2014
ANNUAL MONITORING REPORT

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

Prepared for:

PLAINS MARKETING L.P.
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Prepared By:

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March 2015

Curt D. Stanley
Senior Project Manager

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Senior Project Manager

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INTRODUCTION

On behalf of Plains Marketing, L.P. (Plains), TRC Solutions, Inc. (TRC) is pleased to submit this 2014 Annual Groundwater Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. Beginning on May 29, 2004, project management responsibilities were assumed by TRC, previously NOVA Safety and Environmental. This report is intended to be viewed as a complete document with figures, attachments, tables, and text. The report presents the results of four (4) quarterly groundwater monitoring/sampling events conducted at the TNM 98-05A crude oil Release Site (the site), located in Lea County, New Mexico. The site, formerly the responsibility of Enron Oil Trading and Transportation (EOTT) is now the responsibility of Plains. For reference, the Site Location Map is provided as Figure 1.

Groundwater gauging and sampling was conducted during each quarter of 2014 to assess the levels and extent of Phase Separated Hydrocarbons (PSH) and dissolved phase constituents. The groundwater monitoring events consisted of measuring static water levels in the monitor wells, and purging and sampling of each well exhibiting sufficient recharge. Monitor wells were not sampled if a measurable thickness of PSH was detected during gauging activities.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The site is located approximately two miles northeast of the city of Eunice, New Mexico. The legal description of the site is NE ¼, NW ¼, Section 26, Township 21 South, Range 37 East (Figure 1). On February 5, 1998, an estimated thirty-eight (38) barrels of crude oil were released from a six (6) inch crude oil pipeline. Approximately four (4) barrels of crude oil were recovered during the initial response activities. The release was attributed to internal corrosion of the pipeline. The Release Notification and Corrective Action Form (C-141) is provided as Appendix B. Approximately 3,300 cubic yards of impacted soil was excavated and applied to an on-site treatment cell. In December 2004, a Site Restoration Work Plan and Proposed Soil Closure Strategy Report was submitted to the NMOCD. The report was approved by the NMOCD in a letter dated June 2, 2005. In October 2005, additional excavation along the east sidewall was completed, the excavation was backfilled with remediated soil and the site was graded to match the surrounding topography. In December 2005, a Soil Closure Request was submitted to the NMOCD and this request was approved by the NMOCD in a letter dated January 31, 2006, which concurred no further action was necessary with regard to soil remediation at the TNM-98-05A Site.

During the October 2005 excavation backfilling activities, monitor well MW-4 was damaged and could not be repaired. On January 9, 2006, Plains representatives requested NMOCD approval to plug and abandon monitor well MW-4. On January 19, 2006, NMOCD approved the request to plug and abandon the monitor well. On March 6, 2006, monitor well MW-4 was plugged and abandoned utilizing approved New Mexico Office of the State Engineer plugging and abandonment procedures.

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

twenty-three (23) feet southeast of monitor well MW-2 and monitor well MW-13 was installed approximately twenty (20) feet northeast of monitor well MW-2. Please reference Figure 2 for a Site Map. Monitor well boring logs are provided as Appendix A.

Currently, there are twelve (12) monitor wells (MW-1 through MW-3, and MW-5 through MW-13) onsite. For reference, the analytical results are shown in Table 2, 2014 Concentrations of BTEX in Groundwater.

FIELD ACTIVITIES

Product Recovery Efforts

A measurable thickness of PSH was detected in monitor wells MW-2, MW-10, and MW-13 throughout the reporting period. A maximum thickness of 2.04 feet of PSH was detected in monitor well MW-10 on January 23, 2014. The average thickness of PSH exhibited in monitor wells MW-2, MW-10, and MW-13 was 0.75 feet. Groundwater Elevation data is provided as Table 1. Approximately 96.18 gallons (approximately 2.29 barrels) of PSH was recovered from the site during the 2014 reporting period.

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 correspondence date January 19, 2006. The table below illustrates the current groundwater sampling schedule approved by the NMOCD.

Sample Location	Sampling Schedule
MW-1	Quarterly
MW-2	Quarterly
MW-3	Annually
MW-4	Plugged and Abandoned March 6, 2006
MW-5	Annually
MW-6	Quarterly
MW-7	Semi-annually
MW-8	Quarterly
MW-9	Semi-Annually
MW-10	Quarterly
MW-11	Semi-Annually
MW-12	Quarterly
MW-13	Quarterly

Quarterly sampling events for the calendar year 2014 were performed on March 5-6, May 29, August 12-13, and November 15, 2014. Each quarterly sampling event consisted of gauging all wells and purging and sampling monitor wells as per the approved sampling schedule. During each sampling event, the monitor wells were purged of a minimum of three (3) well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos pump. Groundwater was allowed to recharge and samples were collected using disposable 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.

The most recent inferred groundwater gradient, Figure 3D, indicates a general gradient of approximately 0.005 feet/foot to the southeast as measured between monitor wells MW-1 and MW-6. This data is consistent with data presented on Figures 2A through 2C from earlier in the year. The corrected groundwater elevations ranged between 3,341.68 and 3,343.16 feet above mean sea level, in monitor well MW-6 on August 12, 2014 and from monitor well MW-13 on September 4, 2014, respectively. Groundwater elevation data for the calendar year 2014 is provided in Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed disk.

LABORATORY RESULTS

Groundwater samples obtained during the quarterly sampling events of 2014 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 on monitor wells MW-1 and MW-12 during the 2014 calendar year. 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 2014 are summarized in Table 2 and the historic PAH constituent concentrations are summarized in Table 3. Copies of the laboratory reports generated for 2014 are provided on the enclosed data disk. The quarterly groundwater sample results for BTEX constituent concentrations are depicted on Figures 4A through 4D.

Monitor well MW-1 is sampled on a quarterly schedule. Monitor well MW-1 was not sampled during the 2nd quarter due to bent casing in the monitor well. The monitor well was sampled during the 1st, 3rd, and 4th quarters. The analytical results indicate benzene concentrations ranged from 0.500 mg/L during the 4th quarter to 1.22 mg/L during the 1st quarter of 2014. Benzene concentrations were above the NMOCD regulatory guidelines of 0.01 mg/L during 1st, 3rd, and 4th quarters of the reporting period. Toluene concentrations were below the laboratory Method Detection Limit (MDL) and NMOCD regulatory guidelines during the 1st, 3rd, and 4th quarters of the reporting period. Ethylbenzene concentrations ranged from <0.0500 mg/L during the 3rd quarter to 0.170 mg/L during the 4th quarter of 2014. Ethylbenzene concentrations were below the NMOCD regulatory guidelines of 0.75 mg/L during the reporting period. Xylene concentrations ranged from <0.0500 mg/L during the 3rd quarter to 0.345 mg/L during the 4th quarter of 2014. Xylene concentrations were below the NMOCD regulatory guidelines of 0.62 mg/L during 1st, 3rd, and 4th quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated all concentrations were below WQCC Drinking Water Standards during the reporting period.

Monitor well MW-2 is sampled on a quarterly schedule. Monitor well MW-2 was not sampled during the 1st, 2nd, 3rd, and 4th quarters of the reporting period due to the presence of PSH. PSH thicknesses of 1.34 feet, 0.87 feet, 0.63 feet, and 1.01 feet were reported during the 1st, 2nd, 3rd,

and 4th quarters of 2014, respectively. PAH analysis was not conducted during the 4th quarter sampling event due to the presence of PSH.

Monitor well MW-3 is sampled on an annual schedule. Analytical results indicate BTEX constituent concentrations were below the MDL and/or NMOCD regulatory guidelines during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 1st quarter of 2003. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-5 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines for each constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the installation of the monitor well in the 1st quarter of 2000. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-6 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines for each constituent during the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the installation of the monitor well in the 1st quarter of 2000. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-7 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines for each constituent during the 2nd and 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the installation of the monitor well in the 1st quarter of 2000. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-8 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines for each constituent during the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the installation of the monitor well in the 1st quarter of 2000. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-9 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines for each constituent during the 2nd and 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 1st quarter of 2008. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-10 is sampled on a quarterly schedule. Monitor well MW-10 was not sampled during all four (4) quarters of 2014 due to the presence of PSH. PSH thicknesses of 1.68 feet, 0.42 feet, 0.44 feet, and 0.43 feet were reported during the 1st, 2nd, 3rd, and 4th quarters of

2014, respectively. PAH analysis was not conducted during the 4th quarter sampling event due to the presence of PSH.

Monitor well MW-11 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guideline for each constituent during the 2nd and 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 4th quarter of 2005. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-12 is sampled on a quarterly schedule and the analytical results indicate benzene concentrations ranged from 0.0166 mg/L during the 2nd quarter to 0.214 mg/L during the 4th quarter of 2014. Benzene concentrations were above the NMOCD regulatory guidelines the four (4) quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from <0.00100 mg/L during the 3rd quarter to 0.0259 mg/L during the 1st quarter of 2014. Ethylbenzene concentrations were below the NMOCD regulatory guidelines during the reporting period. Xylene concentrations ranged from <0.00100 mg/L during the 3rd quarter to 0.0458 mg/L during the 1st quarter of 2014. Xylene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated all concentrations were below WQCC Drinking Water Standards during the reporting period.

Monitor well MW-13 is sampled on a quarterly schedule. Monitor well MW-13 was not sampled during all four (4) quarters of 2014 due to the presence of PSH. PSH thicknesses of 0.34 feet, 0.10 feet, 0.28 feet, and 0.19 feet were reported during the 1st, 2nd, 3rd, and 4th quarters of 2014, respectively. PAH analysis was not conducted during the 4th quarter sampling event due to the presence of PSH.

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

SUMMARY

This report presents the results of four (4) groundwater monitoring and sampling events for the annual monitoring period of calendar year 2014. Currently, there are twelve (12) groundwater monitor wells (MW-1 through MW-3, and MW-5 through MW-13) on site. The most recent inferred groundwater gradient indicates a general gradient of approximately 0.005 feet/foot to the southeast.

In 2012, due to the elevated PSH thickness in monitor wells MW-2 and MW-10, Plains opted to change the sampling schedule of monitor wells MW-6 and MW-8 to a quarterly sampling schedule to monitor the migration of the PSH plume more closely.

A measurable thickness of PSH was detected in monitor wells MW-2, MW-10, and MW-13 throughout the reporting period. A maximum thickness of 2.04 feet of PSH was detected in

monitor well MW-10 on January 23, 2014. The average thickness of PSH exhibited in monitor wells MW-2, MW-10, and MW-13 was 0.75 feet.

Benzene concentrations were above NMOCD regulatory guidelines in two (2) monitor wells (MW-1 and MW-12) during the reporting period. BTEX concentrations were below NMOCD regulatory guidelines in the remaining seven (7) sampled monitor wells.

ANTICIPATED ACTIONS

An automated PSH recovery system utilizing skimmer pumps is to be installed in monitor wells MW-2, MW-10, and MW-13 to assist in PSH recovery. These wells will be pumped aggressively until PSH thickness is diminished to a point where skimmer pumps are no longer efficient in the removal of PSH.

Monitor wells exhibiting elevated BTEX concentrations will continue to be pumped aggressively in 2015. Weekly visits to gauge and pump monitor wells MW-1, MW-2, MW-10, MW-12, and MW-13 will continue in 2015. Quarterly monitoring and groundwater sampling will continue in 2015. Based on the results of the PAH analysis over the past several years, TRC will conduct PAH analysis on monitor wells MW-1, MW-2, MW-10, MW-12, and MW-13 which have historically exhibited elevated constituents near or above the WQCC standards.

An Annual Monitoring Report will be submitted to the NMOCD by April 1, 2016.

LIMITATIONS

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

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

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

DISTRIBUTION

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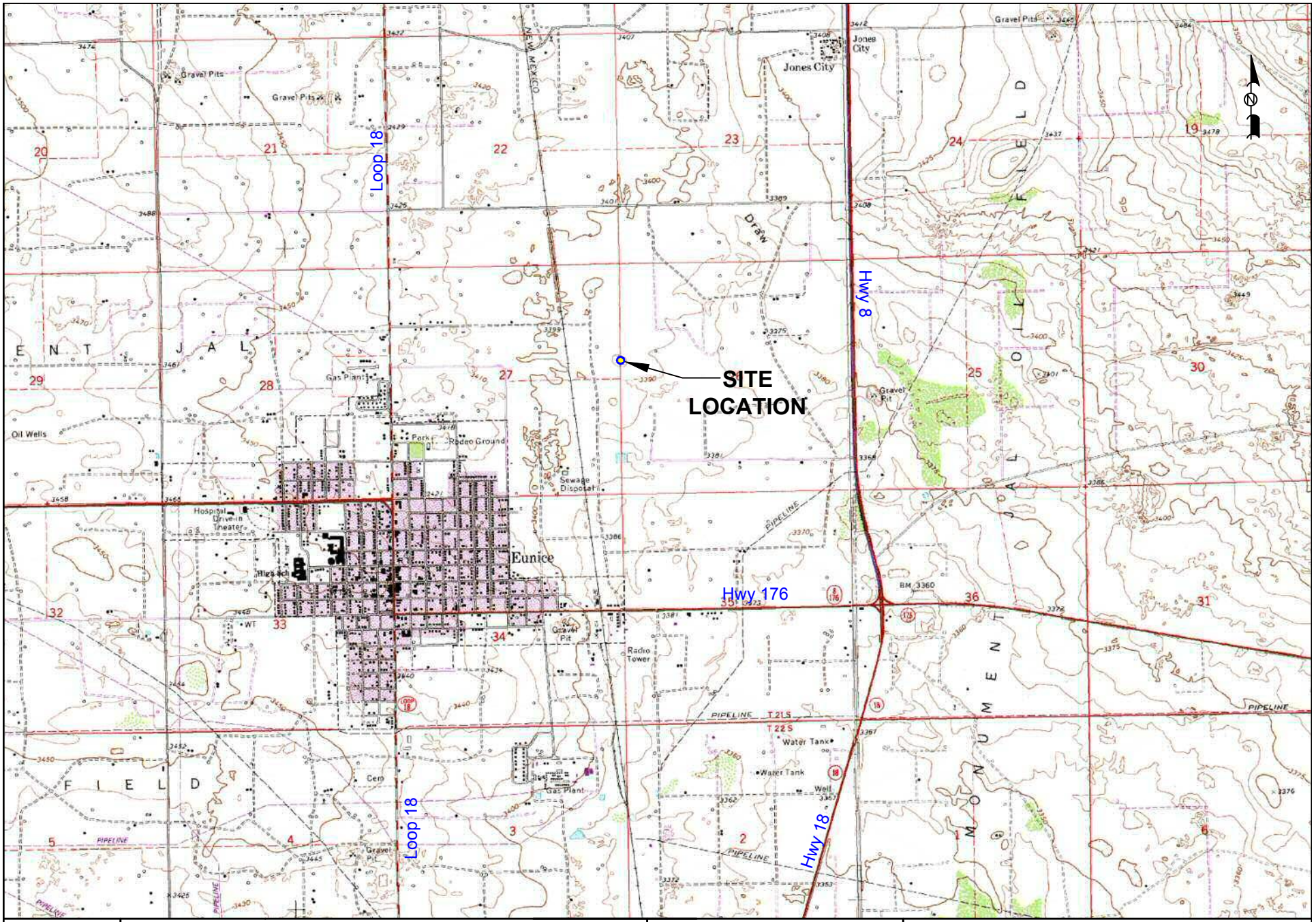
Figures



Legend:

Mapped edited and Published by the Geological Survey Control by USGS & USC & GS
Map Re-edited by Nova Safety and Environmental for the purpose of Site Location Maps.
Fine red dashed lines indicate selected fence lines.
This map Complies with National Map Accuracy Standards

3000 1500 0 1500 3000

Distance in Feet

Figure 1
Site Location Map
TNM 98-05A
Plains Marketing, L.P.
Lea County, NM

NMOCD Reference # AP-12

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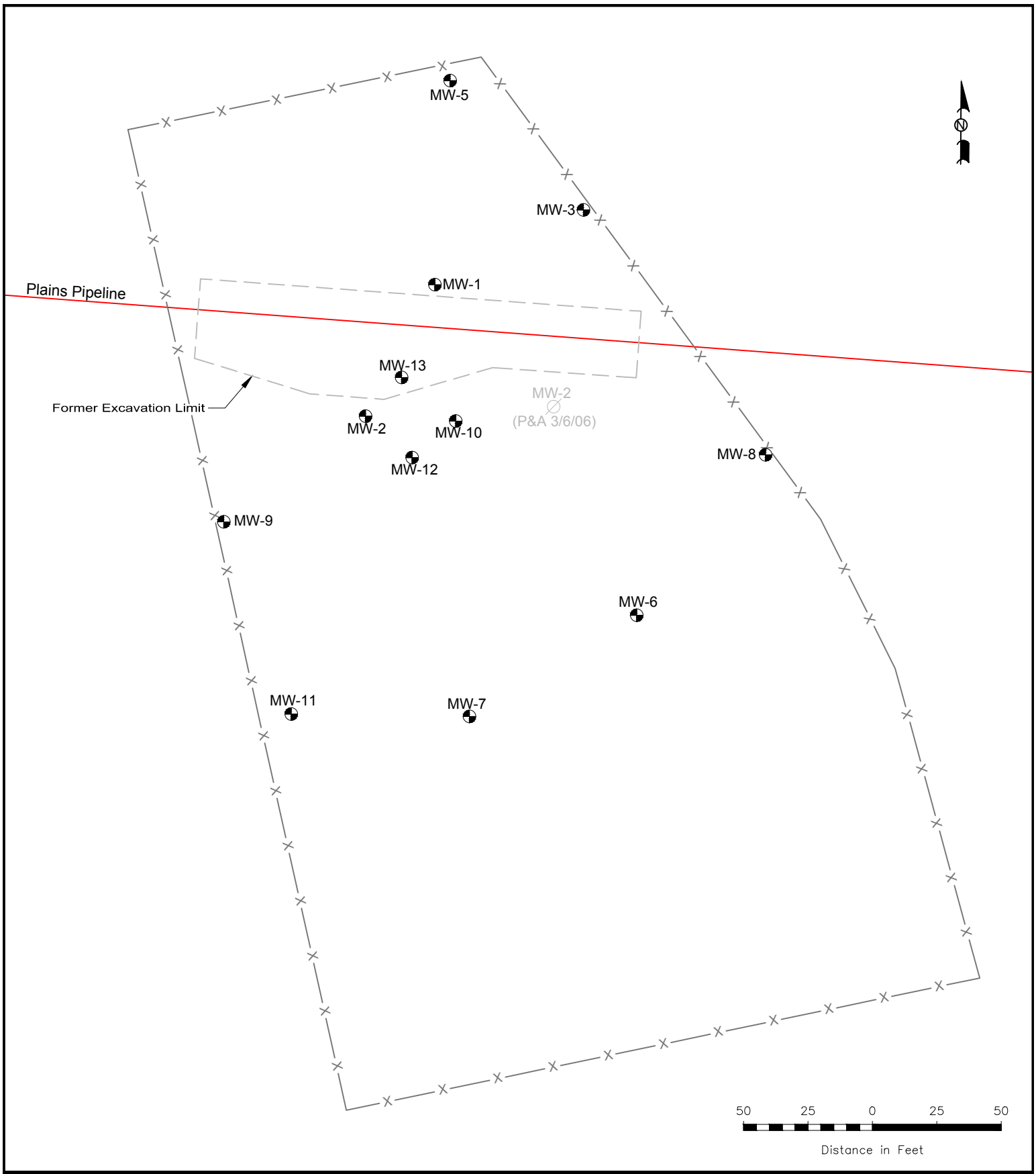

LEGEND:

- Monitor Well Location
- Plugged and Abandoned
- Fence
- Pipeline
- Former Excavation Limits

Figure 2
Site Map
Plains Marketing, L.P.
TNM 98-05A
Lea County, NM
NMOCD Reference # AP-12

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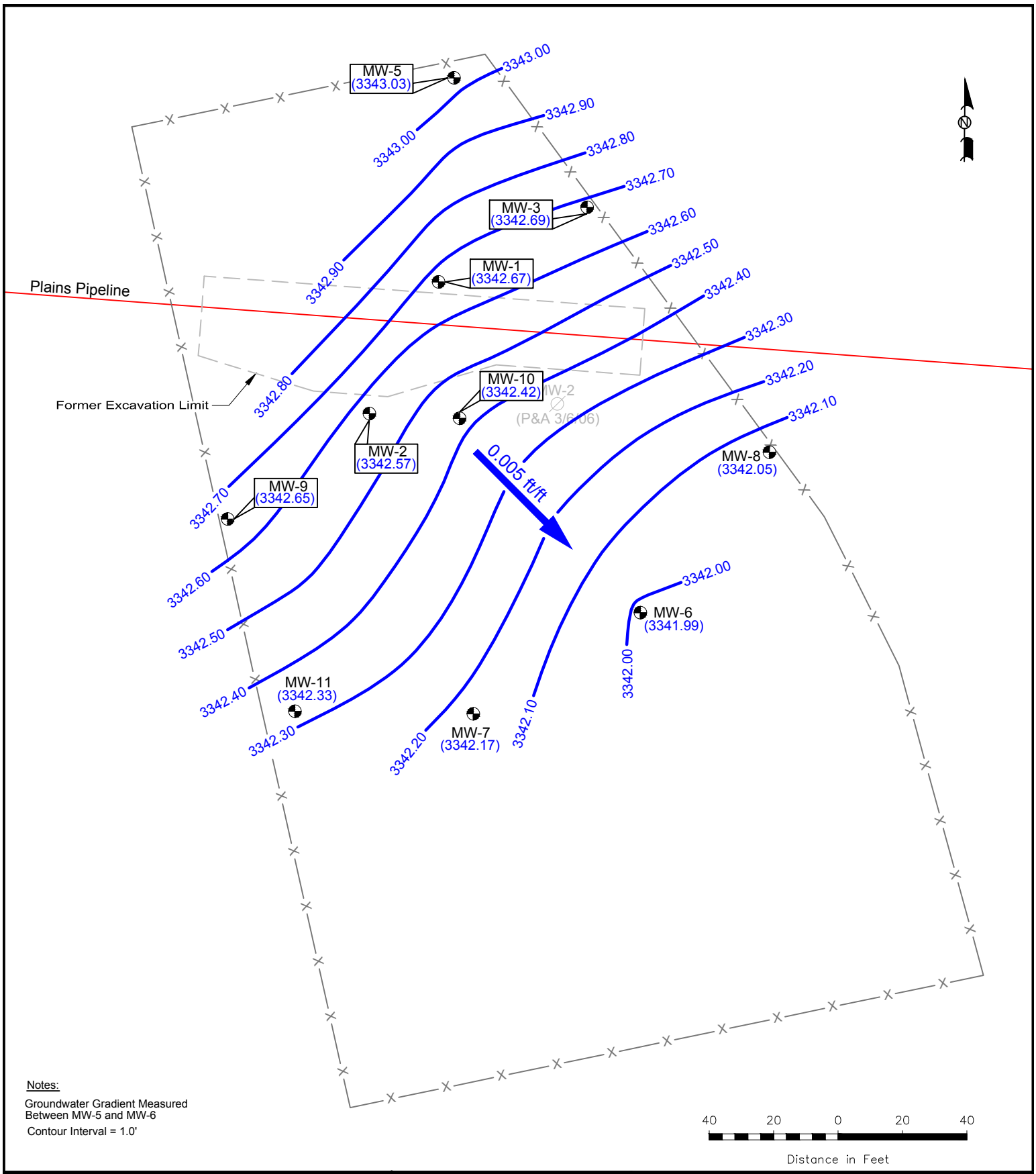

Notes:

Groundwater Gradient Measured Between MW-5 and MW-6

Contour Interval = 1.0'

LEGEND:

- Monitor Well Location
- Plugged and Abandoned
- Proposed Monitor Well Location
- (3728.80) Groundwater Elevation (feet)
- Groundwater Elevation Contour Line
- Fence
- Pipeline
- Former Excavation Limits

Figure 3A
Inferred Groundwater Gradient Map
(3/5/2014)
NMOCD Reference # AP-12
Plains Marketing, L.P.
TNM 98-05A
Lea County, NM

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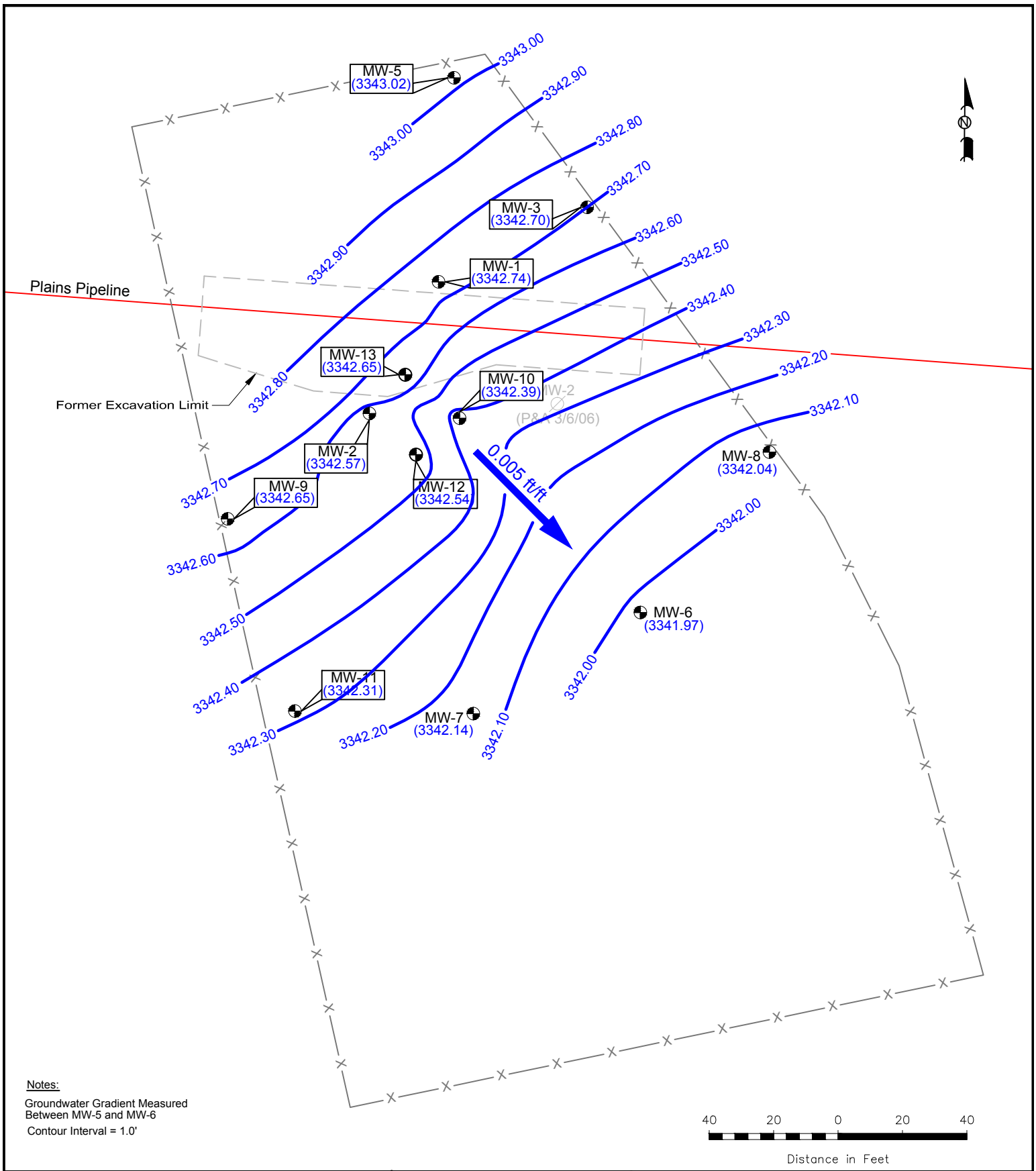

LEGEND:

- Monitor Well Location
- Plugged and Abandoned
- Proposed Monitor Well Location
- (3728.80) Groundwater Elevation (feet)
- Groundwater Elevation Contour Line
- Fence
- Pipeline
- Former Excavation Limits

Figure 3B
Inferred Groundwater Gradient Map
(5/29/2014)
NMOCD Reference # AP-12
Plains Marketing, L.P.
TNM 98-05A
Lea County, NM

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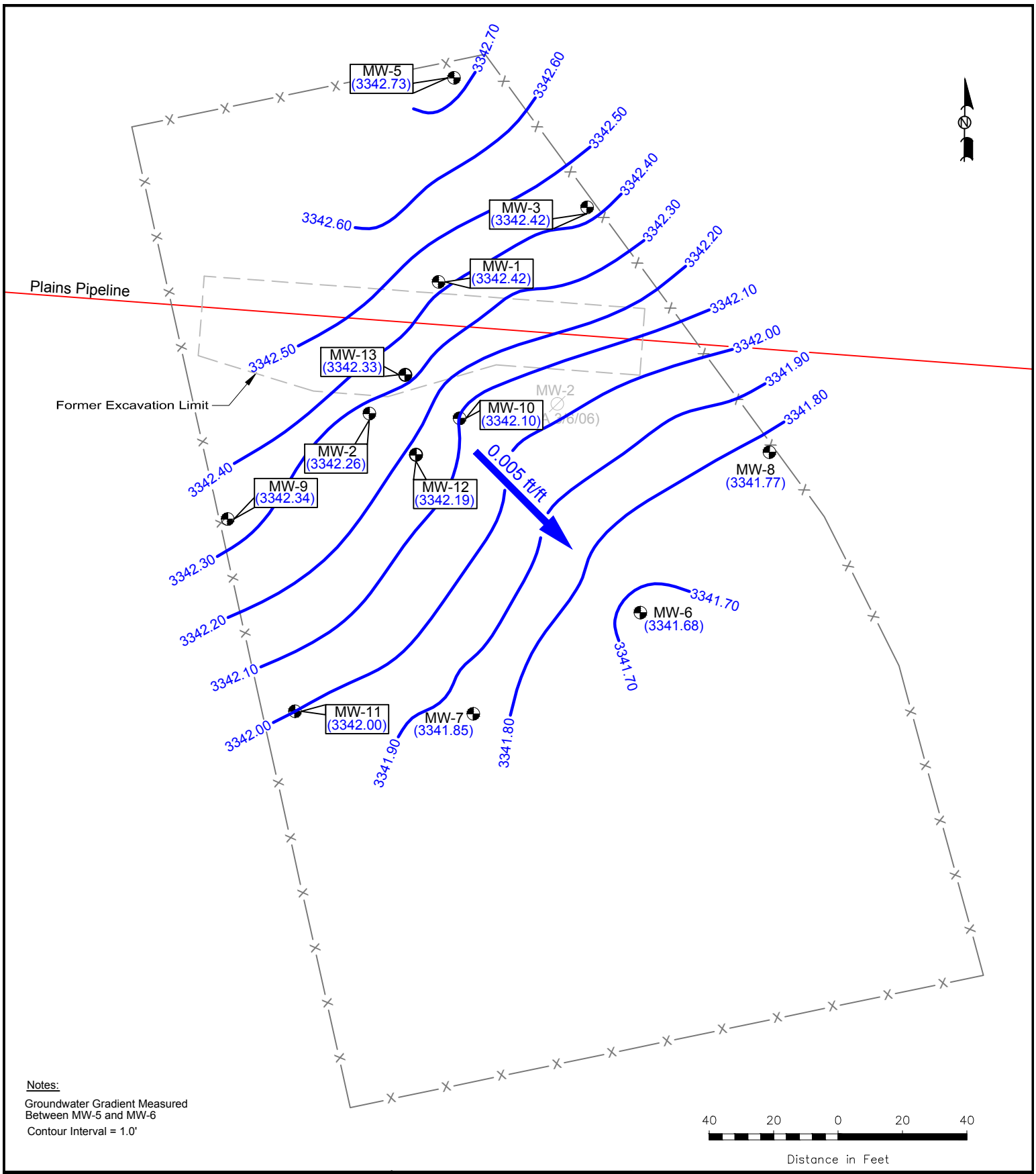

LEGEND:

- Monitor Well Location
- Plugged and Abandoned
- Proposed Monitor Well Location
- (3728.80) Groundwater Elevation (feet)
- Groundwater Elevation Contour Line
- Fence
- Pipeline
- Former Excavation Limits

Figure 3C
Inferred Groundwater Gradient Map
(8/12/2014)
NMOCD Reference # AP-12
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TNM 98-05A
Lea County, NM

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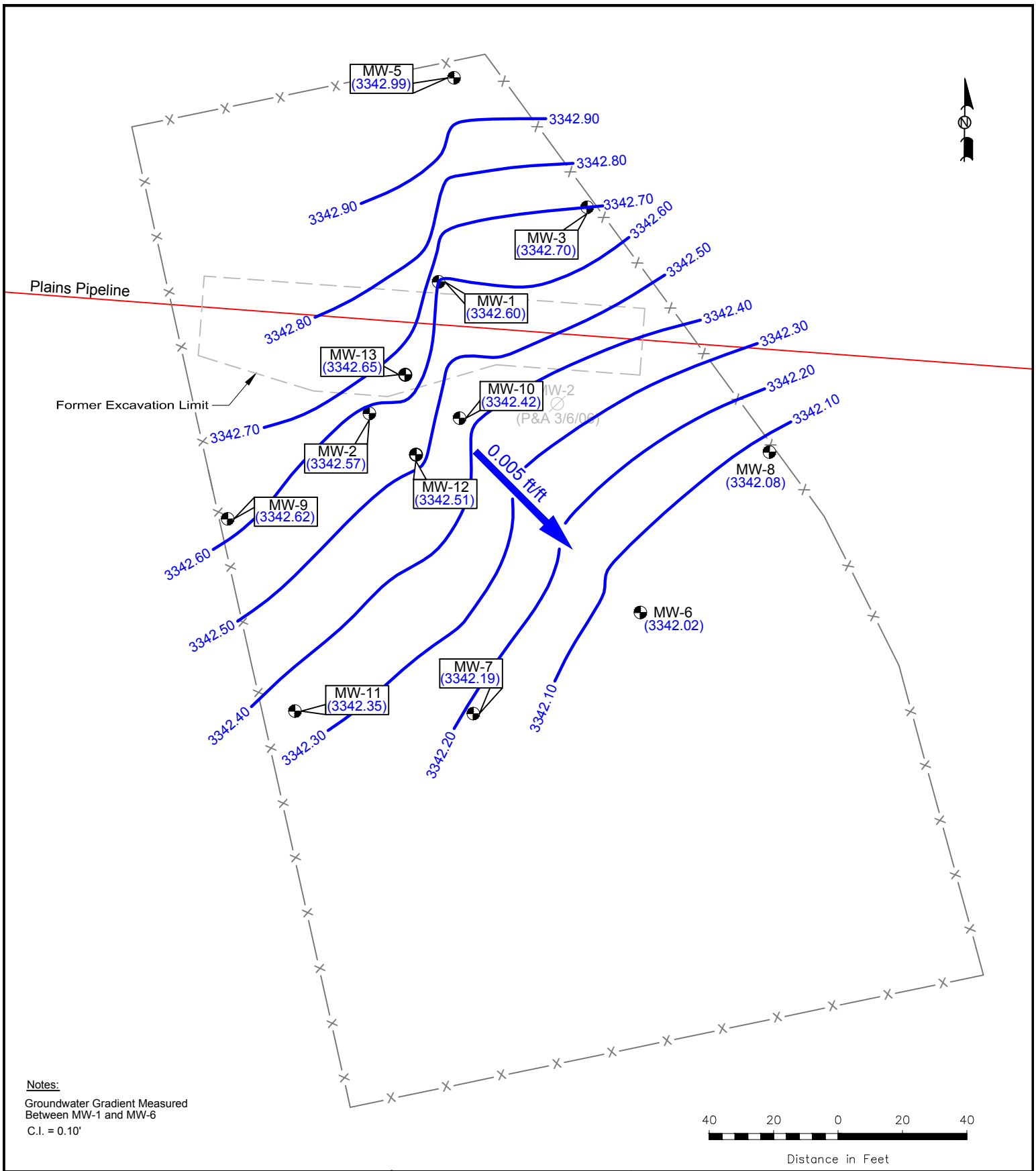

Notes:

Groundwater Gradient Measured Between MW-1 and MW-6

C.I. = 0.10'

LEGEND:

- Monitor Well Location
- Plugged and Abandoned
- Proposed Monitor Well Location
- (3728.80) Groundwater Elevation (feet)
- Groundwater Elevation Contour Line
- Fence
- Pipeline
- Former Excavation Limits

Figure 3D
Inferred Groundwater Gradient Map
(11/15/2014)
NMOCD Reference # AP-12
Plains Marketing, L.P.
TNM 98-05A
Lea County, NM

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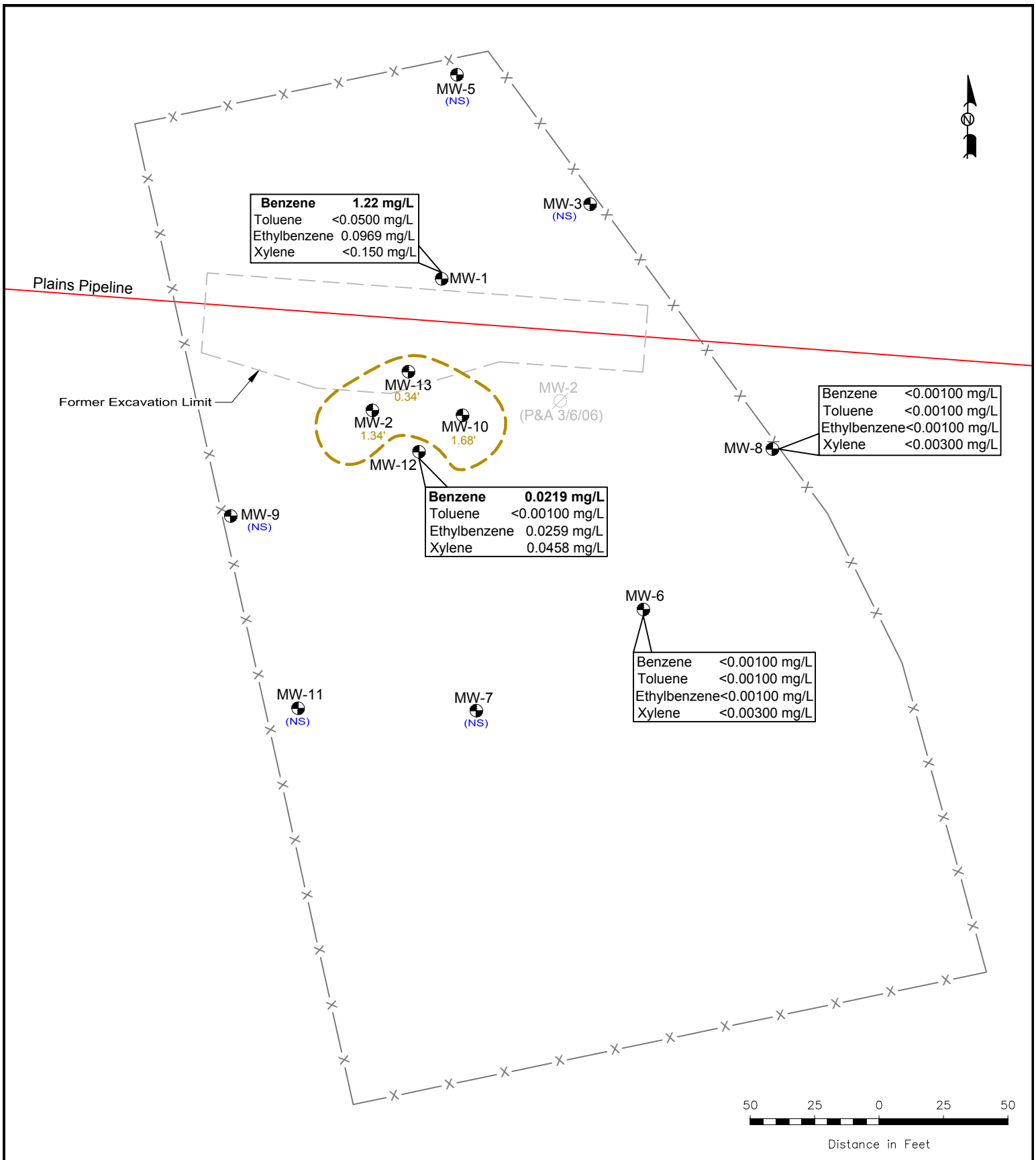

LEGEND:

- Monitor Well Location
- Plugged and Abandoned
- Proposed Monitor Well Location
- Fence
- Pipeline
- Former Excavation Limits
- Inferred PSH Extent

2.42' Thickness of PSH (feet)
(NS) Not Sampled
<0.001 Constituent Concentration (mg/L)

Figure 4A
Groundwater Concentration and Inferred PSH Extent Map
(3/5/2014)
Plains Marketing, L.P.
TNM 98-05A
Lea County, NM
NMOCD Reference # AP-12

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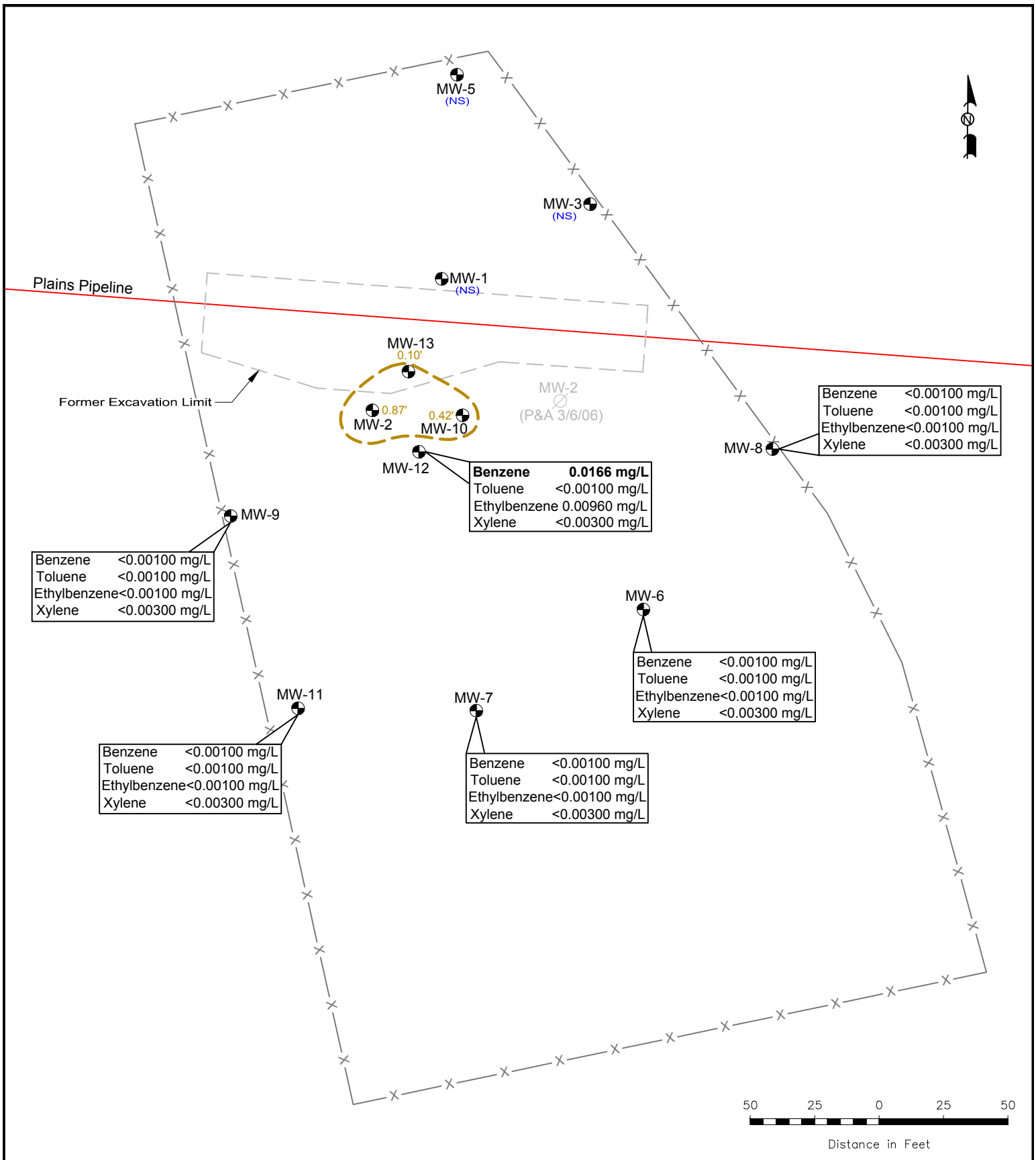

LEGEND:

- Monitor Well Location
- Plugged and Abandoned
- Proposed Monitor Well Location
- Fence
- Pipeline
- Former Excavation Limits
- Inferred PSH Extent

2.42' Thickness of PSH (feet)
(NS) Not Sampled
<0.001 Constituent Concentration (mg/L)

Figure 4B
Groundwater Concentration and Inferred PSH Extent Map
(5/29/2014)
Plains Marketing, L.P.
TNM 98-05A
Lea County, NM
NMOCD Reference # AP-12

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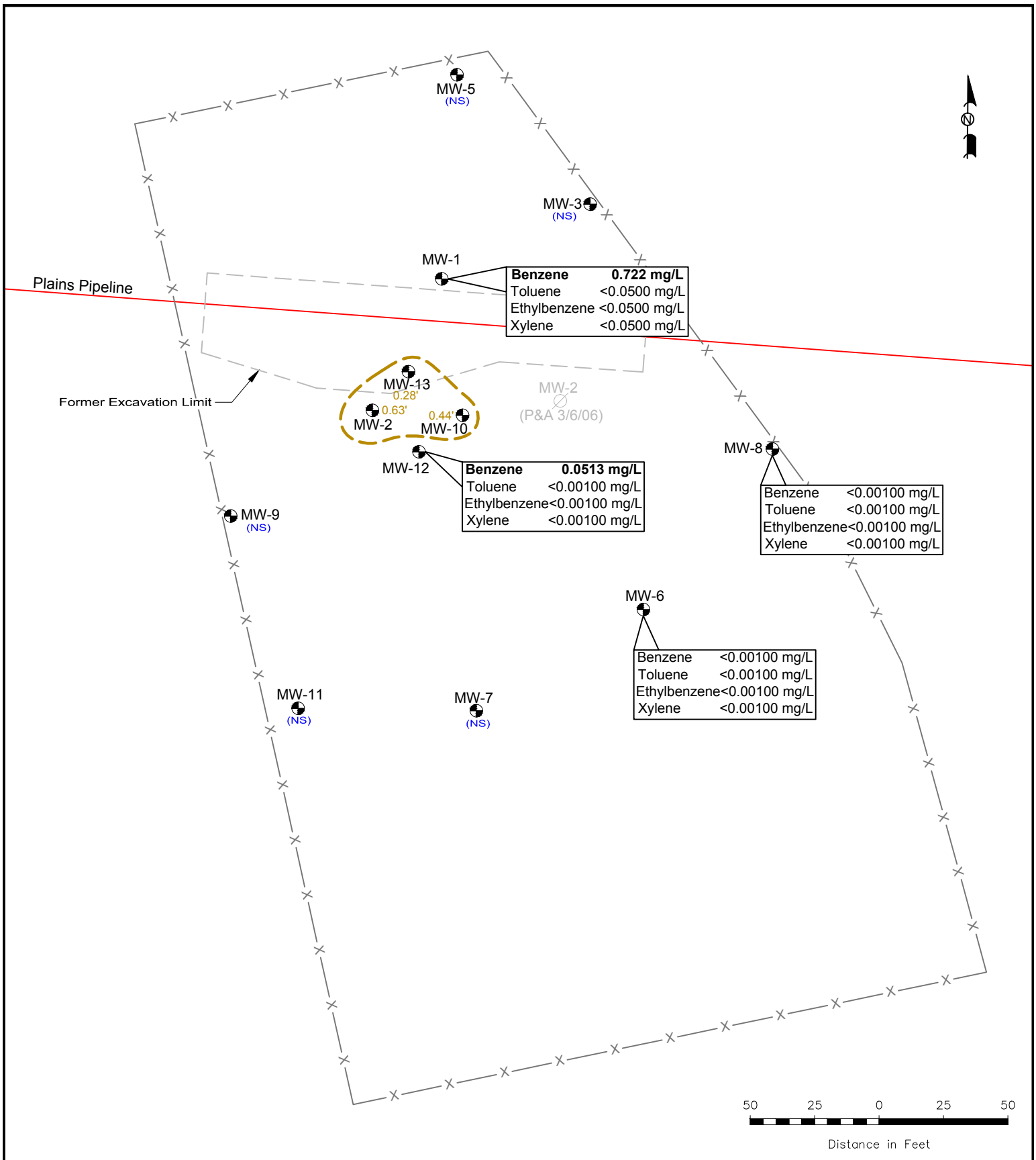

LEGEND:

- Monitor Well Location
- Plugged and Abandoned
- Proposed Monitor Well Location
- Fence
- Pipeline
- Former Excavation Limits
- Inferred PSH Extent

2.42' Thickness of PSH (feet)
(NS) Not Sampled
<0.001 Constituent Concentration (mg/L)

Figure 4C
Groundwater Concentration and Inferred PSH Extent Map
(8/12/2014 - 8/13/2014)
Plains Marketing, L.P.
TNM 98-05A
Lea County, NM
NMOCD Reference # AP-12

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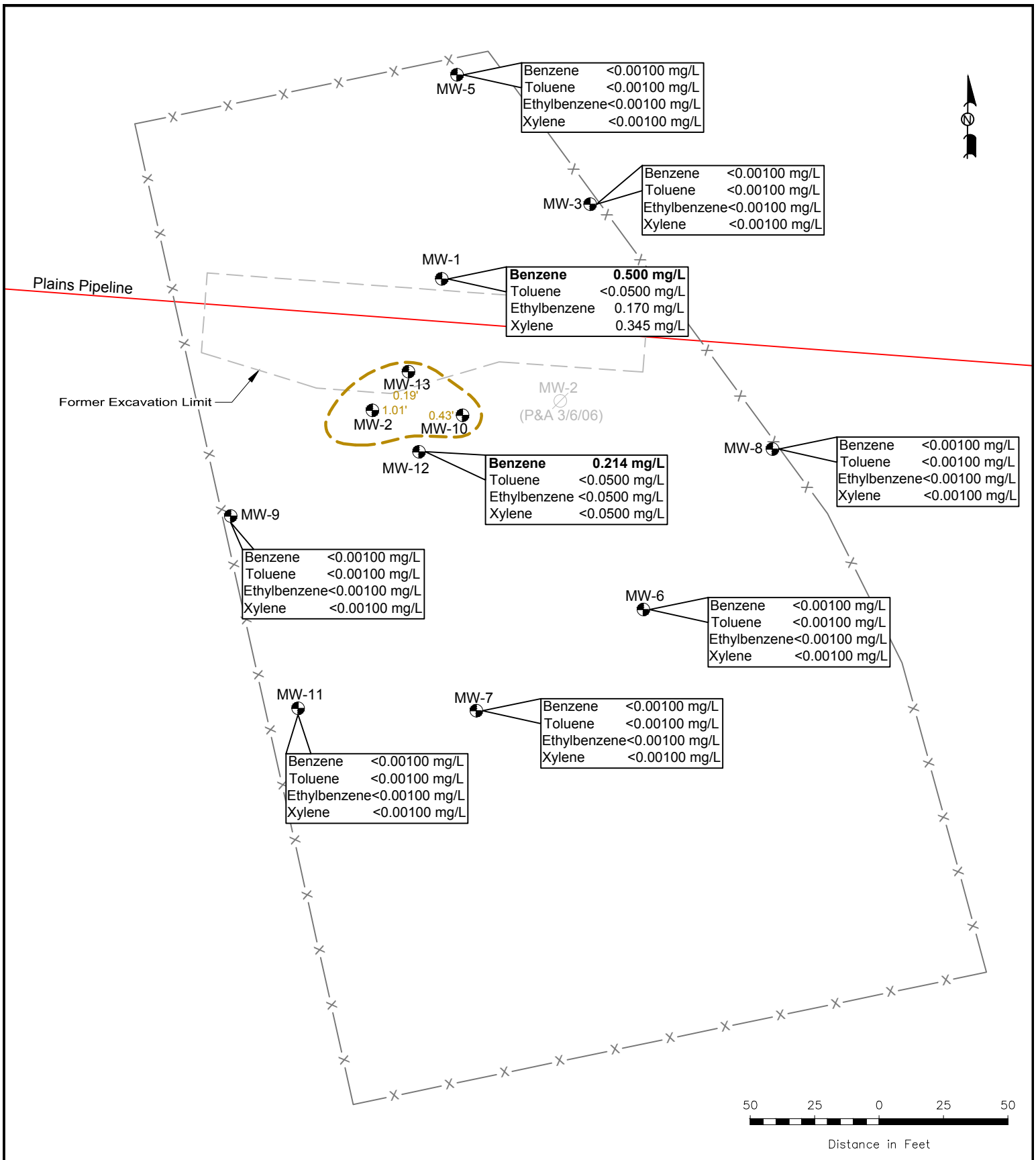

