthracene | J\zm 1000.0 | <0.000193 | | | Not Sar | Not Sar | | | | | Not Sau | Not Sa | ž | 1 <0.000183 | Ø | Not Sau | Not Sai | Not Sai | A CARLES AND | sufficient w | 8 | Not Sau | <0,0001 | | | 5 < 0.000185 | 1 ≤0 000183 | | Not Sa | Not Sar | |
| | элээвтітиА | J\Zm 100.0 | <0.000193 | | | | | | <0.000185 | <0.000183 | | | | | <0.000183 | <0.000183 | | | | | Not Sampled due to Insufficient water volume | 0.000931 | | <0.000182 | | | < 0.000185 | | | ļ | | |
| | ənəlyıtındırnəəA | | <0.000193 | <0.000184 | | | | | <0.000185 | <0.000183 | | | | | <0.000183 | <0.000183 | | | | | Not Sample | <0.000922 0.000931 | | <0.000184 | ļ | | <0.000185 | <0.000183 | *** *** | | | , |
| | sαshidqaassA | | <0.000193 | | | | | | <0.000185 | <0.000183 | | | - | }.` | <0.000183 | <0.000183 | | } | | | | <0.000922 | | <0.000184 < 0.000184 < 0.000184 | | . . . | | <0.000183 | ~~1000.0 | | | |
| | SAMPLE | ttaminant M ng water ions 1- 103.A. | 11/12/08 | ╋ | ┢ | 12/14/11 | 12/06/12 | | 11/12/08 | ╉ | ┢ | 12/14/11 | 12/06/12 | | 11/12/08 | | 11/11/10 | 12/14/11 | 12/06/12 | | 11/12/08 | ⊢ | 11/11/10 | 12/14/11 | 12/06/12 | | 30/01/11 | ╉ | 11/11/10 | -12/14/11 | 12/06/12 | - |
| | SAMPLE | Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1- 101.UU and 3-103.A. | MW-16 | ╈ | | | | | MW-17 | | | | | | MW-18 | ╞ | | | | | MW-19 | | | | ļ | . . | 00 701 | 07-M IAI | | T | | |
| | <u> </u> | <u> Para Para</u> | | 1 | ł | | ļ | $\frac{1}{2}$ | | | | | | ľ | | | | L | 1_ | 2 | | | | | Ι. | 1. | | | | | L | |