LEGEND:

- Monitor Well Location
- Plugged and Abandoned
- Proposed Monitor Well Location
- Fence
- Pipeline
- Former Excavation Limits
- Inferred PSH Extent

2.42' Thickness of PSH (feet)
(NS) Not Sampled
<0.001 Constituent Concentration (mg/L)

Figure 4D
Groundwater Concentration and Inferred PSH Extent Map
(11/15/2014)
Plains Marketing, L.P.
TNM 98-05A
Lea County, NM
NMOCD Reference # AP-12

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December 17, 2014	Scale: 1" = 40'	CAD By: TA	Checked By: CS
Lat. N 32° 27' 03.9" Long. W 103° 08' 29.2"			

Tables

TABLE 1

2014 GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	01/01/14	3391.62	-	48.85	0.00	3,342.77
MW - 1	01/16/14	3391.62	-	48.83	0.00	3,342.79
MW - 1	01/23/14	3391.62	-	48.93	0.00	3,342.69
MW - 1	01/28/14	3391.62	-	48.99	0.00	3,342.63
MW - 1	02/11/14	3391.62	-	48.98	0.00	3,342.64
MW - 1	*03/05/14*	3391.62	-	48.95	0.00	3,342.67
MW - 1	03/13/14	3391.62	-	48.95	0.00	3,342.67
MW - 1	03/29/14	3391.62	-	48.86	0.00	3,342.76
MW - 1	04/08/14	3391.62	-	48.94	0.00	3,342.68
MW - 1	04/17/14	3391.62	-	48.85	0.00	3,342.77
MW - 1	05/01/14	3391.62	-	48.77	0.00	3,342.85
MW - 1	05/08/14	3391.62	-	48.75	0.00	3,342.87
MW - 1	05/14/14	3391.62	-	48.77	0.00	3,342.85
MW - 1	05/23/14	3391.62	-	48.89	0.00	3,342.73
MW - 1	05/27/14	3391.62	-	48.90	0.00	3,342.72
MW - 1	*05/29/14*	3391.62	-	48.88	0.00	3,342.74
MW - 1	06/05/14	3391.62	-	48.90	0.00	3,342.72
MW - 1	06/11/14	3391.62	-	48.95	0.00	3,342.67
MW - 1	06/18/14	3391.62	-	48.93	0.00	3,342.69
MW - 1	06/26/14	3391.62	-	48.98	0.00	3,342.64
MW - 1	07/01/14	3391.62	-	49.42	0.00	3,342.20
MW - 1	07/10/14	3391.62	-	49.03	0.00	3,342.59
MW - 1	07/17/14	3391.62	-	49.13	0.00	3,342.49
MW - 1	07/23/14	3391.62	-	49.20	0.00	3,342.42
MW - 1	07/31/14	3391.62	-	49.19	0.00	3,342.43
MW - 1	08/06/14	3391.62	-	49.12	0.00	3,342.50
MW - 1	*08/12/14*	3391.62	-	49.20	0.00	3,342.42
MW - 1	08/21/14	3391.62	-	49.22	0.00	3,342.40
MW - 1	09/04/14	3391.62	-	49.18	0.00	3,342.44
MW - 1	10/02/14	3391.62	-	49.20	0.00	3,342.42
MW - 1	10/08/14	3391.62	-	49.17	0.00	3,342.45
MW - 1	10/14/14	3391.62	-	49.15	0.00	3,342.47
MW - 1	10/23/14	3391.62	-	49.03	0.00	3,342.59
MW - 1	10/28/14	3391.62	-	49.11	0.00	3,342.51
MW - 1	11/07/14	3391.62	-	49.02	0.00	3,342.60
MW - 1	11/14/14	3391.62	-	48.91	0.00	3,342.71
MW - 1	*11/15/14*	3391.62	-	49.02	0.00	3,342.60
MW - 1	12/04/14	3391.62	-	48.96	0.00	3,342.66
MW - 1	12/11/14	3391.62	-	48.96	0.00	3,342.66
MW - 1	12/18/11	3391.62	-	48.91	0.00	3,342.71
MW - 1	12/23/14	3391.62	-	48.95	0.00	3,342.67
MW - 2	01/01/14	3390.85	47.95	49.05	1.10	3,342.74
MW - 2	01/16/14	3390.85	48.28	49.02	0.74	3,342.46
MW - 2	01/23/14	3390.85	48.10	49.50	1.40	3,342.54
MW - 2	01/28/14	3390.85	48.15	49.32	1.17	3,342.52
MW - 2	02/11/14	3390.85	48.10	49.25	1.15	3,342.58

TABLE 1

2014 GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	*03/05/14*	3390.85	48.08	49.42	1.34	3,342.57
MW - 2	03/13/14	3390.85	48.06	49.35	1.29	3,342.60
MW - 2	03/29/14	3390.85	48.01	49.30	1.29	3,342.65
MW - 2	04/08/14	3390.85	48.08	49.40	1.32	3,342.57
MW - 2	04/17/14	3390.85	48.08	49.37	1.29	3,342.58
MW - 2	04/25/14	3390.85	48.00	49.12	1.12	3,342.68
MW - 2	05/01/14	3390.85	48.02	49.10	1.08	3,342.67
MW - 2	05/08/14	3390.85	48.00	48.99	0.99	3,342.70
MW - 2	05/14/14	3390.85	48.00	48.95	0.95	3,342.71
MW - 2	05/23/14	3390.85	48.06	49.23	1.17	3,342.61
MW - 2	05/27/14	3390.85	48.06	49.09	1.03	3,342.64
MW - 2	*05/29/14*	3390.85	48.15	49.02	0.87	3,342.57
MW - 2	06/05/14	3390.85	48.09	49.25	1.16	3,342.59
MW - 2	06/11/14	3390.85	48.12	49.28	1.16	3,342.56
MW - 2	06/18/14	3390.85	48.14	49.35	1.21	3,342.53
MW - 2	06/26/14	3390.85	48.14	49.48	1.34	3,342.51
MW - 2	07/01/14	3390.85	48.25	49.43	1.18	3,342.42
MW - 2	07/10/14	3390.85	48.24	49.73	1.49	3,342.39
MW - 2	07/17/14	3390.85	48.24	49.85	1.61	3,342.37
MW - 2	07/23/14	3390.85	48.38	49.55	1.17	3,342.29
MW - 2	07/31/14	3390.85	48.40	49.36	0.96	3,342.31
MW - 2	08/06/14	3390.85	48.45	49.03	0.58	3,342.31
MW - 2	*08/12/14*	3390.85	48.50	49.13	0.63	3,342.26
MW - 2	08/21/14	3390.85	49.05	49.68	0.63	3,341.71
MW - 2	09/04/14	3390.85	48.57	49.43	0.86	3,342.15
MW - 2	10/02/14	3390.85	48.29	49.70	1.41	3,342.35
MW - 2	10/08/14	3390.85	48.29	49.31	1.02	3,342.41
MW - 2	10/14/14	3390.85	48.29	49.34	1.05	3,342.40
MW - 2	10/17/14	3390.85	48.34	49.19	0.85	3,342.38
MW - 2	10/23/14	3390.85	48.25	49.32	1.07	3,342.44
MW - 2	10/24/14	3390.85	48.25	49.32	1.07	3,342.44
MW - 2	10/28/14	3390.85	48.27	49.17	0.90	3,342.45
MW - 2	11/07/14	3390.85	48.15	49.27	1.12	3,342.53
MW - 2	11/14/14	3390.85	48.17	49.24	1.07	3,342.52
MW - 2	*11/15/14*	3390.85	48.13	49.14	1.01	3,342.57
MW - 2	12/04/14	3390.85	48.14	49.21	1.07	3,342.55
MW - 2	12/11/14	3390.85	48.12	49.19	1.07	3,342.57
MW - 2	12/18/14	3390.85	48.00	49.02	1.02	3,342.70
MW - 2	12/23/14	3390.85	48.11	49.17	1.06	3,342.58
MW - 3	*03/05/14*	3391.08	-	48.39	0.00	3,342.69
MW - 3	*05/29/14*	3391.08	-	48.38	0.00	3,342.70
MW - 3	07/23/14	3391.08	-	48.65	0.00	3,342.43
MW - 3	*08/12/14*	3391.08	-	48.66	0.00	3,342.42
MW - 3	10/28/14	3391.08	-	48.49	0.00	3,342.59
MW - 3	*11/15/14*	3391.08	-	48.38	0.00	3,342.70

TABLE 1

2014 GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	*03/05/14*	3391.53	-	48.50	0.00	3,343.03
MW - 5	*05/29/14*	3391.53	-	48.51	0.00	3,343.02
MW - 5	07/23/14	3391.53	-	48.76	0.00	3,342.77
MW - 5	*08/12/14*	3391.53	-	48.80	0.00	3,342.73
MW - 5	10/28/14	3391.53	-	48.67	0.00	3,342.86
MW - 5	*11/15/14*	3391.53	-	48.54	0.00	3,342.99
MW - 6	*03/05/14*	3391.14	-	49.15	0.00	3,341.99
MW - 6	*05/29/14*	3391.14	-	49.17	0.00	3,341.97
MW - 6	07/23/14	3391.14	-	49.43	0.00	3,341.71
MW - 6	*08/12/14*	3391.14	-	49.46	0.00	3,341.68
MW - 6	10/28/14	3391.14	-	49.24	0.00	3,341.90
MW - 6	*11/15/14*	3391.14	-	49.12	0.00	3,342.02
MW - 7	*03/05/14*	3391.21	-	49.04	0.00	3,342.17
MW - 7	*05/29/14*	3391.21	-	49.07	0.00	3,342.14
MW - 7	07/23/14	3391.21	-	49.32	0.00	3,341.89
MW - 7	*08/12/14*	3391.21	-	49.36	0.00	3,341.85
MW - 7	10/28/14	3391.21	-	49.14	0.00	3,342.07
MW - 7	*11/15/14*	3391.21	-	49.02	0.00	3,342.19
MW - 8	*03/05/14*	3391.14	-	49.09	0.00	3,342.05
MW - 8	*05/29/14*	3391.14	-	49.10	0.00	3,342.04
MW - 8	07/23/14	3391.14	-	49.36	0.00	3,341.78
MW - 8	*08/12/14*	3391.14	-	49.37	0.00	3,341.77
MW - 8	10/28/14	3391.14	-	49.17	0.00	3,341.97
MW - 8	*11/15/14*	3391.14	-	49.06	0.00	3,342.08
MW - 9	01/01/14	3391.47	-	48.70	0.00	3,342.77
MW - 9	01/16/14	3391.47	-	48.75	0.00	3,342.72
MW - 9	01/23/14	3391.47	-	48.88	0.00	3,342.59
MW - 9	01/28/14	3391.47	-	48.90	0.00	3,342.57
MW - 9	02/11/14	3391.47	-	48.86	0.00	3,342.61
MW - 9	*03/05/14*	3391.47	-	48.82	0.00	3,342.65
MW - 9	03/13/14	3391.47	-	48.84	0.00	3,342.63
MW - 9	03/29/14	3391.47	-	48.79	0.00	3,342.68
MW - 9	04/08/14	3391.47	-	48.85	0.00	3,342.62
MW - 9	04/17/14	3391.47	-	48.81	0.00	3,342.66
MW - 9	04/25/14	3391.47	-	48.73	0.00	3,342.74
MW - 9	05/08/14	3391.47	-	48.72	0.00	3,342.75
MW - 9	05/14/14	3391.47	-	48.70	0.00	3,342.77
MW - 9	05/27/14	3391.47	-	48.81	0.00	3,342.66
MW - 9	*05/29/14*	3391.47	-	48.82	0.00	3,342.65
MW - 9	06/18/14	3391.47	-	48.77	0.00	3,342.70
MW - 9	07/23/14	3391.47	-	49.10	0.00	3,342.37
MW - 9	*08/12/14*	3391.47	-	49.13	0.00	3,342.34
MW - 9	10/28/14	3391.47	-	48.97	0.00	3,342.50

TABLE 1

2014 GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	*11/15/14*	3391.47	-	48.85	0.00	3,342.62
MW - 10	01/01/14	3391.26	48.43	49.91	1.48	3,342.61
MW - 10	01/16/14	3391.26	48.48	50.32	1.84	3,342.50
MW - 10	01/23/14	3391.26	48.48	50.52	2.04	3,342.47
MW - 10	01/28/14	3391.26	48.65	50.13	1.48	3,342.39
MW - 10	02/11/14	3391.26	48.67	49.72	1.05	3,342.43
MW - 10	*03/05/14*	3391.26	48.59	50.27	1.68	3,342.42
MW - 10	03/13/14	3391.26	48.55	50.35	1.80	3,342.44
MW - 10	03/29/14	3391.26	48.57	49.99	1.42	3,342.48
MW - 10	04/08/14	3391.26	48.67	49.89	1.22	3,342.41
MW - 10	04/17/14	3391.26	48.68	49.85	1.17	3,342.40
MW - 10	04/25/14	3391.26	48.60	49.49	0.89	3,342.53
MW - 10	05/01/14	3391.26	48.66	49.30	0.64	3,342.50
MW - 10	05/08/14	3391.26	48.62	49.37	0.75	3,342.53
MW - 10	05/14/14	3391.26	48.63	49.35	0.72	3,342.52
MW - 10	05/23/14	3391.26	48.70	49.48	0.78	3,342.44
MW - 10	05/27/14	3391.26	48.80	49.23	0.43	3,342.40
MW - 10	*05/29/14*	3391.26	48.81	49.23	0.42	3,342.39
MW - 10	06/05/14	3391.26	48.74	49.36	0.62	3,342.43
MW - 10	06/11/14	3391.26	48.79	49.36	0.57	3,342.38
MW - 10	06/18/14	3391.26	48.78	49.45	0.67	3,342.38
MW - 10	06/26/14	3391.26	48.81	49.38	0.57	3,342.36
MW - 10	07/10/14	3391.26	48.93	49.63	0.70	3,342.23
MW - 10	07/17/14	3391.26	48.91	49.75	0.84	3,342.22
MW - 10	07/23/14	3391.26	49.07	49.65	0.58	3,342.10
MW - 10	07/31/14	3391.26	49.02	49.65	0.63	3,342.15
MW - 10	08/06/14	3391.26	49.02	49.49	0.47	3,342.17
MW - 10	*08/12/14*	3391.26	49.09	49.53	0.44	3,342.10
MW - 10	08/21/14	3391.26	49.05	49.68	0.63	3,342.12
MW - 10	09/04/14	3391.26	49.08	49.78	0.70	3,342.08
MW - 10	10/02/14	3391.26	48.94	49.78	0.84	3,342.19
MW - 10	10/08/14	3391.26	48.91	49.46	0.55	3,342.27
MW - 10	10/14/14	3391.26	48.93	49.43	0.50	3,342.26
MW - 10	10/17/14	3391.26	48.97	49.42	0.45	3,342.22
MW - 10	10/23/14	3391.26	48.91	49.40	0.49	3,342.28
MW - 10	10/24/14	3391.26	48.91	49.40	0.49	3,342.28
MW - 10	10/28/14	3391.26	48.90	49.27	0.37	3,342.30
MW - 10	11/07/14	3391.26	48.81	49.26	0.45	3,342.38
MW - 10	11/14/14	3391.26	48.83	49.23	0.40	3,342.37
MW - 10	*11/15/14*	3391.26	48.78	49.21	0.43	3,342.42
MW - 10	12/04/14	3391.26	48.14	49.22	1.08	3,342.96
MW - 10	12/11/14	3391.26	48.85	49.21	0.36	3,342.36
MW - 10	12/18/14	3391.26	48.59	49.44	0.85	3,342.54
MW - 10	12/23/14	3391.26	48.86	49.19	0.33	3,342.35
MW - 11	*03/05/14*	3390.73	-	48.40	0.00	3,342.33

TABLE 1

2014 GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 11	*05/29/14*	3390.73	-	48.42	0.00	3,342.31
MW - 11	07/23/14	3390.73	-	48.68	0.00	3,342.05
MW - 11	*08/12/14*	3390.73	-	48.73	0.00	3,342.00
MW - 11	10/28/14	3390.73	-	48.51	0.00	3,342.22
MW - 11	*11/15/14*	3390.73	-	48.38	0.00	3,342.35
MW - 12	*03/05/14*	3391.57	-	49.06	0.00	3,342.51
MW - 12	04/17/14	3391.57	-	49.06	0.00	3,342.51
MW - 12	04/25/14	3391.57	-	48.97	0.00	3,342.60
MW - 12	05/01/14	3391.57	-	48.98	0.00	3,342.59
MW - 12	05/08/14	3391.57	-	48.97	0.00	3,342.60
MW - 12	05/14/14	3391.57	-	48.96	0.00	3,342.61
MW - 12	05/23/14	3391.57	-	49.09	0.00	3,342.48
MW - 12	05/27/14	3391.57	-	49.04	0.00	3,342.53
MW - 12	*05/29/14*	3391.57	-	49.03	0.00	3,342.54
MW - 12	06/05/14	3391.57	-	49.08	0.00	3,342.49
MW - 12	06/11/14	3391.57	-	49.09	0.00	3,342.48
MW - 12	06/18/14	3391.57	-	49.02	0.00	3,342.55
MW - 12	06/26/14	3391.57	-	49.16	0.00	3,342.41
MW - 12	07/01/14	3391.57	-	49.23	0.00	3,342.34
MW - 12	07/10/14	3391.57	-	49.28	0.00	3,342.29
MW - 12	07/17/14	3391.57	-	49.29	0.00	3,342.28
MW - 12	07/23/14	3391.57	-	49.32	0.00	3,342.25
MW - 12	07/31/14	3391.57	-	49.38	0.00	3,342.19
MW - 12	08/06/14	3391.57	-	49.34	0.00	3,342.23
MW - 12	*08/12/14*	3391.57	-	49.38	0.00	3,342.19
MW - 12	08/21/14	3391.57	-	49.38	0.00	3,342.19
MW - 12	09/04/14	3391.57	-	49.39	0.00	3,342.18
MW - 12	10/02/14	3391.57	-	49.31	0.00	3,342.26
MW - 12	10/08/14	3391.57	-	49.23	0.00	3,342.34
MW - 12	10/14/14	3391.57	-	49.25	0.00	3,342.32
MW - 12	10/17/14	3391.57	-	49.22	0.00	3,342.35
MW - 12	10/23/14	3391.57	-	49.20	0.00	3,342.37
MW - 12	10/28/14	3391.57	-	49.17	0.00	3,342.40
MW - 12	11/07/14	3391.57	-	49.04	0.00	3,342.53
MW - 12	11/14/14	3391.57	-	49.10	0.00	3,342.47
MW - 12	*11/15/14*	3391.57	-	49.06	0.00	3,342.51
MW - 12	12/04/14	3391.57	-	48.97	0.00	3,342.60
MW - 12	12/11/14	3391.57	-	48.95	0.00	3,342.62
MW - 12	12/18/14	3391.57	-	48.95	0.00	3,342.62
MW - 12	12/23/14	3391.57	-	48.93	0.00	3,342.64
MW - 13	*03/05/14*	3391.89	49.21	49.55	0.34	3,342.63
MW - 13	03/13/14	3391.89	49.14	49.69	0.55	3,342.67
MW - 13	03/29/14	3391.89	49.10	49.72	0.62	3,342.70
MW - 13	04/08/14	3391.89	49.16	49.87	0.71	3,342.62
MW - 13	04/17/14	3391.89	49.13	49.94	0.81	3,342.64

TABLE 1

2014 GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 13	04/25/14	3391.89	49.01	49.85	0.84	3,342.75
MW - 13	05/01/14	3391.89	49.17	49.33	0.16	3,342.70
MW - 13	05/08/14	3391.89	49.11	49.25	0.14	3,342.76
MW - 13	05/14/14	3391.89	49.07	49.29	0.22	3,342.79
MW - 13	05/23/14	3391.89	49.19	49.39	0.20	3,342.67
MW - 13	05/27/14	3391.89	49.20	49.25	0.05	3,342.68
MW - 13	*05/29/14*	3391.89	49.23	49.33	0.10	3,342.65
MW - 13	06/05/14	3391.89	49.20	49.46	0.26	3,342.65
MW - 13	06/11/14	3391.89	49.22	49.54	0.32	3,342.62
MW - 13	06/18/14	3391.89	49.20	49.65	0.45	3,342.62
MW - 13	06/26/14	3391.89	49.22	49.82	0.60	3,342.58
MW - 13	07/01/14	3391.89	49.38	49.60	0.22	3,342.48
MW - 13	07/10/14	3391.89	49.36	49.75	0.39	3,342.47
MW - 13	07/17/14	3391.89	49.35	49.91	0.56	3,342.46
MW - 13	07/23/14	3391.89	49.50	49.75	0.25	3,342.35
MW - 13	07/31/14	3391.89	49.48	49.85	0.37	3,342.35
MW - 13	08/06/14	3391.89	49.47	49.73	0.26	3,342.38
MW - 13	*08/12/14*	3391.89	49.52	49.80	0.28	3,342.33
MW - 13	08/21/14	3391.89	49.50	49.94	0.44	3,342.32
MW - 13	09/04/14	3391.89	48.49	50.08	1.59	3,343.16
MW - 13	10/02/14	3391.89	49.39	49.98	0.59	3,342.41
MW - 13	10/08/14	3391.89	49.40	49.49	0.09	3,342.48
MW - 13	10/14/14	3391.89	49.42	49.48	0.06	3,342.46
MW - 13	10/17/14	3391.89	49.43	49.49	0.06	3,342.45
MW - 13	10/23/14	3391.89	49.37	49.53	0.16	3,342.50
MW - 13	10/24/14	3391.89	49.37	49.53	0.16	3,342.50
MW - 13	10/28/14	3391.89	49.36	49.44	0.08	3,342.52
MW - 13	11/07/14	3391.89	49.26	49.60	0.34	3,342.58
MW - 13	11/14/14	3391.89	49.30	49.44	0.14	3,342.57
MW - 13	*11/15/14*	3391.89	49.21	49.40	0.19	3,342.65
MW - 13	12/04/14	3391.89	49.28	49.42	0.14	3,342.59
MW - 13	12/11/14	3391.89	49.31	49.42	0.11	3,342.56
MW - 13	12/18/14	3391.89	48.99	49.86	0.87	3,342.77
MW - 13	12/23/14	3391.89	49.29	49.40	0.11	3,342.58

TABLE 2

2014 CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 1	03/05/14	**1.22**	<0.0500	0.0969	<0.150	
MW - 1	05/29/14	Not Sampled				
MW - 1	08/13/14	**0.722**	<0.0500	<0.0500	<0.0500	
MW - 1	11/15/14	**0.500**	<0.0500	0.170	0.345	
MW - 2	03/05/14	Not Sampled Due to PSH in Well				
MW - 2	05/29/14	Not Sampled Due to PSH in Well				
MW - 2	08/13/14	Not Sampled Due to PSH in Well				
MW - 2	11/15/14	Not Sampled Due to PSH in Well				
MW - 3	03/05/14	Not Sampled on Current Sample Schedule				
MW - 3	05/29/14	Not Sampled on Current Sample Schedule				
MW - 3	08/13/14	Not Sampled on Current Sample Schedule				
MW - 3	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	03/05/14	Not Sampled on Current Sample Schedule				
MW - 5	05/29/14	Not Sampled on Current Sample Schedule				
MW - 5	08/13/14	Not Sampled on Current Sample Schedule				
MW - 5	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	03/05/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 6	05/29/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 6	08/12/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	03/05/14	Not Sampled on Current Sample Schedule				
MW - 7	05/29/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 7	08/12/14	Not Sampled on Current Sample Schedule				
MW - 7	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	03/05/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 8	05/29/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 8	08/12/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 9	03/05/14	Not Sampled on Current Sample Schedule				
MW - 9	05/29/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 9	08/12/14	Not Sampled on Current Sample Schedule				
MW - 9	11/12/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 10	03/05/14	Not Sampled Due to PSH in Well				
MW - 10	05/29/14	Not Sampled Due to PSH in Well				

TABLE 2

2014 CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 10	08/12/14	Not Sampled Due to PSH in Well				
MW - 10	11/12/14	Not Sampled Due to PSH in Well				
MW - 11	02/10/14	Not Sampled on Current Sample Schedule				
MW - 11	05/29/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 11	08/12/14	Not Sampled on Current Sample Schedule				
MW - 11	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW-12	03/06/14	**0.0219**	<0.00100	0.0259	0.0458	
MW-12	05/29/14	**0.0166**	<0.00100	0.00960	<0.00300	
MW-12	08/12/14	**0.0513**	<0.00100	<0.00100	<0.00100	
MW-12	11/15/14	**0.214**	<0.0500	<0.0500	<0.0500	
MW-13	03/06/14	Not Sampled Due to PSH in Well				
MW-13	05/29/14	Not Sampled Due to PSH in Well				
MW-13	08/12/14	Not Sampled Due to PSH in Well				
MW-13	11/15/14	Not Sampled Due to PSH in Well				

TABLE 3

2014 POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

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

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		--	--	**0.001 mg/L**	**0.0001 mg/L**	**0.0007 mg/L**	**0.001 mg/L**	--	**0.001 mg/L**	**0.0002 mg/L**	**0.0003 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.0004 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.03 mg/L**			--
MW-1	11/15/14	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-2	11/15/14	Not Sampled Due to the Presence of PSH.																		
MW-3	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-10	11/15/14	Not Sampled due to the presence of PSH																		
MW-11	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	03/05/14	<0.00465	<0.00465	**<0.00465**	**<0.00465**	**<0.00465**	**<0.00465**	<0.00465	**<0.00465**	**<0.00465**	**<0.00465**	**<0.00465**	**<0.00465**	**<0.00465**	**<0.00465**	**<0.00465**	**0.00956**	**0.0153**	**0.0105**	<0.00465
	11/15/14	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-13	03/05/14	Not Sampled Due to the Presence of PSH.																		
	11/15/14	Not Sampled Due to the Presence of PSH.																		

Historic Table 1

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	02/03/99	3390.57	46.05	49.70	3.65	3,343.97
MW - 1	05/12/99	3390.57	45.99	49.31	3.32	3,344.08
MW - 1	08/23/99	3390.57	46.15	49.51	3.36	3,343.92
MW - 1	11/29/99	3390.57	45.61	45.84	0.23	3,344.93
MW - 1	03/09/00	3390.57	46.48	47.57	1.09	3,343.93
MW - 1	05/11/00	3390.57	46.13	46.92	0.79	3,344.32
MW - 1	09/12/00	3390.57	46.13	46.74	0.61	3,344.35
MW - 1	12/14/00	3390.57	45.81	46.90	1.09	3,344.60
MW - 1	03/21/01	3390.57	46.48	47.57	1.09	3,343.93
MW - 1	05/30/01	3390.57	46.13	48.40	2.27	3,344.10
MW - 1	09/25/01	3390.57	COULD NOT GAUGE DUE TO EXCAVATION			-
MW - 1	11/17/01	3390.57	COULD NOT GAUGE DUE TO EXCAVATION			-
MW - 1	02/20/02	3390.57	COULD NOT GAUGE DUE TO EXCAVATION			-
MW - 1	05/20/02	3390.57	COULD NOT GAUGE DUE TO EXCAVATION			-
MW - 1	09/24/02	3390.57	COULD NOT GAUGE DUE TO EXCAVATION			-
MW - 1	10/29/02	3390.57	42.37	39.58	-	-
MW - 1	11/06/02	3390.57	39.23	41.26	2.03	3,351.04
MW - 1	11/13/02	3390.57	39.86	41.38	1.52	3,350.48
MW - 1	01/07/03	3390.57	39.74	41.56	1.82	3,350.56
MW - 1	01/13/03	3390.57	39.72	41.55	1.83	3,350.58
MW - 1	01/27/03	3390.57	39.82	41.66	1.84	3,350.47
MW - 1	02/06/03	3390.57	39.89	41.50	1.61	3,350.44
MW - 1	03/11/03	3390.57	39.96	41.34	1.38	3,350.40
MW - 1	05/08/03	3390.57	35.92	37.75	1.83	3,354.38
MW - 1	05/15/03	3390.57	36.08	37.95	1.87	3,354.21
MW - 1	05/20/03	3390.57	36.27	38.18	1.91	3,354.01
MW - 1	05/27/03	3390.57	36.35	38.26	1.91	3,353.93
MW - 1	06/03/03	3390.57	36.30	38.15	1.85	3,353.99
MW - 1	06/10/03	3390.57	36.43	38.34	1.91	3,353.85
MW - 1	06/25/03	3390.57	36.73	37.82	1.09	3,353.68
MW - 1	07/02/03	3390.57	36.97	37.80	0.83	3,353.48
MW - 1	07/07/03	3390.57	36.72	37.91	1.19	3,353.67
MW - 1	07/22/03	3390.57	39.99	40.97	0.98	3,350.43
MW - 1	07/30/03	3390.57	36.45	37.04	0.59	3,354.03
MW - 1	08/06/03	3390.57	36.15	36.80	0.65	3,354.32
MW - 1	08/13/03	3390.57	36.72	36.85	0.13	3,353.83
MW - 1	08/19/03	3390.57	36.41	36.89	0.48	3,354.09
MW - 1	08/20/03	3390.57	36.93	37.19	0.26	3,353.60
MW - 1	08/25/03	3390.57	36.97	37.25	0.28	3,353.56
MW - 1	09/08/03	3390.57	sheen	37.45	0.00	3,353.12
MW - 1	09/15/03	3390.57	sheen	37.48	0.00	3,353.09
MW - 1	09/24/03	3390.57	sheen	37.59	0.00	3,352.98
MW - 1	09/30/03	3390.57	37.18	37.19	0.01	3,353.39
MW - 1	10/07/03	3390.57	37.40	37.41	0.01	3,353.17
MW - 1	10/22/03	3390.57	sheen	37.31	0.00	3,353.26
MW - 1	10/27/03	3390.57	sheen	37.13	0.00	3,353.44
MW - 1	11/07/03	3390.57	37.40	37.52	0.12	3,353.15

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	11/10/03	3390.57	sheen	37.53	0.00	3,353.04
MW - 1	11/17/03	3390.57	sheen	36.81	0.00	3,353.76
MW - 1	12/08/03	3390.57	sheen	35.77	0.00	3,354.80
MW - 1	12/17/03	3390.57	sheen	36.79	0.00	3,353.78
MW - 1	12/22/03	3390.57	37.33	37.34	0.01	3,353.24
MW - 1	01/02/04	3390.57	sheen	35.41	0.00	3,355.16
MW - 1	01/06/04	3390.57	sheen	37.35	0.00	3,353.22
MW - 1	01/19/04	3390.57	sheen	35.96	0.00	3,354.61
MW - 1	01/26/04	3390.57	sheen	36.04	0.00	3,354.53
MW - 1	02/02/04	3390.57	sheen	35.99	0.00	3,354.58
MW - 1	02/09/04	3390.57	35.52	35.53	0.01	3,355.05
MW - 1	02/19/04	3390.57	sheen	35.62	0.00	3,354.95
MW - 1	02/23/04	3390.57	-	35.50	0.00	3,355.07
MW - 1	03/01/04	3390.57	-	35.48	0.00	3,355.09
MW - 1	03/10/04	3390.57	-	35.51	0.00	3,355.06
MW - 1	03/15/04	3390.57	-	35.94	0.00	3,354.63
MW - 1	03/23/04	3390.57	-	36.50	0.00	3,354.07
MW - 1	03/30/04	3390.57	-	36.66	0.00	3,353.91
MW - 1	04/12/04	3390.57	-	36.60	0.00	3,353.97
MW - 1	04/20/04	3390.57	-	36.00	0.00	3,354.57
MW - 1	05/03/04	3390.57	-	36.44	0.00	3,354.13
MW - 1	05/04/04	3390.57	-	36.44	0.00	3,354.13
MW - 1	06/09/04	3390.57	sheen	36.47	0.00	3,354.10
MW - 1	06/09/04	3390.57	36.47	36.47	0.01	3,354.11
MW - 1	06/16/04	3390.57	sheen	36.49	0.00	3,354.08
MW - 1	06/30/04	3390.57	sheen	26.50	0.00	3,364.07
MW - 1	07/13/04	3390.57	36.64	36.65	0.01	3,353.93
MW - 1	06/23/04	3390.57	sheen	26.52	0.00	3,364.05
MW - 1	08/23/04	3390.57	36.88	36.94	0.06	3,353.68
MW - 1	09/13/04	3390.57	sheen	37.10	0.00	3,353.47
MW - 1	09/22/04	3390.57	-	37.21	0.00	3,353.36
MW - 1	09/22/04	3390.57	-	37.21	0.00	3,353.36
MW - 1	09/29/04	3390.57	sheen	36.81	0.00	3,353.76
MW - 1	10/04/04	3390.57	sheen	36.15	0.00	3,354.42
MW - 1	10/04/04	3390.57	sheen	36.15	0.00	3,354.42
MW - 1	10/11/04	3390.57	sheen	35.98	0.00	3,354.59
MW - 1	10/19/04	3390.57	sheen	36.10	0.00	3,354.47
MW - 1	10/25/04	3390.57	sheen	36.13	0.00	3,354.44
MW - 1	11/01/04	3390.57	sheen	36.36	0.00	3,354.21
MW - 1	11/09/04	3390.57	sheen	36.31	0.00	3,354.26
MW - 1	11/17/04	3390.57	sheen	36.89	0.00	3,353.68
MW - 1	11/22/04	3390.57	sheen	36.50	0.00	3,354.07
MW - 1	11/29/04	3390.57	sheen	36.03	0.00	3,354.54
MW - 1	12/04/04	3390.57	sheen	35.65	0.00	3,354.92
MW - 1	12/13/04	3390.57	sheen	35.42	0.00	3,355.15
MW - 1	12/20/04	3390.57	sheen	35.30	0.00	3,355.27
MW - 1	12/30/04	3390.57	sheen	35.04	0.00	3,355.53

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	01/03/05	3390.57	sheen	35.01	0.00	3,355.56
MW - 1	01/10/05	3390.57	sheen	35.21	0.00	3,355.36
MW - 1	01/17/05	3390.57	sheen	35.19	0.00	3,355.38
MW - 1	01/24/05	3390.57	sheen	35.17	0.00	3,355.40
MW - 1	01/31/05	3390.57	sheen	35.29	0.00	3,355.28
MW - 1	02/07/05	3390.57	sheen	35.21	0.00	3,355.36
MW - 1	02/14/05	3390.57	sheen	35.28	0.00	3,355.29
MW - 1	02/21/05	3390.57	sheen	35.25	0.00	3,355.32
MW - 1	02/28/05	3390.57	sheen	35.29	0.00	3,355.28
MW - 1	*03/07/05*	3390.57	-	35.07	0.00	3,355.50
MW - 1	03/07/05	3390.57	sheen	35.07	0.00	3,355.50
MW - 1	03/16/05	3390.57	sheen	35.00	0.00	3,355.57
MW - 1	03/21/05	3390.57	sheen	34.95	0.00	3,355.62
MW - 1	03/28/05	3390.57	sheen	35.04	0.00	3,355.53
MW - 1	04/04/05	3390.57	sheen	35.07	0.00	3,355.50
MW - 1	04/13/05	3390.57	sheen	35.09	0.00	3,355.48
MW - 1	04/18/05	3390.57	sheen	35.10	0.00	3,355.47
MW - 1	05/23/05	3390.57	sheen	35.24	0.00	3,355.33
MW - 1	*06/07/05*	3390.57	-	35.05	0.00	3,355.52
MW - 1	06/21/05	3390.57	sheen	35.20	0.00	3,355.37
MW - 1	07/26/05	3390.57	sheen	35.05	0.00	3,355.52
MW - 1	08/25/05	3390.57	sheen	35.23	0.00	3,355.34
MW - 1	*09/07/05*	3390.57	sheen	35.20	0.00	3,355.37
MW - 1	09/26/05	3390.57	sheen	35.35	0.00	3,355.22
MONITOR WELL RISER WAS EXTENDED & RESURVEYED - NOTE ELEVATION CHANGE						
MW - 1	11/14/05	3391.62	sheen	49.84	0.00	3,341.78
MW - 1	*12/14/05*	3391.62	-	46.80	0.00	3,344.82
MW - 1	12/28/05	3391.62	sheen	46.55	0.00	3,345.07
MW - 1	01/12/06	3391.62	-	46.47	0.00	3,345.15
MW - 1	01/18/06	3391.62	sheen	46.56	0.00	3,345.06
MW - 1	02/15/06	3391.62	sheen	46.40	0.00	3,345.22
MW - 1	*03/06/06*	3391.62	-	46.50	0.00	3,345.12
MW - 1	03/20/06	3391.62	sheen	46.57	0.00	3,345.05
MW - 1	*04/13/06*	3391.62	sheen	46.39	0.00	3,345.23
MW - 1	04/19/06	3391.62	sheen	46.50	0.00	3,345.12
MW - 1	05/25/06	3391.62	sheen	46.24	0.00	3,345.38
MW - 1	*06/05/06*	3391.62	sheen	46.22	0.00	3,345.40
MW - 1	*09/11/06*	3391.62	sheen	46.71	0.00	3,344.91
MW - 1	10/31/06	3391.62	sheen	46.91	0.00	3,344.71
MW - 1	11/16/06	3391.62	sheen	46.80	0.00	3,344.82
MW - 1	*11/21/06*	3391.62	sheen	46.76	0.00	3,344.86
MW - 1	01/26/07	3391.62	sheen	46.66	0.00	3,344.96
MW - 1	01/31/07	3391.62	sheen	46.53	0.00	3,345.09
MW - 1	02/15/07	3391.62	-	46.61	0.00	3,345.01
MW - 1	*02/20/07*	3391.62	-	46.56	0.00	3,345.06
MW - 1	*05/15/07*	3391.62	-	46.74	0.00	3,344.88
MW - 1	*08/09/07*	3391.62	-	46.48	0.00	3,345.14

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	10/01/07	3391.62	sheen	46.73	0.00	3,344.89
MW - 1	10/12/07	3391.62	sheen	46.73	0.00	3,344.89
MW - 1	*11/13/07*	3391.62	-	46.82	0.00	3,344.80
MW - 1	*02/14/08*	3391.62	-	46.99	0.00	3,344.63
MW - 1	04/18/08	3391.62	-	46.11	0.00	3,345.51
MW - 1	*05/16/08*	3391.62	-	46.31	0.00	3,345.31
MW - 1	*06/08/08*	3391.62	-	46.40	0.00	3,345.22
MW - 1	07/15/08	3391.62	-	46.70	0.00	3,344.92
MW - 1	07/16/08	3391.62	-	46.76	0.00	3,344.86
MW - 1	08/12/08	3391.62	-	46.80	0.00	3,344.82
MW - 1	*08/19/08*	3391.62	-	46.85	0.00	3,344.77
MW - 1	10/28/08	3391.62	-	47.08	0.00	3,344.54
MW - 1	*11/19/08*	3391.62	-	46.18	0.00	3,345.44
MW - 1	11/24/08	3391.62	-	47.32	0.00	3,344.30
MW - 1	12/17/08	3391.62	-	47.09	0.00	3,344.53
MW - 1	12/29/08	3391.62	sheen	-	0.00	-
MW - 1	*02/18/09*	3391.62	-	46.34	0.00	3,345.28
MW - 1	03/03/09	3391.62	-	46.19	0.00	3,345.43
MW - 1	03/10/09	3391.62	-	46.43	0.00	3,345.19
MW - 1	03/18/09	3391.62	-	46.55	0.00	3,345.07
MW - 1	03/27/09	3391.62	-	46.55	0.00	3,345.07
MW - 1	04/07/09	3391.62	-	46.69	0.00	3,344.93
MW - 1	04/14/09	3391.62	-	46.75	0.00	3,344.87
MW - 1	04/28/09	3391.62	-	46.83	0.00	3,344.79
MW - 1	*05/19/09*	3391.62		46.91	0.00	3,344.71
MW - 1	05/27/09	3391.62	-	47.04	0.00	3,344.58
MW - 1	06/04/09	3391.62	-	47.02	0.00	3,344.60
MW - 1	06/12/09	3391.62	-	47.08	0.00	3,344.54
MW - 1	06/18/09	3391.62	-	47.12	0.00	3,344.50
MW - 1	06/30/09	3391.62	-	46.20	0.00	3,345.42
MW - 1	07/07/09	3391.62	-	47.14	0.00	3,344.48
MW - 1	07/14/09	3391.62	-	47.15	0.00	3,344.47
MW - 1	07/21/09	3391.62	-	47.21	0.00	3,344.41
MW - 1	07/28/09	3391.62	-	47.14	0.00	3,344.48
MW - 1	08/07/09	3391.62	-	47.16	0.00	3,344.46
MW - 1	*08/13/09*	3391.62	-	47.13	0.00	3,344.49
MW - 1	08/21/09	3391.62	-	47.17	0.00	3,344.45
MW - 1	08/27/09	3391.62	-	47.21	0.00	3,344.41
MW - 1	09/10/09	3391.62	-	47.20	0.00	3,344.42
MW - 1	09/18/09	3391.62	-	47.22	0.00	3,344.40
MW - 1	09/29/09	3391.62	-	47.16	0.00	3,344.46
MW - 1	10/06/09	3391.62	-	47.17	0.00	3,344.45
MW - 1	10/20/09	3391.62	-	47.16	0.00	3,344.46
MW - 1	10/27/09	3391.62	-	47.17	0.00	3,344.45
MW - 1	*11/11/09*	3391.62	-	47.24	0.00	3,344.38
MW - 1	11/13/09	3391.62	-	47.12	0.00	3,344.50
MW - 1	12/08/09	3391.62	-	47.17	0.00	3,344.45

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	12/22/09	3391.62	-	47.18	0.00	3,344.44
MW - 1	01/12/10	3391.62	-	47.20	0.00	3,344.42
MW - 1	01/22/10	3391.62	-	47.16	0.00	3,344.46
MW - 1	*02/04/10*	3391.62	-	47.30	0.00	3,344.32
MW - 1	03/03/10	3391.62	-	47.49	0.00	3,344.13
MW - 1	03/16/10	3391.62	-	48.61	0.00	3,343.01
MW - 1	04/15/10	3391.62	-	47.53	0.00	3,344.09
MW - 1	*05/07/10*	3391.62	-	47.49	0.00	3,344.13
MW - 1	05/28/10	3391.62	-	47.61	0.00	3,344.01
MW - 1	06/08/10	3391.62	-	47.53	0.00	3,344.09
MW - 1	06/25/10	3391.62	-	47.49	0.00	3,344.13
MW - 1	07/08/10	3391.62	-	47.56	0.00	3,344.06
MW - 1	07/28/10	3391.62	-	47.51	0.00	3,344.11
MW - 1	*08/06/10*	3391.62	-	47.48	0.00	3,344.14
MW - 1	08/31/10	3391.62	-	47.62	0.00	3,344.00
MW - 1	09/10/10	3391.62	-	47.61	0.00	3,344.01
MW - 1	09/24/10	3391.62	-	47.63	0.00	3,343.99
MW - 1	10/06/10	3391.62	-	47.65	0.00	3,343.97
MW - 1	10/26/10	3391.62	-	47.16	0.00	3,344.46
MW - 1	11/05/10	3391.62	-	47.50	0.00	3,344.12
MW - 1	12/17/10	3391.62	-	47.14	0.00	3,344.48
MW - 1	01/13/11	3391.62	sheen	47.69	0.00	3,343.93
MW - 1	*02/11/11*	3391.62	-	47.50	0.00	3,344.12
MW - 1	*05/09/11*	3391.62	-	47.51	0.00	3,344.11
MW - 1	05/20/11	3391.62	-	47.93	0.00	3,343.69
MW - 1	06/29/11	3391.62	-	47.80	0.00	3,343.82
MW - 1	07/05/11	3391.62	-	47.82	0.00	3,343.80
MW - 1	07/25/11	3391.62	-	47.72	0.00	3,343.90
MW - 1	*08/05/11*	3391.62	-	47.53	0.00	3,344.09
MW - 1	08/11/11	3391.62	-	47.81	0.00	3,343.81
MW - 1	08/24/11	3391.62	-	47.90	0.00	3,343.72
MW - 1	09/09/11	3391.62	-	48.55	0.00	3,343.07
MW - 1	09/23/11	3391.62	-	48.60	0.00	3,343.02
MW - 1	10/26/11	3391.62	-	48.59	0.00	3,343.03
MW - 1	*11/17/11*	3391.62	-	48.53	0.00	3,343.09
MW - 1	01/30/12	3391.62	-	48.52	0.00	3,343.10
MW - 1	*02/28/12*	3391.62	-	48.33	0.00	3,343.29
MW - 1	03/15/12	3391.62	-	48.52	0.00	3,343.10
MW - 1	03/28/12	3391.62	47.97	48.33	0.36	3,343.60
MW - 1	04/05/12	3391.62	-	48.17	0.00	3,343.45
MW - 1	04/23/12	3391.62	-	48.17	0.00	3,343.45
MW - 1	*05/03/12*	3391.62	-	48.22	0.00	3,343.40
MW - 1	06/28/12	3391.62	-	48.49	0.00	3,343.13
MW - 1	*08/24/12*	3391.62	-	48.65	0.00	3,342.97
MW - 1	*10/12/12*	3391.62	48.56	48.59	0.03	3,343.06
MW - 1	*10/24/12*	3391.62	48.43	48.44	0.01	3,343.19
MW - 1	*11/15/12*	3391.62	48.46	48.47	0.01	3,343.16

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	*12/20/12*	3391.62	48.46	48.47	0.01	3,343.16
MW - 1	*01/14/13*	3391.62	-	48.31	0.00	3,343.31
MW - 1	*02/14/13*	3391.62	-	48.34	0.00	3,343.28
MW - 1	*03/29/13*	3391.62	-	48.27	0.00	3,343.35
MW - 1	*04/19/13*	3391.62	-	48.27	0.00	3,343.35
MW - 1	*04/30/13*	3391.62	-	48.23	0.00	3,343.39
MW - 1	*05/28/13*	3391.62	-	48.26	0.00	3,343.36
MW - 1	05/23/13	3391.62	-	48.31	0.00	3,343.31
MW - 1	05/30/13	3391.62	-	48.26	0.00	3,343.36
MW - 1	06/06/13	3391.62	-	48.36	0.00	3,343.26
MW - 1	06/13/13	3391.62	-	48.41	0.00	3,343.21
MW - 1	06/19/13	3391.62	-	48.42	0.00	3,343.20
MW - 1	07/30/13	3391.62	-	48.65	0.00	3,342.97
MW - 1	*08/06/13*	3391.62	-	48.62	0.00	3,343.00
MW - 1	08/09/13	3391.62	-	48.69	0.00	3,342.93
MW - 1	08/30/13	3391.62	-	48.77	0.00	3,342.85
MW - 1	09/12/13	3391.62	-	48.93	0.00	3,342.69
MW - 1	10/03/13	3391.62	-	48.96	0.00	3,342.66
MW - 1	11/01/13	3391.62	-	48.89	0.00	3,342.73
MW - 1	*11/07/13*	3391.62	-	48.89	0.00	3,342.73
MW - 1	12/10/13	3391.62	-	49.04	0.00	3,342.58
MW - 1	01/01/14	3391.62	-	48.85	0.00	3,342.77
MW - 1	01/16/14	3391.62	-	48.83	0.00	3,342.79
MW - 1	01/23/14	3391.62	-	48.93	0.00	3,342.69
MW - 1	01/28/14	3391.62	-	48.99	0.00	3,342.63
MW - 1	02/11/14	3391.62	-	48.98	0.00	3,342.64
MW - 1	*03/05/14*	3391.62	-	48.95	0.00	3,342.67
MW - 1	03/13/14	3391.62	-	48.95	0.00	3,342.67
MW - 1	03/29/14	3391.62	-	48.86	0.00	3,342.76
MW - 1	04/08/14	3391.62	-	48.94	0.00	3,342.68
MW - 1	04/17/14	3391.62	-	48.85	0.00	3,342.77
MW - 1	05/01/14	3391.62	-	48.77	0.00	3,342.85
MW - 1	05/08/14	3391.62	-	48.75	0.00	3,342.87
MW - 1	05/14/14	3391.62	-	48.77	0.00	3,342.85
MW - 1	05/23/14	3391.62	-	48.89	0.00	3,342.73
MW - 1	05/27/14	3391.62	-	48.90	0.00	3,342.72
MW - 1	*05/29/14*	3391.62	-	48.88	0.00	3,342.74
MW - 1	06/05/14	3391.62	-	48.90	0.00	3,342.72
MW - 1	06/11/14	3391.62	-	48.95	0.00	3,342.67
MW - 1	06/18/14	3391.62	-	48.93	0.00	3,342.69
MW - 1	06/26/14	3391.62	-	48.98	0.00	3,342.64
MW - 1	07/01/14	3391.62	-	49.42	0.00	3,342.20
MW - 1	07/10/14	3391.62	-	49.03	0.00	3,342.59
MW - 1	07/17/14	3391.62	-	49.13	0.00	3,342.49
MW - 1	07/23/14	3391.62	-	49.20	0.00	3,342.42
MW - 1	07/31/14	3391.62	-	49.19	0.00	3,342.43
MW - 1	08/06/14	3391.62	-	49.12	0.00	3,342.50

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	*08/12/14*	3391.62	-	49.20	0.00	3,342.42
MW - 1	08/21/14	3391.62	-	49.22	0.00	3,342.40
MW - 1	09/04/14	3391.62	-	49.18	0.00	3,342.44
MW - 1	10/02/14	3391.62	-	49.20	0.00	3,342.42
MW - 1	10/08/14	3391.62	-	49.17	0.00	3,342.45
MW - 1	10/14/14	3391.62	-	49.15	0.00	3,342.47
MW - 1	10/23/14	3391.62	-	49.03	0.00	3,342.59
MW - 1	10/28/14	3391.62	-	49.11	0.00	3,342.51
MW - 1	11/07/14	3391.62	-	49.02	0.00	3,342.60
MW - 1	11/14/14	3391.62	-	48.91	0.00	3,342.71
MW - 1	*11/15/14*	3391.62	-	49.02	0.00	3,342.60
MW - 1	12/04/14	3391.62	-	48.96	0.00	3,342.66
MW - 1	12/11/14	3391.62	-	48.96	0.00	3,342.66
MW - 1	12/18/11	3391.62	-	48.91	0.00	3,342.71
MW - 1	12/23/14	3391.62	-	48.95	0.00	3,342.67
MW - 2	03/03/99	3390.85	46.33	49.33	3.00	3,344.07
MW - 2	05/12/99	3390.85	46.46	49.02	2.56	3,344.01
MW - 2	18/23/99	3390.85	46.65	49.38	2.73	3,343.79
MW - 2	11/29/99	3390.85	45.98	46.25	0.27	3,344.83
MW - 2	03/09/00	3390.85	46.68	48.40	1.72	3,343.91
MW - 2	05/11/00	3390.85	46.43	47.96	1.53	3,344.19
MW - 2	09/12/00	3390.85	46.31	47.77	1.46	3,344.32
MW - 2	12/14/00	3390.85	46.21	46.76	0.55	3,344.56
MW - 2	03/21/01	3390.85	46.68	48.40	1.72	3,343.91
MW - 2	05/30/01	3390.85	46.56	48.17	1.61	3,344.05
MW - 2	09/25/01	3390.85	46.74	48.59	1.85	3,343.83
MW - 2	11/17/01	3390.85	46.20	46.76	0.56	3,344.57
MW - 2	02/20/02	3390.85	46.31	47.42	1.11	3,344.37
MW - 2	05/20/02	3390.85	46.69	48.48	1.79	3,343.89
MW - 2	09/24/02	3390.85	47.33	49.90	2.57	3,343.13
MW - 2	10/29/02	3390.85	42.62	50.12	7.50	3,347.11
MW - 2	11/06/02	3390.85	48.32	49.97	1.65	3,342.28
MW - 2	11/13/02	3390.85	47.78	50.16	2.38	3,342.71
MW - 2	01/07/03	3390.85	47.67	50.20	2.53	3,342.80
MW - 2	01/13/03	3390.85	47.67	49.96	2.29	3,342.84
MW - 2	01/27/03	3390.85	48.23	48.26	0.03	3,342.62
MW - 2	02/06/03	3390.85	48.22	48.70	0.48	3,342.56
MW - 2	02/19/03	3390.85	48.25	49.92	1.67	3,342.35
MW - 2	03/05/03	3390.85	48.21	50.01	1.80	3,342.37
MW - 2	03/11/03	3390.85	47.81	48.42	0.61	3,342.95
MW - 2	03/19/03	3390.85	47.96	48.40	0.44	3,342.82
MW - 2	03/25/03	3390.85	47.53	48.31	0.78	3,343.20
MW - 2	04/02/03	3390.85	47.72	48.15	0.43	3,343.07
MW - 2	04/16/03	3390.85	47.66	48.76	1.10	3,343.03
MW - 2	04/23/03	3390.85	47.59	48.52	0.93	3,343.12
MW - 2	04/29/03	3390.85	47.60	48.63	1.03	3,343.10

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	05/08/03	3390.85	47.64	49.02	1.38	3,343.00
MW - 2	05/15/03	3390.85	47.80	49.54	1.74	3,342.79
MW - 2	05/20/03	3390.85	48.01	49.76	1.75	3,342.58
MW - 2	05/27/03	3390.85	48.44	49.51	1.07	3,342.25
MW - 2	06/03/03	3390.85	48.00	49.76	1.76	3,342.59
MW - 2	06/10/03	3390.85	48.13	50.10	1.97	3,342.42
MW - 2	06/25/03	3390.85	48.24	49.44	1.20	3,342.43
MW - 2	07/02/03	3390.85	48.27	50.41	2.14	3,342.26
MW - 2	07/07/03	3390.85	48.23	50.43	2.20	3,342.29
MW - 2	07/22/03	3390.85	sheen	48.19	0.00	3,342.66
MW - 2	07/30/03	3390.85	47.72	49.15	1.43	3,342.92
MW - 2	08/06/03	3390.85	47.69	48.32	0.63	3,343.07
MW - 2	08/13/03	3390.85	47.99	49.10	1.11	3,342.69
MW - 2	08/19/03	3390.85	47.86	49.50	1.64	3,342.74
MW - 2	08/20/03	3390.85	48.17	49.94	1.77	3,342.41
MW - 2	08/25/03	3390.85	48.27	50.28	2.01	3,342.28
MW - 2	09/08/03	3390.85	48.50	49.16	0.66	3,342.25
MW - 2	09/15/03	3390.85	48.55	48.91	0.36	3,342.25
MW - 2	09/24/03	3390.85	48.61	49.11	0.50	3,342.17
MW - 2	09/30/03	3390.85	48.65	49.60	0.95	3,342.06
MW - 2	10/07/03	3390.85	48.56	50.22	1.66	3,342.04
MW - 2	10/22/03	3390.85	48.50	50.28	1.78	3,342.08
MW - 2	10/27/03	3390.85	48.45	50.18	1.73	3,342.14
MW - 2	11/07/03	3390.85	48.56	50.28	1.72	3,342.03
MW - 2	11/10/03	3390.85	48.50	50.11	1.61	3,342.11
MW - 2	11/17/03	3390.85	47.98	49.27	1.29	3,342.68
MW - 2	12/08/03	3390.85	47.27	47.32	0.05	3,343.57
MW - 2	12/17/03	3390.85	47.95	49.29	1.34	3,342.70
MW - 2	12/22/03	3390.85	48.49	50.18	1.69	3,342.11
MW - 2	01/02/04	3390.85	46.81	46.83	0.02	3,344.04
MW - 2	01/06/04	3390.85	48.50	50.06	1.56	3,342.12
MW - 2	01/19/04	3390.85	47.28	47.30	0.02	3,343.57
MW - 2	01/26/04	3390.85	47.36	47.39	0.03	3,343.49
MW - 2	02/02/04	3390.85	47.38	47.41	0.03	3,343.47
MW - 2	02/09/04	3390.85	47.00	47.21	0.21	3,343.82
MW - 2	02/19/04	3390.85	47.04	47.05	0.01	3,343.81
MW - 2	02/23/04	3390.85	47.02	47.20	0.18	3,343.80
MW - 2	03/01/04	3390.85	46.99	47.18	0.19	3,343.83
MW - 2	03/10/04	3390.85	47.07	47.19	0.12	3,343.76
MW - 2	03/15/04	3390.85	sheen	47.55	0.00	3,343.30
MW - 2	03/23/04	3390.85	48.05	48.06	0.01	3,342.80
MW - 2	03/30/04	3390.85	48.17	48.26	0.09	3,342.67
MW - 2	04/12/04	3390.85	48.10	48.13	0.03	3,342.75
MW - 2	04/20/04	3390.85	sheen	47.58	0.00	3,343.27
MW - 2	05/03/04	3390.85	sheen	48.11	0.00	3,342.74
MW - 2	05/04/04	3390.85	sheen	48.11	0.00	3,342.74
MW - 2	06/09/04	3390.85	48.07	48.59	0.52	3,342.70

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	06/16/04	3390.85	48.08	48.54	0.46	3,342.70
MW - 2	06/23/04	3390.85	48.13	48.55	0.42	3,342.66
MW - 2	06/30/04	3390.85	48.10	48.51	0.41	3,342.69
MW - 2	07/13/04	3390.85	48.28	49.06	0.78	3,342.45
MW - 2	07/22/04	3390.85	48.44	49.36	0.92	3,342.27
MW - 2	08/23/04	3390.85	48.38	49.70	1.32	3,342.27
MW - 2	09/13/04	3390.85	48.36	49.97	1.61	3,342.25
MW - 2	09/22/04	3390.85	48.41	50.35	1.94	3,342.15
MW - 2	09/29/04	3390.85	48.30	49.80	1.50	3,342.33
MW - 2	10/04/04	3390.85	47.84	48.76	0.92	3,342.87
MW - 2	10/11/04	3390.85	47.74	48.45	0.71	3,343.00
MW - 2	10/19/04	3390.85	47.73	48.63	0.90	3,342.99
MW - 2	10/25/04	3390.85	47.79	48.59	0.80	3,342.94
MW - 2	11/01/04	3390.85	47.98	49.10	1.12	3,342.70
MW - 2	11/09/04	3390.85	48.01	48.96	0.95	3,342.70
MW - 2	11/17/04	3390.85	47.90	49.10	1.20	3,342.77
MW - 2	11/22/04	3390.85	48.03	48.87	0.84	3,342.69
MW - 2	11/29/04	3390.85	46.53	47.00	0.47	3,344.25
MW - 2	12/04/04	3390.85	47.22	47.40	0.18	3,343.60
MW - 2	12/13/04	3390.85	46.99	47.07	0.08	3,343.85
MW - 2	12/20/04	3390.85	47.03	47.12	0.09	3,343.81
MW - 2	12/30/04	3390.85	46.65	46.67	0.02	3,344.20
MW - 2	01/03/05	3390.85	sheen	46.59	0.00	3,344.26
MW - 2	01/10/05	3390.85	47.10	47.18	0.08	3,343.74
MW - 2	01/17/05	3390.85	sheen	46.76	0.00	3,344.09
MW - 2	01/24/05	3390.85	sheen	46.82	0.00	3,344.03
MW - 2	01/31/05	3390.85	sheen	46.89	0.00	3,343.96
MW - 2	02/07/05	3390.85	sheen	46.81	0.00	3,344.04
MW - 2	02/14/05	3390.85	sheen	46.93	0.00	3,343.92
MW - 2	02/21/05	3390.85	sheen	46.87	0.00	3,343.98
MW - 2	02/28/05	3390.85	sheen	46.90	0.00	3,343.95
MW - 2	*03/07/05*	3390.85	-	46.75	0.00	3,344.10
MW - 2	03/07/05	3390.85	sheen	46.75	0.00	3,344.10
MW - 2	03/16/05	3390.85	sheen	46.58	0.00	3,344.27
MW - 2	03/21/05	3390.85	sheen	46.52	0.00	3,344.33
MW - 2	03/28/05	3390.85	sheen	46.67	0.00	3,344.18
MW - 2	04/04/05	3390.85	sheen	46.66	0.00	3,344.19
MW - 2	04/13/05	3390.85	sheen	46.67	0.00	3,344.18
MW - 2	04/18/05	3390.85	sheen	46.64	0.00	3,344.21
MW - 2	05/23/05	3390.85	sheen	46.89	0.00	3,343.96
MW - 2	*06/07/05*	3390.85	-	46.67	0.00	3,344.18
MW - 2	06/21/05	3390.85	sheen	46.83	0.00	3,344.02
MW - 2	07/26/05	3390.85	sheen	46.69	0.00	3,344.16
MW - 2	08/25/05	3390.85	sheen	46.71	0.00	3,344.14
MW - 2	*09/07/05*	3390.85	-	46.68	0.00	3,344.17
MW - 2	09/26/05	3390.85	sheen	46.78	0.00	3,344.07
MW - 2	11/14/05	3390.85	sheen	46.51	0.00	3,344.34

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	*12/14/05*	3390.85	-	46.09	0.00	3,344.76
MW - 2	12/28/05	3390.85	sheen	45.81	0.00	3,345.04
MW - 2	01/18/06	3390.85	sheen	45.89	0.00	3,344.96
MW - 2	02/15/06	3390.85	sheen	45.71	0.00	3,345.14
MW - 2	*03/06/06*	3390.85	sheen	45.83	0.00	3,345.02
MW - 2	03/20/06	3390.85	sheen	45.90	0.00	3,344.95
MW - 2	*04/13/06*	3390.85	sheen	45.72	0.00	3,345.13
MW - 2	04/19/06	3390.85	sheen	45.81	0.00	3,345.04
MW - 2	05/25/06	3390.85	sheen	45.55	0.00	3,345.30
MW - 2	*06/05/06*	3390.85	sheen	45.52	0.00	3,345.33
MW - 2	*09/11/06*	3390.85	sheen	46.08	0.00	3,344.77
MW - 2	10/31/06	3390.85	sheen	46.30	0.00	3,344.55
MW - 2	11/16/06	3390.85	sheen	46.13	0.00	3,344.72
MW - 2	*11/21/06*	3390.85	sheen	46.97	0.00	3,343.88
MW - 2	01/26/07	3390.85	sheen	46.02	0.00	3,344.83
MW - 2	01/31/07	3390.85	sheen	45.91	0.00	3,344.94
MW - 2	02/15/07	3390.85	-	45.96	0.00	3,344.89
MW - 2	*02/20/07*	3390.85	sheen	45.94	0.00	3,344.91
MW - 2	*05/15/07*	3390.85	sheen	46.04	0.00	3,344.81
MW - 2	*08/09/07*	3390.85	sheen	45.82	0.00	3,345.03
MW - 2	10/01/07	3390.85	sheen	46.11	0.00	3,344.74
MW - 2	10/12/07	3390.85	sheen	46.11	0.00	3,344.74
MW - 2	*11/13/07*	3390.85	sheen	46.14	0.00	3,344.71
MW - 2	*02/14/08*	3390.85	-	46.40	0.00	3,344.45
MW - 2	04/18/08	3390.85	-	45.42	0.00	3,345.43
MW - 2	*05/16/08*	3390.85	-	45.67	0.00	3,345.18
MW - 2	07/15/08	3390.85	-	46.10	0.00	3,344.75
MW - 2	07/16/08	3390.85	-	46.18	0.00	3,344.67
MW - 2	08/12/08	3390.85	-	46.23	0.00	3,344.62
MW - 2	*08/19/08*	3390.85	-	46.21	0.00	3,344.64
MW - 2	*10/09/08*	3390.85	-	46.41	0.00	3,344.44
MW - 2	*11/19/08*	3390.85	-	46.29	0.00	3,344.56
MW - 2	12/17/08	3390.85	-	46.45	0.00	3,344.40
MW - 2	*02/18/09*	3390.85	-	45.66	0.00	3,345.19
MW - 2	03/03/09	3390.85	-	45.65	0.00	3,345.20
MW - 2	03/10/09	3390.85	-	45.83	0.00	3,345.02
MW - 2	03/18/09	3390.85	-	45.91	0.00	3,344.94
MW - 2	03/27/09	3390.85	-	45.92	0.00	3,344.93
MW - 2	04/07/09	3390.85	-	46.09	0.00	3,344.76
MW - 2	04/14/09	3390.85	-	46.12	0.00	3,344.73
MW - 2	04/28/09	3390.85	-	46.22	0.00	3,344.63
MW - 2	*05/19/09*	3390.85	-	46.32	0.00	3,344.53
MW - 2	05/27/09	3390.85	-	46.42	0.00	3,344.43
MW - 2	06/04/09	3390.85	-	46.41	0.00	3,344.44
MW - 2	06/12/09	3390.85	-	46.46	0.00	3,344.39
MW - 2	06/18/09	3390.85	-	46.52	0.00	3,344.33
MW - 2	06/30/09	3390.85	-	45.63	0.00	3,345.22

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	07/07/09	3390.85	-	46.52	0.00	3,344.33
MW - 2	07/14/09	3390.85	-	46.53	0.00	3,344.32
MW - 2	07/21/09	3390.85	-	46.58	0.00	3,344.27
MW - 2	07/28/09	3390.85	-	46.51	0.00	3,344.34
MW - 2	08/07/09	3390.85	-	46.53	0.00	3,344.32
MW - 2	*08/13/09*	3390.85	-	46.50	0.00	3,344.35
MW - 2	08/21/09	3390.85	-	46.53	0.00	3,344.32
MW - 2	08/27/09	3390.85	-	46.56	0.00	3,344.29
MW - 2	09/10/09	3390.85	-	46.56	0.00	3,344.29
MW - 2	09/18/09	3390.85	-	46.54	0.00	3,344.31
MW - 2	09/29/09	3390.85	-	46.53	0.00	3,344.32
MW - 2	10/06/09	3390.85	-	46.54	0.00	3,344.31
MW - 2	10/20/09	3390.85	-	46.55	0.00	3,344.30
MW - 2	10/27/09	3390.85	-	46.56	0.00	3,344.29
MW - 2	*11/11/09*	3390.85	-	46.61	0.00	3,344.24
MW - 2	11/13/09	3390.85	-	46.50	0.00	3,344.35
MW - 2	12/08/09	3390.85	-	46.53	0.00	3,344.32
MW - 2	12/22/09	3390.85	-	46.55	0.00	3,344.30
MW - 2	01/12/10	3390.85	-	46.60	0.00	3,344.25
MW - 2	01/22/10	3390.85	-	46.58	0.00	3,344.27
MW - 2	*02/04/10*	3390.85	-	46.68	0.00	3,344.17
MW - 2	03/03/10	3390.85	-	46.89	0.00	3,343.96
MW - 2	03/16/10	3390.85	-	46.90	0.00	3,343.95
MW - 2	04/15/10	3390.85	-	46.91	0.00	3,343.94
MW - 2	*05/07/10*	3390.85	-	46.87	0.00	3,343.98
MW - 2	05/28/10	3390.85	-	46.96	0.00	3,343.89
MW - 2	06/08/10	3390.85	-	46.90	0.00	3,343.95
MW - 2	06/25/10	3390.85	-	46.88	0.00	3,343.97
MW - 2	07/08/10	3390.85	-	46.86	0.00	3,343.99
MW - 2	07/28/10	3390.85	-	46.90	0.00	3,343.95
MW - 2	08/06/10	3390.85	-	46.88	0.00	3,343.97
MW - 2	08/31/10	3390.85	-	46.99	0.00	3,343.86
MW - 2	09/10/10	3390.85	-	46.99	0.00	3,343.86
MW - 2	09/24/10	3390.85	-	46.95	0.00	3,343.90
MW - 2	10/06/10	3390.85	-	46.96	0.00	3,343.89
MW - 2	10/26/10	3390.85	-	46.58	0.00	3,344.27
MW - 2	*11/05/10*	3390.85	-	46.90	0.00	3,343.95
MW - 2	12/17/10	3390.85	-	46.57	0.00	3,344.28
MW - 2	01/13/11	3390.85	sheen	46.97	0.00	3,343.88
MW - 2	*02/11/11*	3390.85	-	46.91	0.00	3,343.94
MW - 2	*05/09/11*	3390.85	-	46.90	0.00	3,343.95
MW - 2	05/20/11	3390.85	-	47.34	0.00	3,343.51
MW - 2	06/29/11	3390.85	-	47.39	0.00	3,343.46
MW - 2	07/05/11	3390.85	-	47.59	0.00	3,343.26
MW - 2	07/25/11	3390.85	-	47.61	0.00	3,343.24
MW - 2	*08/05/11*	3390.85	-	46.91	0.00	3,343.94
MW - 2	08/11/11	3390.85	-	47.65	0.00	3,343.20

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	08/24/11	3390.85	-	47.76	0.00	3,343.09
MW - 2	09/09/11	3390.85	-	47.84	0.00	3,343.01
MW - 2	09/23/11	3390.85	-	47.91	0.00	3,342.94
MW - 2	10/26/11	3390.85	-	47.88	0.00	3,342.97
MW - 2	*11/17/11*	3390.85	-	47.87	0.00	3,342.98
MW - 2	01/30/12	3390.85	-	47.89	0.00	3,342.96
MW - 2	*02/28/12*	3390.85	-	47.69	0.00	3,343.16
MW - 2	03/15/12	3390.85	-	47.59	0.00	3,343.26
MW - 2	03/28/12	3390.85	-	47.50	0.00	3,343.35
MW - 2	04/05/12	3390.85	-	47.53	0.00	3,343.32
MW - 2	04/23/12	3390.85	-	45.52	0.00	3,345.33
MW - 2	*05/03/12*	3390.85	-	47.65	0.00	3,343.20
MW - 2	06/28/12	3390.85	-	47.89	0.00	3,342.96
MW - 2	*08/24/12*	3390.85	48.08	48.25	0.17	3,342.74
MW - 2	*10/12/12*	3390.85	47.87	48.49	0.62	3,342.89
MW - 2	*10/24/12*	3390.85	47.77	48.21	0.44	3,343.01
MW - 2	*11/15/12*	3390.85	47.79	48.31	0.52	3,342.98
MW - 2	*12/20/12*	3390.85	47.75	48.41	0.66	3,343.00
MW - 2	*01/14/13*	3390.85	47.63	48.11	0.48	3,343.15
MW - 2	02/14/13	3390.85	47.61	48.11	0.50	3,343.17
MW - 2	03/29/13	3390.85	47.56	47.88	0.32	3,343.24
MW - 2	04/19/13	3390.85	47.55	47.94	0.39	3,343.24
MW - 2	04/30/13	3390.85	47.51	47.82	0.31	3,343.29
MW - 2	05/23/13	3390.85	47.55	48.11	0.56	3,343.22
MW - 2	05/28/13	3390.85	47.56	48.04	0.48	3,343.22
MW - 2	05/30/13	3390.85	47.56	48.06	0.50	3,343.22
MW - 2	06/06/13	3390.85	47.62	48.41	0.79	3,343.11
MW - 2	06/13/13	3390.85	47.63	48.47	0.84	3,343.09
MW - 2	06/19/13	3390.85	47.63	48.39	0.76	3,343.11
MW - 2	07/30/13	3390.85	47.80	49.08	1.28	3,342.86
MW - 2	08/06/13	3390.85	47.82	49.03	1.21	3,342.85
MW - 2	08/09/13	3390.85	47.86	49.17	1.31	3,342.79
MW - 2	08/30/13	3390.85	47.91	49.19	1.28	3,342.75
MW - 2	09/12/13	3390.85	47.97	49.17	1.20	3,342.70
MW - 2	10/03/13	3390.85	48.00	49.16	1.16	3,342.68
MW - 2	11/01/13	3390.85	48.09	49.37	1.28	3,342.57
MW - 2	11/07/13	3390.85	48.14	49.27	1.13	3,342.54
MW - 2	12/10/13	3390.85	48.04	49.23	1.19	3,342.63
MW - 2	01/01/14	3390.85	47.95	49.05	1.10	3,342.74
MW - 2	01/16/14	3390.85	48.28	49.02	0.74	3,342.46
MW - 2	01/23/14	3390.85	48.10	49.50	1.40	3,342.54
MW - 2	01/28/14	3390.85	48.15	49.32	1.17	3,342.52
MW - 2	02/11/14	3390.85	48.10	49.25	1.15	3,342.58
MW - 2	*03/05/14*	3390.85	48.08	49.42	1.34	3,342.57
MW - 2	03/13/14	3390.85	48.06	49.35	1.29	3,342.60
MW - 2	03/29/14	3390.85	48.01	49.30	1.29	3,342.65
MW - 2	04/08/14	3390.85	48.08	49.40	1.32	3,342.57

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	04/17/14	3390.85	48.08	49.37	1.29	3,342.58
MW - 2	04/25/14	3390.85	48.00	49.12	1.12	3,342.68
MW - 2	05/01/14	3390.85	48.02	49.10	1.08	3,342.67
MW - 2	05/08/14	3390.85	48.00	48.99	0.99	3,342.70
MW - 2	05/14/14	3390.85	48.00	48.95	0.95	3,342.71
MW - 2	05/23/14	3390.85	48.06	49.23	1.17	3,342.61
MW - 2	05/27/14	3390.85	48.06	49.09	1.03	3,342.64
MW - 2	*05/29/14*	3390.85	48.15	49.02	0.87	3,342.57
MW - 2	06/05/14	3390.85	48.09	49.25	1.16	3,342.59
MW - 2	06/11/14	3390.85	48.12	49.28	1.16	3,342.56
MW - 2	06/18/14	3390.85	48.14	49.35	1.21	3,342.53
MW - 2	06/26/14	3390.85	48.14	49.48	1.34	3,342.51
MW - 2	07/01/14	3390.85	48.25	49.43	1.18	3,342.42
MW - 2	07/10/14	3390.85	48.24	49.73	1.49	3,342.39
MW - 2	07/17/14	3390.85	48.24	49.85	1.61	3,342.37
MW - 2	07/23/14	3390.85	48.38	49.55	1.17	3,342.29
MW - 2	07/31/14	3390.85	48.40	49.36	0.96	3,342.31
MW - 2	08/06/14	3390.85	48.45	49.03	0.58	3,342.31
MW - 2	*08/12/14*	3390.85	48.50	49.13	0.63	3,342.26
MW - 2	08/21/14	3390.85	49.05	49.68	0.63	3,341.71
MW - 2	09/04/14	3390.85	48.57	49.43	0.86	3,342.15
MW - 2	10/02/14	3390.85	48.29	49.70	1.41	3,342.35
MW - 2	10/08/14	3390.85	48.29	49.31	1.02	3,342.41
MW - 2	10/14/14	3390.85	48.29	49.34	1.05	3,342.40
MW - 2	10/17/14	3390.85	48.34	49.19	0.85	3,342.38
MW - 2	10/23/14	3390.85	48.25	49.32	1.07	3,342.44
MW - 2	10/24/14	3390.85	48.25	49.32	1.07	3,342.44
MW - 2	10/28/14	3390.85	48.27	49.17	0.90	3,342.45
MW - 2	11/07/14	3390.85	48.15	49.27	1.12	3,342.53
MW - 2	11/14/14	3390.85	48.17	49.24	1.07	3,342.52
MW - 2	*11/15/14*	3390.85	48.13	49.14	1.01	3,342.57
MW - 2	12/04/14	3390.85	48.14	49.21	1.07	3,342.55
MW - 2	12/11/14	3390.85	48.12	49.19	1.07	3,342.57
MW - 2	12/18/14	3390.85	48.00	49.02	1.02	3,342.70
MW - 2	12/23/14	3390.85	48.11	49.17	1.06	3,342.58
MW - 3	02/03/99	3391.08	-	47.09	0.00	3,343.99
MW - 3	05/12/99	3391.08	-	47.06	0.00	3,344.02
MW - 3	08/23/99	3391.08	-	47.24	0.00	3,343.84
MW - 3	11/29/99	3391.08	-	46.18	0.00	3,344.90
MW - 3	03/09/00	3391.08	-	47.17	0.00	3,343.91
MW - 3	05/11/00	3391.08	-	46.95	0.00	3,344.13
MW - 3	09/12/00	3391.08	-	46.89	0.00	3,344.19
MW - 3	12/14/00	3391.08	-	46.55	0.00	3,344.53
MW - 3	03/21/01	3391.08	-	46.18	0.00	3,344.90
MW - 3	05/30/01	3391.08	-	46.90	0.00	3,344.18

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	06/21/01	3391.08	-	47.12	0.00	3,343.96
MW - 3	09/25/01	3391.08	-	47.12	0.00	3,343.96
MW - 3	11/17/01	3391.08	-	46.83	0.00	3,344.25
MW - 3	02/20/02	3391.08	-	46.69	0.00	3,344.39
MW - 3	05/20/02	3391.08	-	47.11	0.00	3,343.97
MW - 3	09/24/02	3391.08	-	47.88	0.00	3,343.20
MW - 3	10/29/02	3391.08	-	48.13	0.00	3,342.95
MW - 3	11/13/02	3391.08	-	48.20	0.00	3,342.88
MW - 3	02/06/03	3391.08	-	48.22	0.00	3,342.86
MW - 3	05/08/03	3391.08	-	47.94	0.00	3,343.14
MW - 3	08/19/03	3391.08	-	48.20	0.00	3,342.88
MW - 3	11/07/03	3391.08	-	48.54	0.00	3,342.54
MW - 3	02/09/04	3391.08	-	47.22	0.00	3,343.86
MW - 3	05/04/04	3391.08	-	47.94	0.00	3,343.14
MW - 3	08/23/04	3391.08	-	48.66	0.00	3,342.42
MW - 3	12/04/04	3391.08	-	47.39	0.00	3,343.69
MW - 3	*03/07/05*	3391.08	-	46.78	0.00	3,344.30
MW - 3	*06/07/05*	3391.08	-	46.79	0.00	3,344.29
MW - 3	*09/07/05*	3391.08	-	46.78	0.00	3,344.30
MW - 3	*12/14/05*	3391.08	-	46.25	0.00	3,344.83
MW - 3	*03/06/06*	3391.08	-	45.96	0.00	3,345.12
MW - 3	*06/05/06*	3391.08	-	45.65	0.00	3,345.43
MW - 3	*09/11/06*	3391.08	-	46.16	0.00	3,344.92
MW - 3	*11/21/06*	3391.08	-	46.25	0.00	3,344.83
MW - 3	*02/20/07*	3391.08	-	46.06	0.00	3,345.02
MW - 3	*05/15/07*	3391.08	-	46.25	0.00	3,344.83
MW - 3	*08/09/07*	3391.08	-	45.99	0.00	3,345.09
MW - 3	*11/13/07*	3391.08	-	46.21	0.00	3,344.87
MW - 3	*02/14/08*	3391.08	-	43.34	0.00	3,347.74
MW - 3	*05/16/08*	3391.08	-	45.76	0.00	3,345.32
MW - 3	*08/19/08*	3391.08	-	46.32	0.00	3,344.76
MW - 3	*10/09/08*	3391.08	-	46.48	0.00	3,344.60
MW - 3	10/23/08	3391.08	-	46.54	0.00	3,344.54
MW - 3	10/28/08	3391.08	-	46.51	0.00	3,344.57
MW - 3	*11/19/08*	3391.08	-	46.44	0.00	3,344.64
MW - 3	11/24/08	3391.08	-	46.99	0.00	3,344.09
MW - 3	12/29/08	3391.08	-	-	-	-
MW - 3	*02/18/09*	3391.08	-	45.79	0.00	3,345.29
MW - 3	*05/19/09*	3391.08	-	46.48	0.00	3,344.60
MW - 3	07/07/09	3391.08	-	46.64	0.00	3,344.44
MW - 3	07/14/09	3391.08	-	46.66	0.00	3,344.42
MW - 3	07/28/09	3391.08	-	46.65	0.00	3,344.43
MW - 3	08/07/09	3391.08	-	46.66	0.00	3,344.42
MW - 3	*08/13/09*	3391.08	-	46.64	0.00	3,344.44
MW - 3	09/10/09	3391.08	-	46.72	0.00	3,344.36
MW - 3	09/18/09	3391.08	-	46.76	0.00	3,344.32
MW - 3	09/29/09	3391.08	-	46.66	0.00	3,344.42

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	10/06/09	3391.08	-	46.68	0.00	3,344.40
MW - 3	10/20/09	3391.08	-	46.69	0.00	3,344.39
MW - 3	10/27/09	3391.08	-	46.68	0.00	3,344.40
MW - 3	*11/11/09*	3391.08	-	46.76	0.00	3,344.32
MW - 3	12/22/09	3391.08	-	46.76	0.00	3,344.32
MW - 3	01/12/10	3391.08	-	46.72	0.00	3,344.36
MW - 3	*02/04/10*	3391.08	-	46.78	0.00	3,344.30
MW - 3	03/03/10	3391.08	-	46.99	0.00	3,344.09
MW - 3	04/15/10	3391.08	-	47.09	0.00	3,343.99
MW - 3	*05/07/10*	3391.08	-	47.11	0.00	3,343.97
MW - 3	*08/06/10*	3391.08	-	47.12	0.00	3,343.96
MW - 3	*11/05/10*	3391.08	-	47.14	0.00	3,343.94
MW - 3	*02/11/11*	3391.08	-	47.14	0.00	3,343.94
MW - 3	*05/09/11*	3391.08	-	47.16	0.00	3,343.92
MW - 3	*08/05/11*	3391.08	-	47.20	0.00	3,343.88
MW - 3	*11/17/11*	3391.08	-	47.98	0.00	3,343.10
MW - 3	*02/28/12*	3391.08	-	47.77	0.00	3,343.31
MW - 3	*05/03/12*	3391.08	-	47.75	0.00	3,343.33
MW - 3	*08/24/12*	3391.08	-	48.09	0.00	3,342.99
MW - 3	*11/15/12*	3391.08	-	47.92	0.00	3,343.16
MW - 3	02/14/13	3391.08	-	47.80	0.00	3,343.28
MW - 3	05/28/13	3391.08	-	47.75	0.00	3,343.33
MW - 3	08/06/13	3391.08	-	48.08	0.00	3,343.00
MW - 3	*11/07/13*	3391.08	-	48.41	0.00	3,342.67
MW - 3	*03/05/14*	3391.08	-	48.39	0.00	3,342.69
MW - 3	*05/29/14*	3391.08	-	48.38	0.00	3,342.70
MW - 3	07/23/14	3391.08	-	48.65	0.00	3,342.43
MW - 3	*08/12/14*	3391.08	-	48.66	0.00	3,342.42
MW - 3	10/28/14	3391.08	-	48.49	0.00	3,342.59
MW - 3	*11/15/14*	3391.08	-	48.38	0.00	3,342.70
MW - 4	02/03/99	3390.81	-	47.01	0.00	3,343.80
MW - 4	05/12/99	3390.81	-	46.91	0.00	3,343.90
MW - 4	08/23/99	3390.81	-	47.16	0.00	3,343.65
MW - 4	11/29/99	3390.81	-	46.03	0.00	3,344.78
MW - 4	03/09/00	3390.81	-	46.96	0.00	3,343.85
MW - 4	05/11/00	3390.81	-	46.80	0.00	3,344.01
MW - 4	09/12/00	3390.81	-	46.75	0.00	3,344.06
MW - 4	12/14/00	3390.81	-	46.33	0.00	3,344.48
MW - 4	03/21/01	3390.81	-	46.00	0.00	3,344.81
MW - 4	05/30/01	3390.81	-	46.70	0.00	3,344.11
MW - 4	06/21/01	3390.81	-	47.01	0.00	3,343.80
MW - 4	09/25/01	3390.81	-	47.02	0.00	3,343.79
MW - 4	11/17/01	3390.81	-	46.63	0.00	3,344.18
MW - 4	02/20/02	3390.81	-	47.47	0.00	3,343.34
MW - 4	05/20/02	3390.81	-	46.96	0.00	3,343.85
MW - 4	09/24/02	3390.81	-	48.78	0.00	3,342.03

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	10/29/02	3390.81	-	48.08	0.00	3,342.73
MW - 4	11/13/02	3390.81	-	48.18	0.00	3,342.63
MW - 4	02/06/03	3390.81	-	48.15	0.00	3,342.66
MW - 4	05/08/03	3390.81	-	47.82	0.00	3,342.99
MW - 4	08/19/03	3390.81	-	48.14	0.00	3,342.67
MW - 4	11/07/03	3390.81	-	48.43	0.00	3,342.38
MW - 4	02/09/04	3390.81	-	47.06	0.00	3,343.75
MW - 4	05/04/04	3390.81	-	47.82	0.00	3,342.99
MW - 4	08/23/04	3390.81	-	48.66	0.00	3,342.15
MW - 4	09/22/04	3390.81	sheen	48.76	0.00	3,342.05
MW - 4	09/29/04	3390.81	sheen	48.70	0.00	3,342.11
MW - 4	10/04/04	3390.81	sheen	48.10	0.00	3,342.71
MW - 4	10/11/04	3390.81	sheen	47.92	0.00	3,342.89
MW - 4	10/19/04	3390.81	sheen	48.01	0.00	3,342.80
MW - 4	10/25/04	3390.81	sheen	48.12	0.00	3,342.69
MW - 4	11/01/04	3390.81	sheen	48.16	0.00	3,342.65
MW - 4	11/09/04	3390.81	sheen	48.10	0.00	3,342.71
MW - 4	11/17/04	3390.81	sheen	48.16	0.00	3,342.65
MW - 4	11/22/04	3390.81	sheen	48.19	0.00	3,342.62
MW - 4	11/29/04	3390.81	sheen	47.63	0.00	3,343.18
MW - 4	12/04/04	3390.81	-	47.26	0.00	3,343.55
MW - 4	12/13/04	3390.81	sheen	46.80	0.00	3,344.01
MW - 4	12/20/05	3390.81	sheen	46.77	0.00	3,344.04
MW - 4	12/30/04	3390.81	sheen	46.50	0.00	3,344.31
MW - 4	01/03/05	3390.81	sheen	46.54	0.00	3,344.27
MW - 4	01/10/05	3390.81	sheen	46.66	0.00	3,344.15
MW - 4	01/17/05	3390.81	sheen	46.78	0.00	3,344.03
MW - 4	01/24/05	3390.81	sheen	46.82	0.00	3,343.99
MW - 4	01/31/05	3390.81	sheen	46.92	0.00	3,343.89
MW - 4	02/07/05	3390.81	sheen	46.88	0.00	3,343.93
MW - 4	02/14/05	3390.81	sheen	46.89	0.00	3,343.92
MW - 4	02/21/05	3390.81	sheen	46.92	0.00	3,343.89
MW - 4	02/28/05	3390.81	sheen	46.96	0.00	3,343.85
MW - 4	*03/07/05*	3390.81	-	46.60	0.00	3,344.21
MW - 4	03/07/05	3390.81	sheen	46.60	0.00	3,344.21
MW - 4	03/16/05	3390.81	sheen	46.89	0.00	3,343.92
MW - 4	03/21/05	3390.81	sheen	46.54	0.00	3,344.27
MW - 4	03/28/05	3390.81	sheen	46.66	0.00	3,344.15
MW - 4	04/04/05	3390.81	sheen	46.63	0.00	3,344.18
MW - 4	04/13/05	3390.81	sheen	46.65	0.00	3,344.16
MW - 4	04/18/05	3390.81	-	46.63	0.00	3,344.18
MW - 4	05/23/05	3390.81	sheen	46.93	0.00	3,343.88
MW - 4	*06/07/05*	3390.81	-	46.70	0.00	3,344.11
MW - 4	06/21/05	3390.81	sheen	46.90	0.00	3,343.91
MW - 4	07/26/05	3390.81	sheen	46.68	0.00	3,344.13
MW - 4	08/25/05	3390.81	sheen	46.69	0.00	3,344.12
MW - 4	*09/07/05*	3390.81	sheen	46.73	0.00	3,344.08

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	09/26/05	3390.81	sheen	46.88	0.00	3,343.93
MONITOR WELL WAS DAMAGED DURING BACKFILLING OPERATIONS						
MW - 4	11/14/05		sheen	46.49	0.00	
MONITOR WELL WAS REPAIRED & RESURVEYED - NOTE CHANGE IN ELEVATION						
MW - 4	-	3390.94	-	-	-	-
MW - 4	*12/14/05*	3390.94	COULD NOT SAMPLE - OBSTRUCTED			
MW - 4	12/28/05	3390.94	DRY	43.40		3,347.54
MW - 4	01/18/06	3390.94	DRY			
MW - 4	02/15/06	3390.94	DRY			
MW - 4	03/06/06	PLUGGED & ABANDONED				
MW - 5	11/29/99	3391.53	-	46.55	0.00	3,344.98
MW - 5	03/09/00	3391.53	-	47.51	0.00	3,344.02
MW - 5	05/11/00	3391.53	-	47.35	0.00	3,344.18
MW - 5	09/12/00	3391.53	-	47.25	0.00	3,344.28
MW - 5	12/14/00	3391.53	-	46.94	0.00	3,344.59
MW - 5	03/21/01	3391.53	-	46.55	0.00	3,344.98
MW - 5	05/30/01	3391.53	-	47.29	0.00	3,344.24
MW - 5	06/21/01	3391.53	-	47.45	0.00	3,344.08
MW - 5	09/25/01	3391.53	-	47.37	0.00	3,344.16
MW - 5	11/17/01	3391.53	-	47.20	0.00	3,344.33
MW - 5	02/20/02	3391.53	-	47.06	0.00	3,344.47
MW - 5	05/20/02	3391.53	-	47.47	0.00	3,344.06
MW - 5	09/24/02	3391.53	-	48.16	0.00	3,343.37
MW - 5	10/29/02	3391.53	-	48.36	0.00	3,343.17
MW - 5	11/13/02	3391.53	-	48.45	0.00	3,343.08
MW - 5	02/06/03	3391.53	-	48.44	0.00	3,343.09
MW - 5	05/08/03	3391.53	-	48.21	0.00	3,343.32
MW - 5	08/19/03	3391.53	-	48.42	0.00	3,343.11
MW - 5	11/07/03	3391.53	-	48.82	0.00	3,342.71
MW - 5	02/09/04	3391.53	-	47.56	0.00	3,343.97
MW - 5	05/04/04	3391.53	-	48.17	0.00	3,343.36
MW - 5	08/23/04	3391.53	-	48.89	0.00	3,342.64
MW - 5	12/04/04	3391.53	-	47.82	0.00	3,343.71
MW - 5	*03/07/05*	3391.53	-	47.14	0.00	3,344.39
MW - 5	*06/07/05*	3391.53	-	47.07	0.00	3,344.46
MW - 5	*0907/05*	3391.53	-	47.05	0.00	3,344.48
MW - 5	*12/14/05*	3391.53	-	46.60	0.00	3,344.93
MW - 5	*06/05/06*	3391.53	-	46.01	0.00	3,345.52
MW - 5	*09/11/06*	3391.53	-	46.47	0.00	3,345.06
MW - 5	*11/21/06*	3391.53	-	46.63	0.00	3,344.90
MW - 5	*02/20/07*	3391.53	-	46.35	0.00	3,345.18
MW - 5	*05/15/07*	3391.53	-	46.50	0.00	3,345.03
MW - 5	*08/09/07*	3391.53	-	46.27	0.00	3,345.26
MW - 5	*11/13/07*	3391.53	-	46.39	0.00	3,345.14
MW - 5	*02/14/08*	3391.53	-	44.55	0.00	3,346.98
MW - 5	*05/16/08*	3391.53	-	46.04	0.00	3,345.49

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	*08/19/08*	3391.53	-	46.53	0.00	3,345.00
MW - 5	*11/19/08*	3391.53	-	46.55	0.00	3,344.98
MW - 5	*02/18/09*	3391.53	-	46.01	0.00	3,345.52
MW - 5	*05/19/09*	3391.53	-	46.61	0.00	3,344.92
MW - 5	*08/13/09*	3391.53	-	46.83	0.00	3,344.70
MW - 5	*11/11/09*	3391.53	-	46.89	0.00	3,344.64
MW - 5	01/12/10	3391.53	-	46.87	0.00	3,344.66
MW - 5	*02/04/10*	3391.53	-	46.93	0.00	3,344.60
MW - 5	*05/07/10*	3391.53	-	46.92	0.00	3,344.61
MW - 5	*08/06/10*	3391.53	-	46.92	0.00	3,344.61
MW - 5	*11/05/10*	3391.53	-	46.94	0.00	3,344.59
MW - 5	*02/11/11*	3391.53	-	46.96	0.00	3,344.57
MW - 5	*05/09/11*	3391.53	-	46.95	0.00	3,344.58
MW - 5	*08/05/11*	3391.53	-	46.97	0.00	3,344.56
MW - 5	*11/17/11*	3391.53	-	48.10	0.00	3,343.43
MW - 5	*02/28/12*	3391.53	-	47.92	0.00	3,343.61
MW - 5	*05/03/12*	3391.53	-	47.88	0.00	3,343.65
MW - 5	*08/24/12*	3391.53	-	48.21	0.00	3,343.32
MW - 5	*11/15/12*	3391.53	-	48.14	0.00	3,343.39
MW - 5	*02/14/13*	3391.53	-	47.98	0.00	3,343.55
MW - 5	*05/28/13*	3391.53	-	47.90	0.00	3,343.63
MW - 5	*08/06/13*	3391.53	-	48.22	0.00	3,343.31
MW - 5	*11/07/13*	3391.53	-	48.56	0.00	3,342.97
MW - 5	*03/05/14*	3391.53	-	48.50	0.00	3,343.03
MW - 5	*05/29/14*	3391.53	-	48.51	0.00	3,343.02
MW - 5	07/23/14	3391.53	-	48.76	0.00	3,342.77
MW - 5	*08/12/14*	3391.53	-	48.80	0.00	3,342.73
MW - 5	10/28/14	3391.53	-	48.67	0.00	3,342.86
MW - 5	*11/15/14*	3391.53	-	48.54	0.00	3,342.99
MW - 6	11/29/99	3391.14	-	46.45	0.00	3,344.69
MW - 6	03/09/00	3391.14	-	47.36	0.00	3,343.78
MW - 6	05/11/00	3391.14	-	47.21	0.00	3,343.93
MW - 6	09/12/00	3391.14	-	47.14	0.00	3,344.00
MW - 6	12/14/00	3391.14	-	46.71	0.00	3,344.43
MW - 6	03/21/01	3391.14	-	46.40	0.00	3,344.74
MW - 6	05/30/01	3391.14	-	47.05	0.00	3,344.09
MW - 6	06/21/01	3391.14	-	47.46	0.00	3,343.68
MW - 6	09/25/01	3391.14	-	47.59	0.00	3,343.55
MW - 6	11/17/01	3391.14	-	47.15	0.00	3,343.99
MW - 6	02/20/02	3391.14	-	46.88	0.00	3,344.26
MW - 6	05/20/02	3391.14	-	47.48	0.00	3,343.66
MW - 6	09/24/02	3391.14	-	48.38	0.00	3,342.76
MW - 6	10/29/02	3391.14	-	48.65	0.00	3,342.49
MW - 6	11/13/02	3391.14	-	48.78	0.00	3,342.36
MW - 6	02/06/03	3391.14	-	48.70	0.00	3,342.44
MW - 6	05/08/03	3391.14	-	48.42	0.00	3,342.72

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 6	08/19/03	3391.14	-	48.68	0.00	3,342.46
MW - 6	11/07/03	3391.14	-	48.92	0.00	3,342.22
MW - 6	12/04/04	3391.14	-	47.55	0.00	3,343.59
MW - 6	*03/07/05*	3391.14	-	47.05	0.00	3,344.09
MW - 6	*06/07/05*	3391.14	-	47.20	0.00	3,343.94
MW - 6	*09/07/05*	3391.14	-	47.28	0.00	3,343.86
MW - 6	*12/14/05*	3391.14	-	46.51	0.00	3,344.63
MW - 6	*06/05/06*	3391.14	-	45.99	0.00	3,345.15
MW - 6	*09/11/06*	3391.14	-	46.62	0.00	3,344.52
MW - 6	*11/21/06*	3391.14	-	46.68	0.00	3,344.46
MW - 6	*02/20/07*	3391.14	-	46.54	0.00	3,344.60
MW - 6	*05/15/07*	3391.14	-	46.77	0.00	3,344.37
MW - 6	*06/21/07*	3391.14	-	46.74	0.00	3,344.40
MW - 6	*08/09/07*	3391.14	-	46.46	0.00	3,344.68
MW - 6	*11/13/07*	3391.14	-	46.74	0.00	3,344.40
MW - 6	*02/14/08*	3391.14	-	46.91	0.00	3,344.23
MW - 6	*05/16/08*	3391.14	-	46.33	0.00	3,344.81
MW - 6	*08/19/08*	3391.14	-	46.89	0.00	3,344.25
MW - 6	*11/19/08*	3391.14	-	46.98	0.00	3,344.16
MW - 6	*02/18/09*	3391.14	-	45.17	0.00	3,345.97
MW - 6	*05/19/09*	3391.14	-	47.02	0.00	3,344.12
MW - 6	*08/13/09*	3391.14	-	47.20	0.00	3,343.94
MW - 6	*11/11/09*	3391.14	-	47.26	0.00	3,343.88
MW - 6	01/12/10	3391.14	-	47.27	0.00	3,343.87
MW - 6	*02/04/10*	3391.14	-	47.39	0.00	3,343.75
MW - 6	*05/07/10*	3391.14	-	47.33	0.00	3,343.81
MW - 6	*08/06/10*	3391.14	-	47.33	0.00	3,343.81
MW - 6	*11/05/10*	3391.14	-	47.33	0.00	3,343.81
MW - 6	*02/11/11*	3391.14	-	47.32	0.00	3,343.82
MW - 6	*05/09/11*	3391.14	-	47.32	0.00	3,343.82
MW - 6	*08/05/11*	3391.14	-	47.30	0.00	3,343.84
MW - 6	*11/17/11*	3391.14	-	48.68	0.00	3,342.46
MW - 6	*02/28/12*	3391.14	-	48.38	0.00	3,342.76
MW - 6	*05/03/12*	3391.14	-	48.41	0.00	3,342.73
MW - 6	*08/24/12*	3391.14	-	48.68	0.00	3,342.46
MW - 6	*11/15/12*	3391.14	-	48.61	0.00	3,342.53
MW - 6	*02/14/13*	3391.14	-	48.48	0.00	3,342.66
MW - 6	*05/28/13*	3391.14	-	48.42	0.00	3,342.72
MW - 6	*08/06/13*	3391.14	-	48.79	0.00	3,342.35
MW - 6	*11/07/13*	3391.14	-	49.12	0.00	3,342.02
MW - 6	*03/05/14*	3391.14	-	49.15	0.00	3,341.99
MW - 6	*05/29/14*	3391.14	-	49.17	0.00	3,341.97
MW - 6	*07/23/14*	3391.14	-	49.43	0.00	3,341.71
MW - 6	*08/12/14*	3391.14	-	49.46	0.00	3,341.68
MW - 6	*10/28/14*	3391.14	-	49.24	0.00	3,341.90
MW - 6	*11/15/14*	3391.14	-	49.12	0.00	3,342.02

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	11/29/99	3391.21	-	46.52	0.00	3,344.69
MW - 7	03/09/00	3391.21	-	47.41	0.00	3,343.80
MW - 7	05/11/00	3391.21	-	47.31	0.00	3,343.90
MW - 7	09/12/00	3391.21	-	47.23	0.00	3,343.98
MW - 7	12/14/00	3391.21	-	46.75	0.00	3,344.46
MW - 7	03/21/01	3391.21	-	46.49	0.00	3,344.72
MW - 7	05/30/01	3391.21	-	47.12	0.00	3,344.09
MW - 7	06/21/01	3391.21	-	47.52	0.00	3,343.69
MW - 7	09/25/01	3391.21	-	47.48	0.00	3,343.73
MW - 7	11/17/01	3391.21	-	47.08	0.00	3,344.13
MW - 7	02/20/02	3391.21	-	46.82	0.00	3,344.39
MW - 7	05/20/02	3391.21	-	47.44	0.00	3,343.77
MW - 7	09/24/02	3391.21	-	48.32	0.00	3,342.89
MW - 7	10/29/02	3391.21	-	48.59	0.00	3,342.62
MW - 7	11/13/02	3391.21	-	48.70	0.00	3,342.51
MW - 7	02/06/03	3391.21	-	48.70	0.00	3,342.51
MW - 7	05/08/03	3391.21	-	48.38	0.00	3,342.83
MW - 7	08/19/03	3391.21	-	48.63	0.00	3,342.58
MW - 7	11/07/03	3391.21	-	48.87	0.00	3,342.34
MW - 7	02/09/04	3391.21	-	47.46	0.00	3,343.75
MW - 7	05/04/04	3391.21	-	48.28	0.00	3,342.93
MW - 7	08/23/04	3391.21	-	49.19	0.00	3,342.02
MW - 7	12/04/04	3391.21	-	47.54	0.00	3,343.67
MW - 7	*03/07/05*	3391.21	-	47.00	0.00	3,344.21
MW - 7	*06/07/05*	3391.21	-	47.14	0.00	3,344.07
MW - 7	*09/07/05*	3391.21	-	47.22	0.00	3,343.99
MW - 7	*12/14/05*	3391.21	-	46.48	0.00	3,344.73
MW - 7	*06/05/06*	3391.21	-	45.98	0.00	3,345.23
MW - 7	*09/11/06*	3391.21	-	46.58	0.00	3,344.63
MW - 7	*11/21/06*	3391.21	-	46.61	0.00	3,344.60
MW - 7	*02/20/07*	3391.21	-	46.48	0.00	3,344.73
MW - 7	*05/15/07*	3391.21	-	46.69	0.00	3,344.52
MW - 7	*06/21/07*	3391.21	-	46.71	0.00	3,344.50
MW - 7	*08/09/07*	3391.21	-	46.39	0.00	3,344.82
MW - 7	*11/13/07*	3391.21	-	46.64	0.00	3,344.57
MW - 7	*02/14/08*	3391.21	-	46.86	0.00	3,344.35
MW - 7	*05/16/08*	3391.21	-	46.26	0.00	3,344.95
MW - 7	*08/19/08*	3391.21	-	46.81	0.00	3,344.40
MW - 7	*11/19/08*	3391.21	-	46.87	0.00	3,344.34
MW - 7	*02/18/09*	3391.21	-	46.12	0.00	3,345.09
MW - 7	*05/19/09*	3391.21	-	46.93	0.00	3,344.28
MW - 7	*08/13/09*	3391.21	-	47.11	0.00	3,344.10
MW - 7	*11/11/09*	3391.21	-	47.17	0.00	3,344.04
MW - 7	01/12/10	3391.21	-	47.19	0.00	3,344.02
MW - 7	*02/04/10*	3391.21	-	47.30	0.00	3,343.91
MW - 7	*05/07/10*	3391.21	-	47.28	0.00	3,343.93
MW - 7	*08/06/10*	3391.21	-	47.29	0.00	3,343.92

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	*11/05/10*	3391.21	-	47.28	0.00	3,343.93
MW - 7	*02/11/11*	3391.21	-	47.28	0.00	3,343.93
MW - 7	*05/09/11*	3391.21	-	47.26	0.00	3,343.95
MW - 7	*08/05/11*	3391.21	-	47.29	0.00	3,343.92
MW - 7	*11/17/11*	3391.21	-	48.58	0.00	3,342.63
MW - 7	*02/28/12*	3391.21	-	48.30	0.00	3,342.91
MW - 7	*05/03/12*	3391.21	-	48.32	0.00	3,342.89
MW - 7	*08/24/12*	3391.21	-	48.59	0.00	3,342.62
MW - 7	*11/15/12*	3391.21	-	48.52	0.00	3,342.69
MW - 7	*02/14/13*	3391.21	-	48.36	0.00	3,342.85
MW - 7	*05/28/13*	3391.21	-	48.32	0.00	3,342.89
MW - 7	*08/06/13*	3391.21	-	48.69	0.00	3,342.52
MW - 7	*11/07/13*	3391.21	-	49.04	0.00	3,342.17
MW - 7	*03/05/14*	3391.21	-	49.04	0.00	3,342.17
MW - 7	*05/29/14*	3391.21	-	49.07	0.00	3,342.14
MW - 7	*07/23/14*	3391.21	-	49.32	0.00	3,341.89
MW - 7	*08/12/14*	3391.21	-	49.36	0.00	3,341.85
MW - 7	*10/28/14*	3391.21	-	49.14	0.00	3,342.07
MW - 7	*11/15/14*	3391.21	-	49.02	0.00	3,342.19
MW - 8	11/29/99	3391.14	-	46.42	0.00	3,344.72
MW - 8	03/09/00	3391.14	-	47.37	0.00	3,343.77
MW - 8	05/11/00	3391.14	-	47.20	0.00	3,343.94
MW - 8	09/12/00	3391.14	-	47.11	0.00	3,344.03
MW - 8	12/14/00	3391.14	-	46.75	0.00	3,344.39
MW - 8	03/21/01	3391.14	-	46.38	0.00	3,344.76
MW - 8	05/30/01	3391.14	-	47.16	0.00	3,343.98
MW - 8	06/21/01	3391.14	-	47.42	0.00	3,343.72
MW - 8	09/25/01	3391.14	-	47.50	0.00	3,343.64
MW - 8	11/17/01	3391.14	-	47.05	0.00	3,344.09
MW - 8	02/20/02	3391.14	-	46.80	0.00	3,344.34
MW - 8	05/20/02	3391.14	-	47.38	0.00	3,343.76
MW - 8	09/24/02	3391.14	-	48.29	0.00	3,342.85
MW - 8	10/29/02	3391.14	-	48.58	0.00	3,342.56
MW - 8	11/13/02	3391.14	-	48.69	0.00	3,342.45
MW - 8	02/06/03	3391.14	-	48.68	0.00	3,342.46
MW - 8	05/08/03	3391.14	-	48.33	0.00	3,342.81
MW - 8	08/19/03	3391.14	-	48.58	0.00	3,342.56
MW - 8	11/07/03	3391.14	-	48.84	0.00	3,342.30
MW - 8	02/09/04	3391.14	-	47.46	0.00	3,343.68
MW - 8	05/04/04	3391.14	-	48.25	0.00	3,342.89
MW - 8	08/23/04	3391.14	-	49.15	0.00	3,341.99
MW - 8	12/04/04	3391.14	-	47.50	0.00	3,343.64
MW - 8	*03/07/05*	3391.14	-	46.97	0.00	3,344.17
MW - 8	*06/07/05*	3391.14	-	47.12	0.00	3,344.02
MW - 8	*09/07/05*	3391.14	-	47.19	0.00	3,343.95
MW - 8	*12/14/05*	3391.14	-	46.47	0.00	3,344.67