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

NMOCD REFERENCE NUMBER AP-017 LEA COUNTY, NEW MEXICO 71-79 MNT

<0.000185 <0.000184 0.00108 <0.00018<u>3</u> 0.000578 <0.00018 <0.000 0 <0.0001 <00000> <u>80</u>00 Dibenzofuran •____ <0.000184 -84 <0.000185 <0.000185 <0.000184 <0.000185 <0.000185 < 0.000185<0.000184 Sec. Karn <0.0001 2-Methylnaphthalene <0.000185 <0.000184 185 <0.000185 184 <0.000184 <0.000184 <0.000185 <0.000183 <0.000185 「「「「「「」」 ≤0.00<u>0</u> J\2m £0.0 0000 analentingeniyittaM-1 「「「「「「「「「「」」」 <0.000184 差いな <0.000184 <0.000185 <0.000185 < 0.000184<0.000185 <0.000185 <0.000185 <0.000184 analadidqaN <0.000184 <u>全0.000185 <0.000185</u> × <0.000185 <0.000185 < 0.000184<0.000185 <0,000185 <0.000184 < 0.000184法にの問題 Pyrene J/2m 100.0 <0.000185 <0.000184 <0.000183 <0.000185 <0.000184 <0.000185 <0.000185 CALCULAR DE LA CALCUL <0.000184 0.000203 J/Sm 100.0 улогиятеле <0.000185 < <0.000185</p> <0.000185 <0.000183 2 <0.000185 <0.000184 <0.000184 <0.000184 建設が予防に語 <0.0001 anaryq(ba-£,2,1]onabul J\2m 4000.0 0.000414 <0.000185 20.000185 <0.000185</p> <0.000184 j_r <0.000185 < 0.000184<0.000185 に時たまたまで <0.000184 <0.000183 0.000249 л\а≊т 100.0 anaronta ł <0.000184 <0.000185 「「「「「「「」」」 <0.000184 <0.000185 <0.000184 <0.000185 <0.000184 <0.000185 I\3m 100.0 fluoran(hene 351 EPA SW846-82700 <0.000185 <0.000185 <0.000185 <0.000185 <0.000183 < 0.000184<0.000184 <0.000184 <0.000184 語書にあ <0.000184 <0.000185 <0.000184 Dibenz[a,h]anthracene J\gm £000.0 <0.000184 <</td><0.000183 </td> are repor <0.000185 <0.000185 <0.000185 <0.000184 <0.000185 <0,000185 <0.0001 CPLAseue J/3m 2000.0 <0.000184 <0.000185 <0.000185 84 <0.000183 85 <0.000184 000.0 000.0 0 <0.0001 Benzo[k]fluoranthene J/2m 100.0 000.0⊳ Event. Event. Event. Event. Event Event Event Event Svent Event vent Event All matter Not Sampled as part of Quarterly Monitoring I Not Sampled as part of Quarterly Monitoring I Not Sampled as part of Quarterly Monitoring I Monitoring F Not Sampled as part of Quarterly Monitoring Not Sampled as part of Quarterly Monitoring Not Sampled as part of Quarterly Monitoring Monitoring Not Sampled as part of Quarterly Monitoring 演算にある <0.000185 Monitoring 000185 <0.000184 < 0.000183< 0.000184<0.000184 <0.000185 <0.000185 < 0.000184<0.000185 諸語 Benzo[g.h.i]perylene ---ž ₹ Not Sampled as part of Quarterly I Not Sampled as part of Quarterly I Not Sampled as part of Quarterly Not Sampled as part of Quarterly 1851 <0.000184 185 <0.000185 <0.000185 <0.000184 < 0.000184 <0.000185 84 <0.000185 < 0.000183<0.000184 <0.0001 Benzo[b]fluoranthene J\gm [00.0 8 8 8 000 0≥ 「「「「「「「「」」 <0.000185 <0.000184 <0.000185 <0.000185 <0.000185 <0.000184 <0.000185 <0.000183 <0.000184 Benzo[a] pyrene J/gm 7000.0 <0.000185 <0.000185 <0.000184 <0.000184 <0.0001831 の時にあるな <0.000185 <0.000184 <0.000184 Benzo[a]anthracene J/gm 1000.0 <0.000184 <0.000185 <0.000185 <0.000184 <0.000185 <0.000185 <0.000184 <0.000185 84 <0.000183 <0.0001 J\2m 100.0 **э**пээвтійнА <0.000185 < <0.000184 -<0.000185 <0.000184 <0.000185 <0.000185 ənəlydinqanəəA <0.000 ---<0.000185 <0.000184 83 <0.000185 000184 <0.000185 <0.000184 <0.000185 <0.000185 <0.000184 1000 әпэйлавлээА ----Ş Ś SAMPLE 11/12/08 11/12/08 Maximum Contaminant WQCC Drinking water standards Sections 1-11/18/09 11/17/09 12/06/12 11/12/08 00/21/11 11/12/08 60/ 12/14/11 2/09 DATE 11/12/08 11/11/10 01/11/10 12/06/12 1/11/10 12/06/12 12/06/12 12/14/11 12/14/1 12/14/1 4 12/06/1 01.UU and 3-103.A. Levels from NM SAMPLE LOCATION MW-25 MW-22 MW-23 MW-24 MW-2]

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P. TNM 97-17

TIM 97-17 LEA COUNTY, NEW MEXICO NMOCD REFERENCE NUMBER AP-017

All water concentrations are reported in mg^L EPA SW846-8270C, 3510

| Т | i i | | E | 21 | T | Т | ŀ | <u> </u> | ġŢ; | 2 | T | Т | Т | 1 | 2 | <u></u> | T | Т | Т | | ر ا، | Ы | Ť | Т | η | ň, | او | ي | Ť | ٦ | T | ٦ |
|-------------------|--|--|---------------------|---------------------|---------------------------------------|---------------------------------------|--------------|--|----------------------|---------------------|---------------------------------------|---------------------------------------|--------------|---------------------------------------|--|---------------------|---------------------------------------|--------------------------------------|---------------------------------------|------------|-----------------|---------------------|------------------------------------|---------------------------------|---------------------------------|--|------------|-------------|---------------------------------------|---------------------|--|--------------------------|
| | пятиуохпэдіД | | 0.00047 | <0.000184 | | | , , | | | <0.000184 | | | | | | <0.000183 | | | 1 | | +910'∩> | 0.00722 | | | | 2 | 0.00476 | 0.00146 | | 0.00275 | | |
| | ənəlati)dqaatydisM-S | | <0.000185 | <0.000184 | | | 1 | | <0.000184 | <0.000184 | | | | | <0.000184 | <0.000183 | | | - oto - oto - oto - | | <0.0184 | <0.000922 | | | | ないないの | < 0.00184 | <0.000184 | | <0.000183 | | |
| | ənəladidqaniydisəM-İ | J\ym £0,0 | | <0.000184 < | | | | | | <0.000184 | Ť | | | | | <0.000183 | | | - | τų. | + | 0.0262 | | | | いたがたい | 0.00552 | 0.00155 | | <0.000183 | | 5 |
| | ənəlerindqay. | | | <0.000184 < | | | | | | <0.000184 < | | | | | | <0.000183 < | t | | 1 | | <0.0184 | <0.000922 | | | | | <0.00184 | <0.000184 | | <0.000183 < | - | |
| ľ | Fyrene | J\gm 100.0 | | <0.000184 < | | | _ | | | <0.000184 < | | | _ | | | <0.000183 < | ╉ | | | 542 232 | _ | <0.000922 < | | | | | <0.00184 < | <0.000184 < | | <0.000183 < | | |
| | Phenanthranet G | J\gm 100.0 | | <0.000184 < | | | | | | <0.000184 < | | | | | | <0.000183 < | ╉ | ┨ | _ | | | 0.00884 | | | | a and a second | 0.00488 | 0.000874 < | | 0.00344 < | | |
| | əαəາγq(bə-£,Σ,1)onəbnl | J\gm \$000,0 | <0.000185 4 | <0.000184 < | | | | | | <0.000184 < | | | | | | <0.000183 < | | | _ | cul. | <0.0184 | <0.000922 | | | | | <0.00184 | <0.000184 | | <0.000183 | | 1 - E - C - Z - |
| | Anstoula | J\3m 100.0 | 0.000312 < | <0.000184 < | | | | | | <0.000184 < | | | | | <0.000184 | <0.000183 | | | | 8.h | -† | 0.00771 | | | | RANK TERMS | 0.00424 | 0.001 | | <0.000183 | | |
| 3510 | Fluoranthene | J\ <u>з</u> т 100.0 | <0.000185 | <0.000184 | | | | | | <0.000184 | 1 | | | | <0.000184 | <0.000183 | | | 1 | | <0.0184 | <0.000922 | | | | ation of the | <0.00184 | <0.000184 | | <0.000183 | | Sec. 2 Sec. |
| SW846-8270C, 3510 | ənəərthas[d,a]saədiU | J\zm £000.0 | <0.000185 | <0.000184 | | | | | <0.000184 | <0.000184 | | | | | | <0.000183 | | | | ないの試験 | | <0.000922 | | | | 時間にある | <0.00184 | <0.000184 | | <0.000183 | | |
| EPA SW | Chrysene | J\gm 2000.0 | <0.000185 | <0.000184 | | | | | | <0.000184 | | | | | | <0.000183 | | | | | | <0.000922 | | | | PARTY AND | <0.00184 | <0.000184 | | <0.000183 | 100 A 10 | |