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 8	*06/05/06*	3391.14	-	47.89	0.00	3,343.25
MW - 8	*09/11/06*	3391.14	-	46.54	0.00	3,344.60
MW - 8	*11/21/06*	3391.14	-	46.63	0.00	3,344.51
MW - 8	*02/20/07*	3391.14	-	46.44	0.00	3,344.70
MW - 8	*05/15/07*	3391.14	-	46.69	0.00	3,344.45
MW - 8	*08/09/07*	3391.14	-	46.40	0.00	3,344.74
MW - 8	*11/13/07*	3391.14	-	46.67	0.00	3,344.47
MW - 8	*02/14/08*	3391.14	-	46.84	0.00	3,344.30
MW - 8	*05/16/08*	3391.14	-	46.23	0.00	3,344.91
MW - 8	*08/19/08*	3391.14	-	46.81	0.00	3,344.33
MW - 8	*11/19/08*	3391.14	-	46.91	0.00	3,344.23
MW - 8	*02/18/09*	3391.14	-	46.09	0.00	3,345.05
MW - 8	*05/19/09*	3391.14	-	46.93	0.00	3,344.21
MW - 8	*08/13/09*	3391.14	-	47.13	0.00	3,344.01
MW - 8	*11/11/09*	3391.14	-	47.20	0.00	3,343.94
MW - 8	01/12/10	3391.14	-	47.18	0.00	3,343.96
MW - 8	*02/04/10*	3391.14	-	47.31	0.00	3,343.83
MW - 8	*05/07/10*	3391.14	-	47.43	0.00	3,343.71
MW - 8	*08/06/10*	3391.14	-	47.42	0.00	3,343.72
MW - 8	*11/05/10*	3391.14	-	47.41	0.00	3,343.73
MW - 8	*02/11/11*	3391.14	-	47.40	0.00	3,343.74
MW - 8	*05/09/11*	3391.14	-	47.38	0.00	3,343.76
MW - 8	*08/05/11*	3391.14	-	47.39	0.00	3,343.75
MW - 8	*11/17/11*	3391.14	-	48.58	0.00	3,342.56
MW - 8	*02/28/12*	3391.14	-	48.32	0.00	3,342.82
MW - 8	*05/03/12*	3391.14	-	48.35	0.00	3,342.79
MW - 8	*08/24/12*	3391.14	-	48.61	0.00	3,342.53
MW - 8	*11/15/12*	3391.14	-	48.53	0.00	3,342.61
MW - 8	*02/14/13*	3391.14	-	48.39	0.00	3,342.75
MW - 8	*05/28/13*	3391.14	-	48.34	0.00	3,342.80
MW - 8	*08/06/13*	3391.14	-	48.11	0.00	3,343.03
MW - 8	*11/07/13*	3391.14	-	49.06	0.00	3,342.08
MW - 8	*03/05/14*	3391.14	-	49.09	0.00	3,342.05
MW - 8	*05/29/14*	3391.14	-	49.10	0.00	3,342.04
MW - 8	*07/23/14*	3391.14	-	49.36	0.00	3,341.78
MW - 8	*08/12/14*	3391.14	-	49.37	0.00	3,341.77
MW - 8	*10/28/14*	3391.14	-	49.17	0.00	3,341.97
MW - 8	*11/15/14*	3391.14	-	49.06	0.00	3,342.08
MW - 9	11/29/99	3391.47	-	46.65	0.00	3,344.82
MW - 9	03/09/00	3391.47	-	47.56	0.00	3,343.91
MW - 9	05/11/00	3391.47	-	47.44	0.00	3,344.03
MW - 9	09/12/00	3391.47	-	47.38	0.00	3,344.09
MW - 9	12/14/00	3391.47	-	46.86	0.00	3,344.61
MW - 9	03/21/01	3391.47	-	46.61	0.00	3,344.86
MW - 9	05/30/01	3391.47	-	47.33	0.00	3,344.14
MW - 9	06/21/01	3391.47	-	47.50	0.00	3,343.97

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	09/25/01	3391.47	-	47.55	0.00	3,343.92
MW - 9	11/17/01	3391.47	-	47.21	0.00	3,344.26
MW - 9	02/20/02	3391.47	-	47.03	0.00	3,344.44
MW - 9	05/20/02	3391.47	-	47.58	0.00	3,343.89
MW - 9	09/24/02	3391.47	48.27	48.88	0.61	3,343.11
MW - 9	10/29/02	3391.47	48.48	49.18	0.70	3,342.89
MW - 9	11/06/02	3391.47	48.62	49.06	0.44	3,342.78
MW - 9	11/13/02	3391.47	48.95	49.08	0.13	3,342.50
MW - 9	01/07/03	3391.47	sheen	48.69	0.00	3,342.78
MW - 9	01/13/03	3391.47	sheen	48.67	0.00	3,342.80
MW - 9	01/27/03	3391.47	48.80	48.83	0.03	3,342.67
MW - 9	02/06/03	3391.47	48.90	49.00	0.10	3,342.56
MW - 9	03/11/03	3391.47	sheen	48.57	0.00	3,342.90
MW - 9	03/19/03	3391.47	sheen	48.29	0.00	3,343.18
MW - 9	04/02/03	3391.47	sheen	48.27	0.00	3,343.20
MW - 9	04/16/03	3391.47	sheen	48.45	0.00	3,343.02
MW - 9	04/23/03	3391.47	sheen	48.31	0.00	3,343.16
MW - 9	04/29/03	3391.47	sheen	48.35	0.00	3,343.12
MW - 9	05/08/03	3391.47	sheen	48.44	0.00	3,343.03
MW - 9	05/15/03	3391.47	sheen	48.74	0.00	3,342.73
MW - 9	05/20/03	3391.47	sheen	48.91	0.00	3,342.56
MW - 9	05/27/03	3391.47	sheen	48.99	0.00	3,342.48
MW - 9	06/03/03	3391.47	48.84	48.85	0.01	3,342.63
MW - 9	06/10/03	3391.47	49.10	49.12	0.02	3,342.37
MW - 9	06/25/03	3391.47	49.14	49.19	0.05	3,342.32
MW - 9	07/02/03	3391.47	49.19	49.21	0.02	3,342.28
MW - 9	07/07/03	3391.47	49.18	49.19	0.01	3,342.29
MW - 9	07/22/03	3391.47	sheen	48.81	0.00	3,342.66
MW - 9	07/30/03	3391.47	sheen	48.57	0.00	3,342.90
MW - 9	08/06/03	3391.47	sheen	48.53	0.00	3,342.94
MW - 9	08/13/03	3391.47	sheen	48.97	0.00	3,342.50
MW - 9	08/19/03	3391.47	sheen	48.69	0.00	3,342.78
MW - 9	08/20/03	3391.47	sheen	49.09	0.00	3,342.38
MW - 9	08/25/03	3391.47	sheen	49.17	0.00	3,342.30
MW - 9	09/08/03	3391.47	sheen	49.58	0.00	3,341.89
MW - 9	09/15/03	3391.47	sheen	49.55	0.00	3,341.92
MW - 9	09/24/03	3391.47	sheen	49.90	0.00	3,341.57
MW - 9	09/30/03	3391.47	sheen	49.51	0.00	3,341.96
MW - 9	10/07/03	3391.47	sheen	49.70	0.00	3,341.77
MW - 9	10/22/03	3391.47	sheen	49.40	0.00	3,342.07
MW - 9	10/27/03	3391.47	sheen	49.31	0.00	3,342.16
MW - 9	11/07/03	3391.47	49.70	49.71	0.01	3,341.77
MW - 9	11/10/03	3391.47	sheen	49.52	0.00	3,341.95
MW - 9	11/17/03	3391.47	sheen	48.82	0.00	3,342.65
MW - 9	12/08/03	3391.47	sheen	48.13	0.00	3,343.34
MW - 9	12/17/03	3391.47	sheen	48.81	0.00	3,342.66
MW - 9	12/22/03	3391.47	49.62	49.63	0.01	3,341.85

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	01/02/04	3391.47	sheen	47.55	0.00	3,343.92
MW - 9	01/06/04	3391.47	sheen	49.61	0.00	3,341.86
MW - 9	01/19/04	3391.47	sheen	48.05	0.00	3,343.42
MW - 9	01/26/04	3391.47	sheen	48.10	0.00	3,343.37
MW - 9	02/02/04	3391.47	sheen	48.04	0.00	3,343.43
MW - 9	02/09/04	3391.47	sheen	47.63	0.00	3,343.84
MW - 9	02/19/04	3391.47	sheen	47.75	0.00	3,343.72
MW - 9	02/23/04	3391.47	sheen	47.65	0.00	3,343.82
MW - 9	03/01/04	3391.47	sheen	47.61	0.00	3,343.86
MW - 9	03/10/04	3391.47	sheen	47.64	0.00	3,343.83
MW - 9	03/15/04	3391.47	sheen	48.20	0.00	3,343.27
MW - 9	03/23/04	3391.47	sheen	48.61	0.00	3,342.86
MW - 9	03/30/04	3391.47	sheen	48.22	0.00	3,343.25
MW - 9	04/12/04	3391.47	sheen	48.76	0.00	3,342.71
MW - 9	04/20/04	3391.47	sheen	48.31	0.00	3,343.16
MW - 9	05/03/04	3391.47	sheen	48.75	0.00	3,342.72
MW - 9	05/04/04	3391.47	sheen	48.75	0.00	3,342.72
MW - 9	06/09/04	3391.47	sheen	48.71	0.00	3,342.76
MW - 9	06/16/04	3391.47	sheen	48.74	0.00	3,342.73
MW - 9	06/23/04	3391.47	sheen	48.78	0.00	3,342.69
MW - 9	06/30/04	3391.47	sheen	48.14	0.00	3,343.33
MW - 9	07/13/04	3391.47	sheen	48.97	0.00	3,342.50
MW - 9	07/22/04	3391.47	sheen	49.07	0.00	3,342.40
MW - 9	08/23/04	3391.47	-	49.26	0.00	3,342.21
MW - 9	12/04/04	3391.47	-	48.73	0.00	3,342.74
MW - 9	*03/07/05*	3391.47	-	47.25	0.00	3,344.22
MW - 9	*06/07/05*	3391.47	sheen	47.23	0.00	3,344.24
MW - 9	*09/07/05*	3391.47	sheen	47.23	0.00	3,344.24
MW - 9	*12/14/05*	3391.47	-	46.65	0.00	3,344.82
MW - 9	*03/06/06*	3391.47	sheen	46.43	0.00	3,345.04
MW - 9	*04/13/06*	3391.47	sheen	46.25	0.00	3,345.22
MW - 9	04/19/06	3391.47	sheen	46.40	0.00	3,345.07
MW - 9	05/25/06	3391.47	sheen	46.17	0.00	3,345.30
MW - 9	*06/05/06*	3391.47	-	46.12	0.00	3,345.35
MW - 9	*09/11/06*	3391.47	-	46.66	0.00	3,344.81
MW - 9	10/31/06	3391.47	sheen	46.88	0.00	3,344.59
MW - 9	11/16/06	3391.47	sheen	46.69	0.00	3,344.78
MW - 9	*11/21/06*	3391.47	sheen	46.68	0.00	3,344.79
MW - 9	01/26/07	3391.47	sheen	46.58	0.00	3,344.89
MW - 9	01/31/07	3391.47	sheen	46.47	0.00	3,345.00
MW - 9	02/15/07	3391.47	-	46.54	0.00	3,344.93
MW - 9	*02/20/07*	3391.47	-	46.49	0.00	3,344.98
MW - 9	*05/15/07*	3391.47	-	46.66	0.00	3,344.81
MW - 9	*08/09/07*	3391.47	-	46.40	0.00	3,345.07
MW - 9	*11/13/07*	3391.47	-	46.61	0.00	3,344.86
MW - 9	*02/14/08*	3391.47	-	46.73	0.00	3,344.74
MW - 9	*05/16/08*	3391.47	-	46.25	0.00	3,345.22

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	*08/19/08*	3391.47	-	46.76	0.00	3,344.71
MW - 9	*10/09/08*	3391.47	-	46.93	0.00	3,344.54
MW - 9	10/23/08	3391.47	-	46.89	0.00	3,344.58
MW - 9	10/28/08	3391.47	-	46.88	0.00	3,344.59
MW - 9	*11/19/08*	3391.47	-	46.83	0.00	3,344.64
MW - 9	11/24/08	3391.47	-	46.91	0.00	3,344.56
MW - 9	12/29/08	3391.47	-	-	-	-
MW - 9	*02/18/09*	3391.47	-	46.15	0.00	3,345.32
MW - 9	03/03/09	3391.47	-	46.28	0.00	3,345.19
MW - 9	03/10/09	3391.47	-	46.38	0.00	3,345.09
MW - 9	03/18/09	3391.47	-	46.44	0.00	3,345.03
MW - 9	03/27/09	3391.47	-	46.45	0.00	3,345.02
MW - 9	04/07/09	3391.47	-	46.62	0.00	3,344.85
MW - 9	04/14/09	3391.47	-	46.64	0.00	3,344.83
MW - 9	04/28/09	3391.47	-	46.77	0.00	3,344.70
MW - 9	*05/19/09*	3391.47	-	46.89	0.00	3,344.58
MW - 9	06/18/09	3391.47	-	47.09	0.00	3,344.38
MW - 9	06/30/09	3391.47	-	46.26	0.00	3,345.21
MW - 9	07/07/09	3391.47	-	47.09	0.00	3,344.38
MW - 9	07/14/09	3391.47	-	47.10	0.00	3,344.37
MW - 9	07/28/09	3391.47	-	47.12	0.00	3,344.35
MW - 9	08/07/09	3391.47	-	47.14	0.00	3,344.33
MW - 9	*08/13/09*	3391.47	-	47.05	0.00	3,344.42
MW - 9	09/10/09	3391.47	-	47.10	0.00	3,344.37
MW - 9	09/18/09	3391.47	-	47.17	0.00	3,344.30
MW - 9	09/29/09	3391.47	-	47.14	0.00	3,344.33
MW - 9	10/06/09	3391.47	-	47.13	0.00	3,344.34
MW - 9	10/20/09	3391.47	-	47.11	0.00	3,344.36
MW - 9	10/27/09	3391.47	-	47.10	0.00	3,344.37
MW - 9	*11/11/09*	3391.47	-	47.16	0.00	3,344.31
MW - 9	12/22/09	3391.47	-	47.09	0.00	3,344.38
MW - 9	01/12/10	3391.47	-	47.11	0.00	3,344.36
MW - 9	*02/04/10*	3391.47	-	47.24	0.00	3,344.23
MW - 9	03/03/10	3391.47	-	47.44	0.00	3,344.03
MW - 9	04/15/10	3391.47	-	47.48	0.00	3,343.99
MW - 9	05/07/10	3391.47	-	47.32	0.00	3,344.15
MW - 9	06/25/10	3391.47	-	47.45	0.00	3,344.02
MW - 9	*08/06/10*	3391.47	-	47.31	0.00	3,344.16
MW - 9	*11/05/10*	3391.47	-	47.30	0.00	3,344.17
MW - 9	*02/11/11*	3391.47	-	47.33	0.00	3,344.14
MW - 9	*05/09/11*	3391.47	-	47.30	0.00	3,344.17
MW - 9	*08/05/11*	3391.47	-	47.30	0.00	3,344.17
MW - 9	*11/17/11*	3391.47	-	48.53	0.00	3,342.94
MW - 9	*02/28/12*	3391.47	-	48.26	0.00	3,343.21
MW - 9	*05/03/12*	3391.47	-	48.23	0.00	3,343.24
MW - 9	*08/24/12*	3391.47	-	48.58	0.00	3,342.89
MW - 9	*11/15/12*	3391.47	-	48.39	0.00	3,343.08

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	*01/14/13*	3391.47	-	48.27	0.00	3,343.20
MW - 9	02/14/13	3391.47	-	48.23	0.00	3,343.24
MW - 9	03/29/13	3391.47	-	48.17	0.00	3,343.30
MW - 9	04/19/13	3391.47	-	48.19	0.00	3,343.28
MW - 9	04/30/13	3391.47	-	48.14	0.00	3,343.33
MW - 9	05/23/13	3391.47	-	48.24	0.00	3,343.23
MW - 9	*05/28/13*	3391.47	-	48.20	0.00	3,343.27
MW - 9	05/30/13	3391.47	-	48.21	0.00	3,343.26
MW - 9	06/06/13	3391.47	-	48.32	0.00	3,343.15
MW - 9	06/13/13	3391.47	-	48.35	0.00	3,343.12
MW - 9	06/19/13	3391.47	-	48.31	0.00	3,343.16
MW - 9	07/30/13	3391.47	-	48.58	0.00	3,342.89
MW - 9	08/06/13	3391.47	-	48.54	0.00	3,342.93
MW - 9	08/09/13	3391.47	-	48.63	0.00	3,342.84
MW - 9	08/30/13	3391.47	-	48.69	0.00	3,342.78
MW - 9	09/12/13	3391.47	-	48.73	0.00	3,342.74
MW - 9	10/03/13	3391.47	-	48.74	0.00	3,342.73
MW - 9	11/01/13	3391.47	-	48.85	0.00	3,342.62
MW - 9	*11/07/13*	3391.47	-	48.87	0.00	3,342.60
MW - 9	12/10/13	3391.47	-	48.80	0.00	3,342.67
MW - 9	01/01/14	3391.47	-	48.70	0.00	3,342.77
MW - 9	01/16/14	3391.47	-	48.75	0.00	3,342.72
MW - 9	01/23/14	3391.47	-	48.88	0.00	3,342.59
MW - 9	01/28/14	3391.47	-	48.90	0.00	3,342.57
MW - 9	02/11/14	3391.47	-	48.86	0.00	3,342.61
MW - 9	*03/05/14*	3391.47	-	48.82	0.00	3,342.65
MW - 9	03/13/14	3391.47	-	48.84	0.00	3,342.63
MW - 9	03/29/14	3391.47	-	48.79	0.00	3,342.68
MW - 9	04/08/14	3391.47	-	48.85	0.00	3,342.62
MW - 9	04/17/14	3391.47	-	48.81	0.00	3,342.66
MW - 9	04/25/14	3391.47	-	48.73	0.00	3,342.74
MW - 9	05/08/14	3391.47	-	48.72	0.00	3,342.75
MW - 9	05/14/14	3391.47	-	48.70	0.00	3,342.77
MW - 9	05/27/14	3391.47	-	48.81	0.00	3,342.66
MW - 9	*05/29/14*	3391.47	-	48.82	0.00	3,342.65
MW - 9	06/18/14	3391.47	-	48.77	0.00	3,342.70
MW - 9	07/23/14	3391.47	-	49.10	0.00	3,342.37
MW - 9	*08/12/14*	3391.47	-	49.13	0.00	3,342.34
MW - 9	10/28/14	3391.47	-	48.97	0.00	3,342.50
MW - 9	*11/15/14*	3391.47	-	48.85	0.00	3,342.62
MW - 10	11/29/99	3391.26	46.26	47.23	0.97	3,344.85
MW - 10	03/09/00	3391.26	47.17	48.59	1.42	3,343.88
MW - 10	05/11/00	3391.26	46.67	47.69	1.02	3,344.44
MW - 10	09/12/00	3391.26	46.86	47.51	0.65	3,344.30
MW - 10	12/14/00	3391.26	46.61	47.51	0.90	3,344.52
MW - 10	03/21/01	3391.26	47.17	48.59	1.42	3,343.88

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	05/30/01	3391.26	46.99	48.40	1.41	3,344.06
MW - 10	09/25/01	3391.26	47.18	49.57	2.39	3,343.72
MW - 10	11/17/01	3391.26	46.61	47.51	0.90	3,344.52
MW - 10	02/20/02	3391.26	46.76	47.88	1.12	3,344.33
MW - 10	05/20/02	3391.26	47.44	47.61	0.17	3,343.79
MW - 10	09/24/02	3391.26	47.81	50.60	2.79	3,343.03
MW - 10	10/29/02	3391.26	48.01	50.77	2.76	3,342.84
MW - 10	11/06/02	3391.26	48.61	50.06	1.45	3,342.43
MW - 10	01/07/03	3391.26	48.52	48.55	0.03	3,342.74
MW - 10	01/13/03	3391.26	48.46	48.50	0.04	3,342.79
MW - 10	01/27/03	3391.26	48.30	50.03	1.73	3,342.70
MW - 10	02/06/03	3391.26	48.42	49.98	1.56	3,342.61
MW - 10	02/19/03	3391.26	48.25	49.92	1.67	3,342.76
MW - 10	03/05/03	3391.26	48.49	50.79	2.30	3,342.43
MW - 10	03/11/03	3391.26	48.00	48.75	0.75	3,343.15
MW - 10	03/19/03	3391.26	48.05	48.72	0.67	3,343.11
MW - 10	03/25/03	3391.26	46.14	47.92	1.78	3,344.85
MW - 10	04/02/03	3391.26	sheen	48.28	0.00	3,342.98
MW - 10	04/16/03	3391.26	sheen	48.32	0.00	3,342.94
MW - 10	04/23/03	3391.26	48.14	48.22	0.08	3,343.11
MW - 10	04/29/03	3391.26	48.13	48.41	0.28	3,343.09
MW - 10	05/08/03	3391.26	48.12	49.31	1.19	3,342.96
MW - 10	05/15/03	3391.26	48.24	49.84	1.60	3,342.78
MW - 10	05/20/03	3391.26	48.41	50.26	1.85	3,342.57
MW - 10	05/27/03	3391.26	48.53	49.42	0.89	3,342.60
MW - 10	06/03/03	3391.26	48.38	50.59	2.21	3,342.55
MW - 10	06/10/03	3391.26	48.67	50.07	1.40	3,342.38
MW - 10	06/25/03	3391.26	48.69	50.94	2.25	3,342.23
MW - 10	07/02/03	3391.26	48.82	51.06	2.24	3,342.10
MW - 10	07/07/03	3391.26	48.90	50.02	1.12	3,342.19
MW - 10	07/22/03	3391.26	48.59	48.97	0.38	3,342.61
MW - 10	07/30/03	3391.26	48.15	49.41	1.26	3,342.92
MW - 10	08/06/03	3391.26	48.30	48.49	0.19	3,342.93
MW - 10	08/13/03	3391.26	48.49	49.27	0.78	3,342.65
MW - 10	08/19/03	3391.26	48.43	49.26	0.83	3,342.71
MW - 10	08/20/03	3391.26	48.78	49.69	0.91	3,342.34
MW - 10	08/25/03	3391.26	48.87	50.05	1.18	3,342.21
MW - 10	09/08/03	3391.26	49.12	49.82	0.70	3,342.04
MW - 10	09/15/03	3391.26	49.10	49.91	0.81	3,342.04
MW - 10	09/24/03	3391.26	49.34	49.78	0.44	3,341.85
MW - 10	09/30/03	3391.26	49.10	50.45	1.35	3,341.96
MW - 10	10/07/03	3391.26	49.17	50.82	1.65	3,341.84
MW - 10	10/22/03	3391.26	49.00	50.74	1.74	3,342.00
MW - 10	10/27/03	3391.26	40.98	50.66	9.68	3,348.83
MW - 10	11/07/03	3391.26	49.14	50.78	1.64	3,341.87
MW - 10	11/10/03	3391.26	49.08	50.58	1.50	3,341.96
MW - 10	11/17/03	3391.26	48.49	49.49	1.00	3,342.62

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	12/08/03	3391.26	47.23	47.71	0.48	3,343.96
MW - 10	12/17/03	3391.26	48.47	49.53	1.06	3,342.63
MW - 10	12/22/03	3391.26	49.11	50.86	1.75	3,341.89
MW - 10	01/02/04	3391.26	47.25	47.26	0.01	3,344.01
MW - 10	01/06/04	3391.26	49.14	50.74	1.60	3,341.88
MW - 10	01/19/04	3391.26	-	47.81	0.00	3,343.45
MW - 10	01/26/04	3391.26	47.89	47.90	0.01	3,343.37
MW - 10	02/02/04	3391.26	47.87	47.87	0.00	3,343.39
MW - 10	02/09/04	3391.26	47.51	47.63	0.12	3,343.73
MW - 10	02/19/04	3391.26	47.60	47.60	0.00	3,343.66
MW - 10	02/23/04	3391.26	47.52	47.65	0.13	3,343.72
MW - 10	03/01/04	3391.26	47.50	47.61	0.11	3,343.74
MW - 10	03/10/04	3391.26	47.53	47.62	0.09	3,343.72
MW - 10	03/15/04	3391.26	-	48.87	0.00	3,342.39
MW - 10	03/23/04	3391.26	-	48.63	0.00	3,342.63
MW - 10	03/30/04	3391.26	48.69	48.70	0.01	3,342.57
MW - 10	04/12/04	3391.26	-	48.65	0.00	3,342.61
MW - 10	04/20/04	3391.26	-	48.08	0.00	3,343.18
MW - 10	05/03/04	3391.26	48.50	48.51	0.01	3,342.76
MW - 10	05/04/04	3391.26	-	48.51	0.00	3,342.75
MW - 10	06/09/04	3391.26	48.58	48.62	0.04	3,342.67
MW - 10	06/16/04	3391.26	48.59	48.61	0.02	3,342.67
MW - 10	06/23/04	3391.26	48.62	48.63	0.01	3,342.64
MW - 10	06/30/04	3391.26	48.57	48.58	0.01	3,342.69
MW - 10	07/13/04	3391.26	48.81	48.89	0.08	3,342.44
MW - 10	07/22/04	3391.26	48.93	49.10	0.17	3,342.30
MW - 10	08/23/04	3391.26	49.11	49.13	0.02	3,342.15
MW - 10	09/22/04	3391.26	sheen	49.25	0.00	3,342.01
MW - 10	09/29/04	3391.26	sheen	49.12	0.00	3,342.14
MW - 10	10/04/04	3391.26	sheen	48.45	0.00	3,342.81
MW - 10	10/11/04	3391.26	sheen	48.30	0.00	3,342.96
MW - 10	10/19/04	3391.26	sheen	48.35	0.00	3,342.91
MW - 10	10/25/04	3391.26	sheen	48.37	0.00	3,342.89
MW - 10	11/01/04	3391.26	sheen	48.58	0.00	3,342.68
MW - 10	11/09/04	3391.26	sheen	48.55	0.00	3,342.71
MW - 10	11/17/04	3391.26	sheen	48.89	0.00	3,342.37
MW - 10	11/22/04	3391.26	sheen	48.90	0.00	3,342.36
MW - 10	11/29/04	3391.26	48.02	48.19	0.17	3,343.21
MW - 10	12/04/04	3391.26	47.58	47.60	0.02	3,343.68
MW - 10	12/13/04	3391.26	sheen	47.34	0.00	3,343.92
MW - 10	12/20/04	3391.26	sheen	47.25	0.00	3,344.01
MW - 10	12/30/04	3391.26	sheen	46.96	0.00	3,344.30
MW - 10	01/03/05	3391.26	sheen	46.97	0.00	3,344.29
MW - 10	01/10/05	3391.26	sheen	47.17	0.00	3,344.09
MW - 10	01/17/05	3391.26	sheen	47.19	0.00	3,344.07
MW - 10	01/24/05	3391.26	sheen	47.22	0.00	3,344.04
MW - 10	01/31/05	3391.26	sheen	47.32	0.00	3,343.94

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	02/07/05	3391.26	sheen	47.26	0.00	3,344.00
MW - 10	02/14/05	3391.26	sheen	47.30	0.00	3,343.96
MW - 10	02/21/05	3391.26	sheen	47.31	0.00	3,343.95
MW - 10	02/28/05	3391.26	sheen	47.33	0.00	3,343.93
MW - 10	*03/07/05*	3391.26	-	47.17	0.00	3,344.09
MW - 10	03/07/05	3391.26	sheen	47.17	0.00	3,344.09
MW - 10	03/16/05	3391.26	sheen	47.00	0.00	3,344.26
MW - 10	03/21/05	3391.26	sheen	46.94	0.00	3,344.32
MW - 10	03/28/05	3391.26	sheen	47.07	0.00	3,344.19
MW - 10	04/04/05	3391.26	sheen	46.10	0.00	3,345.16
MW - 10	04/13/05	3391.26	sheen	46.13	0.00	3,345.13
MW - 10	04/18/05	3391.26	sheen	47.02	0.00	3,344.24
MW - 10	05/23/05	3391.26	sheen	47.30	0.00	3,343.96
MW - 10	*06/07/05*	3391.26	sheen	47.11	0.00	3,344.15
MW - 10	06/21/05	3391.26	sheen	47.27	0.00	3,343.99
MW - 10	07/26/05	3391.26	sheen	47.04	0.00	3,344.22
MW - 10	08/25/05	3391.26	sheen	47.14	0.00	3,344.12
MW - 10	*09/07/05*	3391.26	-	47.18	0.00	3,344.08
MW - 10	09/26/05	3391.26	sheen	47.25	0.00	3,344.01
MW - 10	11/14/05	3391.26	sheen	46.95	0.00	3,344.31
MW - 10	*12/14/05*	3391.26	-	46.52	0.00	3,344.74
MW - 10	01/01/00	3391.26	sheen	46.22	0.00	3,345.04
MW - 10	01/18/06	3391.26	sheen	46.33	0.00	3,344.93
MW - 10	02/15/06	3391.26	sheen	46.15	0.00	3,345.11
MW - 10	*03/06/06*	3391.26	sheen	46.27	0.00	3,344.99
MW - 10	03/20/06	3391.26	sheen	46.35	0.00	3,344.91
MW - 10	*04/13/06*	3391.26	sheen	46.13	0.00	3,345.13
MW - 10	04/19/06	3391.26	sheen	46.24	0.00	3,345.02
MW - 10	05/25/06	3391.26	sheen	45.98	0.00	3,345.28
MW - 10	*06/05/06*	3391.26	sheen	45.95	0.00	3,345.31
MW - 10	*09/11/06*	3391.26	sheen	46.49	0.00	3,344.77
MW - 10	10/31/06	3391.26	sheen	46.75	0.00	3,344.51
MW - 10	11/16/06	3391.26	sheen	46.58	0.00	3,344.68
MW - 10	*11/21/06*	3391.26	sheen	46.55	0.00	3,344.71
MW - 10	01/26/07	3391.26	sheen	46.45	0.00	3,344.81
MW - 10	01/31/07	3391.26	sheen	46.34	0.00	3,344.92
MW - 10	02/15/07	3391.26	-	46.39	0.00	3,344.87
MW - 10	*02/20/07*	3391.26	-	46.40	0.00	3,344.86
MW - 10	*05/15/07*	3391.26	sheen	46.61	0.00	3,344.65
MW - 10	*08/09/07*	3391.26	sheen	46.28	0.00	3,344.98
MW - 10	10/01/07	3391.26	sheen	46.58	0.00	3,344.68
MW - 10	10/12/07	3391.26	sheen	46.55	0.00	3,344.71
MW - 10	*11/13/07*	3391.26	sheen	46.62	0.00	3,344.64
MW - 10	*02/14/08*	3391.26	-	46.79	0.00	3,344.47
MW - 10	04/18/08	3391.26	-	45.88	0.00	3,345.38
MW - 10	*05/16/08*	3391.26	-	46.12	0.00	3,345.14
MW - 10	07/15/08	3391.26	-	46.56	0.00	3,344.70

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	07/16/08	3391.26	-	46.62	0.00	3,344.64
MW - 10	08/12/08	3391.26	-	46.65	0.00	3,344.61
MW - 10	*08/19/08*	3391.26	-	46.71	0.00	3,344.55
MW - 10	*10/09/08*	3391.26	-	46.90	0.00	3,344.36
MW - 10	10/23/08	3391.26	-	46.88	0.00	3,344.38
MW - 10	10/28/08	3391.26	-	46.84	0.00	3,344.42
MW - 10	*11/19/08*	3391.26	-	46.25	0.00	3,345.01
MW - 10	11/24/08	3391.26	-	47.10	0.00	3,344.16
MW - 10	12/17/08	3391.26	-	46.92	0.00	3,344.34
MW - 10	12/29/08	3391.26	sheen	-	-	-
MW - 10	*02/18/09*	3391.26	-	46.17	0.00	3,345.09
MW - 10	03/03/09	3391.26	-	46.11	0.00	3,345.15
MW - 10	03/10/09	3391.26	-	46.29	0.00	3,344.97
MW - 10	03/18/09	3391.26	-	46.38	0.00	3,344.88
MW - 10	03/27/09	3391.26	-	46.44	0.00	3,344.82
MW - 10	04/07/09	3391.26	-	46.54	0.00	3,344.72
MW - 10	04/14/09	3391.26	-	45.59	0.00	3,345.67
MW - 10	04/28/09	3391.26	-	46.68	0.00	3,344.58
MW - 10	*05/19/09*	3391.26	-	46.78	0.00	3,344.48
MW - 10	05/27/09	3391.26	-	46.86	0.00	3,344.40
MW - 10	06/04/09	3391.26	-	46.87	0.00	3,344.39
MW - 10	06/12/09	3391.26	-	46.93	0.00	3,344.33
MW - 10	06/18/09	3391.26	-	46.96	0.00	3,344.30
MW - 10	06/30/09	3391.26	-	46.13	0.00	3,345.13
MW - 10	07/07/09	3391.26	-	47.02	0.00	3,344.24
MW - 10	07/14/09	3391.26	-	47.04	0.00	3,344.22
MW - 10	07/21/09	3391.26	-	47.05	0.00	3,344.21
MW - 10	07/28/09	3391.26	-	47.04	0.00	3,344.22
MW - 10	08/07/09	3391.26	-	47.05	0.00	3,344.21
MW - 10	*08/13/09*	3391.26	-	47.01	0.00	3,344.25
MW - 10	08/21/09	3391.26	-	47.04	0.00	3,344.22
MW - 10	08/27/09	3391.26	-	47.08	0.00	3,344.18
MW - 10	09/10/09	3391.26	-	47.06	0.00	3,344.20
MW - 10	09/18/09	3391.26	-	47.09	0.00	3,344.17
MW - 10	09/29/09	3391.26	-	47.05	0.00	3,344.21
MW - 10	10/06/09	3391.26	-	47.07	0.00	3,344.19
MW - 10	10/20/09	3391.26	-	47.10	0.00	3,344.16
MW - 10	10/27/09	3391.26	-	47.11	0.00	3,344.15
MW - 10	*11/11/09*	3391.26	-	47.11	0.00	3,344.15
MW - 10	11/13/09	3391.26	-	47.00	0.00	3,344.26
MW - 10	12/08/09	3391.26	-	46.95	0.00	3,344.31
MW - 10	12/22/09	3391.26	-	47.11	0.00	3,344.15
MW - 10	01/12/10	3391.26	-	47.13	0.00	3,344.13
MW - 10	01/22/10	3391.26	-	47.06	0.00	3,344.20
MW - 10	*02/04/10*	3391.26	-	47.13	0.00	3,344.13
MW - 10	03/03/10	3391.26	sheen	47.33	0.00	3,343.93
MW - 10	03/16/10	3391.26	sheen	47.42	0.00	3,343.84

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	04/15/10	3391.26	sheen	47.43	0.00	3,343.83
MW - 10	05/07/10	3391.26	sheen	47.41	0.00	3,343.85
MW - 10	05/28/10	3391.26	sheen	47.43	0.00	3,343.83
MW - 10	06/08/10	3391.26	sheen	47.38	0.00	3,343.88
MW - 10	06/25/10	3391.26	-	47.36	0.00	3,343.90
MW - 10	07/08/10	3391.26	sheen	47.35	0.00	3,343.91
MW - 10	07/28/10	3391.26	sheen	47.37	0.00	3,343.89
MW - 10	*08/06/10*	3391.26	-	47.41	0.00	3,343.85
MW - 10	08/31/10	3391.26	sheen	47.44	0.00	3,343.82
MW - 10	09/10/10	3391.26	sheen	47.49	0.00	3,343.77
MW - 10	09/24/10	3391.26	sheen	47.37	0.00	3,343.89
MW - 10	10/06/10	3391.26	sheen	47.35	0.00	3,343.91
MW - 10	10/26/10	3391.26	-	47.06	0.00	3,344.20
MW - 10	*11/05/10*	3391.26	-	47.45	0.00	3,343.81
MW - 10	12/17/10	3391.26	-	47.07	0.00	3,344.19
MW - 10	01/13/11	3391.26	-	47.43	0.00	3,343.83
MW - 10	*02/11/11*	3391.26	-	47.45	0.00	3,343.81
MW - 10	*05/09/11*	3391.26	-	47.47	0.00	3,343.79
MW - 10	05/20/11	3391.26	-	47.84	0.00	3,343.42
MW - 10	06/29/11	3391.26	-	47.93	0.00	3,343.33
MW - 10	07/05/11	3391.26	-	48.01	0.00	3,343.25
MW - 10	07/25/11	3391.26	-	48.11	0.00	3,343.15
MW - 10	*08/05/11*	3391.26	-	47.50	0.00	3,343.76
MW - 10	08/11/11	3391.26	-	48.24	0.00	3,343.02
MW - 10	08/24/11	3391.26	-	48.30	0.00	3,342.96
MW - 10	09/09/11	3391.26	-	48.34	0.00	3,342.92
MW - 10	09/23/11	3391.26	-	48.41	0.00	3,342.85
MW - 10	*11/17/11*	3391.26	-	48.44	0.00	3,342.82
MW - 10	01/30/12	3391.26	48.35	48.75	0.40	3,342.85
MW - 10	*02/28/12*	3391.26	48.05	48.70	0.65	3,343.11
MW - 10	03/15/12	3391.26	48.13	48.64	0.51	3,343.05
MW - 10	03/28/12	3391.26	48.15	48.48	0.33	3,343.06
MW - 10	04/05/12	3391.26	47.96	48.40	0.44	3,343.23
MW - 10	04/23/12	3391.26	47.94	48.60	0.66	3,343.22
MW - 10	*05/03/12*	3391.26	48.13	49.38	1.25	3,342.94
MW - 10	06/28/12	3391.26	48.21	49.84	1.63	3,342.81
MW - 10	*08/24/12*	3391.26	48.30	48.95	0.65	3,342.86
MW - 10	*10/12/12*	3391.26	48.22	50.05	1.83	3,342.77
MW - 10	*10/24/12*	3391.26	48.14	49.57	1.43	3,342.91
MW - 10	*11/15/12*	3391.26	48.14	49.76	1.62	3,342.88
MW - 10	*12/20/12*	3391.26	48.11	49.86	1.75	3,342.89
MW - 10	*01/14/13*	3391.26	47.97	49.60	1.63	3,343.05
MW - 10	02/14/13	3391.26	47.94	49.73	1.79	3,343.05
MW - 10	03/29/13	3391.26	47.89	49.61	1.72	3,343.11
MW - 10	04/19/13	3391.26	47.89	49.59	1.70	3,343.12
MW - 10	04/30/13	3391.26	47.86	49.39	1.53	3,343.17
MW - 10	05/23/13	3391.26	47.89	49.72	1.83	3,343.10

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	05/28/13	3391.26	47.98	49.38	1.40	3,343.07
MW - 10	05/30/13	3391.26	47.92	49.43	1.51	3,343.11
MW - 10	06/06/13	3391.26	48.01	49.72	1.71	3,342.99
MW - 10	06/13/13	3391.26	48.04	49.66	1.62	3,342.98
MW - 10	06/19/13	3391.26	48.03	49.54	1.51	3,343.00
MW - 10	07/30/13	3391.26	48.15	50.59	2.44	3,342.74
MW - 10	08/06/13	3391.26	48.17	50.49	2.32	3,342.74
MW - 10	08/09/13	3391.26	48.22	50.61	2.39	3,342.68
MW - 10	08/30/13	3391.26	48.27	50.63	2.36	3,342.64
MW - 10	09/12/13	3391.26	48.38	50.43	2.05	3,342.57
MW - 10	10/03/13	3391.26	48.38	50.43	2.05	3,342.57
MW - 10	11/01/13	3391.26	48.48	50.74	2.26	3,342.44
MW - 10	11/07/13	3391.26	48.60	50.18	1.58	3,342.42
MW - 10	12/10/13	3391.26	48.41	49.60	1.19	3,342.67
MW - 10	01/01/14	3391.26	48.43	49.91	1.48	3,342.61
MW - 10	01/16/14	3391.26	48.48	50.32	1.84	3,342.50
MW - 10	01/23/14	3391.26	48.48	50.52	2.04	3,342.47
MW - 10	01/28/14	3391.26	48.65	50.13	1.48	3,342.39
MW - 10	02/11/14	3391.26	48.67	49.72	1.05	3,342.43
MW - 10	*03/05/14*	3391.26	48.59	50.27	1.68	3,342.42
MW - 10	03/13/14	3391.26	48.55	50.35	1.80	3,342.44
MW - 10	03/29/14	3391.26	48.57	49.99	1.42	3,342.48
MW - 10	04/08/14	3391.26	48.67	49.89	1.22	3,342.41
MW - 10	04/17/14	3391.26	48.68	49.85	1.17	3,342.40
MW - 10	04/25/14	3391.26	48.60	49.49	0.89	3,342.53
MW - 10	05/01/14	3391.26	48.66	49.30	0.64	3,342.50
MW - 10	05/08/14	3391.26	48.62	49.37	0.75	3,342.53
MW - 10	05/14/14	3391.26	48.63	49.35	0.72	3,342.52
MW - 10	05/23/14	3391.26	48.70	49.48	0.78	3,342.44
MW - 10	05/27/14	3391.26	48.80	49.23	0.43	3,342.40
MW - 10	*05/29/14*	3391.26	48.81	49.23	0.42	3,342.39
MW - 10	06/05/14	3391.26	48.74	49.36	0.62	3,342.43
MW - 10	06/11/14	3391.26	48.79	49.36	0.57	3,342.38
MW - 10	06/18/14	3391.26	48.78	49.45	0.67	3,342.38
MW - 10	06/26/14	3391.26	48.81	49.38	0.57	3,342.36
MW - 10	07/01/14	3391.26	48.43	49.10	0.67	3,342.73
MW - 10	07/10/14	3391.26	48.93	49.63	0.70	3,342.23
MW - 10	07/17/14	3391.26	48.91	49.75	0.84	3,342.22
MW - 10	07/23/14	3391.26	49.07	49.65	0.58	3,342.10
MW - 10	07/31/14	3391.26	49.02	49.65	0.63	3,342.15
MW - 10	08/06/14	3391.26	49.02	49.49	0.47	3,342.17
MW - 10	*08/12/14*	3391.26	49.09	49.53	0.44	3,342.10
MW - 10	08/21/14	3391.26	49.05	49.68	0.63	3,342.12
MW - 10	09/04/14	3391.26	49.08	49.78	0.70	3,342.08
MW - 10	10/02/14	3391.26	48.94	49.78	0.84	3,342.19
MW - 10	10/08/14	3391.26	48.91	49.46	0.55	3,342.27
MW - 10	10/14/14	3391.26	48.93	49.43	0.50	3,342.26

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	10/17/14	3391.26	48.97	49.42	0.45	3,342.22
MW - 10	10/23/14	3391.26	48.91	49.40	0.49	3,342.28
MW - 10	10/24/14	3391.26	48.91	49.40	0.49	3,342.28
MW - 10	10/28/14	3391.26	48.90	49.27	0.37	3,342.30
MW - 10	11/07/14	3391.26	48.81	49.26	0.45	3,342.38
MW - 10	11/14/14	3391.26	48.83	49.23	0.40	3,342.37
MW - 10	*11/15/14*	3391.26	48.78	49.21	0.43	3,342.42
MW - 10	12/04/14	3391.26	48.14	49.22	1.08	3,342.96
MW - 10	12/11/14	3391.26	48.85	49.21	0.36	3,342.36
MW - 10	12/18/14	3391.26	48.59	49.44	0.85	3,342.54
MW - 10	12/23/14	3391.26	48.86	49.19	0.33	3,342.35
MW - 11	12/04/04	3390.73	-	47.14	0.00	3,343.59
MW - 11	12/10/04	3390.73	-	46.84	0.00	3,343.89
MW - 11	*03/07/05*	3390.73	-	46.95	0.00	3,343.78
MW - 11	*06/07/05*	3390.73	-	46.62	0.00	3,344.11
MW - 11	*09/07/05*	3390.73	46.65	46.66	0.01	3,344.08
MW - 11	09/26/05	3390.73	sheen	46.78	0.00	3,343.95
MW - 11	*12/14/05*	3390.73	-	46.00	0.00	3,344.73
MW - 11	*03/06/06*	3390.73	-	45.83	0.00	3,344.90
MW - 11	04/13/06	3390.73	-	45.72	0.00	3,345.01
MW - 11	*06/05/06*	3390.73	-	45.01	0.00	3,345.72
MW - 11	*09/11/06*	3390.73	-	46.07	0.00	3,344.66
MW - 11	*11/21/06*	3390.73	-	46.08	0.00	3,344.65
MW - 11	*02/20/07*	3390.73	-	45.93	0.00	3,344.80
MW - 11	*05/15/07*	3390.73	-	46.11	0.00	3,344.62
MW - 11	*08/09/07*	3390.73	-	45.82	0.00	3,344.91
MW - 11	*11/13/07*	3390.73	-	46.06	0.00	3,344.67
MW - 11	*02/14/08*	3390.73	-	46.23	0.00	3,344.50
MW - 11	*05/16/08*	3390.73	-	45.71	0.00	3,345.02
MW - 11	*08/19/08*	3390.73	-	46.24	0.00	3,344.49
MW - 11	*11/20/08*	3390.73	-	46.28	0.00	3,344.45
MW - 11	*02/18/09*	3390.73	-	45.46	0.00	3,345.27
MW - 11	*05/19/09*	3390.73	-	46.34	0.00	3,344.39
MW - 11	*08/13/09*	3390.73	-	46.54	0.00	3,344.19
MW - 11	*11/11/09*	3390.73	-	46.58	0.00	3,344.15
MW - 11	01/12/10	3390.73	-	46.56	0.00	3,344.17
MW - 11	*02/04/10*	3390.73	-	46.69	0.00	3,344.04
MW - 11	*05/07/10*	3390.73	-	46.66	0.00	3,344.07
MW - 11	*08/06/10*	3390.73	-	46.66	0.00	3,344.07
MW - 11	*11/05/10*	3390.73	-	46.67	0.00	3,344.06
MW - 11	*02/11/11*	3390.73	-	46.75	0.00	3,343.98
MW - 11	*05/09/11*	3390.73	-	46.75	0.00	3,343.98
MW - 11	*08/05/11*	3390.73	-	46.73	0.00	3,344.00
MW - 11	*11/17/11*	3390.73	-	47.98	0.00	3,342.75
MW - 11	*02/28/12*	3390.73	-	47.69	0.00	3,343.04
MW - 11	*05/03/12*	3390.73	-	47.70	0.00	3,343.03

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 11	*08/24/12*	3390.73	-	48.01	0.00	3,342.72
MW - 11	*11/15/12*	3390.73	-	47.91	0.00	3,342.82
MW - 11	02/14/13	3390.73	-	47.75	0.00	3,342.98
MW - 11	*05/28/13*	3390.73	-	47.73	0.00	3,343.00
MW - 11	08/06/13	3390.73	-	48.09	0.00	3,342.64
MW - 11	*11/07/13*	3390.73	-	48.41	0.00	3,342.32
MW - 11	*03/05/14*	3390.73	-	48.40	0.00	3,342.33
MW - 11	*05/29/14*	3390.73	-	48.42	0.00	3,342.31
MW - 11	*07/23/14*	3390.73	-	48.68	0.00	3,342.05
MW - 11	*08/12/14*	3390.73	-	48.73	0.00	3,342.00
MW - 11	*10/28/14*	3390.73	-	48.51	0.00	3,342.22
MW - 11	*11/15/14*	3390.73	-	48.38	0.00	3,342.35
MW - 12	*03/05/14*	3391.57	-	49.06	0.00	3,342.51
MW - 12	04/17/14	3391.57	-	49.06	0.00	3,342.51
MW - 12	04/25/14	3391.57	-	48.97	0.00	3,342.60
MW - 12	05/01/14	3391.57	-	48.98	0.00	3,342.59
MW - 12	05/08/14	3391.57	-	48.97	0.00	3,342.60
MW - 12	05/14/14	3391.57	-	48.96	0.00	3,342.61
MW - 12	05/23/14	3391.57	-	49.09	0.00	3,342.48
MW - 12	05/27/14	3391.57	-	49.04	0.00	3,342.53
MW - 12	*05/29/14*	3391.57	-	49.03	0.00	3,342.54
MW - 12	06/05/14	3391.57	-	49.08	0.00	3,342.49
MW - 12	06/11/14	3391.57	-	49.09	0.00	3,342.48
MW - 12	06/18/14	3391.57	-	49.02	0.00	3,342.55
MW - 12	06/26/14	3391.57	-	49.16	0.00	3,342.41
MW - 12	07/01/14	3391.57	-	49.23	0.00	3,342.34
MW - 12	07/10/14	3391.57	-	49.28	0.00	3,342.29
MW - 12	07/17/14	3391.57	-	49.29	0.00	3,342.28
MW - 12	07/23/14	3391.57	-	49.32	0.00	3,342.25
MW - 12	07/31/14	3391.57	-	49.38	0.00	3,342.19
MW - 12	08/06/14	3391.57	-	49.34	0.00	3,342.23
MW - 12	*08/12/14*	3391.57	-	49.38	0.00	3,342.19
MW - 12	08/21/14	3391.57	-	49.38	0.00	3,342.19
MW - 12	09/04/14	3391.57	-	49.39	0.00	3,342.18
MW - 12	10/02/14	3391.57	-	49.31	0.00	3,342.26
MW - 12	10/08/14	3391.57	-	49.23	0.00	3,342.34
MW - 12	10/14/14	3391.57	-	49.25	0.00	3,342.32
MW - 12	10/17/14	3391.57	-	49.22	0.00	3,342.35
MW - 12	10/23/14	3391.57	-	49.20	0.00	3,342.37
MW - 12	10/28/14	3391.57	-	49.17	0.00	3,342.40
MW - 12	11/07/14	3391.57	-	49.04	0.00	3,342.53
MW - 12	11/14/14	3391.57	-	49.10	0.00	3,342.47
MW - 12	*11/15/14*	3391.57	-	49.06	0.00	3,342.51
MW - 12	12/04/14	3391.57	-	48.97	0.00	3,342.60
MW - 12	12/11/14	3391.57	-	48.95	0.00	3,342.62
MW - 12	12/18/14	3391.57	-	48.95	0.00	3,342.62