| | Benzo[k]fluoranthene | J\zm 100.0 | <0.000185 | 184 | toring Event. | Event. | | | | 0.000184 | Event. | toring Event. | | ····································· | | <u>8</u> | toring Event. | Event. | toring Event. | | | <0.000922 | | | Ŧ | | <0.00184 | <0.000184 | Event. | <0.000183 | | |
| | Benzo[g,ħ,i]perylene | | <0.000185 | 0184 | | | toring | | | 0184 | Monitoring | | itoring | NUMBER OF | <0.000184 | 0183 | | | | | | | ince of PSH. | sence of PSH | sence of PSH | No. LANS | <0.00184 | <0.000184 | Monitoring | <0.000183 | | 「山町」とい |
| | Jensel and a subsection of the | J\gm 100.0 | <0.000185 | <0.000184 | Not Sampled as part of Quarterly Moni | Not Sampled as part of Quarterly Moni | | Differ Table | <0.000184 < 0.000184 | <0.000184 | Not Sampled as part of Quarterly Moni | Not Sampled as part of Quarterly Moni | | | <0.000184 | <0.000183 | Not Sampled as part of Quarterly Moni | Not Sampled as part of Quarterly Mon | Not Sampled as part of Quarterly Moni | | <0.0184 | <0.000922 | Not Sampled Due to Presence of PSH | Not Sampled due to the presence | Not Sampled due to the presence | 理論において | <0.00184 | <0.000184 | Not Sampled as part of Quarterly Moni | <0.000183 | | |
| | Benzo[a]pyrenc | J\2m 7000.0 | <0.000185 <0.000185 | <0.000184 <0.000184 | pled as part | pled as part | pled as part | | <0.000184 | <0.000184 <0.000184 | pled as part | pled as part | pled as part | हेत्र हो आप जिल्ली | <0.000184 <0.000184 <0.000184 0.000184 <0.000184 | <0.000183 <0.000183 | ipled as part | pled as part | pled as part | | <0.0184 | <0.000922 | ot Sampled | t Sampled di | t Sampled du | Sec. Sec. Sec. | <0.00184 | <0.000184 | pled as part | <0.000183 <0.000183 | | |
| | Benzo[a]anthracene | J\gm 1000.0 | <0.000185 | ð | Not Sam | Not Sam | Not Sam | $(1-\frac{1}{2})_{n\in\mathbb{N}^{n-1}}$ | < 0.000184 | A | Not Sam | Not Sam | Not Sam | | < 0.000184 | <0.000183 | Not Sam | Not Sam | Not Sam | | <0.0184 | <0.00092 | z | 0N | °Z | | <0.00184 | <0.000184 | | 181 | | |
| | э αээ8тйјпА, | J\Zm 100.0 | <0.000185 | <0.000184 | | | | 1. 1. 1. 1. 1. 1. 1. 1. 1. | < 0.000184 | <0.000184 | | | | | < 0.000184 | <0.000183 <0.000183 | | | | | <0.0184 | <0.000922 <0.000922 | | | | | <0.00184 | 1. | | <0.000183 | | - |
| | эпэіүййдяпээА | | <0.000185 | | | | | | <0.00184 | <0.000184 | | | | | <0.000184 | <0.000183 | | | | | <0.0184 | | | | | | <0.00184 | <0.000184 | | <0.000183 | | - |
| | ənətlihqanəəA | | <0.000185 | <0.000184 | | | | 1. 18 C | <0.000184 | <0.000184 | | | | - 35 W - 5 | <0.000184 | <0.000183 | | | | | <0.0184 | <0.000922 | | | | | <0.00184 | <0.000184 | | <0.000183 | | 1 . (. () . |
| | DATE | ntaminant M ing water tions 1- 103.A. | 11/12/08 | 11/18/09 | 11/11/10 | 12/14/11 | 12/06/12 | の日本が新聞 | 11/12/08 | 11/17/09 | 11/11/10 | 12/14/11 | 12/06/12 | | 11/12/08 | 11/18/09 | 11/11/10 | 12/14/11 | 12/06/12 | | 11/12/08 | 11/18/09 | 11/11/10 | 12/14/11 | 12/06/12 | ~ | 11/10/08 | 11/18/00 | 11/11/10 | 12/14/11 | 12/06/12 | - |
| | SAMPLE | Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1- 101.UU and 3-103.A. | MW-26 | | | | | | MW-27 | | | | | | MW-28 | | | | | - ふたがった 一等 | RW-1 | | | | | | C-WA | 7-11-17 | | | | |
| <u> </u> | | | _ | - | | - | _ | - | _ | _ | - | - | _ | - | - | - | _ | | - | - | - | | - | _ | - | - | | _ | | _ | _ | _ |

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P. TNM 97-17

TNM 97-17 LEA COUNTY, NEW MEXICO NMOCD REFERENCE NUMBER AP-017 All water concentrations are reported in mg/L EPA SW846-8270C, 3510

| easlantnagaN seastantnagantnagant S-Methynagantys S-Mennagantys Dibennoganean | J\2m £0.0 | 0.00787 <0.000922 | 0.00132 0.00526 <0.000185 0.0010 | | 0 00364 <0 000184 | <0.000948 0.0076 <0.000948 <0.000948 | 24- 71-7 | 0.00766 0.0201 0.00836 0.00372 | 0.00989 0.0168 0.00425 0.00144 | 7 0.00489 0.000475 | 0.0106 <0.000184 | 0.00583 0.0166 0.00838 <0.00962 | - | 0.0266 0.0192 | 0.0107 0.0461 0.0236 0.00484 | | | | | 4 0.0381 0.0245 | 0.0222 0.413 0.0617 0.0690 | | | |
|---|--|---|---|--|---------------------|--------------------------------------|-------------------------|--------------------------------|--|---|---------------------|---------------------------------|--|-------------------|---|--|------------------|------------------------------------|---|-------------------|----------------------------|--|-----------------------------------|--|
| ગ્યગર્ડતુ | J\gm 100.0 | <0.000922 | <0.000185 | | <0.000184 | <0.000948 | 会に業を崩 | <0.00184 | <0.000184 | <0.000184 | <0.000184 | <0.000962 | | <0.00184 | <0.000926 | - | | | 21 | <0.00184 | <0.00463 | | | |
| Indeno[1,2,3-cd)pyrene | J\gm ₱000.0 | | <0.000185 <0.000185 | | <0.000184 <0.000184 | <0.000948 <0.000948 | | <0.00184 0.00442 | <0.000184 0.000935 | <0.000184 0.00154 | <0.000184 0.00161 | | 聽聽管戰 外心地震 | | <0.000926 0.00683 | | | | いたい 「「「「「「「「」」」 | <0.00184 0.011 | <0.00463 0.107 | | | |
| Fluorene | J\zm 100.0 | 0.00212 | 0.000906 | | 34 < 0.000184 | <0.000948 | STREET, STOR | 0,00391 | 0.00118 | < 0.000184 | <0.000184 | < 0.000962 | である。 | <0.00184 | 0.00522 | _ | | 1 | 1. 1. S. C. S. S. C. S. S. C. S. S. C. S. | | 3 0.0748 | | | |
| Dibens[a,h]anthracene Fluoranthene | | <0.000922 <0.000922 <0.000922 <0.000922 <0.000922 | <0.000185 < 0.000185 < 0.000185 < 0.000185 < 0.000185 | | <0.000184 <0.000184 | <0.000948 < 0.000948 < 0.000948 | | <0.00184 <0.00184 | < 0.000184 < 0.000184 | <0.000184 <0.000184 | <0.000184 <0.000184 | <0.000962 <0.000962 | 14.5.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 | <0.00184 <0.00184 | <0.000926 <0.000926 <0.000926 | | | | たいとう 急 とうべい | \vdash | <0.00463 <0.00463 | | | |
| Сргузене | | <0.000922 <0.0 | <0.000185 <0.0 | | <0.000184 <0.0 | <0.000948 <0.0 | | <0.00184 <0.0 | <0.000184 <0.0 | | <0.000184 <0.0 | <0.000962 <0.0 | N. S. | <0.00184 <0.0 | <0.000926 <0.0 | | | | | <0.00184 <0.0 | <0.00463 <0.0 | | | |
| Benzo[k]fluoranthene | | 922 <0.000922 | 185 < 0.000185 | | 184 < 0.000184 | 948 < 0.000948 | rg (6) <u>200</u> 201 1 | 84 <0.00184 | 184 < 0.000184 | 184 < 0.000184 | _ | 2 | 11 12 <u>2</u> 25 1 | 84 <0.00184 | 926 < 0.000926 | oring Event. | f PSH. | f PSH. | I was a way to be | 84 <0.00184 | 163 <0.00463 | oring Event. | f PSH. | |
| Benzo[b]fluoranthene Benzo[g,h,i]perylene | .1\ym 100.0 | 0922 <0.00092 | | arterly Monitori | <0.000184 <0.00018 | <0.000 | | <0.00184 <0.0018 | <0.000 | <0.000184 <0.00018 | <0.000184 <0.00018 | <0.000962 <0.00096 | من الله المتحدين الله المريسية . منابع المتحدين الله المريسية . | <0.00184 <0.0018 | <0.000 | arterly Monitori | he presence of I | he presence of h | | <0.00184 <0.0018 | <0.00463 <0.0046 | arterly Monitori | he presence of PSH | |
| Benzorphyrene | J\2m 7000.0 | <0.000922 <0.000922 <0.000922 <0.000 | <0.000185 <0.000185 <0.000185 <0.000185 <0.000 | Not Sampled as part of Quarterly Monit | <0.000184 < 0.00 | <0.000948 <0.00 | March Son | <0.00184 <0.0 | <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 < 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 < 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 < 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 < 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 < 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 < 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 < 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 < 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 < 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 <0.00 | <0.000184 <0.00 | <0.000962 <0.0(| | <0.00184 <0.0 | <0.000926 <0.000926 <0.000926 <0.000926 <0.000926 <0.000926 | Not Sampled as part of Quarterly Monit | Sampled due to 1 | Not Sampled due to the presence of | | <0.00184 <0.0 | <0.00463 <0.0 | Not Sampled as part of Quarterly Monit | Not Sampled due to the presence o | |
| Benzo[a]kuk[a]02n98 | J\2m 1000.0 | | 35 <0.000185 < | Not Samp | < 0.000184 | <0.000948 | | <0.00184 | 34 < 0.000184 < | 34 < 0.000184 < | <0.000184 | <0.000962 | 2 - - - | <0.00184 | 26 <0.000926 - | Not Samp | Not | Not | | <0.00184 | <0.00463 | Not Samp | Not | |
| Апільясепе | J\gm 100.0 | 0922 0.000931 | <0.000185 <0.000185 | | 0184 < 0.000184 | 0948 < 0.000948 | | 0184 < 0.00184 | 0184 < 0.00018 | < 0.000184 < 0.000184 < 0.000184 < 0.000184 | 0184 < 0.000184 | 0962 < 0.000962 | | 0184 0.00472 | 0926 < 0.0005 | | | | | 0184 < 0.00184 | 0463 < 0.00463 | | | |
| ənəti)dqanəəA | | <0.000922 <0.000922 | <0.000185 <0.000 | | <0.000184 <0.000184 | <0.000948 <0.000948 | | <0.00184 <0.00184 | <0.000184 <0.00 | <0.000184 <0.00 | <0.000184 <0.000184 | <0.000962 <0.000962 | | <0.00184 <0.00184 | <0.000926 <0.00 | | | | | <0.00184 <0.00184 | <0.00463 <0.00463 | 1 | | |
| SAMPLE DATE | ontaminant VM king water tions 1- -103.A. | 11/12/08 ⊲ | 11/18/09 < | 01/11/11 | 12/14/11 < | | | 11/12/08 < | ╉┈╴ | ⊢ | 12/14/11 | | | 11/12/08 < | 11/18/09 ⊲ | 11/11/10 | 12/14/11 | 12/06/12 | | 11/12/08 < | ⊢ | | 12/14/11 | |
| SAMPLE LOCATION | Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1- 101.UU and 3-103.A. | RW-3 | | | | | | RW4 | | | | | | RW-5 | | | | | | RW-6 | | | | |