TABLE 1

HISTORIC GROUNDWATER ELEVATION DATA

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

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 12	12/23/14	3391.57	-	48.93	0.00	3,342.64
MW - 13	*03/05/14*	3391.89	49.21	49.55	0.34	3,342.63
MW - 13	*03/13/14*	3391.89	49.14	49.69	0.55	3,342.67
MW - 13	*03/29/14*	3391.89	49.10	49.72	0.62	3,342.70
MW - 13	*04/08/14*	3391.89	49.16	49.87	0.71	3,342.62
MW - 13	04/17/14	3391.89	49.13	49.94	0.81	3,342.64
MW - 13	04/25/14	3391.89	49.01	49.85	0.84	3,342.75
MW - 13	*05/01/14*	3391.89	49.17	49.33	0.16	3,342.70
MW - 13	05/08/14	3391.89	49.11	49.25	0.14	3,342.76
MW - 13	05/14/14	3391.89	49.07	49.29	0.22	3,342.79
MW - 13	05/23/14	3391.89	49.19	49.39	0.20	3,342.67
MW - 13	05/27/14	3391.89	49.20	49.25	0.05	3,342.68
MW - 13	*05/29/14*	3391.89	49.23	49.33	0.10	3,342.65
MW - 13	06/05/14	3391.89	49.20	49.46	0.26	3,342.65
MW - 13	06/11/14	3391.89	49.22	49.54	0.32	3,342.62
MW - 13	06/18/14	3391.89	49.20	49.65	0.45	3,342.62
MW - 13	06/26/14	3391.89	49.22	49.82	0.60	3,342.58
MW - 13	07/01/14	3391.89	49.38	49.60	0.22	3,342.48
MW - 13	07/10/14	3391.89	49.36	49.75	0.39	3,342.47
MW - 13	07/17/14	3391.89	49.35	49.91	0.56	3,342.46
MW - 13	07/23/14	3391.89	49.50	49.75	0.25	3,342.35
MW - 13	07/31/14	3391.89	49.48	49.85	0.37	3,342.35
MW - 13	08/06/14	3391.89	49.47	49.73	0.26	3,342.38
MW - 13	*08/12/14*	3391.89	49.52	49.80	0.28	3,342.33
MW - 13	08/21/14	3391.89	49.50	49.94	0.44	3,342.32
MW - 13	09/04/14	3391.89	48.49	50.08	1.59	3,343.16
MW - 13	10/02/14	3391.89	49.39	49.98	0.59	3,342.41
MW - 13	10/08/14	3391.89	49.40	49.49	0.09	3,342.48
MW - 13	10/14/14	3391.89	49.42	49.48	0.06	3,342.46
MW - 13	10/17/14	3391.89	49.43	49.49	0.06	3,342.45
MW - 13	10/23/14	3391.89	49.37	49.53	0.16	3,342.50
MW - 13	10/24/14	3391.89	49.37	49.53	0.16	3,342.50
MW - 13	10/28/14	3391.89	49.36	49.44	0.08	3,342.52
MW - 13	11/07/14	3391.89	49.26	49.60	0.34	3,342.58
MW - 13	11/14/14	3391.89	49.30	49.44	0.14	3,342.57
MW - 13	*11/15/14*	3391.89	49.21	49.40	0.19	3,342.65
MW - 13	12/04/14	3391.89	49.28	49.42	0.14	3,342.59
MW - 13	12/11/14	3391.89	49.31	49.42	0.11	3,342.56
MW - 13	12/18/14	3391.89	48.99	49.86	0.87	3,342.77
MW - 13	12/23/14	3391.89	49.29	49.40	0.11	3,342.58

Historic Table 2

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 1	02/09/04	**4.090**	0.020	**1.470**	0.547	
MW - 1	05/04/04	**5.470**	0.058	**1.540**	0.353	
MW - 1	12/04/04	**16.20**	0.590	**1.500**	**1.560**	
MW - 1	03/07/05	**16.90**	<0.1	**1.500**	**0.644**	
MW - 1	06/07/05	**15.60**	<0.2	**1.910**	**0.807**	
MW - 1	09/07/05	**9.550**	<0.2	**1.600**	0.553	
MW - 1	12/14/05	Not Sampled				
MW - 1	01/12/06	**1.000**	0.242	**0.774**	0.534	
MW - 1	03/06/06	**9.960**	<0.1	**2.240**	**1.640**	
MW - 1	06/05/06	**7.080**	<0.2	**1.660**	**1.220**	
MW - 1	09/11/06	**7.860**	0.076	**2.420**	**1.440**	
MW - 1	11/21/06	**6.170**	<0.1	**1.320**	**1.200**	
MW - 1	02/20/07	**3.000**	0.125	**0.993**	0.493	
MW - 1	05/15/07	**4.010**	<0.100	**1.580**	**0.681**	
MW - 1	08/09/07	**3.770**	<0.100	**1.280**	0.471	
MW - 1	11/13/07	**5.550**	0.149	**2.200**	0.560	
MW - 1	02/14/08	**3.480**	0.151	**1.310**	**0.699**	
MW - 1	06/05/08	**3.620**	0.122	**0.984**	0.179	
MW - 1	08/19/08	**4.290**	0.199	**1.250**	0.391	
MW - 1	11/19/08	**3.820**	0.135	**0.128**	0.471	
MW - 1	02/18/09	**2.420**	<0.001	0.511	<0.1	
MW - 1	05/19/09	**0.640**	<0.001	**1.460**	**2.000**	
MW - 1	08/13/09	**2.940**	<0.100	**0.888**	<0.100	
MW - 1	11/11/09	**2.880**	<0.100	**1.210**	**0.762**	
MW - 1	02/04/10	**2.300**	<0.100	0.156	<0.100	
MW - 1	05/07/10	**2.940**	<0.100	0.657	<0.100	
MW - 1	08/06/10	**2.760**	<0.050	0.390	0.118	
MW - 1	11/05/10	**2.250**	<0.0500	0.435	<0.0500	
MW - 1	02/11/11	**2.380**	<0.0500	0.529	<0.0500	
MW - 1	05/09/11	**2.940**	<0.0500	0.669	<0.0500	
MW - 1	08/05/11	**3.530**	<0.0500	**1.010**	**1.130**	
MW - 1	11/17/11	**2.980**	<0.020	**1.300**	0.092	
MW - 1	02/28/12	**3.200**	<0.100	**1.410**	<0.100	
MW - 1	05/03/12	**2.340**	<0.02	**0.996**	0.303	
MW - 1	08/24/12	**1.640**	<0.05	0.149	<0.150	
MW - 1	11/15/12	**1.58**	0.0128	0.526	0.0665	
MW - 1	02/14/13	**1.84**	<0.0200	0.0993	0.0993	
MW - 1	05/28/13	**0.86**	<0.0100	0.2160	<0.01	
MW - 1	08/06/13	**1.26**	0.0118	0.2660	0.0686	
MW - 1	11/07/13	**1.40**	<0.0500	0.1900	<0.150	
MW - 1	03/05/14	**1.22**	<0.0500	0.0969	<0.150	
MW - 1	05/29/14	Not Sampled				

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		**0.010**	**0.750**	**0.750**	**0.620**	
MW - 1	08/13/14	**0.722**	<0.0500	<0.0500	<0.0500	
MW - 1	11/15/14	**0.500**	<0.0500	0.170	0.345	
MW - 2	05/04/04	**7.280**	0.525	**0.884**	0.553	
MW - 2	03/07/05	**6.020**	**1.510**	**1.170**	**1.270**	
MW - 2	06/07/05	**3.960**	0.371	**1.340**	**1.130**	
MW - 2	09/07/05	**4.670**	0.283	**1.210**	**1.040**	
MW - 2	12/14/05	**0.969**	0.327	0.699	0.423	
MW - 2	03/06/06	**6.280**	**2.260**	**2.120**	**3.060**	
MW - 2	06/05/06	**4.350**	**1.660**	**1.690**	**1.920**	
MW - 2	09/11/06	**4.190**	0.250	**1.260**	**1.250**	
MW - 2	11/21/06	**6.340**	<0.1	**1.380**	**1.140**	
MW - 2	02/20/07	**5.740**	**2.100**	**1.640**	**2.060**	
MW - 2	05/15/07	**4.640**	0.361	**1.750**	**1.520**	
MW - 2	08/09/07	**4.990**	0.271	**1.280**	**0.980**	
MW - 2	11/13/07	**8.740**	0.735	0.626	**2.830**	
MW - 2	02/14/08	**4.090**	0.575	**3.900**	**3.640**	
MW - 2	05/16/08	**5.690**	0.665	**2.190**	**1.960**	
MW - 2	08/19/08	**3.470**	0.117	**1.370**	**0.946**	
MW - 2	11/19/08	**1.630**	<0.100	**0.788**	0.504	
MW - 2	02/18/09	**0.958**	<0.100	0.238	0.100	
MW - 2	05/19/09	**2.340**	<0.100	**1.080**	**1.500**	
MW - 2	08/13/09	**1.370**	<0.100	**0.841**	**1.040**	
MW - 2	11/11/09	**0.693**	<0.100	0.303	0.174	
MW - 2	02/04/10	**0.385**	<0.100	0.217	<0.100	
MW - 2	05/07/10	**1.210**	<0.200	0.494	<0.200	
MW - 2	08/06/10	**0.554**	<0.050	0.447	0.281	
MW - 2	11/05/10	**0.743**	<0.0500	0.409	0.480	
MW - 2	02/11/11	**0.577**	<0.0500	<0.0500	<0.0500	
MW - 2	05/09/11	**0.687**	<0.0500	<0.0500	<0.0500	
MW - 2	08/05/11	**0.494**	<0.0500	<0.0500	<0.0500	
MW - 2	11/17/11	**0.289**	<0.005	0.092	0.0498	
MW - 2	02/28/12	**1.230**	<0.200	<0.200	<0.200	
MW - 2	05/03/12	**0.447**	<0.005	0.119	<0.0100	
MW - 2	08/24/12	Not Sampled Due to PSH in Well				
MW - 2	11/15/12	Not Sampled Due to PSH in Well				
MW - 2	02/14/13	Not Sampled Due to PSH in Well				
MW - 2	05/28/13	Not Sampled Due to PSH in Well				
MW - 2	08/06/13	Not Sampled Due to PSH in Well				
MW - 2	11/07/13	Not Sampled Due to PSH in Well				
MW - 2	03/05/14	Not Sampled Due to PSH in Well				
MW - 2	05/29/14	Not Sampled Due to PSH in Well				

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 2	08/13/14	Not Sampled Due to PSH in Well				
MW - 2	11/15/14	Not Sampled Due to PSH in Well				
		.				
MW - 3	03/09/00	**0.0150**	0.0120	0.0020	0.0020	
MW - 3	05/11/00	**0.0560**	0.0480	0.0060	0.0040	
MW - 3	09/12/00	**0.0560**	0.0480	0.0060	0.0050	
MW - 3	12/14/00	**0.0130**	0.0140	0.0020	0.0020	
MW - 3	03/21/01	**0.0730**	0.0740	0.0110	0.0090	
MW - 3	05/30/01	**0.0690**	<0.005	<0.005	<0.005	
MW - 3	09/25/01	0.0080	0.0070	0.0010	0.0010	
MW - 3	11/17/01	0.0020	0.0030	<0.001	0.0010	
MW - 3	02/20/02	**0.0220**	0.0250	0.0040	0.0030	
MW - 3	05/20/02	**0.0400**	0.0413	0.0078	0.0060	
MW - 3	09/24/02	**0.0400**	0.0300	0.0070	0.0050	
MW - 3	11/13/02	**0.0450**	0.0420	0.0060	0.0050	
MW - 3	02/06/03	0.0040	0.0070	0.0020	0.0010	
MW - 3	05/08/03	0.0050	0.0080	0.0020	0.0010	
MW - 3	08/19/03	0.0050	0.0040	<0.001	<0.001	
MW - 3	11/07/03	<0.001	<0.001	<0.001	<0.002	
MW - 3	02/09/04	0.0070	0.0090	0.0020	<0.002	
MW - 3	05/04/04	0.0020	0.0010	<0.001	<0.002	
MW - 3	08/23/04	<0.001	0.0010	<0.001	<0.002	
MW - 3	12/04/04	<0.001	0.0010	<0.001	<0.001	
MW - 3	03/07/05	<0.001	<0.001	<0.001	<0.001	
MW - 3	06/07/05	0.0064	<0.001	<0.001	<0.001	
MW - 3	09/07/05	0.0057	<0.001	<0.001	0.0010	
MW - 3	12/14/05	<0.005	<0.005	<0.005	<0.005	
MW - 3	03/06/06	<0.001	<0.001	<0.001	<0.001	
MW - 3	06/05/06	0.0012	<0.001	<0.001	<0.001	
MW - 3	09/11/06	<0.001	<0.001	<0.001	<0.001	
MW - 3	11/21/06	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 3	05/15/07	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/09/07	<0.001	<0.001	<0.001	<0.001	
MW - 3	11/13/07	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/14/08	<0.001	<0.001	<0.001	<0.001	
MW - 3	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/19/08	<0.001	<0.001	<0.001	0.0024	
MW - 3	11/19/08	<0.001	<0.001	<0.001	0.0024	
MW - 3	02/18/09	<0.001	<0.001	<0.001	<0.001	
MW - 3	05/19/09	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/13/09	<0.001	<0.001	<0.001	<0.001	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 3	11/11/09	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	05/07/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/06/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	11/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 3	05/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/05/11	<0.001	<0.001	<0.001	<0.001	
MW - 3	11/17/11	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/28/12	<0.001	<0.001	<0.001	<0.001	
MW - 3	05/03/12	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/24/12	<0.001	<0.001	<0.001	<0.003	
MW - 3	11/15/12	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/14/13	Not Sampled on Current Sample Schedule				
MW - 3	05/28/13	Not Sampled on Current Sample Schedule				
MW - 3	08/06/13	Not Sampled on Current Sample Schedule				
MW - 3	11/07/13	<0.001	<0.001	<0.001	<0.00300	
MW - 3	03/05/14	Not Sampled on Current Sample Schedule				
MW - 3	05/29/14	Not Sampled on Current Sample Schedule				
MW - 3	08/13/14	Not Sampled on Current Sample Schedule				
MW - 3	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	03/09/00	**0.1520**	0.0660	0.0190	0.0120	
MW - 4	05/11/00	**0.2850**	0.1100	0.0320	0.0140	
MW - 4	09/12/00	**0.2690**	0.0680	0.0260	0.0060	
MW - 4	12/14/00	**0.2460**	0.0210	0.0090	0.0080	
MW - 4	03/21/01	**0.1890**	0.0860	0.0200	0.0110	
MW - 4	05/30/01	**0.1070**	<0.005	0.0188	<0.005	
MW - 4	09/25/01	**0.4630**	0.0280	0.0090	0.0100	
MW - 4	11/17/01	**0.3350**	0.0200	0.0070	0.0070	
MW - 4	02/20/02	**1.0900**	0.0460	0.0110	0.0080	
MW - 4	05/20/02	**0.9190**	0.0414	0.0080	0.0160	
MW - 4	09/24/02	**0.1170**	0.0200	0.0030	0.0030	
MW - 4	11/13/02	**0.0820**	0.0730	0.0100	0.0110	
MW - 4	02/06/03	0.0020	0.0040	<0.001	0.0010	
MW - 4	05/08/03	**0.0160**	0.0020	<0.001	<0.001	
MW - 4	08/19/03	**0.0310**	0.0020	<0.001	<0.001	
MW - 4	11/07/03	0.0040	<0.001	<0.001	0.0030	
MW - 4	02/09/04	**0.3700**	0.0030	0.0050	0.0040	
MW - 4	05/04/04	**0.0130**	<0.001	<0.001	<0.002	
MW - 4	08/23/04	<0.001	<0.001	<0.001	<0.002	
MW - 4	12/04/04	0.0058	<0.001	<0.001	<0.001	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 4	03/07/05	<0.001	<0.001	<0.001	<0.001	
MW - 4	06/07/05	**0.0821**	0.0023	<0.001	0.0019	
MW - 4	09/07/05	**0.0704**	0.0045	0.0014	0.0024	
MW - 4	12/14/05	Not Sampled - Well Damged				
MW - 4	03/06/06	Plugged and Abandoned				
MW - 5	03/09/00	0.0010	0.0010	<0.001	0.0010	
MW - 5	05/11/00	<0.001	<0.001	<0.001	<0.001	
MW - 5	09/12/00	<0.001	<0.001	<0.001	<0.001	
MW - 5	12/14/00	<0.001	<0.001	<0.001	<0.001	
MW - 5	03/21/01	<0.001	<0.001	<0.001	<0.001	
MW - 5	05/30/01	<0.005	<0.005	<0.005	<0.005	
MW - 5	09/25/01	<0.001	<0.001	<0.001	<0.001	
MW - 5	11/17/01	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/20/02	<0.001	<0.001	<0.001	<0.001	
MW - 5	05/20/02	<0.001	<0.001	<0.001	<0.001	
MW - 5	09/24/02	0.0030	<0.001	<0.001	<0.001	
MW - 5	11/13/02	0.0020	0.0010	<0.001	<0.001	
MW - 5	02/06/03	<0.001	<0.001	<0.001	<0.001	
MW - 5	05/08/03	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/19/03	<0.001	<0.001	<0.001	<0.001	
MW - 5	11/07/03	<0.001	<0.001	<0.001	<0.002	
MW - 5	02/09/04	<0.001	<0.001	<0.001	<0.002	
MW - 5	12/04/04	<0.001	<0.001	<0.001	<0.001	
MW - 5	03/07/05	Not Sampled on Current Sample Schedule				
MW - 5	06/07/05	Not Sampled on Current Sample Schedule				
MW - 5	09/07/05	Not Sampled on Current Sample Schedule				
MW - 5	12/14/05	<0.005	<0.005	<0.005	<0.005	
MW - 5	03/06/06	Not Sampled on Current Sample Schedule				
MW - 5	06/05/06	Not Sampled on Current Sample Schedule				
MW - 5	09/11/06	Not Sampled on Current Sample Schedule				
MW - 5	11/21/06	0.0011	<0.001	0.0014	<0.001	
MW - 5	02/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 5	05/15/07	Not Sampled on Current Sample Schedule				
MW - 5	08/09/07	Not Sampled on Current Sample Schedule				
MW - 5	11/13/07	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/14/08	Not Sampled on Current Sample Schedule				
MW - 5	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/19/08	Not Sampled on Current Sample Schedule				
MW - 5	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/18/09	Not Sampled on Current Sample Schedule				
MW - 5	05/19/09	<0.001	<0.001	<0.001	<0.001	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 5	08/13/09	Not Sampled on Current Sample Schedule				
MW - 5	11/11/09	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/04/10	Not Sampled on Current Sample Schedule				
MW - 5	05/07/10	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/06/10	Not Sampled on Current Sample Schedule				
MW - 5	11/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/11/11	Not Sampled on Current Sample Schedule				
MW - 5	05/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/05/11	Not Sampled on Current Sample Schedule				
MW - 5	11/17/11	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/28/12	Not Sampled on Current Sample Schedule				
MW - 5	05/03/12	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/24/12	Not Sampled on Current Sample Schedule				
MW - 5	11/15/12	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/14/13	Not Sampled on Current Sample Schedule				
MW - 5	05/28/13	Not Sampled on Current Sample Schedule				
MW - 5	08/06/13	Not Sampled on Current Sample Schedule				
MW - 5	11/07/13	<0.001	<0.001	<0.001	<0.00300	
MW - 5	03/05/14	Not Sampled on Current Sample Schedule				
MW - 5	05/29/14	Not Sampled on Current Sample Schedule				
MW - 5	08/13/14	Not Sampled on Current Sample Schedule				
MW - 5	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	03/09/00	<0.001	<0.001	<0.001	<0.001	
MW - 6	05/11/00	<0.001	<0.001	<0.001	<0.001	
MW - 6	09/12/00	<0.001	<0.001	<0.001	<0.001	
MW - 6	12/14/00	<0.001	<0.001	<0.001	<0.001	
MW - 6	03/21/01	<0.001	<0.001	<0.001	<0.001	
MW - 6	05/30/01	<0.005	<0.005	<0.005	<0.005	
MW - 6	09/25/01	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/17/01	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/20/02	0.0010	<0.001	<0.001	<0.001	
MW - 6	05/20/02	<0.001	<0.001	<0.001	<0.001	
MW - 6	09/24/02	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/13/02	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/06/03	<0.001	<0.001	<0.001	<0.001	
MW - 6	05/08/03	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/19/03	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/07/03	<0.001	<0.001	<0.001	<0.002	
MW - 6	02/09/04	<0.001	<0.001	<0.001	<0.002	
MW - 6	12/04/04	<0.001	<0.001	<0.001	<0.001	
MW - 6	03/07/05	Not Sampled on Current Sample Schedule				

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 6	06/07/05	<0.001	<0.001	<0.001	<0.001	
MW - 6	09/07/05	Not Sampled on Current Sample Schedule				
MW - 6	12/14/05	<0.005	<0.005	<0.005	<0.005	
MW - 6	03/06/06	Not Sampled on Current Sample Schedule				
MW - 6	06/05/06	<0.001	<0.001	<0.001	<0.001	
MW - 6	09/11/06	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/21/06	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 6	06/21/07	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/09/07	Not Sampled on Current Sample Schedule				
MW - 6	11/13/07	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/14/08	Not Sampled on Current Sample Schedule				
MW - 6	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/19/08	Not Sampled on Current Sample Schedule				
MW - 6	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/18/09	Not Sampled on Current Sample Schedule				
MW - 6	05/19/09	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/13/09	Not Sampled on Current Sample Schedule				
MW - 6	11/11/09	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/04/10	Not Sampled on Current Sample Schedule				
MW - 6	05/07/10	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/06/10	Not Sampled on Current Sample Schedule				
MW - 6	11/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/11/11	Not Sampled on Current Sample Schedule				
MW - 6	05/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/05/11	Not Sampled on Current Sample Schedule				
MW - 6	11/17/11	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/28/12	Not Sampled on Current Sample Schedule				
MW - 6	05/03/12	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/24/12	Not Sampled on Current Sample Schedule				
MW - 6	11/15/12	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/14/13	<0.001	<0.001	<0.001	<0.001	
MW - 6	05/28/13	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/06/13	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/07/13	<0.001	<0.001	<0.001	<0.00300	
MW - 6	03/05/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 6	05/29/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 6	08/12/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 7	03/09/00	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/11/00	<0.001	<0.001	<0.001	<0.001	
MW - 7	09/12/00	<0.001	<0.001	<0.001	<0.001	
MW - 7	12/14/00	<0.001	<0.001	<0.001	<0.001	
MW - 7	03/21/01	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/30/01	<0.005	<0.005	<0.005	<0.005	
MW - 7	09/25/01	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/17/01	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/20/02	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/20/02	<0.001	<0.001	<0.001	<0.001	
MW - 7	09/24/02	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/13/02	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/06/03	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/08/03	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/19/03	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/07/03	<0.001	<0.001	<0.001	<0.002	
MW - 7	02/09/04	<0.001	<0.001	<0.001	<0.002	
MW - 7	12/04/04	<0.001	<0.001	<0.001	<0.001	
MW - 7	03/07/05	Not Sampled on Current Sample Schedule				
MW - 7	06/07/05	<0.001	<0.001	<0.001	<0.001	
MW - 7	09/07/05	Not Sampled on Current Sample Schedule				
MW - 7	12/14/05	<0.005	<0.005	<0.005	<0.005	
MW - 7	03/06/06	Not Sampled on Current Sample Schedule				
MW - 7	06/05/06	<0.001	<0.001	<0.001	<0.001	
MW - 7	09/11/06	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/21/06	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 7	06/21/07	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/09/07	Not Sampled on Current Sample Schedule				
MW - 7	11/13/07	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/14/08	Not Sampled on Current Sample Schedule				
MW - 7	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/19/08	Not Sampled on Current Sample Schedule				
MW - 7	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/18/09	Not Sampled on Current Sample Schedule				
MW - 7	05/19/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/13/09	Not Sampled on Current Sample Schedule				
MW - 7	11/11/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/04/10	Not Sampled on Current Sample Schedule				
MW - 7	05/07/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/06/10	Not Sampled on Current Sample Schedule				
MW - 7	11/05/10	<0.001	<0.001	<0.001	<0.001	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 7	02/11/11	Not Sampled on Current Sample Schedule				
MW - 7	05/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/05/11	Not Sampled on Current Sample Schedule				
MW - 7	11/17/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/28/12	Not Sampled on Current Sample Schedule				
MW - 7	05/03/12	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/24/12	Not Sampled on Current Sample Schedule				
MW - 7	11/15/12	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/14/13	Not Sampled on Current Sample Schedule				
MW - 7	05/28/13	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/06/13	Not Sampled on Current Sample Schedule				
MW - 7	11/07/13	<0.001	<0.001	<0.001	<0.00300	
MW - 7	03/05/14	Not Sampled on Current Sample Schedule				
MW - 7	05/29/14	<0.001	<0.001	<0.001	<0.00300	
MW - 7	08/12/14	Not Sampled on Current Sample Schedule				
MW - 7	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	03/09/00	0.0010	<0.001	0.0010	<0.001	
MW - 8	05/11/00	<0.001	<0.001	<0.001	<0.001	
MW - 8	09/12/00	<0.001	<0.001	<0.001	<0.001	
MW - 8	12/14/00	<0.001	<0.001	<0.001	<0.001	
MW - 8	03/21/01	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/30/01	<0.005	<0.005	<0.005	<0.005	
MW - 8	09/25/01	0.0010	<0.001	<0.001	<0.001	
MW - 8	11/17/01	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/20/02	0.0050	<0.001	0.0020	<0.001	
MW - 8	05/20/02	<0.001	<0.001	<0.001	<0.001	
MW - 8	09/24/02	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/13/02	0.0020	<0.001	<0.001	<0.001	
MW - 8	02/06/03	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/08/03	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/19/03	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/07/03	<0.001	<0.001	<0.001	<0.002	
MW - 8	02/09/04	<0.001	<0.001	<0.001	<0.002	
MW - 8	12/04/04	<0.001	<0.001	<0.001	<0.001	
MW - 8	03/07/05	Not Sampled on Current Sample Schedule				
MW - 8	06/07/05	Not Sampled on Current Sample Schedule				
MW - 8	09/07/05	Not Sampled on Current Sample Schedule				
MW - 8	12/14/05	<0.005	<0.005	<0.005	<0.005	
MW - 8	03/06/06	Not Sampled on Current Sample Schedule				
MW - 8	06/05/06	Not Sampled on Current Sample Schedule				
MW - 8	09/11/06	Not Sampled on Current Sample Schedule				

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 8	11/21/06	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 8	06/21/07	Not Sampled on Current Sample Schedule				
MW - 8	08/09/07	Not Sampled on Current Sample Schedule				
MW - 8	11/13/07	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/14/08	Not Sampled on Current Sample Schedule				
MW - 8	05/16/08	Not Sampled on Current Sample Schedule				
MW - 8	08/19/08	Not Sampled on Current Sample Schedule				
MW - 8	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/18/09	Not Sampled on Current Sample Schedule				
MW - 8	05/19/09	Not Sampled on Current Sample Schedule				
MW - 8	08/13/09	Not Sampled on Current Sample Schedule				
MW - 8	11/11/09	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/04/10	Not Sampled on Current Sample Schedule				
MW - 8	05/07/10	Not Sampled on Current Sample Schedule				
MW - 8	08/06/10	Not Sampled on Current Sample Schedule				
MW - 8	11/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/11/11	Not Sampled on Current Sample Schedule				
MW - 8	05/09/11	Not Sampled on Current Sample Schedule				
MW - 8	08/05/11	Not Sampled on Current Sample Schedule				
MW - 8	11/17/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/28/12	Not Sampled on Current Sample Schedule				
MW - 8	05/03/12	Not Sampled on Current Sample Schedule				
MW - 8	11/15/12	Not Sampled on Current Sample Schedule				
MW - 8	11/15/12	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/14/13	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/28/13	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/06/13	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/07/13	<0.001	<0.001	<0.001	<0.00300	
MW - 8	03/05/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 8	05/29/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 8	08/12/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 9	03/09/00	**0.0290**	0.0090	0.0280	0.0210	
MW - 9	05/11/00	**0.0560**	0.0340	0.0080	0.0090	
MW - 9	09/12/00	**0.2320**	0.0310	0.0060	0.0040	
MW - 9	12/14/00	**0.0300**	0.0150	0.0030	0.0020	
MW - 9	03/21/01	**0.1580**	0.0810	0.0160	0.0120	
MW - 9	05/30/01	**0.5320**	<0.005	<0.005	<0.005	
MW - 9	09/25/01	**0.4900**	0.2120	0.1610	0.0290	
MW - 9	11/17/01	**0.0140**	0.0470	0.0250	0.0080	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 9	02/20/02	**0.1580**	0.0420	0.0460	0.0110	
MW - 9	05/08/03	**0.4460**	0.1880	0.3690	0.3920	
MW - 9	08/19/03	**0.0600**	0.0050	0.0430	0.0690	
MW - 9	11/07/03	**0.0760**	0.0010	0.0030	0.0080	
MW - 9	02/09/04	**0.0150**	0.0130	0.0090	0.0200	
MW - 9	05/04/04	**0.3030**	0.0110	0.0570	0.0390	
MW - 9	08/23/04	**0.0486**	<0.001	0.0056	<0.002	
MW - 9	12/04/04	0.0048	<0.001	0.0022	0.0031	
MW - 9	03/07/05	**0.0163**	<0.005	0.0243	0.0545	
MW - 9	06/07/05	**0.0499**	0.0183	0.0856	0.1500	
MW - 9	09/07/05	**0.0123**	0.0073	0.0454	0.0625	
MW - 9	12/14/05	<0.005	<0.005	0.0186	0.0149	
MW - 9	03/06/06	**0.0173**	0.0390	0.1940	0.2470	
MW - 9	06/05/06	**0.0330**	<0.005	0.2450	0.3690	
MW - 9	09/11/06	0.0073	<0.001	0.0981	0.1340	
MW - 9	11/21/06	**0.0128**	<0.001	0.0539	0.0192	
MW - 9	02/20/07	0.0056	<0.001	0.0333	0.0356	
MW - 9	05/15/07	<0.001	<0.001	0.0194	0.0164	
MW - 9	08/09/07	0.0047	<0.001	0.0215	0.0206	
MW - 9	11/13/07	**0.0250**	0.0092	0.0845	0.1020	
MW - 9	02/14/08	0.0030	<0.001	0.0152	0.0167	
MW - 9	05/16/08	0.0093	<0.001	0.0285	0.0271	
MW - 9	08/19/08	0.0020	<0.001	0.0064	0.0069	
MW - 9	11/19/08	0.0058	<0.001	0.0367	0.0300	
MW - 9	02/18/09	<0.001	<0.001	<0.001	0.0040	
MW - 9	05/19/09	0.0078	<0.001	0.0201	0.0306	
MW - 9	08/13/09	<0.001	<0.001	0.0201	0.0230	
MW - 9	11/11/09	<0.001	<0.001	0.0193	0.0166	
MW - 9	02/04/10	<0.001	<0.001	0.0100	0.0067	
MW - 9	05/07/10	<0.001	<0.001	0.0095	0.0098	
MW - 9	08/06/10	<0.001	<0.001	0.0076	0.0107	
MW - 9	11/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/05/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/17/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/28/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/03/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/24/12	0.1030	0.0961	0.0914	0.2710	
MW - 9	11/15/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/14/13	Not Sampled on Current Sample Schedule				
MW - 9	05/28/13	<0.001	<0.001	<0.001	<0.001	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 9	08/06/13	Not Sampled on Current Sample Schedule				
MW - 9	11/07/13	<0.001	<0.001	<0.001	<0.00300	
MW - 9	03/05/14	Not Sampled on Current Sample Schedule				
MW - 9	05/29/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 9	08/12/14	Not Sampled on Current Sample Schedule				
MW - 9	11/12/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 10	05/04/04	**4.230**	0.1990	**0.888**	**0.779**	
MW - 10	03/07/05	**5.690**	0.4910	**0.984**	**0.908**	
MW - 10	06/07/05	**4.350**	0.0618	0.510	0.264	
MW - 10	09/07/05	**5.630**	<0.2	**1.790**	**1.180**	
MW - 10	12/14/05	**2.320**	<0.05	<0.05	0.168	
MW - 10	03/06/06	**4.930**	0.3510	**1.390**	**1.400**	
MW - 10	06/05/06	**2.050**	0.0457	**0.792**	0.460	
MW - 10	09/11/06	**5.450**	0.1050	**1.420**	**1.070**	
MW - 10	11/21/06	**6.560**	<0.1	**1.420**	**1.190**	
MW - 10	02/20/07	**5.400**	<0.1	**1.290**	**1.130**	
MW - 10	05/15/07	**6.810**	<0.100	**3.230**	**2.180**	
MW - 10	08/09/07	**7.190**	<0.100	**1.470**	**0.894**	
MW - 10	11/13/07	**13.500**	<0.100	**2.890**	**1.500**	
MW - 10	02/14/08	**6.990**	<0.100	**1.760**	**0.995**	
MW - 10	05/16/08	**4.720**	<0.0500	**0.896**	0.327	
MW - 10	08/19/08	**7.890**	<0.100	**1.940**	**1.020**	
MW - 10	11/19/08	**6.220**	<0.100	**1.420**	**1.000**	
MW - 10	02/18/09	**6.320**	<0.001	**1.070**	0.271	
MW - 10	05/19/09	**6.000**	<0.100	**1.700**	**1.740**	
MW - 10	08/13/09	**6.820**	<0.100	**1.690**	**1.400**	
MW - 10	11/11/09	**6.560**	<0.100	**1.750**	**0.748**	
MW - 10	02/04/10	**5.490**	<0.100	**1.070**	0.218	
MW - 10	05/07/10	**6.080**	<0.100	**1.130**	**0.700**	
MW - 10	08/06/10	**8.450**	<0.050	**1.180**	0.397	
MW - 10	11/05/10	**5.400**	<0.0500	**1.140**	**0.641**	
MW - 10	02/11/11	**7.760**	<0.0500	**1.500**	**1.250**	
MW - 10	05/09/11	**9.730**	<0.0500	**1.590**	**0.984**	
MW - 10	08/05/11	**9.420**	<0.0500	**1.470**	**0.973**	
MW - 10	11/17/11	**5.680**	<0.0500	0.630	<0.050	
MW - 10	02/28/12	Not Sampled due to PSH in Well				
MW - 10	05/03/12	Not Sampled due to PSH in Well				
MW - 10	08/24/12	Not Sampled due to PSH in Well				
MW - 10	11/15/12	Not Sampled due to PSH in Well				
MW - 10	02/14/13	Not Sampled due to PSH in Well				
MW - 10	05/28/13	Not Sampled due to PSH in Well				

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 10	08/06/13	Not Sampled due to PSH in Well				
MW - 10	03/05/14	Not Sampled due to PSH in Well				
MW - 10	05/29/14	Not Sampled due to PSH in Well				
MW - 10	08/12/14	Not Sampled due to PSH in Well				
MW - 10	11/12/14	Not Sampled due to PSH in Well				
MW - 11	12/10/04	<0.001	<0.001	<0.001	<0.001	
MW - 11	03/07/05	<0.001	<0.001	<0.001	<0.001	
MW - 11	06/07/05	<0.001	<0.001	<0.001	<0.001	
MW - 11	09/07/05	Not Sampled				
MW - 11	12/14/05	<0.005	<0.005	<0.005	<0.005	
MW - 11	03/06/06	<0.001	<0.001	<0.001	<0.001	
MW - 11	06/05/06	<0.001	<0.001	<0.001	<0.001	
MW - 11	09/11/06	<0.001	<0.001	<0.001	<0.001	
MW - 11	11/21/06	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 11	05/15/07	<0.001	<0.001	<0.001	<0.001	
MW - 11	08/09/07	<0.001	<0.001	<0.001	<0.001	
MW - 11	11/13/07	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/14/08	<0.001	<0.001	<0.001	<0.001	
MW - 11	05/16/08	<0.001	<0.001	<0.001	<0.001	
MW - 11	08/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 11	11/19/08	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/18/09	<0.001	<0.001	<0.001	<0.001	
MW - 11	05/19/09	<0.001	0.0096	0.0108	0.0338	
MW - 11	08/13/09	<0.001	<0.001	<0.001	<0.001	
MW - 11	11/11/09	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 11	05/07/10	<0.001	<0.001	<0.001	<0.001	
MW - 11	08/06/10	<0.001	<0.001	<0.001	<0.001	
MW - 11	11/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/11/11	<0.001	<0.001	<0.001	0.0215	
MW - 11	05/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 11	08/05/11	<0.001	<0.001	<0.001	<0.001	
MW - 11	11/17/11	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/28/12	<0.001	<0.001	<0.001	<0.001	
MW - 11	05/03/12	<0.001	<0.001	<0.001	<0.001	
MW - 11	08/24/12	<0.001	<0.001	<0.001	<0.003	
MW - 11	11/15/12	<0.001	<0.001	<0.001	<0.001	
MW - 11	02/14/13	Not Sampled on Current Sample Schedule				
MW - 11	05/28/13	<0.001	<0.001	<0.001	<0.001	
MW - 11	08/06/13	Not Sampled on Current Sample Schedule				

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD Regulatory Guideline		0.010	0.750	0.750	0.620	
MW - 11	11/07/13	<0.001	<0.001	<0.001	<0.00300	
MW - 11	02/10/14	Not Sampled on Current Sample Schedule				
MW - 11	05/29/14	<0.001	<0.001	<0.001	<0.00300	
MW - 11	8/12/147	Not Sampled on Current Sample Schedule				
MW - 11	11/15/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW-12	03/06/14	0.0219	<0.00100	0.0259	0.0458	
MW-12	05/29/14	0.0166	<0.00100	0.00960	<0.00300	
MW-12	08/12/14	0.0513	<0.00100	<0.00100	<0.00100	
MW-12	11/15/14	0.214	<0.0500	<0.0500	<0.0500	
MW-13	03/06/14	Not Sampled due to PSH in Well				
MW-13	05/29/14	Not Sampled due to PSH in Well				
MW-13	08/12/14	Not Sampled due to PSH in Well				
MW-13	11/15/14	Not Sampled due to PSH in Well				

Historic Table 3

TABLE 3

HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

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

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		—	—	**0.001 mg/L**	**0.0001 mg/L**	**0.0007 mg/L**	**0.001 mg/L**	—	**0.001 mg/L**	**0.0002 mg/L**	**0.0003 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.0004 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.03 mg/L**			—
MW-1	11/19/08	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	**0.00193**	<0.000917	<0.000917	**0.0104**	<0.000917	**0.014**	<0.000917	**0.047**	**0.0806**	**0.0587**	0.0152
	11/11/09	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	**0.0110**	<0.000917	**0.0257**	**0.0706**	**0.0474**	0.0103
	11/05/10	<0.00188	<0.00188	<0.00188	<0.00188	<0.00188	<0.00188	<0.00188	<0.00188	<0.00188	<0.00188	<0.00188	**0.0114**	<0.00188	**0.0250**	<0.00188	**0.0407**	**0.138**	**0.0768**	0.0219
	12/16/11	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	**0.0132**	<0.000185	**0.0116**	**0.0343**	**0.0171**	0.0144
	11/15/12	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	**0.0236**	<0.000189	**0.0354**	**0.101**	**0.0632**	**0.0286**
	11/07/13	<0.000200	0.213	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	**0.494**	**0.112**	**0.388**	<0.000200	**0.610**	**1.21**	**0.0632**	**21.4**
	11/15/14	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-2	11/19/08	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	**0.00525**	<0.000922	**0.00739**	<0.000922	**0.0163**	**0.0252**	**0.0335**	0.00806
	11/11/09	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	**0.0114**	<0.000922	**0.0488**	**0.0930**	**0.0735**	0.0116
	11/05/10	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	**0.00106**	<0.000186	**0.00238**	<0.000186	0.00139	0.00528	0.000936	0.00168
	12/16/11	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	**0.00346**	<0.000185	0.00324	0.00714	0.00306	0.00263
	11/15/12	Not Sampled Due to the Presence of PSH.																		
	11/07/13	Not Sampled Due to the Presence of PSH.																		
	11/15/14	Not Sampled Due to the Presence of PSH.																		
MW-3	11/19/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00022	<0.000184	<0.000184	<0.000184
	11/11/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/05/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/07/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/19/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/11/09	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/05/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/07/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		

TABLE 3

HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

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

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		—	—	**0.001 mg/L**	**0.0001 mg/L**	**0.0007 mg/L**	**0.001 mg/L**	—	**0.001 mg/L**	**0.0002 mg/L**	**0.0003 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.0004 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.03 mg/L**			—
MW-6	11/19/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/11/09	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
	11/05/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/07/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/19/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/11/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/05/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/07/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/19/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/11/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/05/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/07/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	11/19/08	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	<0.000935	**0.00427**	<0.000935	**0.00553**	<0.000935	0.00202	0.00876	0.00297	0.00586
	11/11/09	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	**0.00358**	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922
	11/05/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/15/12	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189
	11/07/13	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189
	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-10	11/19/08	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	<0.00367	**0.050**	<0.00367	**0.0652**	<0.00367	**0.175**	**0.412**	**0.380**	0.0765

TABLE 3

HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

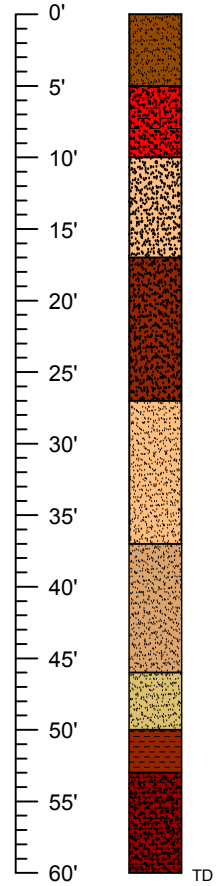
PLAINS MARKETING, L.P.
TNM 98-05A
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER AP-12

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		—	—	**0.001 mg/L**	**0.0001 mg/L**	**0.0007 mg/L**	**0.001 mg/L**	—	**0.001 mg/L**	**0.0002 mg/L**	**0.0003 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.0004 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.03 mg/L**			—
	11/11/09	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	**0.0101**	<0.000922	**0.0474**	**0.0934**	**0.0713**	0.0125
	11/05/10	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	**0.00495**	<0.000188	**0.00732**	<0.000188	**0.0358**	**0.0569**	**0.041**	0.00602
	12/16/11	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	**0.0151**	<0.000184	**0.0652**	**0.0901**	**0.0815**	0.0200
	11/15/12	Not Sampled due to the presence of PSH																		
	11/07/13	Not Sampled due to the presence of PSH																		
	11/15/14	Not Sampled due to the presence of PSH																		
MW-11	11/19/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/11/09	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/05/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/07/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	03/05/14	<0.00465	<0.00465	**<0.00465**	**<0.00465**	**<0.00465**	**<0.00465**	<0.00465	**<0.00465**	**<0.00465**	**<0.00465**	**<0.00465**	**<0.00465**	**<0.00465**	**<0.00465**	**<0.00465**	**0.00956**	**0.0153**	**0.0105**	<0.00465
	11/15/14	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-13	03/05/14	Not Sampled Due to the Presence of PSH.																		
	11/15/14	Not Sampled Due to the Presence of PSH.																		

Soil Boring Log

Monitor Well MW-12



Notes
No Odor
No Odor
No Odor
No Odor
No Odor
No Odor
No Odor
Odor
Heavy Odor
Odor
Odor

Soil Description

0 - 5' - Brown silty fine grained sand, well rounded and moderately sorted. caliche nodules.

5 - 10' - Red silty fine grained sand, well rounded moderately sorted. Some small caliche nodules.

10 - 17' - Light tan fine grained sand. Well rounded and well sorted. Large amount of caliche.

17 - 27' - Reddish tan fine grained sand. Well rounded, well sorted. Some caliche

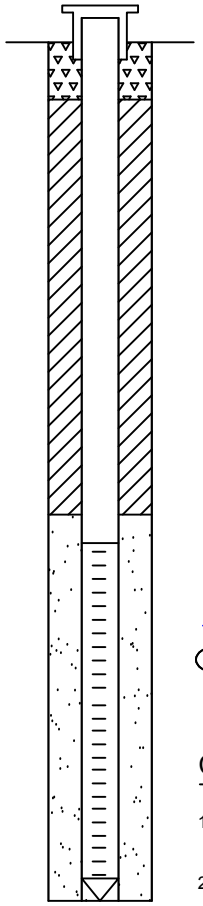
27 - 37' - Light tan fine grained sand. Well rounded and well sorted. Large amount of caliche 27'-30'.

37 - 46' - Tan Coarse to fine grained sand. Angular to sub angular and poorly sorted. Some clay content. Some caliche nodules.

46 - 50' - Grayish brown medium to fine grained sand. Sub angular to sub rounded and moderately sorted.

50 - 53' - Reddish tan clay rich fine sand, well rounded and well sorted.

53 - 60' - Red sandy clay.



Monitor Well Details

Date Drilled 2-4-2014 / 2-7-2014
Thickness of Bentonite Seal 29 ft
Length of PVC Well Screen 25 ft
Depth of PVC Well 60 ft
Depth of Exploratory Well 60 ft

Grout Surface Seal - 0' to 4'

Bentonite Pellet Seal - 4' to 33'

Sand Pack - 4' to 33'

Screen - 35' to 60'

▽ Indicates the ground water level measured on date.

Indicates samples selected for laboratory analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitor well was installed on date using Air rotary drilling techniques.
2. The well was constructed with 4" ID, 0.010 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a stick-up and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitor Well Details

Monitor Well - 12

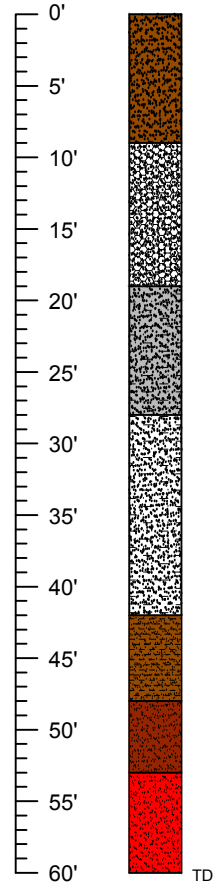
Plains Pipeline, L.P. TNM 98-05A Lea County, NM

NOVA Safety and Environmental

NOVA safety and environmental

Scale: N/A	Prep By: TA	Checked By: CS
March 21, 2014		

Monitor Well MW-13



Soil Description

0 - 9' - Brown fine grained sand, with some clay content, well rounded and moderately sorted. Caliche nodules

9 - 19' - White fine grained sand, well rounded and well sorted. Heavy caliche content. Caliche @ 17'-17.5'

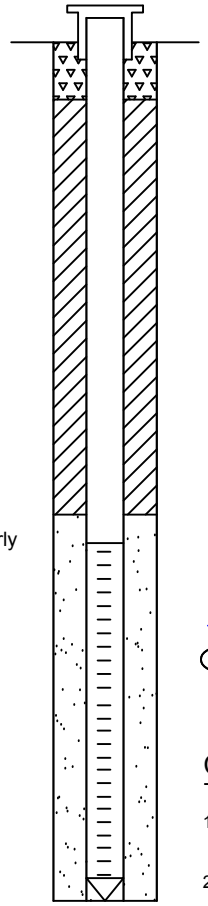
19 - 28' - Grayish white silty fine grained sand. Sub rounded, moderately sorted. Some caliche.

28 - 42' - White silty fine grained sand. Sub angular to sub rounded and poorly sorted. Some sandstone nodules.

42 - 48' - Brown fine grained clay rich sand. Sub rounded t owell rounded and poorly sorted.

48 - 53' - Reddish tan silty fine grained sand. Well rounded and well sorted.

53 - 60' - Red fine to very fine grained sand. Well rounded and well sorted. Slight clay content.



Monitor Well Details

Date Drilled 2-4-2014 / 2-7-2014
Thickness of Bentonite Seal 29 ft
Length of PVC Well Screen 25 ft
Depth of PVC Well 60 ft
Depth of Exploratory Well 60 ft

Grout Surface Seal - 0' to 4'

Bentonite Pellet Seal - 4' to 33'

Sand Pack - 4' to 33'

Screen - 35' to 60'

▽ Indicates the ground water level measured on date.

Indicates samples selected for laboratory analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitor well was installed on date using Air rotary drilling techniques.
2. The well was constructed with 4" ID, 0.010 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a stick-up and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitor Well Details

Monitor Well - 13

Plains Pipeline, L.P. TNM 98-05A Lea County, NM

NOVA Safety and Environmental

NOVA safety and environmental

Scale: N/A	Prep By: TA	Checked By: CS
March 21, 2014		

Laboratory Reports

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972•242•7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: February 18, 2014

Work Order: 14021019

Project Location: Lea Co., NM
Project Name: 9805-A
Project Number: TNM 98-05A
SRS #: TNM-98-05-A

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
354252	MW-12 @ 10’	soil	2014-02-05	15:10	2014-02-10
354253	MW-12 @ 20’	soil	2014-02-05	15:30	2014-02-10
354254	MW-12 @ 30’	soil	2014-02-05	16:00	2014-02-10
354255	MW-12 @ 40’	soil	2014-02-07	11:00	2014-02-10
354256	MW-12 @ 45’	soil	2014-02-07	11:15	2014-02-10
354257	MW-12 @ 46’	soil	2014-02-07	11:20	2014-02-10
354258	MW-13 @ 10’	soil	2014-02-07	14:10	2014-02-10
354259	MW-13 @ 15’	soil	2014-02-07	14:15	2014-02-10
354260	MW-13 @ 20’	soil	2014-02-07	14:20	2014-02-10
354261	MW-13 @ 25’	soil	2014-02-07	14:25	2014-02-10
354262	MW-13 @ 30’	soil	2014-02-07	14:30	2014-02-10
354263	MW-13 @ 40’	soil	2014-02-07	14:40	2014-02-10
354264	MW-13 @ 45’	soil	2014-02-07	14:45	2014-02-10

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Report Contents

Case Narrative

Samples for project 9805-A were received by TraceAnalysis, Inc. on 2014-02-10 and assigned to work order 14021019. Samples for work order 14021019 were received intact at a temperature of 1.8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
TPH DRO - NEW	S 8015 D	92372	2014-02-12 at 14:00	109229	2014-02-13 at 09:12
TPH DRO - NEW	S 8015 D	92417	2014-02-13 at 14:45	109281	2014-02-14 at 09:16
TPH GRO	S 8015 D	92440	2014-02-14 at 12:23	109347	2014-02-16 at 16:30
TPH GRO	S 8015 D	92451	2014-02-15 at 10:59	109393	2014-02-18 at 08:46
TPH GRO	S 8015 D	92472	2014-02-17 at 09:01	109412	2014-02-18 at 12:47
TPH ORO	S 8015 D	92372	2014-02-12 at 14:00	109230	2014-02-13 at 09:16
TPH ORO	S 8015 D	92417	2014-02-13 at 14:45	109282	2014-02-14 at 09:19

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14021019 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 354252 - MW-12 @ 10'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109229	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92372	Sample Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	Cert	Result	RL Result	Units	Dilution	RL
DRO	Qs,U	1		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			91.3	mg/Kg	1	100	91	70 - 130

Sample: 354252 - MW-12 @ 10'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109347	Date Analyzed:	2014-02-16	Analyzed By:	AK
Prep Batch:	92440	Sample Preparation:	2014-02-14	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Result	Units	Dilution	RL
GRO	Qs,U	1		<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.58	mg/Kg	1	2.00	79	70 - 130
4-Bromofluorobenzene (4-BFB)			1.41	mg/Kg	1	2.00	70	70 - 130

Sample: 354252 - MW-12 @ 10'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109230	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92372	Sample Preparation:	2014-02-12	Prepared By:	RG

continued ...

sample 354252 continued . . .

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	U		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			91.3	mg/Kg	1	100	91	70 - 130
n-Triacontane			93.4	mg/Kg	1	100	93	70 - 130

Sample: 354253 - MW-12 @ 20'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109229	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92372	Sample Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qs	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			104	mg/Kg	1	100	104	70 - 130

Sample: 354253 - MW-12 @ 20'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109347	Date Analyzed:	2014-02-16	Analyzed By:	AK
Prep Batch:	92440	Sample Preparation:	2014-02-14	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs,U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.48	mg/Kg	1	2.00	74	70 - 130

continued . . .

sample continued . . .

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)			1.50	mg/Kg	1	2.00	75	70 - 130

Sample: 354253 - MW-12 @ 20'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109230	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92372	Sample Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	U		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			104	mg/Kg	1	100	104	70 - 130
n-Triacontane			106	mg/Kg	1	100	106	70 - 130

Sample: 354254 - MW-12 @ 30'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109229	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92372	Sample Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qs,U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			92.5	mg/Kg	1	100	92	70 - 130

Sample: 354254 - MW-12 @ 30'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109347	Date Analyzed:	2014-02-16	Analyzed By:	AK
Prep Batch:	92440	Sample Preparation:	2014-02-14	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs	1	**5.20**	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.17	mg/Kg	1	2.00	108	70 - 130
4-Bromofluorobenzene (4-BFB)			2.38	mg/Kg	1	2.00	119	70 - 130

Sample: 354254 - MW-12 @ 30'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109230	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92372	Sample Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	U		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			92.5	mg/Kg	1	100	92	70 - 130
n-Triacontane			94.0	mg/Kg	1	100	94	70 - 130

Sample: 354255 - MW-12 @ 40'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109229	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92372	Sample Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qs	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			91.0	mg/Kg	1	100	91	70 - 130

Sample: 354255 - MW-12 @ 40'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109347	Date Analyzed:	2014-02-16	Analyzed By:	AK
Prep Batch:	92440	Sample Preparation:	2014-02-14	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.44	mg/Kg	1	2.00	72	70 - 130
4-Bromofluorobenzene (4-BFB)			1.47	mg/Kg	1	2.00	74	70 - 130

Sample: 354255 - MW-12 @ 40'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109230	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92372	Sample Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	U		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			91.0	mg/Kg	1	100	91	70 - 130
n-Triacontane			93.8	mg/Kg	1	100	94	70 - 130

Sample: 354256 - MW-12 @ 45'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109229	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92372	Sample Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qs	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			89.7	mg/Kg	1	100	90	70 - 130

Sample: 354256 - MW-12 @ 45'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109412	Date Analyzed:	2014-02-18	Analyzed By:	AK
Prep Batch:	92472	Sample Preparation:	2014-02-17	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO		1	**30.6**	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.61	mg/Kg	1	2.00	80	70 - 130
4-Bromofluorobenzene (4-BFB)			2.52	mg/Kg	1	2.00	126	70 - 130

Sample: 354256 - MW-12 @ 45'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109230	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92372	Sample Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	U		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			89.7	mg/Kg	1	100	90	70 - 130
n-Triacontane			92.0	mg/Kg	1	100	92	70 - 130

Sample: 354257 - MW-12 @ 46'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109281	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	B	1	**195**	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			100	mg/Kg	1	100	100	70 - 130

Sample: 354257 - MW-12 @ 46'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109347	Date Analyzed:	2014-02-16	Analyzed By:	AK
Prep Batch:	92440	Sample Preparation:	2014-02-14	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs	1	**99.3**	mg/Kg	2	4.00

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr		1.22	mg/Kg	2	2.00	61	70 - 130
4-Bromofluorobenzene (4-BFB)	Qsr	Qsr		3.99	mg/Kg	2	2.00	200	70 - 130

Sample: 354257 - MW-12 @ 46'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109282	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	U		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			100	mg/Kg	1	100	100	70 - 130
n-Triacontane			112	mg/Kg	1	100	112	70 - 130

Sample: 354258 - MW-13 @ 10'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109281	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	Result	RL Result	Units	Dilution	RL
DRO	B	1	**155**		mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			98.3	mg/Kg	1	100	98	70 - 130

Sample: 354258 - MW-13 @ 10'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109347	Date Analyzed:	2014-02-16	Analyzed By:	AK
Prep Batch:	92440	Sample Preparation:	2014-02-14	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Result	Units	Dilution	RL
GRO [1]	Qs	1		<8.00	mg/Kg	2	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.58	mg/Kg	2	2.00	79	70 - 130
4-Bromofluorobenzene (4-BFB)			1.85	mg/Kg	2	2.00	92	70 - 130

Sample: 354258 - MW-13 @ 10'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109282	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	U		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			98.3	mg/Kg	1	100	98	70 - 130

continued ...

sample continued . . .

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane			106	mg/Kg	1	100	106	70 - 130

Sample: 354259 - MW-13 @ 15'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109281	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	Result	RL Result	Units	Dilution	RL
DRO	B	1		**462**	mg/Kg	5	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			108	mg/Kg	5	100	108	70 - 130

Sample: 354259 - MW-13 @ 15'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109393	Date Analyzed:	2014-02-18	Analyzed By:	AK
Prep Batch:	92451	Sample Preparation:	2014-02-15	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Result	Units	Dilution	RL
GRO	Qs	1		<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.48	mg/Kg	1	2.00	74	70 - 130
4-Bromofluorobenzene (4-BFB)			1.65	mg/Kg	1	2.00	82	70 - 130

Sample: 354259 - MW-13 @ 15'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109282	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	U		<56.5	<250	<250	<250	mg/Kg	5	11.3	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			108	mg/Kg	5	100	108	70 - 130
n-Triacontane	Qsr	Qsr	132	mg/Kg	5	100	132	70 - 130

Sample: 354260 - MW-13 @ 20'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109281	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	B	1	**423**	mg/Kg	5	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			101	mg/Kg	5	100	101	70 - 130

Sample: 354260 - MW-13 @ 20'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109393	Date Analyzed:	2014-02-18	Analyzed By:	AK
Prep Batch:	92451	Sample Preparation:	2014-02-15	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs	1	**25.3**	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.69	mg/Kg	1	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	mg/Kg	1	2.00	101	70 - 130

Sample: 354260 - MW-13 @ 20'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109282	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	U		<56.5	<250	<250	<250	mg/Kg	5	11.3	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			101	mg/Kg	5	100	101	70 - 130
n-Triacontane			111	mg/Kg	5	100	111	70 - 130

Sample: 354261 - MW-13 @ 25'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109281	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	B	1	**75.2**	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			97.8	mg/Kg	1	100	98	70 - 130

Sample: 354261 - MW-13 @ 25'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109393	Date Analyzed:	2014-02-18	Analyzed By:	AK
Prep Batch:	92451	Sample Preparation:	2014-02-15	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.65	mg/Kg	1	2.00	82	70 - 130
4-Bromofluorobenzene (4-BFB)			1.50	mg/Kg	1	2.00	75	70 - 130

Sample: 354261 - MW-13 @ 25'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109282	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	U		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			97.8	mg/Kg	1	100	98	70 - 130
n-Triacontane			100	mg/Kg	1	100	100	70 - 130

Sample: 354262 - MW-13 @ 30'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109281	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Jb	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			96.4	mg/Kg	1	100	96	70 - 130

Sample: 354262 - MW-13 @ 30'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109393	Date Analyzed:	2014-02-18	Analyzed By:	AK
Prep Batch:	92451	Sample Preparation:	2014-02-15	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs,U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.65	mg/Kg	1	2.00	82	70 - 130
4-Bromofluorobenzene (4-BFB)			1.44	mg/Kg	1	2.00	72	70 - 130

Sample: 354262 - MW-13 @ 30'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109282	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	U		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			96.4	mg/Kg	1	100	96	70 - 130
n-Triacontane			102	mg/Kg	1	100	102	70 - 130

Sample: 354263 - MW-13 @ 40'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109281	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	B	1	**52.4**	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			95.5	mg/Kg	1	100	96	70 - 130

Sample: 354263 - MW-13 @ 40'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109412	Date Analyzed:	2014-02-18	Analyzed By:	AK
Prep Batch:	92472	Sample Preparation:	2014-02-17	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.85	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			1.90	mg/Kg	1	2.00	95	70 - 130

Sample: 354263 - MW-13 @ 40'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109282	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	U		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			95.5	mg/Kg	1	100	96	70 - 130
n-Triacontane			99.8	mg/Kg	1	100	100	70 - 130

Sample: 354264 - MW-13 @ 45'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109281	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		1	**391**	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			99.6	mg/Kg	1	100	100	70 - 130

Sample: 354264 - MW-13 @ 45'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109393	Date Analyzed:	2014-02-18	Analyzed By:	AK
Prep Batch:	92451	Sample Preparation:	2014-02-15	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs	1	**96.6**	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.58	mg/Kg	1	2.00	79	70 - 130
4-Bromofluorobenzene (4-BFB)			2.16	mg/Kg	1	2.00	108	70 - 130

Sample: 354264 - MW-13 @ 45'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109282	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	Sample Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	U		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			99.6	mg/Kg	1	100	100	70 - 130
n-Triacontane			103	mg/Kg	1	100	103	70 - 130

Method Blanks

Method Blank (1) QC Batch: 109229

QC Batch:	109229	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92372	QC Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	Units	RL
DRO		1	<6.88	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			94.4	mg/Kg	1	100	94	70 - 130

Method Blank (1) QC Batch: 109230

QC Batch:	109230	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92372	QC Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	Units	RL
ORO			<11.3	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			94.4	mg/Kg	1	100	94	70 - 130
n-Triacontane			98.4	mg/Kg	1	100	98	70 - 130

Method Blank (1) QC Batch: 109281

QC Batch:	109281	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	QC Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	Units	RL
DRO		1	39.1	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			95.9	mg/Kg	1	100	96	70 - 130

Method Blank (1) QC Batch: 109282

QC Batch:	109282	Date Analyzed:	2014-02-14	Analyzed By:	RG
Prep Batch:	92417	QC Preparation:	2014-02-13	Prepared By:	RG

Parameter	Flag	Cert	MDL Result	Units	RL
ORO			<11.3	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			95.9	mg/Kg	1	100	96	70 - 130
n-Triacontane			102	mg/Kg	1	100	102	70 - 130

Method Blank (1) QC Batch: 109347

QC Batch:	109347	Date Analyzed:	2014-02-16	Analyzed By:	AK
Prep Batch:	92440	QC Preparation:	2014-02-14	Prepared By:	AK

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		[1]	<2.32	mg/Kg	4

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.66	mg/Kg	1	2.00	83	70 - 130
4-Bromofluorobenzene (4-BFB)			1.49	mg/Kg	1	2.00	74	70 - 130

Method Blank (1) QC Batch: 109393

QC Batch:	109393	Date Analyzed:	2014-02-18	Analyzed By:	AK
Prep Batch:	92451	QC Preparation:	2014-02-15	Prepared By:	AK

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		1	<2.32	mg/Kg	4

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.66	mg/Kg	1	2.00	83	70 - 130
4-Bromofluorobenzene (4-BFB)			1.52	mg/Kg	1	2.00	76	70 - 130

Method Blank (1) QC Batch: 109412

QC Batch: 109412 | Date Analyzed: 2014-02-18 | Analyzed By: AK
Prep Batch: 92472 | QC Preparation: 2014-02-17 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		1	<2.32	mg/Kg	4

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.85	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			1.90	mg/Kg	1	2.00	95	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109229 | Date Analyzed: 2014-02-13 | Analyzed By: RG
Prep Batch: 92372 | QC Preparation: 2014-02-12 | Prepared By: RG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	263	mg/Kg	1	250	<6.88	105	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		1	266	mg/Kg	1	250	<6.88	106	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	97.1	97.7	mg/Kg	1	100	97	98	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 109230 | Date Analyzed: 2014-02-13 | Analyzed By: RG
Prep Batch: 92372 | QC Preparation: 2014-02-12 | Prepared By: RG

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	97.1	97.7	mg/Kg	1	100	97	98	70 - 130
n-Triacontane	99.8	99.8	mg/Kg	1	100	100	100	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 109281 | Date Analyzed: 2014-02-14 | Analyzed By: RG
Prep Batch: 92417 | QC Preparation: 2014-02-13 | Prepared By: RG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		[1]	275	mg/Kg	1	250	39.1	94	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		[1]	292	mg/Kg	1	250	39.1	101	70 - 130	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	93.7	106	mg/Kg	1	100	94	106	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 109282 | Date Analyzed: 2014-02-14 | Analyzed By: RG
Prep Batch: 92417 | QC Preparation: 2014-02-13 | Prepared By: RG

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	93.7	106	mg/Kg	1	100	94	106	70 - 130
n-Triacontane	99.1	110	mg/Kg	1	100	99	110	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 109347 | Date Analyzed: 2014-02-16 | Analyzed By: AK
Prep Batch: 92440 | QC Preparation: 2014-02-14 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		[1]	18.4	mg/Kg	1	20.0	<2.32	92	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		[1]	18.4	mg/Kg	1	20.0	<2.32	92	70 - 130	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

control spikes continued ...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.80	1.72	mg/Kg	1	2.00	90	86	70 - 130
4-Bromofluorobenzene (4-BFB)	1.74	1.73	mg/Kg	1	2.00	87	86	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 109393 | Date Analyzed: 2014-02-18 | Analyzed By: AK
Prep Batch: 92451 | QC Preparation: 2014-02-15 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	14.1	mg/Kg	1	20.0	<2.32	70	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	Qs Qs	1	13.9	mg/Kg	1	20.0	<2.32	70	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.53	1.53	mg/Kg	1	2.00	76	76	70 - 130
4-Bromofluorobenzene (4-BFB)	1.48	1.65	mg/Kg	1	2.00	74	82	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 109412 | Date Analyzed: 2014-02-18 | Analyzed By: AK
Prep Batch: 92472 | QC Preparation: 2014-02-17 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	16.2	mg/Kg	1	20.0	<2.32	81	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

control spikes continued ...

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1	14.8	mg/Kg	1	20.0	<2.32	74	70 - 130	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.74	1.51	mg/Kg	1	2.00	87	76	70 - 130
4-Bromofluorobenzene (4-BFB)	2.09	1.85	mg/Kg	1	2.00	104	92	70 - 130

Matrix Spike (MS-1) Spiked Sample: 354196

QC Batch: 109229 | Date Analyzed: 2014-02-13 | Analyzed By: RG
Prep Batch: 92372 | QC Preparation: 2014-02-12 | Prepared By: RG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO Qs	Qs	1	9520	mg/Kg	5	250	8600	368	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO Qs	Qs	1	8500	mg/Kg	5	250	8600	-40	70 - 130	11	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane Qsr Qsr	310	297	mg/Kg	5	100	310	297	70 - 130

Matrix Spike (xMS-1) Spiked Sample: 354196

QC Batch: 109230 | Date Analyzed: 2014-02-13 | Analyzed By: RG
Prep Batch: 92372 | QC Preparation: 2014-02-12 | Prepared By: RG

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane Qsr Qsr	310	297	mg/Kg	5	100	310	297	70 - 130

continued ...

matrix spikes continued ...

Surrogate			MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	Qsr	Qsr	421	394	mg/Kg	5	100	421	394	70 - 130

Matrix Spike (MS-1) Spiked Sample: 354257

QC Batch: 109281 | Date Analyzed: 2014-02-14 | Analyzed By: RG
Prep Batch: 92417 | QC Preparation: 2014-02-13 | Prepared By: RG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	390	mg/Kg	1	250	195	78	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		1	430	mg/Kg	1	250	195	94	70 - 130	10	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	97.4	95.2	mg/Kg	1	100	97	95	70 - 130

Matrix Spike (MS-1) Spiked Sample: 354257

QC Batch: 109282 | Date Analyzed: 2014-02-14 | Analyzed By: RG
Prep Batch: 92417 | QC Preparation: 2014-02-13 | Prepared By: RG

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	97.4	95.2	mg/Kg	1	100	97	95	70 - 130
n-Triacontane	101	97.2	mg/Kg	1	100	101	97	70 - 130

Matrix Spike (MS-1) Spiked Sample: 354239

QC Batch: 109347 | Date Analyzed: 2014-02-16 | Analyzed By: AK
Prep Batch: 92440 | QC Preparation: 2014-02-14 | Prepared By: AK

Param		F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	[2] Qs	Qs	1	<23.2	mg/Kg	10	20.0	<23.2	0	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	[3] Qs	Qs	1	<23.2	mg/Kg	10	20.0	<23.2	0	70 - 130	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.60	1.59	mg/Kg	10	2	80	80	70 - 130
4-Bromofluorobenzene (4-BFB)	1.84	1.87	mg/Kg	10	2	92	94	70 - 130

Matrix Spike (MS-1) Spiked Sample: 354259

QC Batch: 109393 | Date Analyzed: 2014-02-18 | Analyzed By: AK
Prep Batch: 92451 | QC Preparation: 2014-02-15 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	19.0	mg/Kg	1	20.0	2.72	81	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1	19.2	mg/Kg	1	20.0	2.72	82	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)		1.45	1.52	mg/Kg	1	2	72	76	70 - 130
4-Bromofluorobenzene (4-BFB)	Qsr Qsr	1.34	1.77	mg/Kg	1	2	67	88	70 - 130

Matrix Spike (MS-1) Spiked Sample: 354666

QC Batch: 109412 | Date Analyzed: 2014-02-18 | Analyzed By: AK
Prep Batch: 92472 | QC Preparation: 2014-02-17 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		[1]	18.5	mg/Kg	1	20.0	<2.32	92	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		[1]	19.0	mg/Kg	1	20.0	<2.32	95	70 - 130	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.68	1.79	mg/Kg	1	2	84	90	70 - 130
4-Bromofluorobenzene (4-BFB)	1.99	2.03	mg/Kg	1	2	100	102	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 109229 | Date Analyzed: 2014-02-13 | Analyzed By: RG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	263	105	80 - 120	2014-02-13

Standard (CCV-2)

QC Batch: 109229 | Date Analyzed: 2014-02-13 | Analyzed By: RG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	296	118	80 - 120	2014-02-13

Standard (CCV-3)

QC Batch: 109229 | Date Analyzed: 2014-02-13 | Analyzed By: RG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	274	110	80 - 120	2014-02-13

Standard (CCV-1)

QC Batch: 109281 | Date Analyzed: 2014-02-14 | Analyzed By: RG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	285	114	80 - 120	2014-02-14

Standard (CCV-2)

QC Batch: 109281 Date Analyzed: 2014-02-14 Analyzed By: RG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	272	109	80 - 120	2014-02-14

Standard (CCV-3)

QC Batch: 109281 Date Analyzed: 2014-02-14 Analyzed By: RG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	266	106	80 - 120	2014-02-14

Standard (CCV-1)

QC Batch: 109347 Date Analyzed: 2014-02-16 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.935	94	80 - 120	2014-02-16

Standard (CCV-2)

QC Batch: 109347 Date Analyzed: 2014-02-16 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.897	90	80 - 120	2014-02-16

Standard (CCV-3)

QC Batch: 109347 Date Analyzed: 2014-02-16 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.840	84	80 - 120	2014-02-16

Standard (CCV-1)

QC Batch: 109393 Date Analyzed: 2014-02-18 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.840	84	80 - 120	2014-02-18

Standard (CCV-2)

QC Batch: 109393 Date Analyzed: 2014-02-18 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.827	83	80 - 120	2014-02-18

Standard (CCV-3)

QC Batch: 109393 Date Analyzed: 2014-02-18 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.861	86	80 - 120	2014-02-18

Standard (CCV-1)

QC Batch: 109412 Date Analyzed: 2014-02-18 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	1.00	100	80 - 120	2014-02-18

Standard (CCV-2)

QC Batch: 109412 Date Analyzed: 2014-02-18 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.936	94	80 - 120	2014-02-18

Standard (CCV-3)

QC Batch: 109412 Date Analyzed: 2014-02-18 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.874	87	80 - 120	2014-02-18

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-13-7	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Result Comments

1 Dilution due to excessive hydrocarbons.
2 Dilution due to surfactants.
3 Dilution due to surfactants.

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

LAB Order ID # 14021019

Page _____ of _____

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Ave, Ste 9
Lubbock,Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland,Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name:	Nova Safety and Environmental	**Phone #:**	432-520-7720
Address:	2057 Commerce Dr, Midland, TX 79703	**Fax #:**	
Contact Person:	Curt Stanley	**E-mail:**	cstanley@novatraining.cc
Invoice to:	Plains		
Project #:	TNM 98-05A	**Project Name:**	98-05A
Project Location: (include state)	Lea County, New Mexico	**Sampler Signature:**	Matt Green

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / DRO / TVHC (8015 M)	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC			Turn Around Time if different from standard	Hold
354252	MW-12 @ 10'	1			x							x		2-5	1510		x	x																			
253	MW-12 @ 20'	1			x							x		2-5	1530		x	x																			
254	MW-12 @ 30'	1			x							x		2-5	1600		x	x																			
255	MW-12 @ 40'	1			x							x		2-7	1100		x	x																			
256	MW-12 @ 45'	1			x							x		2-7	1115		x	x																			
257	MW-12 @ 46'	1			x							x		2-7	1120		x	x																			
~~—~~	~~MW-12 @ 49'~~ MB	~~1~~			x							~~x~~		~~2-7~~	1150		x	x																			
258	MW-13 @ 10'	1			x							x		2-7	1410		x	x																			
259	MW-13 @ 15'	1			x							x		2-7	1415		x	x																			
260	MW-13 @ 20'	1			x							x		2-7	1420		x	x																			
261	MW-13 @ 25'	1			x							x		2-7	1425		x	x																			

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Matthew Green	NOVA	2-10-14	1411		TA	2/10/14	11:42	INST IR 1
								OBS 7.9 °C
								COR 1.8 °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST _____
								OBS _____ °C
								COR _____ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST _____
								OBS _____ °C
								COR _____ °C

LAB USE ONLY

Intact (Y / N)

Headspace Y / N / NA

Log-in Review _____

Carrier # Dan

REMARKS: cc: Camille

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions

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LAB Order ID # 1402019

Page _____ of _____

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Ave, Ste 9
Lubbock,Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland,Texas 79703
Tel (432) 689-6301
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200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name:	Nova Safety and Environmental	**Phone #:**	432-520-7720
Address:	2057 Commerce Dr, Midland, TX 79703	**Fax #:**	
Contact Person:	Curt Stanley	**E-mail:**	cstanley@novatraining.cc
Invoice to:	Plains		
Project #:	TNM 98-05A	**Project Name:**	98-05A
Project Location: (include state)	Lea County, New Mexico	**Sampler Signature:**	Matthew Green

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
262	MW-13 @ 30'	1			x							x		2-7	1430
263	MW-13 @ 40'	1			x							x		2-7	1440
264	MW-13 @ 45'	1			x							x		2-7	1445

LAB # (LAB USE ONLY)	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / DRO / TVHC (GRO M)	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC			Turn Around Time if different from standard	Hold
262		x	x																			
263		x	x																			
264		x	x																			

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Matthew Green	NOVA	2-10-14	1411		TA	2/10/14	11:41	INST Ref OBS 1.9 °C COR +.5 °C
								INST _____ OBS _____ °C COR _____ °C
								INST _____ OBS _____ °C COR _____ °C

LAB USE ONLY

Intact (Y / N) _____

Headspace Y / N (NA)

Log-in Review _____

Carrier # _____

REMARKS:

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions

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TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972•242•7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: March 20, 2014

Work Order: 14030601

Project Location: Lea Co., NM
Project Name: 9805-A
Project Number: TNM 98-05A
SRS #: TNM-98-05-A

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
356735	MW-6	water	2014-03-05	13:43	2014-03-06
356736	MW-8	water	2014-03-05	14:02	2014-03-06
356737	MW-1	water	2014-03-05	14:23	2014-03-06
356738	MW-12	water	2014-03-05	15:23	2014-03-06

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Report Contents

Case Narrative

Samples for project 9805-A were received by TraceAnalysis, Inc. on 2014-03-06 and assigned to work order 14030601. Samples for work order 14030601 were received intact without headspace and at a temperature of 5.2 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Ag, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
Alkalinity	SM 2320B	93157	2014-03-07 at 10:43	110195	2014-03-11 at 13:36
Al, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
As, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
Ba, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
BTEX	S 8021B	93006	2014-03-10 at 10:18	109990	2014-03-10 at 11:28
BTEX	S 8021B	93022	2014-03-10 at 14:09	110031	2014-03-11 at 09:42
BTEX	S 8021B	93074	2014-03-12 at 10:10	110106	2014-03-12 at 10:11
B, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
Ca, Dissolved	S 6010C	93247	2014-03-18 at 14:11	110343	2014-03-19 at 15:07
Cd, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
Chloride (IC)	E 300.0	93148	2014-03-07 at 13:53	110166	2014-03-07 at 13:53
Co, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
Cr, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
Cu, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
Fe, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
Fluoride (IC)	E 300.0	93148	2014-03-07 at 13:53	110166	2014-03-07 at 13:53
Hg, Total	S 7470A	93077	2014-03-12 at 08:10	110071	2014-03-12 at 13:20
K, Dissolved	S 6010C	93247	2014-03-18 at 14:11	110343	2014-03-19 at 15:07
Mg, Dissolved	S 6010C	93247	2014-03-18 at 14:11	110343	2014-03-19 at 15:07
Mn, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
Mo, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
Na, Dissolved	S 6010C	93247	2014-03-18 at 14:11	110343	2014-03-19 at 15:07
Ni, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
NO3 (IC)	E 300.0	93148	2014-03-07 at 13:53	110166	2014-03-07 at 13:53
Pb, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
PO4 (IC)	E 300.0	93148	2014-03-07 at 13:53	110166	2014-03-07 at 13:53
Semivolatiles	S 8270D	93176	2014-03-12 at 15:00	110201	2014-03-14 at 16:24
Se, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
SO4 (IC)	E 300.0	93148	2014-03-07 at 13:53	110166	2014-03-07 at 13:53
Volatiles	S 8260 C	93009	2014-03-07 at 12:00	109992	2014-03-07 at 12:00
Zn, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14030601 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined

by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 356735 - MW-6

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	109990	Date Analyzed:	2014-03-10	Analyzed By:	AK
Prep Batch:	93006	Sample Preparation:	2014-03-10	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	3	<0.00100	mg/L	1	0.00100
Toluene	U	3	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	3	<0.00100	mg/L	1	0.00100
Xylene	U	3	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0989	mg/L	1	0.100	99	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0696	mg/L	1	0.100	70	70 - 130

Sample: 356736 - MW-8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	110031	Date Analyzed:	2014-03-11	Analyzed By:	AK
Prep Batch:	93022	Sample Preparation:	2014-03-10	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	3	<0.00100	mg/L	1	0.00100
Toluene	U	3	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	3	<0.00100	mg/L	1	0.00100
Xylene	U	3	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0954	mg/L	1	0.100	95	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0829	mg/L	1	0.100	83	70 - 130

Sample: 356737 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	110106	Date Analyzed:	2014-03-12	Analyzed By:	AK
Prep Batch:	93074	Sample Preparation:	2014-03-12	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qr	3	**1.22**	mg/L	50	0.00100
Toluene	U	3	<0.0500	mg/L	50	0.00100
Ethylbenzene		3	**0.0969**	mg/L	50	0.00100
Xylene		3	<0.150	mg/L	50	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.98	mg/L	50	5.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			4.28	mg/L	50	5.00	86	70 - 130

Sample: 356738 - MW-12

Laboratory:	Lubbock				
Analysis:	Al, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	110098	Date Analyzed:	2014-03-12	Analyzed By:	LM
Prep Batch:	93021	Sample Preparation:		Prepared By:	PM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Aluminum		2	**20.3**	mg/L	10	0.0500

Sample: 356738 - MW-12

Laboratory:	Midland				
Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	110195	Date Analyzed:	2014-03-11	Analyzed By:	AR
Prep Batch:	93157	Sample Preparation:	2014-03-11	Prepared By:	AR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Hydroxide Alkalinity	U	3	<20.0	mg/L as CaCo3	1	20.0
Carbonate Alkalinity	U	3	<20.0	mg/L as CaCo3	1	20.0
Bicarbonate Alkalinity		3	**257**	mg/L as CaCo3	1	20.0
Total Alkalinity		3	**257**	mg/L as CaCo3	1	20.0

Sample: 356738 - MW-12

Laboratory:	Lubbock				
Analysis:	B, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	110098	Date Analyzed:	2014-03-12	Analyzed By:	LM
Prep Batch:	93021	Sample Preparation:		Prepared By:	PM

Parameter	Flag	Cert	Result	Units	Dilution	RL
Total Boron	Qs	2	**0.256**	mg/L	5	0.0100

Sample: 356738 - MW-12

Laboratory:	Lubbock				
Analysis:	Cations	Analytical Method:	S 6010C	Prep Method:	S 3005A
QC Batch:	110343	Date Analyzed:	2014-03-19	Analyzed By:	LM
Prep Batch:	93247	Sample Preparation:	2014-03-18	Prepared By:	PM

Parameter	Flag	Cert	Result	Units	Dilution	RL
Dissolved Calcium		2	**79.4**	mg/L	1	1.00
Dissolved Potassium		2	**12.0**	mg/L	1	1.00
Dissolved Magnesium		2	**58.3**	mg/L	1	1.00
Dissolved Sodium		2	**218**	mg/L	1	1.00

Sample: 356738 - MW-12

Laboratory:	Lubbock				
Analysis:	Co, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	110098	Date Analyzed:	2014-03-12	Analyzed By:	LM
Prep Batch:	93021	Sample Preparation:		Prepared By:	PM

Parameter	Flag	Cert	Result	Units	Dilution	RL
Total Cobalt	U		<0.0500	mg/L	5	0.0100

Sample: 356738 - MW-12

Laboratory:	Lubbock				
Analysis:	Cu, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	110098	Date Analyzed:	2014-03-12	Analyzed By:	LM
Prep Batch:	93021	Sample Preparation:		Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Copper	U		<0.0250	mg/L	5	0.00500

Sample: 356738 - MW-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	110098	Date Analyzed:	2014-03-12	Analyzed By:	LM
Prep Batch:	93021	Sample Preparation:		Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Iron			**15.0**	mg/L	10	0.0100

Sample: 356738 - MW-12

Laboratory:	El Paso				
Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	110166	Date Analyzed:	2014-03-07	Analyzed By:	JR
Prep Batch:	93148	Sample Preparation:	2014-03-07	Prepared By:	JR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Fluoride		1	**2.72**	mg/L	1	0.500
Chloride		1	**289**	mg/L	10	2.50
Nitrate-N	U	1	<0.500	mg/L	1	0.500
PO4-P	U	1	<0.815	mg/L	1	0.815
Sulfate		1	**227**	mg/L	10	2.50

Sample: 356738 - MW-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	110098	Date Analyzed:	2014-03-12	Analyzed By:	LM
Prep Batch:	93021	Sample Preparation:		Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Manganese		2	**0.110**	mg/L	5	0.00500

Sample: 356738 - MW-12

Laboratory:	Lubbock				
Analysis:	Mo, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	110098	Date Analyzed:	2014-03-12	Analyzed By:	LM
Prep Batch:	93021	Sample Preparation:		Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Molybdenum		2	<0.250	mg/L	5	0.0500

Sample: 356738 - MW-12

Laboratory:	Lubbock				
Analysis:	Ni, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	110098	Date Analyzed:	2014-03-12	Analyzed By:	LM
Prep Batch:	93021	Sample Preparation:		Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Nickel	U	2	<0.0500	mg/L	5	0.0100

Sample: 356738 - MW-12

Laboratory:	Lubbock				
Analysis:	Semivolatiles	Analytical Method:	S 8270D	Prep Method:	S 3510C
QC Batch:	110201	Date Analyzed:	2014-03-14	Analyzed By:	MN
Prep Batch:	93176	Sample Preparation:	2014-03-12	Prepared By:	MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Pyridine	U	2	<0.00465	mg/L	0.93	0.00500
N-Nitrosodimethylamine	U	2	<0.00465	mg/L	0.93	0.00500
2-Picoline	U	2	<0.00465	mg/L	0.93	0.00500
Methyl methanesulfonate	U	2	<0.00465	mg/L	0.93	0.00500
Ethyl methanesulfonate	U	2	<0.00465	mg/L	0.93	0.00500
Phenol	U	2	<0.00465	mg/L	0.93	0.00500
Aniline	U	2	<0.00465	mg/L	0.93	0.00500
bis(2-chloroethyl)ether	U	2	<0.00465	mg/L	0.93	0.00500
2-Chlorophenol	U	2	<0.00465	mg/L	0.93	0.00500
1,3-Dichlorobenzene (meta)	U	2	<0.00465	mg/L	0.93	0.00500
1,4-Dichlorobenzene (para)	U	2	<0.00465	mg/L	0.93	0.00500
Benzyl alcohol	U	2	<0.00465	mg/L	0.93	0.00500
1,2-Dichlorobenzene (ortho)	U	2	<0.00465	mg/L	0.93	0.00500
2-Methylphenol	U	2	<0.00465	mg/L	0.93	0.00500

continued ...

sample 356738 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
bis(2-chloroisopropyl)ether	U	2	<0.00465	mg/L	0.93	0.00500
4-Methylphenol / 3-Methylphenol	U	2	<0.00465	mg/L	0.93	0.00500
N-Nitrosodi-n-propylamine	U	2	<0.00465	mg/L	0.93	0.00500
Hexachloroethane	U	2	<0.00465	mg/L	0.93	0.00500
Acetophenone	U	2	<0.00465	mg/L	0.93	0.00500
Nitrobenzene	U	2	<0.00465	mg/L	0.93	0.00500
N-Nitrosopiperidine	U	2	<0.00465	mg/L	0.93	0.00500
Isophorone	U	2	<0.00465	mg/L	0.93	0.00500
2-Nitrophenol	Qc,U	2	<0.00465	mg/L	0.93	0.00500
2,4-Dimethylphenol		2	**0.00521**	mg/L	0.93	0.00500
bis(2-chloroethoxy)methane	U	2	<0.00465	mg/L	0.93	0.00500
2,4-Dichlorophenol	U	2	<0.00465	mg/L	0.93	0.00500
1,2,4-Trichlorobenzene	U	2	<0.00465	mg/L	0.93	0.00500
Benzoic acid	U	2	<0.00465	mg/L	0.93	0.00500
Naphthalene		2	**0.00956**	mg/L	0.93	0.00500
4-Chloroaniline	U	2	<0.00465	mg/L	0.93	0.00500
2,6-Dichlorophenol	U	2	<0.00930	mg/L	0.93	0.0100
Hexachlorobutadiene	U	2	<0.00465	mg/L	0.93	0.00500
N-Nitroso-di-n-butylamine	U	2	<0.00465	mg/L	0.93	0.00500
4-Chloro-3-methylphenol	U	2	<0.00465	mg/L	0.93	0.00500
2-Methylnaphthalene		2	**0.0105**	mg/L	0.93	0.00500
1-Methylnaphthalene			**0.0153**	mg/L	0.93	0.00500
1,2,4,5-Tetrachlorobenzene	U	2	<0.00465	mg/L	0.93	0.00500
Hexachlorocyclopentadiene	U	2	<0.00465	mg/L	0.93	0.00500
2,4,6-Trichlorophenol	U	2	<0.00930	mg/L	0.93	0.0100
2,4,5-Trichlorophenol	U	2	<0.00465	mg/L	0.93	0.00500
2-Chloronaphthalene	U	2	<0.00465	mg/L	0.93	0.00500
1-Chloronaphthalene	U	2	<0.00465	mg/L	0.93	0.00500
2-Nitroaniline	U	2	<0.00465	mg/L	0.93	0.00500
Dimethylphthalate	U	2	<0.00465	mg/L	0.93	0.00500
Acenaphthylene	U	2	<0.00465	mg/L	0.93	0.00500
2,6-Dinitrotoluene	U	2	<0.00465	mg/L	0.93	0.00500
3-Nitroaniline	U	2	<0.00465	mg/L	0.93	0.00500
Acenaphthene	U	2	<0.00465	mg/L	0.93	0.00500
2,4-Dinitrophenol	U	2	<0.00465	mg/L	0.93	0.00500
Dibenzofuran		2	<0.00465	mg/L	0.93	0.00500
Pentachlorobenzene	U	2	<0.00465	mg/L	0.93	0.00500
4-Nitrophenol	Qr,U	2	<0.0232	mg/L	0.93	0.0250
2,4-Dinitrotoluene	U	2	<0.00465	mg/L	0.93	0.00500
1-Naphthylamine	U	2	<0.00465	mg/L	0.93	0.00500
2,3,4,6-Tetrachlorophenol	U	2	<0.00930	mg/L	0.93	0.0100
2-Naphthylamine	U	2	<0.00465	mg/L	0.93	0.00500
Fluorene		2	<0.00465	mg/L	0.93	0.00500

continued . . .

sample 356738 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
4-Chlorophenyl-phenylether	U	2	<0.00465	mg/L	0.93	0.00500
Diethylphthalate	U	2	<0.00465	mg/L	0.93	0.00500
4-Nitroaniline	U	2	<0.00465	mg/L	0.93	0.00500
Diphenylhydrazine	U		<0.00465	mg/L	0.93	0.00500
4,6-Dinitro-2-methylphenol	U	2	<0.00465	mg/L	0.93	0.00500
Diphenylamine	U	2	<0.00465	mg/L	0.93	0.00500
4-Bromophenyl-phenylether	U	2	<0.00465	mg/L	0.93	0.00500
Phenacetin	U	2	<0.00465	mg/L	0.93	0.00500
Hexachlorobenzene	U	2	<0.00465	mg/L	0.93	0.00500
4-Aminobiphenyl	U	2	<0.00465	mg/L	0.93	0.00500
Pentachlorophenol	Qs,U	2	<0.00930	mg/L	0.93	0.0100
Anthracene	U	2	<0.00465	mg/L	0.93	0.00500
Pentachloronitrobenzene	U	2	<0.00465	mg/L	0.93	0.00500
Pronamide	U	2	<0.00465	mg/L	0.93	0.00500
Phenanthrene		2	<0.00465	mg/L	0.93	0.00500
Di-n-butylphthalate	U	2	<0.00465	mg/L	0.93	0.00500
Fluoranthene	U	2	<0.00465	mg/L	0.93	0.00500
Benzidine	U	2	<0.0232	mg/L	0.93	0.0250
Pyrene	U	2	<0.00465	mg/L	0.93	0.00500
p-Dimethylaminoazobenzene	U		<0.00465	mg/L	0.93	0.00500
Butylbenzylphthalate	U	2	<0.00465	mg/L	0.93	0.00500
Benzo(a)anthracene	U	2	<0.00465	mg/L	0.93	0.00500
3,3-Dichlorobenzidine	U	2	<0.00465	mg/L	0.93	0.00500
Chrysene	Qs,U	2	<0.00465	mg/L	0.93	0.00500
bis(2-ethylhexyl)phthalate	U	2	<0.00465	mg/L	0.93	0.00500
Di-n-octylphthalate	Qc,U	2	<0.00465	mg/L	0.93	0.00500
Benzo(b)fluoranthene	Qr,U	2	<0.00465	mg/L	0.93	0.00500
Benzo(k)fluoranthene	Qr,U	2	<0.00465	mg/L	0.93	0.00500
7,12-Dimethylbenz(a)anthracene	U	2	<0.00465	mg/L	0.93	0.00500
Benzo(a)pyrene	Qr,U	2	<0.00465	mg/L	0.93	0.00500
3-Methylcholanthrene	U	2	<0.00465	mg/L	0.93	0.00500
Dibenzo(a,j)acridine	U	2	<0.00465	mg/L	0.93	0.00500
Indeno(1,2,3-cd)pyrene	Qr,U	2	<0.00465	mg/L	0.93	0.00500
Dibenzo(a,h)anthracene	Qr,Qs,U	2	<0.00465	mg/L	0.93	0.00500
Benzo(g,h,i)perylene	Qr,U	2	<0.00465	mg/L	0.93	0.00500

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol			0.0266	mg/L	0.93	0.0800	33	19 - 119
Phenol-d5			0.0179	mg/L	0.93	0.0800	22	10 - 120
Nitrobenzene-d5			0.0472	mg/L	0.93	0.0800	59	44 - 120
2-Fluorobiphenyl			0.0463	mg/L	0.93	0.0800	58	44 - 119
2,4,6-Tribromophenol			0.0598	mg/L	0.93	0.0800	75	43 - 140

continued . . .

sample continued . . .

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Terphenyl-d14			0.0508	mg/L	0.93	0.0800	64	50 - 134

Sample: 356738 - MW-12

Laboratory:	Lubbock				
Analysis:	Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	N/A
QC Batch:	110071	Date Analyzed:	2014-03-12	Analyzed By:	TP
Prep Batch:	93077	Sample Preparation:	2014-03-12	Prepared By:	TP
Laboratory:	Lubbock				
Analysis:	Total 8 Metals	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	110098	Date Analyzed:	2014-03-12	Analyzed By:	LM
Prep Batch:	93021	Sample Preparation:		Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Silver	U	2	<0.0250	mg/L	5	0.00500
Total Arsenic	U	2	<0.0500	mg/L	5	0.0100
Total Barium	U	2	<0.0500	mg/L	5	0.0100
Total Cadmium	U	2	<0.0500	mg/L	5	0.0100
Total Chromium	U	2	<0.0500	mg/L	5	0.0100
Total Mercury	U	2	<0.000200	mg/L	1	0.000200
Total Lead	U	2	<0.0500	mg/L	5	0.0100
Total Selenium	U	2	<0.100	mg/L	5	0.0200

Sample: 356738 - MW-12

Laboratory:	Lubbock				
Analysis:	Volatiles	Analytical Method:	S 8260 C	Prep Method:	S 5030B
QC Batch:	109992	Date Analyzed:	2014-03-07	Analyzed By:	KB
Prep Batch:	93009	Sample Preparation:	2014-03-07	Prepared By:	KB

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Bromochloromethane	U	2	<1.00	µg/L	1	1.00
Dichlorodifluoromethane	U	2	<1.00	µg/L	1	1.00
Chloromethane (methyl chloride)	U	2	<1.00	µg/L	1	1.00
Vinyl Chloride	U	2	<1.00	µg/L	1	1.00
Bromomethane (methyl bromide)	U	2	<5.00	µg/L	1	5.00
Chloroethane	U	2	<1.00	µg/L	1	1.00
Trichlorofluoromethane	Qc,U	2	<1.00	µg/L	1	1.00
Acetone		2	**12.3**	µg/L	1	10.0
Iodomethane (methyl iodide)		2	**9.96**	µg/L	1	5.00

continued . . .

sample 356738 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Carbon Disulfide	U	2	<1.00	µg/L	1	1.00
Acrylonitrile	U	2	<1.00	µg/L	1	1.00
2-Butanone (MEK)		2	<5.00	µg/L	1	5.00
4-Methyl-2-pentanone (MIBK)		2	<5.00	µg/L	1	5.00
2-Hexanone		2	<5.00	µg/L	1	5.00
trans 1,4-Dichloro-2-butene	U	2	<10.0	µg/L	1	10.0
1,1-Dichloroethene	U	2	<1.00	µg/L	1	1.00
Methylene chloride	U	2	<5.00	µg/L	1	5.00
MTBE	U	2	<1.00	µg/L	1	1.00
trans-1,2-Dichloroethene	U	2	<1.00	µg/L	1	1.00
1,1-Dichloroethane	U	2	<1.00	µg/L	1	1.00
cis-1,2-Dichloroethene	U	2	<1.00	µg/L	1	1.00
2,2-Dichloropropane	Qc,U	2	<1.00	µg/L	1	1.00
1,2-Dichloroethane (EDC)	U	2	<1.00	µg/L	1	1.00
Chloroform	U	2	<1.00	µg/L	1	1.00
1,1,1-Trichloroethane	U	2	<1.00	µg/L	1	1.00
1,1-Dichloropropene	U	2	<1.00	µg/L	1	1.00
Benzene		2	**21.9**	µg/L	1	1.00
Carbon Tetrachloride	U	2	<1.00	µg/L	1	1.00
1,2-Dichloropropane	U	2	<1.00	µg/L	1	1.00
Trichloroethene (TCE)	U	2	<1.00	µg/L	1	1.00
Dibromomethane (methylene bromide)	U	2	<1.00	µg/L	1	1.00
Bromodichloromethane	U	2	<1.00	µg/L	1	1.00
2-Chloroethyl vinyl ether	Qc,U	2	<5.00	µg/L	1	5.00
cis-1,3-Dichloropropene	U	2	<1.00	µg/L	1	1.00
trans-1,3-Dichloropropene	U	2	<1.00	µg/L	1	1.00
Toluene		2	<1.00	µg/L	1	1.00
1,1,2-Trichloroethane	U	2	<1.00	µg/L	1	1.00
1,3-Dichloropropane	U	2	<1.00	µg/L	1	1.00
Dibromochloromethane	U	2	<1.00	µg/L	1	1.00
1,2-Dibromoethane (EDB)	U	2	<1.00	µg/L	1	1.00
Tetrachloroethene (PCE)	Qc,U	2	<1.00	µg/L	1	1.00
Chlorobenzene	U	2	<1.00	µg/L	1	1.00
1,1,1,2-Tetrachloroethane	U	2	<1.00	µg/L	1	1.00
Ethylbenzene		2	**25.9**	µg/L	1	1.00
m,p-Xylene		2	**27.8**	µg/L	1	1.00
Bromoform	U	2	<1.00	µg/L	1	1.00
Styrene	U	2	<1.00	µg/L	1	1.00
o-Xylene		2	**18.0**	µg/L	1	1.00
1,1,2,2-Tetrachloroethane		2	<1.00	µg/L	1	1.00
2-Chlorotoluene	U	2	<1.00	µg/L	1	1.00
1,2,3-Trichloropropane	U	2	<1.00	µg/L	1	1.00
Isopropylbenzene		2	**3.77**	µg/L	1	1.00

continued . . .

sample 356738 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Bromobenzene	U	2	<1.00	µg/L	1	1.00
n-Propylbenzene		2	**4.82**	µg/L	1	1.00
1,3,5-Trimethylbenzene		2	**11.0**	µg/L	1	1.00
tert-Butylbenzene	U	2	<1.00	µg/L	1	1.00
1,2,4-Trimethylbenzene		2	**25.0**	µg/L	1	1.00
1,4-Dichlorobenzene (para)	U	2	<1.00	µg/L	1	1.00
sec-Butylbenzene		2	**2.50**	µg/L	1	1.00
1,3-Dichlorobenzene (meta)	U	2	<1.00	µg/L	1	1.00
p-Isopropyltoluene		2	**2.59**	µg/L	1	1.00
4-Chlorotoluene	U	2	<1.00	µg/L	1	1.00
1,2-Dichlorobenzene (ortho)	U	2	<1.00	µg/L	1	1.00
n-Butylbenzene		2	**3.00**	µg/L	1	1.00
1,2-Dibromo-3-chloropropane	U	2	<5.00	µg/L	1	5.00
1,2,3-Trichlorobenzene	U	2	<5.00	µg/L	1	5.00
1,2,4-Trichlorobenzene	U	2	<5.00	µg/L	1	5.00
Naphthalene		2	**24.0**	µg/L	1	5.00
Hexachlorobutadiene	Jb	2	<5.00	µg/L	1	5.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane			53.2	µg/L	1	50.0	106	70 - 130
Toluene-d8			49.7	µg/L	1	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)			51.8	µg/L	1	50.0	104	70 - 130

Sample: 356738 - MW-12

Laboratory:	Lubbock				
Analysis:	Zn, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	110098	Date Analyzed:	2014-03-12	Analyzed By:	LM
Prep Batch:	93021	Sample Preparation:		Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Zinc		2	**0.0805**	mg/L	5	0.0100

Method Blanks

Method Blank (1) QC Batch: 109990

QC Batch:	109990	Date Analyzed:	2014-03-10	Analyzed By:	AK
Prep Batch:	93006	QC Preparation:	2014-03-10	Prepared By:	AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		3	<0.000238	mg/L	0.001
Toluene		3	<0.000181	mg/L	0.001
Ethylbenzene		3	<0.000247	mg/L	0.001
Xylene		3	<0.000189	mg/L	0.003

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0997	mg/L	1	0.100	100	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0728	mg/L	1	0.100	73	70 - 130

Method Blank (1) QC Batch: 109992

QC Batch:	109992	Date Analyzed:	2014-03-07	Analyzed By:	KB
Prep Batch:	93009	QC Preparation:	2014-03-07	Prepared By:	KB

Parameter	Flag	Cert	MDL Result	Units	RL
Bromochloromethane		2	<0.310	µg/L	1
Dichlorodifluoromethane		2	<0.340	µg/L	1
Chloromethane (methyl chloride)		2	<0.490	µg/L	1
Vinyl Chloride		2	<0.460	µg/L	1
Bromomethane (methyl bromide)		2	<0.510	µg/L	5
Chloroethane		2	<0.440	µg/L	1
Trichlorofluoromethane		2	<0.470	µg/L	1
Acetone		2	<2.99	µg/L	10
Iodomethane (methyl iodide)		2	<0.330	µg/L	5
Carbon Disulfide		2	<0.300	µg/L	1
Acrylonitrile		2	<0.410	µg/L	1
2-Butanone (MEK)		2	<0.660	µg/L	5
4-Methyl-2-pentanone (MIBK)		2	<0.340	µg/L	5
2-Hexanone		2	<0.550	µg/L	5
trans 1,4-Dichloro-2-butene		2	<0.260	µg/L	10

continued . . .

method blank continued ...

Parameter	Flag	Cert	MDL Result	Units	RL
1,1-Dichloroethene		2	<0.350	µg/L	1
Methylene chloride		2	<1.15	µg/L	5
MTBE		2	<0.300	µg/L	1
trans-1,2-Dichloroethene		2	<0.330	µg/L	1
1,1-Dichloroethane		2	<0.350	µg/L	1
cis-1,2-Dichloroethene		2	<0.280	µg/L	1
2,2-Dichloropropane		2	<0.360	µg/L	1
1,2-Dichloroethane (EDC)		2	<0.350	µg/L	1
Chloroform		2	<0.280	µg/L	1
1,1,1-Trichloroethane		2	<0.320	µg/L	1
1,1-Dichloropropene		2	<0.280	µg/L	1
Benzene		2	<0.370	µg/L	1
Carbon Tetrachloride		2	<0.370	µg/L	1
1,2-Dichloropropane		2	<0.320	µg/L	1
Trichloroethene (TCE)		2	<0.360	µg/L	1
Dibromomethane (methylene bromide)		2	<0.280	µg/L	1
Bromodichloromethane		2	<0.260	µg/L	1
2-Chloroethyl vinyl ether		2	<0.370	µg/L	5
cis-1,3-Dichloropropene		2	<0.230	µg/L	1
trans-1,3-Dichloropropene		2	<0.200	µg/L	1
Toluene		2	<0.330	µg/L	1
1,1,2-Trichloroethane		2	<0.360	µg/L	1
1,3-Dichloropropane		2	<0.300	µg/L	1
Dibromochloromethane		2	<0.230	µg/L	1
1,2-Dibromoethane (EDB)		2	<0.260	µg/L	1
Tetrachloroethene (PCE)		2	<0.480	µg/L	1
Chlorobenzene		2	<0.290	µg/L	1
1,1,1,2-Tetrachloroethane		2	<0.330	µg/L	1
Ethylbenzene		2	<0.310	µg/L	1
m,p-Xylene		2	<0.570	µg/L	1
Bromoform		2	<0.210	µg/L	1
Styrene		2	<0.290	µg/L	1
o-Xylene		2	<0.300	µg/L	1
1,1,2,2-Tetrachloroethane		2	<0.180	µg/L	1
2-Chlorotoluene		2	<0.300	µg/L	1
1,2,3-Trichloropropane		2	<0.210	µg/L	1
Isopropylbenzene		2	<0.300	µg/L	1
Bromobenzene		2	<0.280	µg/L	1
n-Propylbenzene		2	<0.270	µg/L	1
1,3,5-Trimethylbenzene		2	<0.280	µg/L	1
tert-Butylbenzene		2	<0.220	µg/L	1
1,2,4-Trimethylbenzene		2	<0.310	µg/L	1
1,4-Dichlorobenzene (para)		2	<0.220	µg/L	1
sec-Butylbenzene		2	<0.280	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	Cert	MDL Result	Units	RL
1,3-Dichlorobenzene (meta)		2	<0.260	µg/L	1
p-Isopropyltoluene		2	<0.260	µg/L	1
4-Chlorotoluene		2	<0.260	µg/L	1
1,2-Dichlorobenzene (ortho)		2	<0.250	µg/L	1
n-Butylbenzene		2	<0.240	µg/L	1
1,2-Dibromo-3-chloropropane		2	<0.290	µg/L	5
1,2,3-Trichlorobenzene		2	<0.180	µg/L	5
1,2,4-Trichlorobenzene		2	<0.230	µg/L	5
Naphthalene		2	<1.38	µg/L	5
Hexachlorobutadiene		2	1.40	µg/L	5

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane			53.6	µg/L	1	50.0	107	70 - 130
Toluene-d8			50.2	µg/L	1	50.0	100	70 - 130
4-Bromofluorobenzene (4-BFB)			49.7	µg/L	1	50.0	99	70 - 130

Method Blank (1) QC Batch: 110031

QC Batch: 110031 Date Analyzed: 2014-03-11 Analyzed By: AK
Prep Batch: 93022 QC Preparation: 2014-03-10 Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		3	<0.000238	mg/L	0.001
Toluene		3	<0.000181	mg/L	0.001
Ethylbenzene		3	<0.000247	mg/L	0.001
Xylene		3	<0.000189	mg/L	0.003

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0993	mg/L	1	0.100	99	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0846	mg/L	1	0.100	85	70 - 130

Method Blank (1) QC Batch: 110071

QC Batch: 110071 Date Analyzed: 2014-03-12 Analyzed By: TP
Prep Batch: 93077 QC Preparation: 2014-03-12 Prepared By: TP

Parameter	Flag	Cert	MDL Result	Units	RL
Total Mercury		2	<0.0000602	mg/L	0.0002

Method Blank (1) QC Batch: 110098

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM
Prep Batch: 93021 QC Preparation: 2014-03-10 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Aluminum		2	<0.0164	mg/L	0.05

Method Blank (1) QC Batch: 110098

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM
Prep Batch: 93021 QC Preparation: 2014-03-10 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Boron		2	<0.00348	mg/L	0.01

Method Blank (1) QC Batch: 110098

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM
Prep Batch: 93021 QC Preparation: 2014-03-10 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Cobalt			<0.00251	mg/L	0.01

Method Blank (1) QC Batch: 110098

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM
Prep Batch: 93021 QC Preparation: 2014-03-10 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Copper			<0.00101	mg/L	0.005

Method Blank (1) QC Batch: 110098

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM
Prep Batch: 93021 QC Preparation: 2014-03-10 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Iron			<0.00892	mg/L	0.01

Method Blank (1) QC Batch: 110098

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM
Prep Batch: 93021 QC Preparation: 2014-03-10 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Manganese		2	<0.00201	mg/L	0.005

Method Blank (1) QC Batch: 110098

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM
Prep Batch: 93021 QC Preparation: 2014-03-10 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Molybdenum		2	<0.000552	mg/L	0.05

Method Blank (1) QC Batch: 110098

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM
Prep Batch: 93021 QC Preparation: 2014-03-10 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Nickel		2	<0.00129	mg/L	0.01

Method Blank (1) QC Batch: 110098

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM
Prep Batch: 93021 QC Preparation: 2014-03-10 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Zinc		2	<0.00467	mg/L	0.01

Method Blank (1) QC Batch: 110098

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM
Prep Batch: 93021 QC Preparation: 2014-03-10 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Silver		2	<0.000352	mg/L	0.005
Total Arsenic		2	<0.00258	mg/L	0.01
Total Barium		2	<0.00310	mg/L	0.01
Total Cadmium		2	<0.000281	mg/L	0.01
Total Chromium		2	<0.00130	mg/L	0.01
Total Lead		2	<0.00246	mg/L	0.01
Total Selenium		2	<0.00420	mg/L	0.02

Method Blank (1) QC Batch: 110106

QC Batch: 110106 Date Analyzed: 2014-03-12 Analyzed By: AK
Prep Batch: 93074 QC Preparation: 2014-03-12 Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		3	<0.000238	mg/L	0.001
Toluene		3	<0.000181	mg/L	0.001
Ethylbenzene		3	<0.000247	mg/L	0.001

continued ...

method blank continued ...