APPENDICES

.

t

APPENDIX A: Release Notification and Corrective Action (Form-C-141)

1

• (

| | New Mexico Form C- |
|--|--|
| Hobbs, NM 88241-1980 Enc. Minerals and Na District II + (505) 748-1283 Oil Conserv | tural Resources C_artment Originated 2 |
| Artesia, NM 88210 2040 South District III - (505) 334-6178 Santa Fe, Ne | a Pacheco Street Submit 2 co w Mexico 87505 Appropriate I 827-7131 Office in acco back side o |
| | and Corrective Action |
| | ERATOR Initial Report Final I |
| Name Texas-New Mexico Pipe Line Company | Edwin H. Gripp |
| Box 60028, San Angelo, TX 76906 | Telephone Na (915) 947-9000 |
| Facility Name Vacancem Act. to Gal Main Sens | Facility Type pige line |
| Surface Owner Mineral Owner Mineral Owner | Lease No. |
| | OF RELEASE |
| Unit Letter Section Township Range Feet from the North/South Lin 21 205 37E | E Feet from the East/West Line County |
| | OF RELEASE |
| Type of Release | Volume of Reinage Volume Recovered |
| Source of Release | Date and Hour of Occurrence Date and Hour of Discovery C |
| B'rizeline on scraper trap beg | 200 Unknown 8-13-97 3:00 PM |
| Was Intimediate Notice Given? X Yes No Not Required | be live Timeday |
| By Whom? | Date and Hour |
| West Watercourse Restrict? | 8-13-97 4:45 pm CST If YES, Volume Impacting the Watercourse |
| U Yes X No | |
| If a Waterenurse was impacted. Describe Fully." | |
| | |
| · · | |
| Describe Cause of Problem and Remedial Action Taken.* | |
| Esternal Corresien | |
| | 9 -12 |
| Describe Area Alfected and Cleanup Action Teken." | 0- |
| Approximately 360 sg. ft. Ser | ozer trap area. |
| Contaminated soil than Me Describe General Conditions Prevailing (Temperature, Prevailation, etc.).* | moned |
| | |
| Clear 90 | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: | OIL CONSERVATION DIVISION |
| Printed Name Edwin H. Gripp | Approved by Disutet Supervisor |
| Tide: District Manager | Approval Date Expiration Date |
| Date: 8-14-97 Phone: 915-947-9001 | Conditions of Approval: Attached |
| * Attach AddiUonal Sheets If Necessary | State Corp. Commission Hazardous Waste Section |
| TNM-97-17 JUC JAS | Pipe Line Division NM Environmental Improvement Div. |