Parameter	Flag	Cert	MDL Result	Units	RL
Xylene		3	<0.000189	mg/L	0.003

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0961	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0829	mg/L	1	0.100	83	70 - 130

Method Blank (1) QC Batch: 110166

QC Batch: 110166 Date Analyzed: 2014-03-07 Analyzed By: JR
Prep Batch: 93148 QC Preparation: 2014-03-07 Prepared By: JR

Parameter	Flag	Cert	MDL Result	Units	RL
Fluoride		1	<0.0341	mg/L	0.5
Chloride		1	<0.678	mg/L	2.5
Nitrate-N		1	<0.0374	mg/L	0.5
PO4-P		1	<0.0423	mg/L	0.815
Sulfate		1	<0.0260	mg/L	2.5

Method Blank (1) QC Batch: 110195

QC Batch: 110195 Date Analyzed: 2014-03-11 Analyzed By: AR
Prep Batch: 93157 QC Preparation: 2014-03-07 Prepared By: AR

Parameter	Flag	Cert	MDL Result	Units	RL
Hydroxide Alkalinity		3	<20.0	mg/L as CaCo3	20
Carbonate Alkalinity		3	<20.0	mg/L as CaCo3	20
Bicarbonate Alkalinity		3	<20.0	mg/L as CaCo3	20
Total Alkalinity		3	<20.0	mg/L as CaCo3	20

Method Blank (1) QC Batch: 110201

QC Batch: 110201 Date Analyzed: 2014-03-14 Analyzed By: MN
Prep Batch: 93176 QC Preparation: 2014-03-12 Prepared By: MN

Parameter	Flag	Cert	MDL Result	Units	RL
Pyridine		2	<0.00133	mg/L	0.005
N-Nitrosodimethylamine		2	<0.000694	mg/L	0.005
2-Picoline		2	<0.00125	mg/L	0.005
Methyl methanesulfonate		2	<0.00120	mg/L	0.005
Ethyl methanesulfonate		2	<0.000568	mg/L	0.005
Phenol		2	<0.000555	mg/L	0.005
Aniline		2	<0.00134	mg/L	0.005
bis(2-chloroethyl)ether		2	<0.00108	mg/L	0.005
2-Chlorophenol		2	<0.00106	mg/L	0.005
1,3-Dichlorobenzene (meta)		2	<0.000782	mg/L	0.005
1,4-Dichlorobenzene (para)		2	<0.000686	mg/L	0.005
Benzyl alcohol		2	<0.00117	mg/L	0.005
1,2-Dichlorobenzene (ortho)		2	<0.000707	mg/L	0.005
2-Methylphenol		2	<0.000881	mg/L	0.005
bis(2-chloroisopropyl)ether		2	<0.000547	mg/L	0.005
4-Methylphenol / 3-Methylphenol		2	<0.00150	mg/L	0.005
N-Nitrosodi-n-propylamine		2	<0.000938	mg/L	0.005
Hexachloroethane		2	<0.000748	mg/L	0.005
Acetophenone		2	<0.000798	mg/L	0.005
Nitrobenzene		2	<0.000702	mg/L	0.005
N-Nitrosopiperidine		2	<0.000976	mg/L	0.005
Isophorone		2	<0.000976	mg/L	0.005
2-Nitrophenol		2	<0.000943	mg/L	0.005
2,4-Dimethylphenol		2	<0.00109	mg/L	0.005
bis(2-chloroethoxy)methane		2	<0.00102	mg/L	0.005
2,4-Dichlorophenol		2	<0.00116	mg/L	0.005
1,2,4-Trichlorobenzene		2	<0.000675	mg/L	0.005
Benzoic acid		2	<0.00120	mg/L	0.005
Naphthalene		2	<0.000832	mg/L	0.005
4-Chloroaniline		2	<0.00122	mg/L	0.005
2,6-Dichlorophenol		2	<0.00120	mg/L	0.01
Hexachlorobutadiene		2	<0.00249	mg/L	0.005
N-Nitroso-di-n-butylamine		2	<0.00115	mg/L	0.005
4-Chloro-3-methylphenol		2	<0.00128	mg/L	0.005
2-Methylnaphthalene		2	<0.000739	mg/L	0.005
1-Methylnaphthalene			<0.00104	mg/L	0.005
1,2,4,5-Tetrachlorobenzene		2	<0.000764	mg/L	0.005
Hexachlorocyclopentadiene		2	<0.000511	mg/L	0.005
2,4,6-Trichlorophenol		2	<0.000809	mg/L	0.01
2,4,5-Trichlorophenol		2	<0.00112	mg/L	0.005
2-Chloronaphthalene		2	<0.000878	mg/L	0.005
1-Chloronaphthalene		2	<0.000811	mg/L	0.005
2-Nitroaniline		2	<0.000832	mg/L	0.005
Dimethylphthalate		2	<0.000875	mg/L	0.005
Acenaphthylene		2	<0.000817	mg/L	0.005

continued . . .

method blank continued ...

Parameter	Flag	Cert	MDL Result	Units	RL
2,6-Dinitrotoluene		2	<0.000863	mg/L	0.005
3-Nitroaniline		2	<0.00179	mg/L	0.005
Acenaphthene		2	<0.000731	mg/L	0.005
2,4-Dinitrophenol		2	<0.00168	mg/L	0.005
Dibenzofuran		2	<0.000857	mg/L	0.005
Pentachlorobenzene		2	<0.000862	mg/L	0.005
4-Nitrophenol		2	<0.00123	mg/L	0.025
2,4-Dinitrotoluene		2	<0.00142	mg/L	0.005
1-Naphthylamine		2	<0.000803	mg/L	0.005
2,3,4,6-Tetrachlorophenol		2	<0.000858	mg/L	0.01
2-Naphthylamine		2	<0.000985	mg/L	0.005
Fluorene		2	<0.000699	mg/L	0.005
4-Chlorophenyl-phenylether		2	<0.000608	mg/L	0.005
Diethylphthalate		2	<0.000746	mg/L	0.005
4-Nitroaniline		2	<0.00105	mg/L	0.005
Diphenylhydrazine			<0.000571	mg/L	0.005
4,6-Dinitro-2-methylphenol		2	<0.00124	mg/L	0.005
Diphenylamine		2	<0.000798	mg/L	0.005
4-Bromophenyl-phenylether		2	<0.000799	mg/L	0.005
Phenacetin		2	<0.000695	mg/L	0.005
Hexachlorobenzene		2	<0.000668	mg/L	0.005
4-Aminobiphenyl		2	<0.00104	mg/L	0.005
Pentachlorophenol		2	<0.00120	mg/L	0.01
Anthracene		2	<0.000803	mg/L	0.005
Pentachloronitrobenzene		2	<0.000613	mg/L	0.005
Pronamide		2	<0.000611	mg/L	0.005
Phenanthrene		2	<0.000777	mg/L	0.005
Di-n-butylphthalate		2	<0.00296	mg/L	0.005
Fluoranthene		2	<0.000665	mg/L	0.005
Benzidine		2	<0.00124	mg/L	0.025
Pyrene		2	<0.000690	mg/L	0.005
p-Dimethylaminoazobenzene			<0.00106	mg/L	0.005
Butylbenzylphthalate		2	<0.000758	mg/L	0.005
Benzo(a)anthracene		2	<0.000768	mg/L	0.005
3,3-Dichlorobenzidine		2	<0.000620	mg/L	0.005
Chrysene		2	<0.000611	mg/L	0.005
bis(2-ethylhexyl)phthalate		2	<0.000997	mg/L	0.005
Di-n-octylphthalate		2	<0.000801	mg/L	0.005
Benzo(b)fluoranthene		2	<0.000626	mg/L	0.005
Benzo(k)fluoranthene		2	<0.000603	mg/L	0.005
7,12-Dimethylbenz(a)anthracene		2	<0.000685	mg/L	0.005
Benzo(a)pyrene		2	<0.000540	mg/L	0.005
3-Methylcholanthrene		2	<0.000738	mg/L	0.005
Dibenzo(a,j)acridine		2	<0.00162	mg/L	0.005

continued ...

method blank continued ...

Parameter	Flag	Cert	MDL Result	Units	RL
Indeno(1,2,3-cd)pyrene		2	<0.000515	mg/L	0.005
Dibenzo(a,h)anthracene		2	<0.000512	mg/L	0.005
Benzo(g,h,i)perylene		2	<0.000589	mg/L	0.005

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol			0.0508	mg/L	1	0.0800	64	19 - 119
Phenol-d5			0.0510	mg/L	1	0.0800	64	10 - 120
Nitrobenzene-d5			0.0545	mg/L	1	0.0800	68	44 - 120
2-Fluorobiphenyl			0.0542	mg/L	1	0.0800	68	44 - 119
2,4,6-Tribromophenol			0.0510	mg/L	1	0.0800	64	43 - 140
Terphenyl-d14			0.0523	mg/L	1	0.0800	65	50 - 134

Method Blank (1) QC Batch: 110343

QC Batch: 110343 | Date Analyzed: 2014-03-19 | Analyzed By: LM
Prep Batch: 93247 | QC Preparation: 2014-03-18 | Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Dissolved Calcium		2	<0.0441	mg/L	1
Dissolved Potassium		2	<0.0443	mg/L	1
Dissolved Magnesium		2	<0.0296	mg/L	1
Dissolved Sodium		2	<0.172	mg/L	1

Duplicates (1) Duplicated Sample: 356738

QC Batch: 110195 | Date Analyzed: 2014-03-11 | Analyzed By: AR
Prep Batch: 93157 | QC Preparation: 2014-03-07 | Prepared By: AR

Param		Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	3	<20.0	<20.0	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	3	<20.0	<20.0	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	3	259	257	mg/L as CaCo3	1	1	20
Total Alkalinity	3	259	257	mg/L as CaCo3	1	1	20

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109990 | Date Analyzed: 2014-03-10 | Analyzed By: AK
Prep Batch: 93006 | QC Preparation: 2014-03-10 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		3	0.106	mg/L	1	0.100	<0.000238	106	70 - 130
Toluene		3	0.107	mg/L	1	0.100	<0.000181	107	70 - 130
Ethylbenzene		3	0.103	mg/L	1	0.100	<0.000247	103	70 - 130
Xylene		3	0.314	mg/L	1	0.300	<0.000189	105	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		3	0.110	mg/L	1	0.100	<0.000238	110	70 - 130	4	20
Toluene		3	0.111	mg/L	1	0.100	<0.000181	111	70 - 130	4	20
Ethylbenzene		3	0.106	mg/L	1	0.100	<0.000247	106	70 - 130	3	20
Xylene		3	0.322	mg/L	1	0.300	<0.000189	107	70 - 130	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.102	0.102	mg/L	1	0.100	102	102	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0878	0.0869	mg/L	1	0.100	88	87	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 109992 | Date Analyzed: 2014-03-07 | Analyzed By: KB
Prep Batch: 93009 | QC Preparation: 2014-03-07 | Prepared By: KB

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane		2	46.7	µg/L	1	50.0	<0.310	93	77 - 128
Dichlorodifluoromethane		2	54.2	µg/L	1	50.0	<0.340	108	43.1 - 158
Chloromethane (methyl chloride)		2	49.3	µg/L	1	50.0	<0.490	99	64.5 - 143
Vinyl Chloride		2	51.1	µg/L	1	50.0	<0.460	102	62.9 - 149
Bromomethane (methyl bromide)		2	52.6	µg/L	1	50.0	<0.510	105	38.9 - 180

continued ...

control spikes continued . . .

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloroethane		2	50.1	µg/L	1	50.0	<0.440	100	64.6 - 150
Trichlorofluoromethane		2	55.9	µg/L	1	50.0	<0.470	112	52.6 - 157
Acetone		2	49.4	µg/L	1	50.0	<2.99	99	18.6 - 181
Iodomethane (methyl iodide)		2	50.1	µg/L	1	50.0	<0.330	100	75.6 - 136
Carbon Disulfide		2	48.5	µg/L	1	50.0	<0.300	97	78.1 - 132
Acrylonitrile		2	42.1	µg/L	1	50.0	<0.410	84	65.2 - 132
2-Butanone (MEK)		2	47.3	µg/L	1	50.0	<0.660	95	46.2 - 135
4-Methyl-2-pentanone (MIBK)		2	48.9	µg/L	1	50.0	<0.340	98	60.7 - 134
2-Hexanone		2	48.6	µg/L	1	50.0	<0.550	97	50.5 - 133
trans 1,4-Dichloro-2-butene		2	52.1	µg/L	1	50.0	<0.260	104	43.5 - 142
1,1-Dichloroethene		2	47.9	µg/L	1	50.0	<0.350	96	73.1 - 133
Methylene chloride		2	48.6	µg/L	1	50.0	<1.15	97	74.4 - 128
MTBE		2	51.4	µg/L	1	50.0	<0.300	103	72.9 - 133
trans-1,2-Dichloroethene		2	48.6	µg/L	1	50.0	<0.330	97	79.6 - 126
1,1-Dichloroethane		2	49.9	µg/L	1	50.0	<0.350	100	80 - 126
cis-1,2-Dichloroethene		2	48.4	µg/L	1	50.0	<0.280	97	80 - 126
2,2-Dichloropropane		2	66.5	µg/L	1	50.0	<0.360	133	51.5 - 152
1,2-Dichloroethane (EDC)		2	52.6	µg/L	1	50.0	<0.350	105	73.3 - 131
Chloroform		2	50.7	µg/L	1	50.0	<0.280	101	75.6 - 128
1,1,1-Trichloroethane		2	57.3	µg/L	1	50.0	<0.320	115	75.8 - 135
1,1-Dichloropropene		2	52.1	µg/L	1	50.0	<0.280	104	80 - 131
Benzene		2	47.4	µg/L	1	50.0	<0.370	95	80 - 124
Carbon Tetrachloride		2	57.8	µg/L	1	50.0	<0.370	116	76.7 - 136
1,2-Dichloropropane		2	46.6	µg/L	1	50.0	<0.320	93	76.7 - 129
Trichloroethene (TCE)		2	48.3	µg/L	1	50.0	<0.360	97	72.5 - 142
Dibromomethane (methylene bromide)		2	47.3	µg/L	1	50.0	<0.280	95	72.6 - 128
Bromodichloromethane		2	50.4	µg/L	1	50.0	<0.260	101	74.8 - 129
2-Chloroethyl vinyl ether		2	38.9	µg/L	1	50.0	<0.370	78	48.6 - 140
cis-1,3-Dichloropropene		2	50.1	µg/L	1	50.0	<0.230	100	75.6 - 131
trans-1,3-Dichloropropene		2	51.4	µg/L	1	50.0	<0.200	103	68.8 - 131
Toluene		2	48.6	µg/L	1	50.0	<0.330	97	78.8 - 126
1,1,2-Trichloroethane		2	48.8	µg/L	1	50.0	<0.360	98	74 - 120
1,3-Dichloropropane		2	50.3	µg/L	1	50.0	<0.300	101	71.5 - 121
Dibromochloromethane		2	51.3	µg/L	1	50.0	<0.230	103	72.5 - 120
1,2-Dibromoethane (EDB)		2	48.6	µg/L	1	50.0	<0.260	97	75.2 - 120
Tetrachloroethene (PCE)		2	36.1	µg/L	1	50.0	<0.480	72	28.2 - 170
Chlorobenzene		2	45.4	µg/L	1	50.0	<0.290	91	80 - 120
1,1,1,2-Tetrachloroethane		2	47.8	µg/L	1	50.0	<0.330	96	74.8 - 123
Ethylbenzene		2	48.6	µg/L	1	50.0	<0.310	97	80 - 120
m,p-Xylene		2	98.2	µg/L	1	100	<0.570	98	80 - 120
Bromoform		2	49.2	µg/L	1	50.0	<0.210	98	67.2 - 123
Styrene		2	47.7	µg/L	1	50.0	<0.290	95	74.5 - 127
o-Xylene		2	48.7	µg/L	1	50.0	<0.300	97	77.6 - 124
1,1,2,2-Tetrachloroethane		2	48.2	µg/L	1	50.0	<0.180	96	60.3 - 123

continued . . .

control spikes continued . . .

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
2-Chlorotoluene		2	47.2	µg/L	1	50.0	<0.300	94	80 - 120
1,2,3-Trichloropropane		2	48.4	µg/L	1	50.0	<0.210	97	72.8 - 120
Isopropylbenzene		2	47.4	µg/L	1	50.0	<0.300	95	80 - 123
Bromobenzene		2	49.9	µg/L	1	50.0	<0.280	100	77.8 - 120
n-Propylbenzene		2	46.9	µg/L	1	50.0	<0.270	94	79.7 - 121
1,3,5-Trimethylbenzene		2	48.1	µg/L	1	50.0	<0.280	96	80 - 122
tert-Butylbenzene		2	49.0	µg/L	1	50.0	<0.220	98	80 - 122
1,2,4-Trimethylbenzene		2	48.9	µg/L	1	50.0	<0.310	98	80 - 123
1,4-Dichlorobenzene (para)		2	45.4	µg/L	1	50.0	<0.220	91	78.1 - 120
sec-Butylbenzene		2	48.2	µg/L	1	50.0	<0.280	96	80 - 122
1,3-Dichlorobenzene (meta)		2	46.1	µg/L	1	50.0	<0.260	92	80 - 120
p-Isopropyltoluene		2	49.5	µg/L	1	50.0	<0.260	99	80 - 124
4-Chlorotoluene		2	46.9	µg/L	1	50.0	<0.260	94	80 - 120
1,2-Dichlorobenzene (ortho)		2	44.6	µg/L	1	50.0	<0.250	89	78.3 - 120
n-Butylbenzene		2	48.9	µg/L	1	50.0	<0.240	98	80 - 122
1,2-Dibromo-3-chloropropane		2	44.1	µg/L	1	50.0	<0.290	88	59 - 122
1,2,3-Trichlorobenzene		2	50.7	µg/L	1	50.0	<0.180	101	51.4 - 144
1,2,4-Trichlorobenzene		2	50.8	µg/L	1	50.0	<0.230	102	69.6 - 129
Naphthalene		2	44.9	µg/L	1	50.0	<1.38	90	57.9 - 135
Hexachlorobutadiene		2	54.4	µg/L	1	50.0	1.4	109	75.8 - 133

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Bromochloromethane		2	48.1	µg/L	1	50.0	<0.310	96	77 - 128	3	20
Dichlorodifluoromethane		2	53.0	µg/L	1	50.0	<0.340	106	43.1 - 158	2	20
Chloromethane (methyl chloride)		2	49.5	µg/L	1	50.0	<0.490	99	64.5 - 143	0	20
Vinyl Chloride		2	52.3	µg/L	1	50.0	<0.460	105	62.9 - 149	2	20
Bromomethane (methyl bromide)		2	52.2	µg/L	1	50.0	<0.510	104	38.9 - 180	1	20
Chloroethane		2	51.2	µg/L	1	50.0	<0.440	102	64.6 - 150	2	20
Trichlorofluoromethane		2	57.2	µg/L	1	50.0	<0.470	114	52.6 - 157	2	20
Acetone		2	49.2	µg/L	1	50.0	<2.99	98	18.6 - 181	0	20
Iodomethane (methyl iodide)		2	51.6	µg/L	1	50.0	<0.330	103	75.6 - 136	3	20
Carbon Disulfide		2	49.7	µg/L	1	50.0	<0.300	99	78.1 - 132	2	20
Acrylonitrile		2	44.5	µg/L	1	50.0	<0.410	89	65.2 - 132	6	20
2-Butanone (MEK)		2	47.3	µg/L	1	50.0	<0.660	95	46.2 - 135	0	20
4-Methyl-2-pentanone (MIBK)		2	49.4	µg/L	1	50.0	<0.340	99	60.7 - 134	1	20
2-Hexanone		2	50.2	µg/L	1	50.0	<0.550	100	50.5 - 133	3	20
trans 1,4-Dichloro-2-butene		2	54.9	µg/L	1	50.0	<0.260	110	43.5 - 142	5	20
1,1-Dichloroethene		2	50.6	µg/L	1	50.0	<0.350	101	73.1 - 133	6	20
Methylene chloride		2	50.7	µg/L	1	50.0	<1.15	101	74.4 - 128	4	20
MTBE		2	53.5	µg/L	1	50.0	<0.300	107	72.9 - 133	4	20
trans-1,2-Dichloroethene		2	50.3	µg/L	1	50.0	<0.330	101	79.6 - 126	3	20
1,1-Dichloroethane		2	51.2	µg/L	1	50.0	<0.350	102	80 - 126	3	20

continued . . .

control spikes continued ...

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
cis-1,2-Dichloroethene		2	50.4	µg/L	1	50.0	<0.280	101	80 - 126	4	20
2,2-Dichloropropane		2	67.8	µg/L	1	50.0	<0.360	136	51.5 - 152	2	20
1,2-Dichloroethane (EDC)		2	54.9	µg/L	1	50.0	<0.350	110	73.3 - 131	4	20
Chloroform		2	52.1	µg/L	1	50.0	<0.280	104	75.6 - 128	3	20
1,1,1-Trichloroethane		2	58.8	µg/L	1	50.0	<0.320	118	75.8 - 135	3	20
1,1-Dichloropropene		2	53.6	µg/L	1	50.0	<0.280	107	80 - 131	3	20
Benzene		2	49.2	µg/L	1	50.0	<0.370	98	80 - 124	4	20
Carbon Tetrachloride		2	59.4	µg/L	1	50.0	<0.370	119	76.7 - 136	3	20
1,2-Dichloropropane		2	48.0	µg/L	1	50.0	<0.320	96	76.7 - 129	3	20
Trichloroethene (TCE)		2	50.0	µg/L	1	50.0	<0.360	100	72.5 - 142	3	20
Dibromomethane (methylene bromide)		2	49.0	µg/L	1	50.0	<0.280	98	72.6 - 128	4	20
Bromodichloromethane		2	52.3	µg/L	1	50.0	<0.260	105	74.8 - 129	4	20
2-Chloroethyl vinyl ether		2	39.9	µg/L	1	50.0	<0.370	80	48.6 - 140	2	20
cis-1,3-Dichloropropene		2	52.0	µg/L	1	50.0	<0.230	104	75.6 - 131	4	20
trans-1,3-Dichloropropene		2	53.4	µg/L	1	50.0	<0.200	107	68.8 - 131	4	20
Toluene		2	50.3	µg/L	1	50.0	<0.330	101	78.8 - 126	3	20
1,1,2-Trichloroethane		2	51.4	µg/L	1	50.0	<0.360	103	74 - 120	5	20
1,3-Dichloropropane		2	52.5	µg/L	1	50.0	<0.300	105	71.5 - 121	4	20
Dibromochloromethane		2	53.6	µg/L	1	50.0	<0.230	107	72.5 - 120	4	20
1,2-Dibromoethane (EDB)		2	50.6	µg/L	1	50.0	<0.260	101	75.2 - 120	4	20
Tetrachloroethene (PCE)		2	34.9	µg/L	1	50.0	<0.480	70	28.2 - 170	3	20
Chlorobenzene		2	47.0	µg/L	1	50.0	<0.290	94	80 - 120	4	20
1,1,1,2-Tetrachloroethane		2	49.5	µg/L	1	50.0	<0.330	99	74.8 - 123	4	20
Ethylbenzene		2	50.3	µg/L	1	50.0	<0.310	101	80 - 120	3	20
m,p-Xylene		2	101	µg/L	1	100	<0.570	101	80 - 120	3	20
Bromoform		2	50.6	µg/L	1	50.0	<0.210	101	67.2 - 123	3	20
Styrene		2	49.6	µg/L	1	50.0	<0.290	99	74.5 - 127	4	20
o-Xylene		2	50.6	µg/L	1	50.0	<0.300	101	77.6 - 124	4	20
1,1,2,2-Tetrachloroethane		2	50.8	µg/L	1	50.0	<0.180	102	60.3 - 123	5	20
2-Chlorotoluene		2	48.6	µg/L	1	50.0	<0.300	97	80 - 120	3	20
1,2,3-Trichloropropane		2	49.7	µg/L	1	50.0	<0.210	99	72.8 - 120	3	20
Isopropylbenzene		2	48.9	µg/L	1	50.0	<0.300	98	80 - 123	3	20
Bromobenzene		2	51.7	µg/L	1	50.0	<0.280	103	77.8 - 120	4	20
n-Propylbenzene		2	48.4	µg/L	1	50.0	<0.270	97	79.7 - 121	3	20
1,3,5-Trimethylbenzene		2	49.7	µg/L	1	50.0	<0.280	99	80 - 122	3	20
tert-Butylbenzene		2	50.5	µg/L	1	50.0	<0.220	101	80 - 122	3	20
1,2,4-Trimethylbenzene		2	50.4	µg/L	1	50.0	<0.310	101	80 - 123	3	20
1,4-Dichlorobenzene (para)		2	46.9	µg/L	1	50.0	<0.220	94	78.1 - 120	3	20
sec-Butylbenzene		2	49.4	µg/L	1	50.0	<0.280	99	80 - 122	2	20
1,3-Dichlorobenzene (meta)		2	47.3	µg/L	1	50.0	<0.260	95	80 - 120	3	20
p-Isopropyltoluene		2	51.2	µg/L	1	50.0	<0.260	102	80 - 124	3	20
4-Chlorotoluene		2	48.1	µg/L	1	50.0	<0.260	96	80 - 120	2	20
1,2-Dichlorobenzene (ortho)		2	46.4	µg/L	1	50.0	<0.250	93	78.3 - 120	4	20
n-Butylbenzene		2	50.6	µg/L	1	50.0	<0.240	101	80 - 122	3	20

continued ...

control spikes continued ...

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,2-Dibromo-3-chloropropane		2	45.6	µg/L	1	50.0	<0.290	91	59 - 122	3	20
1,2,3-Trichlorobenzene		2	52.7	µg/L	1	50.0	<0.180	105	51.4 - 144	4	20
1,2,4-Trichlorobenzene		2	51.9	µg/L	1	50.0	<0.230	104	69.6 - 129	2	20
Naphthalene		2	47.1	µg/L	1	50.0	<1.38	94	57.9 - 135	5	20
Hexachlorobutadiene		2	55.8	µg/L	1	50.0	1.4	112	75.8 - 133	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	53.9	53.9	µg/L	1	50.0	108	108	70 - 130
Toluene-d8	48.9	49.0	µg/L	1	50.0	98	98	70 - 130
4-Bromofluorobenzene (4-BFB)	52.6	53.1	µg/L	1	50.0	105	106	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 110031 | Date Analyzed: 2014-03-11 | Analyzed By: AK
Prep Batch: 93022 | QC Preparation: 2014-03-10 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		3	0.104	mg/L	1	0.100	<0.000238	104	70 - 130
Toluene		3	0.108	mg/L	1	0.100	<0.000181	108	70 - 130
Ethylbenzene		3	0.109	mg/L	1	0.100	<0.000247	109	70 - 130
Xylene		3	0.333	mg/L	1	0.300	<0.000189	111	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		3	0.104	mg/L	1	0.100	<0.000238	104	70 - 130	0	20
Toluene		3	0.108	mg/L	1	0.100	<0.000181	108	70 - 130	0	20
Ethylbenzene		3	0.109	mg/L	1	0.100	<0.000247	109	70 - 130	0	20
Xylene		3	0.332	mg/L	1	0.300	<0.000189	111	70 - 130	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.101	0.101	mg/L	1	0.100	101	101	70 - 130
4-Bromofluorobenzene (4-BFB)	0.106	0.105	mg/L	1	0.100	106	105	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 110071 | Date Analyzed: 2014-03-12 | Analyzed By: TP
Prep Batch: 93077 | QC Preparation: 2014-03-12 | Prepared By: TP

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury		2	0.00396	mg/L	1	0.00400	<0.0000602	99	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury		2	0.00396	mg/L	1	0.00400	<0.0000602	99	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Aluminum		2	1.01	mg/L	1	1.00	<0.0164	101	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Aluminum		2	0.992	mg/L	1	1.00	<0.0164	99	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Boron		2	0.0433	mg/L	1	0.0500	<0.00348	87	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Boron	Qs	Qs	0.0403	mg/L	1	0.0500	<0.00348	81	85 - 115	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Cobalt			0.278	mg/L	1	0.250	<0.00251	111	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Cobalt			0.277	mg/L	1	0.250	<0.00251	111	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper			0.120	mg/L	1	0.125	<0.00101	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Copper			0.118	mg/L	1	0.125	<0.00101	94	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron			0.554	mg/L	1	0.500	<0.00892	111	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron			0.519	mg/L	1	0.500	<0.00892	104	85 - 115	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese		2	0.262	mg/L	1	0.250	<0.00201	105	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese		2	0.260	mg/L	1	0.250	<0.00201	104	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Molybdenum		2	0.531	mg/L	1	0.500	<0.000552	106	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Molybdenum		2	0.530	mg/L	1	0.500	<0.000552	106	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Nickel		2	0.274	mg/L	1	0.250	<0.00129	110	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Nickel		2	0.272	mg/L	1	0.250	<0.00129	109	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc		2	0.248	mg/L	1	0.250	<0.00467	99	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Zinc		2	0.247	mg/L	1	0.250	<0.00467	99	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver		2	0.132	mg/L	1	0.125	<0.000352	106	85 - 115
Total Arsenic		2	0.474	mg/L	1	0.500	<0.00258	95	85 - 115
Total Barium		2	1.08	mg/L	1	1.00	<0.00310	108	85 - 115

continued ...

control spikes continued ...

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Cadmium		2	0.252	mg/L	1	0.250	<0.000281	101	85 - 115
Total Chromium		2	0.0914	mg/L	1	0.100	<0.00130	91	85 - 115
Total Lead		2	0.501	mg/L	1	0.500	<0.00246	100	85 - 115
Total Selenium		2	0.486	mg/L	1	0.500	<0.00420	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Silver		2	0.132	mg/L	1	0.125	<0.000352	106	85 - 115	0	20
Total Arsenic		2	0.461	mg/L	1	0.500	<0.00258	92	85 - 115	3	20
Total Barium		2	1.07	mg/L	1	1.00	<0.00310	107	85 - 115	1	20
Total Cadmium		2	0.250	mg/L	1	0.250	<0.000281	100	85 - 115	1	20
Total Chromium		2	0.0911	mg/L	1	0.100	<0.00130	91	85 - 115	0	20
Total Lead		2	0.499	mg/L	1	0.500	<0.00246	100	85 - 115	0	20
Total Selenium		2	0.475	mg/L	1	0.500	<0.00420	95	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 110106 | Date Analyzed: 2014-03-12 | Analyzed By: AK
Prep Batch: 93074 | QC Preparation: 2014-03-12 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		3	0.0912	mg/L	1	0.100	<0.000238	91	70 - 130
Toluene		3	0.109	mg/L	1	0.100	<0.000181	109	70 - 130
Ethylbenzene		3	0.116	mg/L	1	0.100	<0.000247	116	70 - 130
Xylene		3	0.351	mg/L	1	0.300	<0.000189	117	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		3	0.0844	mg/L	1	0.100	<0.000238	84	70 - 130	8	20
Toluene		3	0.101	mg/L	1	0.100	<0.000181	101	70 - 130	8	20
Ethylbenzene		3	0.106	mg/L	1	0.100	<0.000247	106	70 - 130	9	20
Xylene		3	0.325	mg/L	1	0.300	<0.000189	108	70 - 130	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0995	0.0997	mg/L	1	0.100	100	100	70 - 130

continued ...

control spikes continued ...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.102	0.103	mg/L	1	0.100	102	103	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 110166 | Date Analyzed: 2014-03-07 | Analyzed By: JR
Prep Batch: 93148 | QC Preparation: 2014-03-07 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride		1	5.04	mg/L	1	5.00	<0.0341	101	90 - 110
Chloride		1	24.7	mg/L	1	25.0	<0.678	99	90 - 110
Nitrate-N		1	4.98	mg/L	1	5.00	<0.0374	100	90 - 110
PO4-P		1	26.2	mg/L	1	25.0	<0.0423	105	90 - 110
Sulfate		1	24.9	mg/L	1	25.0	<0.0260	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride		1	5.04	mg/L	1	5.00	<0.0341	101	90 - 110	0	20
Chloride		1	24.7	mg/L	1	25.0	<0.678	99	90 - 110	0	20
Nitrate-N		1	4.98	mg/L	1	5.00	<0.0374	100	90 - 110	0	20
PO4-P		1	26.2	mg/L	1	25.0	<0.0423	105	90 - 110	0	20
Sulfate		1	24.8	mg/L	1	25.0	<0.0260	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 110201 | Date Analyzed: 2014-03-14 | Analyzed By: MN
Prep Batch: 93176 | QC Preparation: 2014-03-12 | Prepared By: MN

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Phenol		2	0.0507	mg/L	1	0.0800	<0.000555	63	10 - 120
2-Chlorophenol		2	0.0516	mg/L	1	0.0800	<0.00106	64	38 - 117
1,4-Dichlorobenzene (para)		2	0.0564	mg/L	1	0.0800	<0.000686	70	29 - 112
N-Nitrosodi-n-propylamine		2	0.0625	mg/L	1	0.0800	<0.000938	78	49 - 119
1,2,4-Trichlorobenzene		2	0.0556	mg/L	1	0.0800	<0.000675	70	29 - 116
Naphthalene		2	0.0567	mg/L	1	0.0800	<0.000832	71	40 - 121

continued ...

control spikes continued . . .

Param		F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
4-Chloro-3-methylphenol			2	0.0560	mg/L	1	0.0800	<0.00128	70	52 - 119
Acenaphthylene			2	0.0603	mg/L	1	0.0800	<0.000817	75	41 - 130
Acenaphthene			2	0.0572	mg/L	1	0.0800	<0.000731	72	47 - 122
4-Nitrophenol			2	0.0218	mg/L	1	0.0800	<0.00123	27	10 - 140
2,4-Dinitrotoluene			2	0.0579	mg/L	1	0.0800	<0.00142	72	57 - 128
Fluorene			2	0.0572	mg/L	1	0.0800	<0.000699	72	52 - 124
Pentachlorophenol	Qs	Qs	2	0.0278	mg/L	1	0.0800	<0.00120	35	35 - 138
Anthracene			2	0.0558	mg/L	1	0.0800	<0.000803	70	57 - 123
Phenanthrene			2	0.0563	mg/L	1	0.0800	<0.000777	70	59 - 120
Fluoranthene			2	0.0530	mg/L	1	0.0800	<0.000665	66	57 - 128
Pyrene			2	0.0632	mg/L	1	0.0800	<0.000690	79	57 - 126
Benzo(a)anthracene			2	0.0554	mg/L	1	0.0800	<0.000768	69	58 - 125
Chrysene	Qs	Qs	2	0.0384	mg/L	1	0.0800	<0.000611	48	59 - 123
Benzo(b)fluoranthene			2	0.0476	mg/L	1	0.0800	<0.000626	60	53 - 131
Benzo(k)fluoranthene			2	0.0510	mg/L	1	0.0800	<0.000603	64	57 - 129
Benzo(a)pyrene			2	0.0536	mg/L	1	0.0800	<0.000540	67	54 - 128
Indeno(1,2,3-cd)pyrene			2	0.0474	mg/L	1	0.0800	<0.000515	59	52 - 134
Dibenzo(a,h)anthracene	Qs	Qs	2	0.0349	mg/L	1	0.0800	<0.000512	44	51 - 134
Benzo(g,h,i)perylene			2	0.0490	mg/L	1	0.0800	<0.000589	61	50 - 134

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Phenol		2	0.0544	mg/L	1	0.0800	<0.000555	68	10 - 120	7	20
2-Chlorophenol		2	0.0548	mg/L	1	0.0800	<0.00106	68	38 - 117	6	20
1,4-Dichlorobenzene (para)		2	0.0597	mg/L	1	0.0800	<0.000686	75	29 - 112	6	20
N-Nitrosodi-n-propylamine		2	0.0669	mg/L	1	0.0800	<0.000938	84	49 - 119	7	20
1,2,4-Trichlorobenzene		2	0.0588	mg/L	1	0.0800	<0.000675	74	29 - 116	6	20
Naphthalene		2	0.0597	mg/L	1	0.0800	<0.000832	75	40 - 121	5	20
4-Chloro-3-methylphenol		2	0.0590	mg/L	1	0.0800	<0.00128	74	52 - 119	5	20
Acenaphthylene		2	0.0623	mg/L	1	0.0800	<0.000817	78	41 - 130	3	20
Acenaphthene		2	0.0594	mg/L	1	0.0800	<0.000731	74	47 - 122	4	20
4-Nitrophenol	Qr	Qr	2	0.0317	mg/L	1	0.0800	<0.00123	40	10 - 140	37	20
2,4-Dinitrotoluene		2	0.0596	mg/L	1	0.0800	<0.00142	74	57 - 128	3	20
Fluorene		2	0.0584	mg/L	1	0.0800	<0.000699	73	52 - 124	2	20
Pentachlorophenol		2	0.0315	mg/L	1	0.0800	<0.00120	39	35 - 138	12	20
Anthracene		2	0.0594	mg/L	1	0.0800	<0.000803	74	57 - 123	6	20
Phenanthrene		2	0.0588	mg/L	1	0.0800	<0.000777	74	59 - 120	4	20
Fluoranthene		2	0.0534	mg/L	1	0.0800	<0.000665	67	57 - 128	1	20
Pyrene		2	0.0621	mg/L	1	0.0800	<0.000690	78	57 - 126	2	20
Benzo(a)anthracene		2	0.0573	mg/L	1	0.0800	<0.000768	72	58 - 125	3	20
Chrysene	Qs	Qs	2	0.0417	mg/L	1	0.0800	<0.000611	52	59 - 123	8	20
Benzo(b)fluoranthene	Qr	Qr	2	0.0622	mg/L	1	0.0800	<0.000626	78	53 - 131	27	20
Benzo(k)fluoranthene	Qr	Qr	2	0.0663	mg/L	1	0.0800	<0.000603	83	57 - 129	26	20

continued . . .

control spikes continued ...

Param		F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzo(a)pyrene	Qr	Qr	2	0.0674	mg/L	1	0.0800	<0.000540	84	54 - 128	23	20
Indeno(1,2,3-cd)pyrene	Qr	Qr	2	0.0584	mg/L	1	0.0800	<0.000515	73	52 - 134	21	20
Dibenzo(a,h)anthracene	Qr	Qr	2	0.0429	mg/L	1	0.0800	<0.000512	54	51 - 134	21	20
Benzo(g,h,i)perylene	Qr	Qr	2	0.0630	mg/L	1	0.0800	<0.000589	79	50 - 134	25	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
2-Fluorophenol	0.0545	0.0569	mg/L	1	0.0800	68	71	19 - 119
Phenol-d5	0.0541	0.0572	mg/L	1	0.0800	68	72	10 - 120
Nitrobenzene-d5	0.0555	0.0586	mg/L	1	0.0800	69	73	44 - 120
2-Fluorobiphenyl	0.0545	0.0582	mg/L	1	0.0800	68	73	44 - 119
2,4,6-Tribromophenol	0.0535	0.0587	mg/L	1	0.0800	67	73	43 - 140
Terphenyl-d14	0.0572	0.0585	mg/L	1	0.0800	72	73	50 - 134

Laboratory Control Spike (LCS-1)

QC Batch:	110343	Date Analyzed:	2014-03-19	Analyzed By:	LM
Prep Batch:	93247	QC Preparation:	2014-03-18	Prepared By:	PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Calcium		2	58.6	mg/L	1	52.5	<0.0441	112	85 - 115
Dissolved Potassium		2	55.8	mg/L	1	57.5	<0.0443	97	85 - 115
Dissolved Magnesium		2	58.7	mg/L	1	52.5	<0.0296	112	85 - 115
Dissolved Sodium		2	56.4	mg/L	1	52.5	<0.172	107	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Calcium		2	58.9	mg/L	1	52.5	<0.0441	112	85 - 115	0	20
Dissolved Potassium		2	56.4	mg/L	1	57.5	<0.0443	98	85 - 115	1	20
Dissolved Magnesium		2	57.8	mg/L	1	52.5	<0.0296	110	85 - 115	2	20
Dissolved Sodium		2	56.6	mg/L	1	52.5	<0.172	108	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 356537

QC Batch: 109990 | Date Analyzed: 2014-03-10 | Analyzed By: AK
Prep Batch: 93006 | QC Preparation: 2014-03-10 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		[3]	0.111	mg/L	1	0.100	<0.000238	111	70 - 130
Toluene		[3]	0.111	mg/L	1	0.100	<0.000181	111	70 - 130
Ethylbenzene		[3]	0.108	mg/L	1	0.100	<0.000247	108	70 - 130
Xylene		[3]	0.327	mg/L	1	0.300	<0.000189	109	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		[3]	0.112	mg/L	1	0.100	<0.000238	112	70 - 130	1	20
Toluene		[3]	0.106	mg/L	1	0.100	<0.000181	106	70 - 130	5	20
Ethylbenzene		[3]	0.0890	mg/L	1	0.100	<0.000247	89	70 - 130	19	20
Xylene		[3]	0.269	mg/L	1	0.300	<0.000189	90	70 - 130	20	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.103	0.0929	mg/L	1	0.1	103	93	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0884	0.0827	mg/L	1	0.1	88	83	70 - 130

Matrix Spike (xMS-1) Spiked Sample: 356926

QC Batch: 109992 | Date Analyzed: 2014-03-07 | Analyzed By: KB
Prep Batch: 93009 | QC Preparation: 2014-03-07 | Prepared By: KB

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane		[2]	49.6	µg/L	1	50.0	<0.310	99	73.4 - 137
Dichlorodifluoromethane		[2]	54.6	µg/L	1	50.0	<0.340	109	28.8 - 163
Chloromethane (methyl chloride)		[2]	49.1	µg/L	1	50.0	<0.490	98	52.5 - 157
Vinyl Chloride		[2]	52.5	µg/L	1	50.0	<0.460	105	55.3 - 157
Bromomethane (methyl bromide)		[2]	54.0	µg/L	1	50.0	<0.510	108	10 - 228
Chloroethane		[2]	53.6	µg/L	1	50.0	<0.440	107	47.8 - 180
Trichlorofluoromethane		[2]	55.0	µg/L	1	50.0	<0.470	110	47.5 - 169
Acetone		[2]	29.4	µg/L	1	50.0	<2.99	59	10 - 147
Iodomethane (methyl iodide)		[2]	53.7	µg/L	1	50.0	<0.330	107	68.6 - 146
Carbon Disulfide		[2]	52.0	µg/L	1	50.0	<0.300	104	72.8 - 147

continued ...

matrix spikes continued . . .

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Acrylonitrile		2	48.0	µg/L	1	50.0	<0.410	96	54 - 145
2-Butanone (MEK)		2	39.0	µg/L	1	50.0	<0.660	78	29.1 - 130
4-Methyl-2-pentanone (MIBK)		2	51.4	µg/L	1	50.0	<0.340	103	31.7 - 165
2-Hexanone		2	43.7	µg/L	1	50.0	<0.550	87	21.3 - 144
trans 1,4-Dichloro-2-butene		2	32.2	µg/L	1	50.0	<0.260	64	10 - 151
1,1-Dichloroethene		2	52.2	µg/L	1	50.0	<0.350	104	73.6 - 139
Methylene chloride		2	53.1	µg/L	1	50.0	<1.15	106	78.6 - 130
MTBE		2	57.1	µg/L	1	50.0	<0.300	114	63.4 - 148
trans-1,2-Dichloroethene		2	52.8	µg/L	1	50.0	<0.330	106	79.1 - 132
1,1-Dichloroethane		2	54.3	µg/L	1	50.0	<0.350	109	80 - 135
cis-1,2-Dichloroethene		2	52.5	µg/L	1	50.0	<0.280	105	80 - 133
2,2-Dichloropropane		2	55.1	µg/L	1	50.0	<0.360	110	10 - 160
1,2-Dichloroethane (EDC)		2	59.1	µg/L	1	50.0	<0.350	118	69.4 - 147
Chloroform		2	55.9	µg/L	1	50.0	<0.280	112	76.9 - 138
1,1,1-Trichloroethane		2	62.5	µg/L	1	50.0	<0.320	125	75 - 149
1,1-Dichloropropene		2	56.5	µg/L	1	50.0	<0.280	113	80 - 137
Benzene		2	51.3	µg/L	1	50.0	<0.370	103	79.2 - 134
Carbon Tetrachloride		2	62.0	µg/L	1	50.0	<0.370	124	66.6 - 153
1,2-Dichloropropane		2	50.4	µg/L	1	50.0	<0.320	101	80 - 136
Trichloroethene (TCE)		2	51.8	µg/L	1	50.0	<0.360	104	69.2 - 141
Dibromomethane (methylene bromide)		2	52.3	µg/L	1	50.0	<0.280	105	71.2 - 137
Bromodichloromethane		2	55.3	µg/L	1	50.0	<0.260	111	73.6 - 142
2-Chloroethyl vinyl ether		2	<0.370	µg/L	1	50.0	<0.370	0	0 - 120
cis-1,3-Dichloropropene		2	51.7	µg/L	1	50.0	<0.230	103	68.6 - 135
trans-1,3-Dichloropropene		2	53.2	µg/L	1	50.0	<0.200	106	64.5 - 134
Toluene		2	52.2	µg/L	1	50.0	<0.330	104	80 - 134
1,1,2-Trichloroethane		2	52.7	µg/L	1	50.0	<0.360	105	75.6 - 122
1,3-Dichloropropane		2	53.7	µg/L	1	50.0	<0.300	107	67.6 - 142
Dibromochloromethane		2	54.2	µg/L	1	50.0	<0.230	108	66.6 - 131
1,2-Dibromoethane (EDB)		2	51.8	µg/L	1	50.0	<0.260	104	72.1 - 123
Tetrachloroethene (PCE)		2	33.4	µg/L	1	50.0	<0.480	67	42.5 - 120
Chlorobenzene		2	47.2	µg/L	1	50.0	<0.290	94	80 - 120
1,1,1,2-Tetrachloroethane		2	50.6	µg/L	1	50.0	<0.330	101	76.2 - 127
Ethylbenzene		2	50.9	µg/L	1	50.0	<0.310	102	80 - 122
m,p-Xylene		2	102	µg/L	1	100	<0.570	102	80 - 122
Bromoform		2	52.3	µg/L	1	50.0	<0.210	105	54.3 - 137
Styrene		2	42.1	µg/L	1	50.0	<0.290	84	10 - 186
o-Xylene		2	51.0	µg/L	1	50.0	<0.300	102	78 - 128
1,1,2,2-Tetrachloroethane		2	52.9	µg/L	1	50.0	<0.180	106	62.1 - 138
2-Chlorotoluene		2	48.6	µg/L	1	50.0	<0.300	97	77 - 126
1,2,3-Trichloropropane		2	50.2	µg/L	1	50.0	<0.210	100	63.4 - 134
Isopropylbenzene		2	48.3	µg/L	1	50.0	<0.300	97	80 - 124
Bromobenzene		2	51.2	µg/L	1	50.0	<0.280	102	78 - 123
n-Propylbenzene		2	47.9	µg/L	1	50.0	<0.270	96	74 - 127

continued . . .

matrix spikes continued . . .

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,3,5-Trimethylbenzene		2	48.8	µg/L	1	50.0	<0.280	98	70 - 128
tert-Butylbenzene		2	49.4	µg/L	1	50.0	<0.220	99	78.8 - 123
1,2,4-Trimethylbenzene		2	49.8	µg/L	1	50.0	<0.310	100	76 - 125
1,4-Dichlorobenzene (para)		2	46.4	µg/L	1	50.0	<0.220	93	76.4 - 120
sec-Butylbenzene		2	48.5	µg/L	1	50.0	<0.280	97	75.9 - 124
1,3-Dichlorobenzene (meta)		2	46.8	µg/L	1	50.0	<0.260	94	76.4 - 120
p-Isopropyltoluene		2	49.0	µg/L	1	50.0	<0.260	98	76 - 124
4-Chlorotoluene		2	48.0	µg/L	1	50.0	<0.260	96	76.8 - 126
1,2-Dichlorobenzene (ortho)		2	45.9	µg/L	1	50.0	<0.250	92	77.5 - 120
n-Butylbenzene		2	48.0	µg/L	1	50.0	<0.240	96	71.5 - 128
1,2-Dibromo-3-chloropropane		2	48.2	µg/L	1	50.0	<0.290	96	39.2 - 146
1,2,3-Trichlorobenzene		2	51.4	µg/L	1	50.0	<0.180	103	47.1 - 139
1,2,4-Trichlorobenzene		2	50.9	µg/L	1	50.0	<0.230	102	62.1 - 127
Naphthalene		2	47.0	µg/L	1	50.0	<1.38	94	47 - 142
Hexachlorobutadiene		2	50.2	µg/L	1	50.0	<0.310	100	58.9 - 133

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Bromochloromethane		2	50.0	µg/L	1	50.0	<0.310	100	73.4 - 137	1	20
Dichlorodifluoromethane		2	56.0	µg/L	1	50.0	<0.340	112	28.8 - 163	2	20
Chloromethane (methyl chloride)		2	49.6	µg/L	1	50.0	<0.490	99	52.5 - 157	1	20
Vinyl Chloride		2	53.1	µg/L	1	50.0	<0.460	106	55.3 - 157	1	20
Bromomethane (methyl bromide)		2	51.4	µg/L	1	50.0	<0.510	103	10 - 228	5	20
Chloroethane		2	52.8	µg/L	1	50.0	<0.440	106	47.8 - 180	2	20
Trichlorofluoromethane		2	54.6	µg/L	1	50.0	<0.470	109	47.5 - 169	1	20
Acetone		2	28.4	µg/L	1	50.0	<2.99	57	10 - 147	4	20
Iodomethane (methyl iodide)		2	52.1	µg/L	1	50.0	<0.330	104	68.6 - 146	3	20
Carbon Disulfide		2	50.2	µg/L	1	50.0	<0.300	100	72.8 - 147	4	20
Acrylonitrile		2	49.3	µg/L	1	50.0	<0.410	99	54 - 145	3	20
2-Butanone (MEK)		2	38.8	µg/L	1	50.0	<0.660	78	29.1 - 130	0	20
4-Methyl-2-pentanone (MIBK)		2	52.4	µg/L	1	50.0	<0.340	105	31.7 - 165	2	20
2-Hexanone		2	44.3	µg/L	1	50.0	<0.550	89	21.3 - 144	1	20
trans 1,4-Dichloro-2-butene		2	33.8	µg/L	1	50.0	<0.260	68	10 - 151	5	20
1,1-Dichloroethene		2	50.7	µg/L	1	50.0	<0.350	101	73.6 - 139	3	20
Methylene chloride		2	50.8	µg/L	1	50.0	<1.15	102	78.6 - 130	4	20
MTBE		2	55.4	µg/L	1	50.0	<0.300	111	63.4 - 148	3	20
trans-1,2-Dichloroethene		2	51.2	µg/L	1	50.0	<0.330	102	79.1 - 132	3	20
1,1-Dichloroethane		2	52.5	µg/L	1	50.0	<0.350	105	80 - 135	3	20
cis-1,2-Dichloroethene		2	51.3	µg/L	1	50.0	<0.280	103	80 - 133	2	20
2,2-Dichloropropane		2	51.5	µg/L	1	50.0	<0.360	103	10 - 160	7	20
1,2-Dichloroethane (EDC)		2	57.7	µg/L	1	50.0	<0.350	115	69.4 - 147	2	20
Chloroform		2	53.8	µg/L	1	50.0	<0.280	108	76.9 - 138	4	20
1,1,1-Trichloroethane		2	61.1	µg/L	1	50.0	<0.320	122	75 - 149	2	20

continued . . .

matrix spikes continued . . .

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,1-Dichloropropene		2	54.9	µg/L	1	50.0	<0.280	110	80 - 137	3	20
Benzene		2	50.4	µg/L	1	50.0	<0.370	101	79.2 - 134	2	20
Carbon Tetrachloride		2	60.7	µg/L	1	50.0	<0.370	121	66.6 - 153	2	20
1,2-Dichloropropane		2	49.1	µg/L	1	50.0	<0.320	98	80 - 136	3	20
Trichloroethene (TCE)		2	50.5	µg/L	1	50.0	<0.360	101	69.2 - 141	2	20
Dibromomethane (methylene bromide)		2	50.9	µg/L	1	50.0	<0.280	102	71.2 - 137	3	20
Bromodichloromethane		2	54.7	µg/L	1	50.0	<0.260	109	73.6 - 142	1	20
2-Chloroethyl vinyl ether		2	<0.370	µg/L	1	50.0	<0.370	0	0 - 120	0	20
cis-1,3-Dichloropropene		2	51.0	µg/L	1	50.0	<0.230	102	68.6 - 135	1	20
trans-1,3-Dichloropropene		2	52.7	µg/L	1	50.0	<0.200	105	64.5 - 134	1	20
Toluene		2	51.2	µg/L	1	50.0	<0.330	102	80 - 134	2	20
1,1,2-Trichloroethane		2	52.1	µg/L	1	50.0	<0.360	104	75.6 - 122	1	20
1,3-Dichloropropane		2	53.3	µg/L	1	50.0	<0.300	107	67.6 - 142	1	20
Dibromochloromethane		2	54.4	µg/L	1	50.0	<0.230	109	66.6 - 131	0	20
1,2-Dibromoethane (EDB)		2	51.9	µg/L	1	50.0	<0.260	104	72.1 - 123	0	20
Tetrachloroethene (PCE)		2	33.0	µg/L	1	50.0	<0.480	66	42.5 - 120	1	20
Chlorobenzene		2	46.7	µg/L	1	50.0	<0.290	93	80 - 120	1	20
1,1,1,2-Tetrachloroethane		2	49.1	µg/L	1	50.0	<0.330	98	76.2 - 127	3	20
Ethylbenzene		2	50.2	µg/L	1	50.0	<0.310	100	80 - 122	1	20
m,p-Xylene		2	101	µg/L	1	100	<0.570	101	80 - 122	1	20
Bromoform		2	51.9	µg/L	1	50.0	<0.210	104	54.3 - 137	1	20
Styrene		2	41.6	µg/L	1	50.0	<0.290	83	10 - 186	1	20
o-Xylene		2	50.7	µg/L	1	50.0	<0.300	101	78 - 128	1	20
1,1,2,2-Tetrachloroethane		2	53.2	µg/L	1	50.0	<0.180	106	62.1 - 138	1	20
2-Chlorotoluene		2	47.6	µg/L	1	50.0	<0.300	95	77 - 126	2	20
1,2,3-Trichloropropane		2	50.5	µg/L	1	50.0	<0.210	101	63.4 - 134	1	20
Isopropylbenzene		2	47.5	µg/L	1	50.0	<0.300	95	80 - 124	2	20
Bromobenzene		2	51.0	µg/L	1	50.0	<0.280	102	78 - 123	0	20
n-Propylbenzene		2	46.6	µg/L	1	50.0	<0.270	93	74 - 127	3	20
1,3,5-Trimethylbenzene		2	48.0	µg/L	1	50.0	<0.280	96	70 - 128	2	20
tert-Butylbenzene		2	48.8	µg/L	1	50.0	<0.220	98	78.8 - 123	1	20
1,2,4-Trimethylbenzene		2	49.0	µg/L	1	50.0	<0.310	98	76 - 125	2	20
1,4-Dichlorobenzene (para)		2	46.1	µg/L	1	50.0	<0.220	92	76.4 - 120	1	20
sec-Butylbenzene		2	47.4	µg/L	1	50.0	<0.280	95	75.9 - 124	2	20
1,3-Dichlorobenzene (meta)		2	46.4	µg/L	1	50.0	<0.260	93	76.4 - 120	1	20
p-Isopropyltoluene		2	48.3	µg/L	1	50.0	<0.260	97	76 - 124	1	20
4-Chlorotoluene		2	47.3	µg/L	1	50.0	<0.260	95	76.8 - 126	2	20
1,2-Dichlorobenzene (ortho)		2	45.7	µg/L	1	50.0	<0.250	91	77.5 - 120	0	20
n-Butylbenzene		2	47.9	µg/L	1	50.0	<0.240	96	71.5 - 128	0	20
1,2-Dibromo-3-chloropropane		2	49.6	µg/L	1	50.0	<0.290	99	39.2 - 146	3	20
1,2,3-Trichlorobenzene		2	51.7	µg/L	1	50.0	<0.180	103	47.1 - 139	1	20
1,2,4-Trichlorobenzene		2	51.7	µg/L	1	50.0	<0.230	103	62.1 - 127	2	20
Naphthalene		2	48.0	µg/L	1	50.0	<1.38	96	47 - 142	2	20
Hexachlorobutadiene		2	51.4	µg/L	1	50.0	<0.310	103	58.9 - 133	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Dibromofluoromethane	55.3	54.7	µg/L	1	50	111	109	70 - 130
Toluene-d8	48.3	48.4	µg/L	1	50	97	97	70 - 130
4-Bromofluorobenzene (4-BFB)	53.1	53.2	µg/L	1	50	106	106	70 - 130

Matrix Spike (MS-1) Spiked Sample: 356878

QC Batch: 110031 | Date Analyzed: 2014-03-11 | Analyzed By: AK
Prep Batch: 93022 | QC Preparation: 2014-03-10 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		[3]	0.105	mg/L	1	0.100	<0.000238	105	70 - 130
Toluene		[3]	0.108	mg/L	1	0.100	<0.000181	108	70 - 130
Ethylbenzene		[3]	0.106	mg/L	1	0.100	<0.000247	106	70 - 130
Xylene		[3]	0.324	mg/L	1	0.300	<0.000189	108	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		[3]	0.105	mg/L	1	0.100	<0.000238	105	70 - 130	0	20
Toluene		[3]	0.108	mg/L	1	0.100	<0.000181	108	70 - 130	0	20
Ethylbenzene		[3]	0.108	mg/L	1	0.100	<0.000247	108	70 - 130	2	20
Xylene		[3]	0.328	mg/L	1	0.300	<0.000189	109	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0998	0.100	mg/L	1	0.1	100	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.103	0.103	mg/L	1	0.1	103	103	70 - 130

Matrix Spike (MS-1) Spiked Sample: 357345

QC Batch: 110071 | Date Analyzed: 2014-03-12 | Analyzed By: TP
Prep Batch: 93077 | QC Preparation: 2014-03-12 | Prepared By: TP

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury		[2]	0.00363	mg/L	1	0.00400	<0.0000602	91	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury		2	0.00363	mg/L	1	0.00400	<0.0000602	91	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 356686

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Aluminum		2	1.04	mg/L	1	1.00	0.1604	88	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Aluminum		2	1.04	mg/L	1	1.00	0.1604	88	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 356686

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Boron Qs	Qs	2	0.410	mg/L	1	0.0500	0.381	58	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Boron Qs	Qs	2	0.402	mg/L	1	0.0500	0.381	42	75 - 125	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 356686

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Cobalt			0.226	mg/L	1	0.250	<0.00251	90	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Cobalt			0.226	mg/L	1	0.250	<0.00251	90	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 356686

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper			0.107	mg/L	1	0.125	<0.00101	86	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Copper			0.107	mg/L	1	0.125	<0.00101	86	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 356686

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron			0.472	mg/L	1	0.500	0.0352	87	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron			0.472	mg/L	1	0.500	0.0352	87	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 356686

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese		2	0.224	mg/L	1	0.250	<0.00201	90	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese		2	0.224	mg/L	1	0.250	<0.00201	90	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 356686

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Molybdenum		2	0.477	mg/L	1	0.500	<0.000552	95	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Molybdenum		2	0.477	mg/L	1	0.500	<0.000552	95	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 356686

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Nickel		2	0.225	mg/L	1	0.250	<0.00129	90	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Nickel		2	0.220	mg/L	1	0.250	<0.00129	88	75 - 125	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 356686

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc		2	0.300	mg/L	1	0.250	0.0676	93	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Zinc		2	0.294	mg/L	1	0.250	0.0676	90	75 - 125	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 356686

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM
Prep Batch: 93021 | QC Preparation: 2014-03-10 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver		2	0.120	mg/L	1	0.125	<0.000352	96	75 - 125
Total Arsenic		2	0.441	mg/L	1	0.500	<0.00258	88	75 - 125
Total Barium		2	0.902	mg/L	1	1.00	0.0097	89	75 - 125
Total Cadmium		2	0.227	mg/L	1	0.250	<0.000281	91	75 - 125
Total Chromium		2	0.0753	mg/L	1	0.100	<0.00130	75	75 - 125
Total Lead		2	0.413	mg/L	1	0.500	<0.00246	83	75 - 125
Total Selenium		2	0.406	mg/L	1	0.500	<0.00420	81	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Silver		2	0.120	mg/L	1	0.125	<0.000352	96	75 - 125	0	20
Total Arsenic		2	0.441	mg/L	1	0.500	<0.00258	88	75 - 125	0	20

continued ...

matrix spikes continued ...

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Barium		2	0.902	mg/L	1	1.00	0.0097	89	75 - 125	0	20
Total Cadmium		2	0.227	mg/L	1	0.250	<0.000281	91	75 - 125	0	20
Total Chromium		2	0.0753	mg/L	1	0.100	<0.00130	75	75 - 125	0	20
Total Lead		2	0.405	mg/L	1	0.500	<0.00246	81	75 - 125	2	20
Total Selenium		2	0.382	mg/L	1	0.500	<0.00420	76	75 - 125	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 356907

QC Batch: 110106 | Date Analyzed: 2014-03-12 | Analyzed By: AK
Prep Batch: 93074 | QC Preparation: 2014-03-12 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		3	0.0834	mg/L	1	0.100	<0.000238	83	70 - 130
Toluene		3	0.101	mg/L	1	0.100	<0.000181	101	70 - 130
Ethylbenzene		3	0.104	mg/L	1	0.100	<0.000247	104	70 - 130
Xylene		3	0.320	mg/L	1	0.300	<0.000189	107	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	Qr	Qr 3	0.103	mg/L	1	0.100	<0.000238	103	70 - 130	21	20
Toluene		3	0.107	mg/L	1	0.100	<0.000181	107	70 - 130	6	20
Ethylbenzene		3	0.108	mg/L	1	0.100	<0.000247	108	70 - 130	4	20
Xylene		3	0.327	mg/L	1	0.300	<0.000189	109	70 - 130	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.100	0.103	mg/L	1	0.1	100	103	70 - 130
4-Bromofluorobenzene (4-BFB)	0.103	0.104	mg/L	1	0.1	103	104	70 - 130

Matrix Spike (MS-1) Spiked Sample: 356738

QC Batch: 110166 | Date Analyzed: 2014-03-07 | Analyzed By: JR
Prep Batch: 93148 | QC Preparation: 2014-03-07 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride		1	285	mg/L	55.6	278	2.72	102	80 - 120
Chloride		1	1690	mg/L	55.6	1390	289	101	80 - 120
Nitrate-N		1	277	mg/L	55.6	278	<2.08	100	80 - 120
PO4-P		1	1450	mg/L	55.6	1390	<2.35	104	80 - 120
Sulfate		1	1630	mg/L	55.6	1390	227	101	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride		1	286	mg/L	55.6	278	2.72	102	80 - 120	0	20
Chloride		1	1700	mg/L	55.6	1390	289	102	80 - 120	1	20
Nitrate-N		1	277	mg/L	55.6	0.00	<2.08	99	80 - 120	0	20
PO4-P		1	1460	mg/L	55.6	1390	<2.35	105	80 - 120	1	20
Sulfate		1	1630	mg/L	55.6	1390	227	101	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 358016

QC Batch: 110343 | Date Analyzed: 2014-03-19 | Analyzed By: LM
Prep Batch: 93247 | QC Preparation: 2014-03-18 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Calcium		2	668	mg/L	1	525	64.61	115	75 - 125
Dissolved Potassium		2	584	mg/L	1	525	2.752	111	75 - 125
Dissolved Magnesium		2	613	mg/L	1	525	21.27	113	75 - 125
Dissolved Sodium		2	592	mg/L	1	525	23.07	108	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Calcium		2	665	mg/L	1	525	64.61	114	75 - 125	0	20
Dissolved Potassium		2	573	mg/L	1	525	2.752	109	75 - 125	2	20
Dissolved Magnesium		2	614	mg/L	1	525	21.27	113	75 - 125	0	20
Dissolved Sodium		2	601	mg/L	1	525	23.07	110	75 - 125	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-1)

QC Batch: 109990 | Date Analyzed: 2014-03-10 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		3	mg/L	0.100	0.105	105	80 - 120	2014-03-10
Toluene		3	mg/L	0.100	0.105	105	80 - 120	2014-03-10
Ethylbenzene		3	mg/L	0.100	0.102	102	80 - 120	2014-03-10
Xylene		3	mg/L	0.300	0.309	103	80 - 120	2014-03-10

Standard (CCV-2)

QC Batch: 109990 | Date Analyzed: 2014-03-10 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		3	mg/L	0.100	0.106	106	80 - 120	2014-03-10
Toluene		3	mg/L	0.100	0.106	106	80 - 120	2014-03-10
Ethylbenzene		3	mg/L	0.100	0.102	102	80 - 120	2014-03-10
Xylene		3	mg/L	0.300	0.310	103	80 - 120	2014-03-10

Standard (CCV-3)

QC Batch: 109990 | Date Analyzed: 2014-03-10 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		3	mg/L	0.100	0.104	104	80 - 120	2014-03-10
Toluene		3	mg/L	0.100	0.104	104	80 - 120	2014-03-10
Ethylbenzene		3	mg/L	0.100	0.100	100	80 - 120	2014-03-10
Xylene		3	mg/L	0.300	0.307	102	80 - 120	2014-03-10

Standard (CCV-1)

QC Batch: 109992 | Date Analyzed: 2014-03-07 | Analyzed By: KB

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromochloromethane		2	µg/L	50.0	46.7	93	80 - 120	2014-03-07
Dichlorodifluoromethane		2	µg/L	50.0	53.9	108	80 - 120	2014-03-07
Chloromethane (methyl chloride)		2	µg/L	50.0	50.3	101	80 - 120	2014-03-07
Vinyl Chloride		2	µg/L	50.0	53.3	107	80 - 120	2014-03-07
Bromomethane (methyl bromide)		2	µg/L	50.0	52.0	104	80 - 120	2014-03-07
Chloroethane		2	µg/L	50.0	52.5	105	80 - 120	2014-03-07
Trichlorofluoromethane	Qc	Qc	2	µg/L	50.0	60.1	120	80 - 120	2014-03-07
Acetone		2	µg/L	50.0	49.2	98	80 - 120	2014-03-07
Iodomethane (methyl iodide)		2	µg/L	50.0	51.6	103	80 - 120	2014-03-07
Carbon Disulfide		2	µg/L	50.0	49.1	98	80 - 120	2014-03-07
Acrylonitrile		2	µg/L	50.0	42.1	84	80 - 120	2014-03-07
2-Butanone (MEK)		2	µg/L	50.0	46.6	93	80 - 120	2014-03-07
4-Methyl-2-pentanone (MIBK)		2	µg/L	50.0	46.8	94	80 - 120	2014-03-07
2-Hexanone		2	µg/L	50.0	48.6	97	80 - 120	2014-03-07
trans 1,4-Dichloro-2-butene		2	µg/L	50.0	52.4	105	80 - 120	2014-03-07
1,1-Dichloroethene		2	µg/L	50.0	49.7	99	80 - 120	2014-03-07
Methylene chloride		2	µg/L	50.0	49.1	98	80 - 120	2014-03-07
MTBE		2	µg/L	50.0	50.1	100	80 - 120	2014-03-07
trans-1,2-Dichloroethene		2	µg/L	50.0	49.1	98	80 - 120	2014-03-07
1,1-Dichloroethane		2	µg/L	50.0	51.1	102	80 - 120	2014-03-07
cis-1,2-Dichloroethene		2	µg/L	50.0	49.9	100	80 - 120	2014-03-07
2,2-Dichloropropane	Qc	Qc	2	µg/L	50.0	65.6	131	80 - 120	2014-03-07
1,2-Dichloroethane (EDC)		2	µg/L	50.0	53.6	107	80 - 120	2014-03-07
Chloroform		2	µg/L	50.0	52.0	104	80 - 120	2014-03-07
1,1,1-Trichloroethane		2	µg/L	50.0	58.1	116	80 - 120	2014-03-07
1,1-Dichloropropene		2	µg/L	50.0	53.4	107	80 - 120	2014-03-07
Benzene		2	µg/L	50.0	48.0	96	80 - 120	2014-03-07
Carbon Tetrachloride		2	µg/L	50.0	58.6	117	80 - 120	2014-03-07
1,2-Dichloropropane		2	µg/L	50.0	47.4	95	80 - 120	2014-03-07
Trichloroethene (TCE)		2	µg/L	50.0	48.5	97	80 - 120	2014-03-07
Dibromomethane (methylene bromide)		2	µg/L	50.0	47.7	95	80 - 120	2014-03-07
Bromodichloromethane		2	µg/L	50.0	51.3	103	80 - 120	2014-03-07
2-Chloroethyl vinyl ether	Qc	Qc	2	µg/L	50.0	38.8	78	80 - 120	2014-03-07
cis-1,3-Dichloropropene		2	µg/L	50.0	51.1	102	80 - 120	2014-03-07
trans-1,3-Dichloropropene		2	µg/L	50.0	52.7	105	80 - 120	2014-03-07
Toluene		2	µg/L	50.0	49.0	98	80 - 120	2014-03-07
1,1,2-Trichloroethane		2	µg/L	50.0	49.1	98	80 - 120	2014-03-07
1,3-Dichloropropane		2	µg/L	50.0	51.3	103	80 - 120	2014-03-07
Dibromochloromethane		2	µg/L	50.0	52.6	105	80 - 120	2014-03-07
1,2-Dibromoethane (EDB)		2	µg/L	50.0	49.2	98	80 - 120	2014-03-07
Tetrachloroethene (PCE)	Qc	Qc	2	µg/L	50.0	34.2	68	80 - 120	2014-03-07

continued ...

standard continued ...

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chlorobenzene		2	µg/L	50.0	46.1	92	80 - 120	2014-03-07
1,1,1,2-Tetrachloroethane		2	µg/L	50.0	48.3	97	80 - 120	2014-03-07
Ethylbenzene		2	µg/L	50.0	49.6	99	80 - 120	2014-03-07
m,p-Xylene		2	µg/L	100	100	100	80 - 120	2014-03-07
Bromoform		2	µg/L	50.0	49.6	99	80 - 120	2014-03-07
Styrene		2	µg/L	50.0	48.6	97	80 - 120	2014-03-07
o-Xylene		2	µg/L	50.0	50.0	100	80 - 120	2014-03-07
1,1,2,2-Tetrachloroethane		2	µg/L	50.0	49.2	98	80 - 120	2014-03-07
2-Chlorotoluene		2	µg/L	50.0	47.6	95	80 - 120	2014-03-07
1,2,3-Trichloropropane		2	µg/L	50.0	49.1	98	80 - 120	2014-03-07
Isopropylbenzene		2	µg/L	50.0	47.6	95	80 - 120	2014-03-07
Bromobenzene		2	µg/L	50.0	50.7	101	80 - 120	2014-03-07
n-Propylbenzene		2	µg/L	50.0	47.0	94	80 - 120	2014-03-07
1,3,5-Trimethylbenzene		2	µg/L	50.0	48.6	97	80 - 120	2014-03-07
tert-Butylbenzene		2	µg/L	50.0	48.8	98	80 - 120	2014-03-07
1,2,4-Trimethylbenzene		2	µg/L	50.0	49.1	98	80 - 120	2014-03-07
1,4-Dichlorobenzene (para)		2	µg/L	50.0	46.2	92	80 - 120	2014-03-07
sec-Butylbenzene		2	µg/L	50.0	48.4	97	80 - 120	2014-03-07
1,3-Dichlorobenzene (meta)		2	µg/L	50.0	46.4	93	80 - 120	2014-03-07
p-Isopropyltoluene		2	µg/L	50.0	49.7	99	80 - 120	2014-03-07
4-Chlorotoluene		2	µg/L	50.0	47.3	95	80 - 120	2014-03-07
1,2-Dichlorobenzene (ortho)		2	µg/L	50.0	45.4	91	80 - 120	2014-03-07
n-Butylbenzene		2	µg/L	50.0	49.5	99	80 - 120	2014-03-07
1,2-Dibromo-3-chloropropane		2	µg/L	50.0	45.2	90	80 - 120	2014-03-07
1,2,3-Trichlorobenzene		2	µg/L	50.0	50.7	101	80 - 120	2014-03-07
1,2,4-Trichlorobenzene		2	µg/L	50.0	51.3	103	80 - 120	2014-03-07
Naphthalene		2	µg/L	50.0	44.7	89	80 - 120	2014-03-07
Hexachlorobutadiene		2	µg/L	50.0	52.7	105	80 - 120	2014-03-07

Standard (CCV-1)

QC Batch: 110031 | Date Analyzed: 2014-03-11 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		3	mg/L	0.100	0.105	105	80 - 120	2014-03-11
Toluene		3	mg/L	0.100	0.108	108	80 - 120	2014-03-11
Ethylbenzene		3	mg/L	0.100	0.109	109	80 - 120	2014-03-11
Xylene		3	mg/L	0.300	0.332	111	80 - 120	2014-03-11

Standard (CCV-2)

QC Batch: 110031 | Date Analyzed: 2014-03-11 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		3	mg/L	0.100	0.0997	100	80 - 120	2014-03-11
Toluene		3	mg/L	0.100	0.102	102	80 - 120	2014-03-11
Ethylbenzene		3	mg/L	0.100	0.101	101	80 - 120	2014-03-11
Xylene		3	mg/L	0.300	0.306	102	80 - 120	2014-03-11

Standard (CCV-3)

QC Batch: 110031 | Date Analyzed: 2014-03-11 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		3	mg/L	0.100	0.102	102	80 - 120	2014-03-11
Toluene		3	mg/L	0.100	0.104	104	80 - 120	2014-03-11
Ethylbenzene		3	mg/L	0.100	0.104	104	80 - 120	2014-03-11
Xylene		3	mg/L	0.300	0.314	105	80 - 120	2014-03-11

Standard (CCV-1)

QC Batch: 110071 | Date Analyzed: 2014-03-12 | Analyzed By: TP

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		2	mg/L	0.00500	0.00495	99	90 - 110	2014-03-12

Standard (CCV-2)

QC Batch: 110071 | Date Analyzed: 2014-03-12 | Analyzed By: TP

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		2	mg/L	0.00500	0.00495	99	90 - 110	2014-03-12

Standard (ICV-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		2	mg/L	1.00	1.02	102	90 - 110	2014-03-12

Standard (ICV-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Boron		2	mg/L	1.00	1.02	102	90 - 110	2014-03-12

Standard (ICV-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cobalt			mg/L	1.00	1.03	103	90 - 110	2014-03-12

Standard (ICV-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper			mg/L	1.00	1.04	104	90 - 110	2014-03-12

Standard (ICV-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron			mg/L	1.00	1.02	102	90 - 110	2014-03-12

Standard (ICV-1)

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		2	mg/L	1.00	1.02	102	90 - 110	2014-03-12

Standard (ICV-1)

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Molybdenum		2	mg/L	1.00	1.03	103	90 - 110	2014-03-12

Standard (ICV-1)

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Nickel		2	mg/L	1.00	1.02	102	90 - 110	2014-03-12

Standard (ICV-1)

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		2	mg/L	1.00	1.01	101	90 - 110	2014-03-12

Standard (ICV-1)

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		2	mg/L	0.125	0.126	101	90 - 110	2014-03-12
Total Arsenic		2	mg/L	1.00	1.01	101	90 - 110	2014-03-12
Total Barium		2	mg/L	1.00	1.02	102	90 - 110	2014-03-12
Total Cadmium		2	mg/L	1.00	1.02	102	90 - 110	2014-03-12
Total Chromium		2	mg/L	1.00	1.02	102	90 - 110	2014-03-12
Total Lead		2	mg/L	1.00	1.01	101	90 - 110	2014-03-12
Total Selenium		2	mg/L	1.00	1.01	101	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		2	mg/L	1.00	1.08	108	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Boron		2	mg/L	1.00	1.02	102	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cobalt			mg/L	1.00	1.05	105	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper			mg/L	1.00	1.06	106	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron			mg/L	1.00	1.05	105	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		2	mg/L	1.00	1.04	104	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110098 | Date Analyzed: 2014-03-12 | Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Molybdenum		2	mg/L	1.00	1.04	104	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Nickel		2	mg/L	1.00	1.05	105	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		2	mg/L	1.00	1.04	104	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		2	mg/L	0.125	0.131	105	90 - 110	2014-03-12
Total Arsenic		2	mg/L	1.00	1.04	104	90 - 110	2014-03-12
Total Barium		2	mg/L	1.00	1.05	105	90 - 110	2014-03-12
Total Cadmium		2	mg/L	1.00	1.04	104	90 - 110	2014-03-12
Total Chromium		2	mg/L	1.00	1.04	104	90 - 110	2014-03-12
Total Lead		2	mg/L	1.00	1.04	104	90 - 110	2014-03-12
Total Selenium		2	mg/L	1.00	1.03	103	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110106 | Date Analyzed: 2014-03-12 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		3	mg/L	0.100	0.0882	88	80 - 120	2014-03-12
Toluene		3	mg/L	0.100	0.104	104	80 - 120	2014-03-12
Ethylbenzene		3	mg/L	0.100	0.109	109	80 - 120	2014-03-12
Xylene		3	mg/L	0.300	0.333	111	80 - 120	2014-03-12

Standard (CCV-2)

QC Batch: 110106 | Date Analyzed: 2014-03-12 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		3	mg/L	0.100	0.0843	84	80 - 120	2014-03-12
Toluene		3	mg/L	0.100	0.0968	97	80 - 120	2014-03-12
Ethylbenzene		3	mg/L	0.100	0.100	100	80 - 120	2014-03-12
Xylene		3	mg/L	0.300	0.306	102	80 - 120	2014-03-12

Standard (CCV-3)

QC Batch: 110106 | Date Analyzed: 2014-03-12 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		3	mg/L	0.100	0.0889	89	80 - 120	2014-03-12
Toluene		3	mg/L	0.100	0.100	100	80 - 120	2014-03-12
Ethylbenzene		3	mg/L	0.100	0.106	106	80 - 120	2014-03-12
Xylene		3	mg/L	0.300	0.320	107	80 - 120	2014-03-12

Standard (CCV-1)

QC Batch: 110166 | Date Analyzed: 2014-03-07 | Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		1	mg/L	5.00	4.99	100	90 - 110	2014-03-07
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-07
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-03-07
PO4-P		1	mg/L	25.0	26.1	104	90 - 110	2014-03-07
Sulfate		1	mg/L	25.0	24.8	99	90 - 110	2014-03-07

Standard (CCV-2)

QC Batch: 110166 Date Analyzed: 2014-03-07 Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		1	mg/L	5.00	5.03	101	90 - 110	2014-03-07
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-07
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2014-03-07
PO4-P		1	mg/L	25.0	26.0	104	90 - 110	2014-03-07
Sulfate		1	mg/L	25.0	24.8	99	90 - 110	2014-03-07

Standard (CCV-3)

QC Batch: 110166 Date Analyzed: 2014-03-07 Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		1	mg/L	5.00	5.02	100	90 - 110	2014-03-07
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-07
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-03-07
PO4-P		1	mg/L	25.0	26.1	104	90 - 110	2014-03-07
Sulfate		1	mg/L	25.0	24.8	99	90 - 110	2014-03-07

Standard (CCV-4)

QC Batch: 110166 Date Analyzed: 2014-03-07 Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		1	mg/L	5.00	5.03	101	90 - 110	2014-03-07
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-03-07
Nitrate-N		1	mg/L	5.00	4.99	100	90 - 110	2014-03-07
PO4-P		1	mg/L	25.0	26.2	105	90 - 110	2014-03-07
Sulfate		1	mg/L	25.0	24.9	100	90 - 110	2014-03-07

Standard (ICV-1)

QC Batch: 110195 Date Analyzed: 2014-03-11 Analyzed By: AR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		3	mg/L as CaCo3	0.00	<20.0		-	2014-03-11
Carbonate Alkalinity		3	mg/L as CaCo3	0.00	250		-	2014-03-11
Bicarbonate Alkalinity		3	mg/L as CaCo3	0.00	<20.0		-	2014-03-11
Total Alkalinity		3	mg/L as CaCo3	250	258	103	90 - 110	2014-03-11

Standard (CCV-1)

QC Batch: 110195 Date Analyzed: 2014-03-11 Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		3	mg/L as CaCo3	0.00	<20.0		-	2014-03-11
Carbonate Alkalinity		3	mg/L as CaCo3	0.00	252		-	2014-03-11
Bicarbonate Alkalinity		3	mg/L as CaCo3	0.00	<20.0		-	2014-03-11
Total Alkalinity		3	mg/L as CaCo3	250	253	101	90 - 110	2014-03-11

Standard (CCV-1)

QC Batch: 110201 Date Analyzed: 2014-03-14 Analyzed By: MN

Param		Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol			2	mg/L	60.0	69.3	116	80 - 120	2014-03-14
1,4-Dichlorobenzene (para)			2	mg/L	60.0	62.3	104	80 - 120	2014-03-14
2-Nitrophenol	Qc	Qc	2	mg/L	60.0	75.4	126	80 - 120	2014-03-14
2,4-Dichlorophenol			2	mg/L	60.0	68.9	115	80 - 120	2014-03-14
Hexachlorobutadiene			2	mg/L	60.0	51.9	86	80 - 120	2014-03-14
4-Chloro-3-methylphenol			2	mg/L	60.0	56.0	93	80 - 120	2014-03-14
2,4,6-Trichlorophenol			2	mg/L	60.0	60.4	101	80 - 120	2014-03-14
Acenaphthene			2	mg/L	60.0	63.3	106	80 - 120	2014-03-14
Diphenylamine			2	mg/L	60.0	58.4	97	80 - 120	2014-03-14
Pentachlorophenol			2	mg/L	60.0	59.2	99	80 - 120	2014-03-14
Fluoranthene			2	mg/L	60.0	56.4	94	80 - 120	2014-03-14
Di-n-octylphthalate	Qc	Qc	2	mg/L	60.0	82.1	137	80 - 120	2014-03-14
Benzo(a)pyrene			2	mg/L	60.0	65.7	110	80 - 120	2014-03-14

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol			71.5	mg/L	1	60.0	119	80 - 120
Phenol-d5			71.6	mg/L	1	60.0	119	80 - 120
Nitrobenzene-d5			64.2	mg/L	1	60.0	107	80 - 120
2-Fluorobiphenyl			57.3	mg/L	1	60.0	96	80 - 120
2,4,6-Tribromophenol			71.9	mg/L	1	60.0	120	80 - 120
Terphenyl-d14			64.8	mg/L	1	60.0	108	80 - 120

Standard (ICV-1)

QC Batch: 110343 Date Analyzed: 2014-03-19 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		2	mg/L	51.0	52.3	102	90 - 110	2014-03-19
Dissolved Potassium		2	mg/L	55.0	55.8	101	90 - 110	2014-03-19
Dissolved Magnesium		2	mg/L	51.0	52.4	103	90 - 110	2014-03-19
Dissolved Sodium		2	mg/L	51.0	51.7	101	90 - 110	2014-03-19

Standard (CCV-1)

QC Batch: 110343 Date Analyzed: 2014-03-19 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		2	mg/L	51.0	54.1	106	90 - 110	2014-03-19
Dissolved Potassium		2	mg/L	55.0	57.4	104	90 - 110	2014-03-19
Dissolved Magnesium		2	mg/L	51.0	54.4	107	90 - 110	2014-03-19
Dissolved Sodium		2	mg/L	51.0	53.3	104	90 - 110	2014-03-19

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-13-9	Lubbock
3	NELAP	T104704392-13-7	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

LAB Order ID # 140306601

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name: Nova
Phone #: 432 520 7720
Address: (Street, City, Zip) 2057 commerce dr
Fax #:
Contact Person: curt stanley
E-mail:
Invoice to:
(If different from above)
Project #: TNM-9805A
Project Name: 9805A
Project Location (including state): NM
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC	See attached				Turn Around Time if different from standard	Hold
356735	MW-6	3	VOA	X				X				X		3/5/14	1343		X																							
736	MW-8	↓	↓	↓				↓				↓			1402		X																							
737	MW-1	↓													1423		X																							
738	MW-12	8	VOA	↓				↓	X			↓		↓	1523																						X				

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
John Flores	Nova	3/6/14			TA	3/6/14	8:03	INST 6.4 °C OBS 6.2 °C COR 5.2 °C
	TA	3/6/14	15:30					INST ____ °C OBS ____ °C COR ____ °C
					TA	3/7/14	9:00	INST 1.3 °C OBS 3.3 °C COR 3.1 °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-in-Review

REMARKS: Midland - BTEX/salt
Lubbock - VOC/SVOC/metals/cation
EP - anions

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier # Carry

TS: 20961826

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

NMOCD - Analytical Parameters for Initial Groundwater Sampling (3-12-08)

Field Parameters

~~specific conductance~~
~~pH~~
~~temperature~~
~~depth to water~~

General Chemistry

- Calcium
- Magnesium
- Potassium
- Sodium
- Chloride
- Sulfate
- Bicarbonate Alkalinity
- Carbonate Alkalinity
- Nitrate
- Phosphate
- Fluoride

RCRA Metals

- Arsenic
- Barium
- Cadmium
- Chromium
- Lead
- Mercury
- Selenium
- Silver

Additional WQCC Metals

- Copper
- Iron
- Manganese
- Zinc
- Aluminum
- Boron
- Cobalt
- Molybdenum
- Nickel

All compounds listed in U.S. EPA SW-846 Methods: 8260 (VOCs) & 8270 (SVOCs)

Cation-Anion Balance Sheet

DATE: 3/20/2014

Sample #	Calcium ppm	Magnesium ppm	Sodium ppm	Potassium ppm	Alkalinity ppm	Sulfate ppm	Chloride ppm	Nitrate-N ppm	Fluoride ppm	Bromide ppm	TDS ppm	EC µMHOs/cm
356738	79.4	58.3	218	12	257.00	227	289	0	2.72			

Sample #	Calcium in meq/L	Magnesium in meq/L	Sodium in meq/L	Potassium in meq/L	Alkalinity in meq/L	Sulfate in meq/L	Chloride in meq/L	Nitrate-N in meq/L	Fluoride in meq/L	Bromide in meq/L	**Total Cations in meq/L**	**Total Anions in meq/L**	**% Difference***
356738	3.96	4.80	9.48	0.31	5.14	4.73	8.15	0.00	0.14	0.00	18.55	18.16	1.0555706

	EC/Cation	EC/Anion
356738	1854.9527	1816.20108

range 0 to 0

TDS/EC	TDS/Cat		TDS/Anion
#DIV/0!	0.00		0.00

needs to be 0.55-0.77

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972•242•7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: June 4, 2014

Work Order: 14053007

Project Location: Lea Co., NM
Project Name: 9805-A
Project Number: TNM 98-05A
SRS #: TNM-98-05-A

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
364358	MW 7	water	2014-05-29	10:29	2014-05-30
364359	MW 9	water	2014-05-29	10:46	2014-05-30
364360	MW 11	water	2014-05-29	11:03	2014-05-30
364361	MW 6	water	2014-05-29	11:25	2014-05-30
364362	MW 8	water	2014-05-29	11:44	2014-05-30
364363	MW 12	water	2014-05-29	12:30	2014-05-30

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Report Contents

Case Narrative

Samples for project 9805-A were received by TraceAnalysis, Inc. on 2014-05-30 and assigned to work order 14053007. Samples for work order 14053007 were received intact without headspace and at a temperature of 5.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	95063	2014-06-02 at 10:37	112504	2014-06-04 at 07:40
BTEX	S 8021B	95116	2014-06-03 at 15:15	112508	2014-06-04 at 11:13

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14053007 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 364358 - MW 7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	112508	Date Analyzed:	2014-06-04	Analyzed By:	AK
Prep Batch:	95116	Sample Preparation:	2014-06-03	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0887	mg/L	1	0.100	89	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0738	mg/L	1	0.100	74	70 - 130

Sample: 364359 - MW 9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	112504	Date Analyzed:	2014-06-04	Analyzed By:	AK
Prep Batch:	95063	Sample Preparation:	2014-06-02	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0956	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0808	mg/L	1	0.100	81	70 - 130

Sample: 364360 - MW 11

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	112504	Date Analyzed:	2014-06-04	Analyzed By:	AK
Prep Batch:	95063	Sample Preparation:	2014-06-02	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0923	mg/L	1	0.100	92	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0796	mg/L	1	0.100	80	70 - 130

Sample: 364361 - MW 6

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	112508	Date Analyzed:	2014-06-04	Analyzed By:	AK
Prep Batch:	95116	Sample Preparation:	2014-06-03	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0898	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0727	mg/L	1	0.100	73	70 - 130

Sample: 364362 - MW 8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	112508	Date Analyzed:	2014-06-04	Analyzed By:	AK
Prep Batch:	95116	Sample Preparation:	2014-06-03	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0905	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0790	mg/L	1	0.100	79	70 - 130

Sample: 364363 - MW 12

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	112508	Date Analyzed:	2014-06-04	Analyzed By:	AK
Prep Batch:	95116	Sample Preparation:	2014-06-03	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1	**0.0166**	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	**0.00960**	mg/L	1	0.00100
Xylene	U	1	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0922	mg/L	1	0.100	92	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0817	mg/L	1	0.100	82	70 - 130

Method Blanks

Method Blank (1) QC Batch: 112504

QC Batch: 112504 | Date Analyzed: 2014-06-04 | Analyzed By: AK
Prep Batch: 95063 | QC Preparation: 2014-06-02 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000238	mg/L	0.001
Toluene		1	<0.000181	mg/L	0.001
Ethylbenzene		1	<0.000247	mg/L	0.001
Xylene		1	<0.000189	mg/L	0.003

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0915	mg/L	1	0.100	92	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0806	mg/L	1	0.100	81	70 - 130

Method Blank (1) QC Batch: 112508

QC Batch: 112508 | Date Analyzed: 2014-06-04 | Analyzed By: AK
Prep Batch: 95116 | QC Preparation: 2014-06-03 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000238	mg/L	0.001
Toluene		1	<0.000181	mg/L	0.001
Ethylbenzene		1	<0.000247	mg/L	0.001
Xylene		1	<0.000189	mg/L	0.003

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0925	mg/L	1	0.100	92	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0808	mg/L	1	0.100	81	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 112504 | Date Analyzed: 2014-06-04 | Analyzed By: AK
Prep Batch: 95063 | QC Preparation: 2014-06-02 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0917	mg/L	1	0.100	<0.000238	92	70 - 130
Toluene		1	0.0953	mg/L	1	0.100	<0.000181	95	70 - 130
Ethylbenzene		1	0.0944	mg/L	1	0.100	<0.000247	94	70 - 130
Xylene		1	0.286	mg/L	1	0.300	<0.000189	95	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0964	mg/L	1	0.100	<0.000238	96	70 - 130	5	20
Toluene		1	0.102	mg/L	1	0.100	<0.000181	102	70 - 130	7	20
Ethylbenzene		1	0.100	mg/L	1	0.100	<0.000247	100	70 - 130	6	20
Xylene		1	0.303	mg/L	1	0.300	<0.000189	101	70 - 130	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0974	0.0975	mg/L	1	0.100	97	98	70 - 130
4-Bromofluorobenzene (4-BFB)	0.106	0.104	mg/L	1	0.100	106	104	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 112508 | Date Analyzed: 2014-06-04 | Analyzed By: AK
Prep Batch: 95116 | QC Preparation: 2014-06-03 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.102	mg/L	1	0.100	<0.000238	102	70 - 130
Toluene		1	0.104	mg/L	1	0.100	<0.000181	104	70 - 130
Ethylbenzene		1	0.100	mg/L	1	0.100	<0.000247	100	70 - 130
Xylene		1	0.305	mg/L	1	0.300	<0.000189	102	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.103	mg/L	1	0.100	<0.000238	103	70 - 130	1	20
Toluene		1	0.105	mg/L	1	0.100	<0.000181	105	70 - 130	1	20
Ethylbenzene		1	0.102	mg/L	1	0.100	<0.000247	102	70 - 130	2	20
Xylene		1	0.310	mg/L	1	0.300	<0.000189	103	70 - 130	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0993	0.0980	mg/L	1	0.100	99	98	70 - 130
4-Bromofluorobenzene (4-BFB)	0.108	0.105	mg/L	1	0.100	108	105	70 - 130

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 364349

QC Batch: 112504 | Date Analyzed: 2014-06-04 | Analyzed By: AK
Prep Batch: 95063 | QC Preparation: 2014-06-02 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.103	mg/L	1	0.100	<0.000238	103	70 - 130
Toluene		1	0.108	mg/L	1	0.100	<0.000181	108	70 - 130
Ethylbenzene		1	0.106	mg/L	1	0.100	<0.000247	106	70 - 130
Xylene		1	0.322	mg/L	1	0.300	<0.000189	107	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.104	mg/L	1	0.100	<0.000238	104	70 - 130	1	20
Toluene		1	0.110	mg/L	1	0.100	<0.000181	110	70 - 130	2	20
Ethylbenzene		1	0.107	mg/L	1	0.100	<0.000247	107	70 - 130	1	20
Xylene		1	0.326	mg/L	1	0.300	<0.000189	109	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0985	0.0992	mg/L	1	0.1	98	99	70 - 130
4-Bromofluorobenzene (4-BFB)	0.106	0.105	mg/L	1	0.1	106	105	70 - 130

Matrix Spike (MS-1) Spiked Sample: 364362

QC Batch: 112508 | Date Analyzed: 2014-06-04 | Analyzed By: AK
Prep Batch: 95116 | QC Preparation: 2014-06-03 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.109	mg/L	1	0.100	<0.000238	109	70 - 130
Toluene		1	0.110	mg/L	1	0.100	<0.000181	110	70 - 130
Ethylbenzene		1	0.103	mg/L	1	0.100	<0.000247	103	70 - 130
Xylene		1	0.314	mg/L	1	0.300	<0.000189	105	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.107	mg/L	1	0.100	<0.000238	107	70 - 130	2	20
Toluene		1	0.107	mg/L	1	0.100	<0.000181	107	70 - 130	3	20
Ethylbenzene		1	0.100	mg/L	1	0.100	<0.000247	100	70 - 130	3	20
Xylene		1	0.305	mg/L	1	0.300	<0.000189	102	70 - 130	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0970	0.0982	mg/L	1	0.1	97	98	70 - 130
4-Bromofluorobenzene (4-BFB)	0.101	0.0985	mg/L	1	0.1	101	98	70 - 130

Calibration Standards

Standard (CCV-2)

QC Batch: 112504 | Date Analyzed: 2014-06-04 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.102	102	80 - 120	2014-06-04
Toluene		1	mg/L	0.100	0.105	105	80 - 120	2014-06-04
Ethylbenzene		1	mg/L	0.100	0.101	101	80 - 120	2014-06-04
Xylene		1	mg/L	0.300	0.306	102	80 - 120	2014-06-04

Standard (CCV-3)

QC Batch: 112504 | Date Analyzed: 2014-06-04 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.102	102	80 - 120	2014-06-04
Toluene		1	mg/L	0.100	0.104	104	80 - 120	2014-06-04
Ethylbenzene		1	mg/L	0.100	0.100	100	80 - 120	2014-06-04
Xylene		1	mg/L	0.300	0.306	102	80 - 120	2014-06-04

Standard (CCV-1)

QC Batch: 112508 | Date Analyzed: 2014-06-04 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.102	102	80 - 120	2014-06-04
Toluene		1	mg/L	0.100	0.104	104	80 - 120	2014-06-04
Ethylbenzene		1	mg/L	0.100	0.100	100	80 - 120	2014-06-04
Xylene		1	mg/L	0.300	0.306	102	80 - 120	2014-06-04

Standard (CCV-2)

QC Batch: 112508 | Date Analyzed: 2014-06-04 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.105	105	80 - 120	2014-06-04
Toluene		1	mg/L	0.100	0.106	106	80 - 120	2014-06-04
Ethylbenzene		1	mg/L	0.100	0.100	100	80 - 120	2014-06-04
Xylene		1	mg/L	0.300	0.305	102	80 - 120	2014-06-04

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-13-7	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

LAB Order ID # 14053007

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BioAquatic Testing
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Carrollton, Texas 75006
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Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name: NOVA
Phone #: (432) 520-7720
Address: (Street, City, Zip) 2057 Commerce Midland Tx
Fax #:
Contact Person: Curt Stanley
E-mail: cjbryant@paalp.com
Invoice to: (If different from above) Plains
Project #: NM-2015
Project Name: 9805A
Project Location (including state):
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX (8021) / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC	Turn Around Time if different from standard	Hold
364358	mw7	3	VOA	X				X				X		5/29/14	1029		X																			
359	mw9	↓	↓	↓				↓				↓		↓	1046		↓																			
360	mw11	↓	↓	↓				↓				↓		↓	1103		↓																			
361	mw6	↓	↓	↓				↓				↓		↓	1125		↓																			
362	mw8	↓	↓	↓				↓				↓		↓	1144		↓																			
363	mw12	↓	↓	↓				↓				↓		↓	1230		↓																			

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
[signature]	NOVA	5/30/14	848	[signature]	TA	5/30/14	8:48	INST R4 OBS 5.0 °C COR 5.0 °C
								INST ___ °C OBS ___ °C COR ___ °C
								INST ___ °C OBS ___ °C COR ___ °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-in-Review ____

REMARKS: Midland all

☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Cary A

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TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: August 14, 2014

Work Order: 14081303

Project Location: Lea Co., NM
Project Name: 9805-A
Project Number: TNM 98-05A
SRS #: TNM-98-05-A

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
371476	MW6	water	2014-08-12	11:12	2014-08-13
371477	MW8	water	2014-08-12	11:56	2014-08-13
371478	MW12	water	2014-08-12	13:05	2014-08-13

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director

Report Contents

Case Narrative

Samples for project 9805-A were received by TraceAnalysis, Inc. on 2014-08-13 and assigned to work order 14081303. Samples for work order 14081303 were received intact without headspace and at a temperature of 3.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	96896	2014-08-13 at 15:30	114569	2014-08-14 at 10:39

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14081303 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 371476 - MW6

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	114569	Date Analyzed:	2014-08-14	Analyzed By:	AK
Prep Batch:	96896	Sample Preparation:	2014-08-13	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	5	<0.00100	mg/L	1	0.00100
Toluene	U	5	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	5	<0.00100	mg/L	1	0.00100
Xylene	Qc,U	5	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0949	mg/L	1	0.100	95	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0825	mg/L	1	0.100	82	70 - 130

Sample: 371477 - MW8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	114569	Date Analyzed:	2014-08-14	Analyzed By:	AK
Prep Batch:	96896	Sample Preparation:	2014-08-13	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	5	<0.00100	mg/L	1	0.00100
Toluene	U	5	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	5	<0.00100	mg/L	1	0.00100
Xylene	Qc,U	5	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0946	mg/L	1	0.100	95	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0797	mg/L	1	0.100	80	70 - 130

Sample: 371478 - MW12

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	114569	Date Analyzed:	2014-08-14	Analyzed By:	AK
Prep Batch:	96896	Sample Preparation:	2014-08-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		5	**0.0513**	mg/L	1	0.00100
Toluene	U	5	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	5	<0.00100	mg/L	1	0.00100
Xylene	Qc,U	5	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0943	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0831	mg/L	1	0.100	83	70 - 130

Method Blanks

Method Blank (1) QC Batch: 114569

QC Batch:	114569	Date Analyzed:	2014-08-14	Analyzed By:	AK
Prep Batch:	96896	QC Preparation:	2014-08-13	Prepared By:	AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		5	<0.000299	mg/L	0.001
Toluene		5	<0.000247	mg/L	0.001
Ethylbenzene		5	<0.000423	mg/L	0.001
Xylene		5	<0.000552	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0959	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0841	mg/L	1	0.100	84	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114569 | Date Analyzed: 2014-08-14 | Analyzed By: AK
Prep Batch: 96896 | QC Preparation: 2014-08-13 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		5	0.106	mg/L	1	0.100	<0.000299	106	70 - 130
Toluene		5	0.106	mg/L	1	0.100	<0.000247	106	70 - 130
Ethylbenzene		5	0.106	mg/L	1	0.100	<0.000423	106	70 - 130
Xylene		5	0.319	mg/L	1	0.300	<0.000552	106	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		5	0.103	mg/L	1	0.100	<0.000299	103	70 - 130	3	20
Toluene		5	0.104	mg/L	1	0.100	<0.000247	104	70 - 130	2	20
Ethylbenzene		5	0.101	mg/L	1	0.100	<0.000423	101	70 - 130	5	20
Xylene		5	0.308	mg/L	1	0.300	<0.000552	103	70 - 130	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate			LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			0.104	0.0974	mg/L	1	0.100	104	97	70 - 130
4-Bromofluorobenzene (4-BFB)	Qsr	Qsr	0.150	0.0923	mg/L	1	0.100	150	92	70 - 130

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 371397

QC Batch: 114569 | Date Analyzed: 2014-08-14 | Analyzed By: AK
Prep Batch: 96896 | QC Preparation: 2014-08-13 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		5	0.100	mg/L	1	0.100	<0.000299	100	70 - 130
Toluene		5	0.0968	mg/L	1	0.100	<0.000247	97	70 - 130
Ethylbenzene		5	0.0939	mg/L	1	0.100	<0.000423	94	70 - 130
Xylene		5	0.283	mg/L	1	0.300	<0.000552	94	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		5	0.0949	mg/L	1	0.100	<0.000299	95	70 - 130	5	20
Toluene		5	0.0929	mg/L	1	0.100	<0.000247	93	70 - 130	4	20
Ethylbenzene		5	0.0892	mg/L	1	0.100	<0.000423	89	70 - 130	5	20
Xylene		5	0.269	mg/L	1	0.300	<0.000552	90	70 - 130	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0966	0.0959	mg/L	1	0.1	97	96	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0888	0.0858	mg/L	1	0.1	89	86	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 114569 | Date Analyzed: 2014-08-14 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		5	mg/L	0.100	0.120	120	80 - 120	2014-08-14
Toluene		5	mg/L	0.100	0.117	117	80 - 120	2014-08-14
Ethylbenzene		5	mg/L	0.100	0.120	120	80 - 120	2014-08-14
Xylene	Qc	Qc	5	mg/L	0.300	0.362	121	80 - 120	2014-08-14

Standard (CCV-2)

QC Batch: 114569 | Date Analyzed: 2014-08-14 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		5	mg/L	0.100	0.106	106	80 - 120	2014-08-14
Toluene		5	mg/L	0.100	0.105	105	80 - 120	2014-08-14
Ethylbenzene		5	mg/L	0.100	0.104	104	80 - 120	2014-08-14
Xylene		5	mg/L	0.300	0.308	103	80 - 120	2014-08-14

Standard (CCV-3)

QC Batch: 114569 | Date Analyzed: 2014-08-14 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		5	mg/L	0.100	0.0999	100	80 - 120	2014-08-14
Toluene		5	mg/L	0.100	0.0988	99	80 - 120	2014-08-14
Ethylbenzene		5	mg/L	0.100	0.0959	96	80 - 120	2014-08-14
Xylene		5	mg/L	0.300	0.289	96	80 - 120	2014-08-14

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	PJLA	L14-93	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-14-10	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2013-083	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.

F	Description
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

LAB Order ID # 14081303

Page 1 of 1

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1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name: NOVA
Phone #: (432) 520-7720
Address: (Street, City, Zip) 2057 Commerce MIDLAND TX
Fax #:
Contact Person: Curt Stanley
E-mail:
Invoice to: (If different from above) Plains
Project #: TNM 9805A
Project Name: 9805A
Project Location (including state):
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
371476	MW6	3	VOA	X				X				X		8/13/14	1112
477	MW8	1	1	1				1				1		1	1156
478	MW12	1	1	1				1				1		1	1305

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC						Turn Around Time if different from standard	Hold
	X																								
	1																								
	1																								

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	NOVA	8/13/14			TA	8/13/14	8:05	INST 1R / OBS 3.1 °C / COR 3.0 °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ____ / OBS ____ °C / COR ____ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ____ / OBS ____ °C / COR ____ °C

LAB USE ONLY
Intact Y / N
Headspace Y / N NA
Log-in-Review SMC 8/13/14

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Carry-in

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TRACEANALYSIS, INC.

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5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972•242•7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: August 22, 2014

Work Order: 14081403

Project Location: Lea Co., NM
Project Name: 9805-A
Project Number: TNM 98-05A
SRS #: TNM-98-05-A

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
371635	MW-1	water	2014-08-13	10:20	2014-08-14

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director

Report Contents

Case Narrative

Samples for project 9805-A were received by TraceAnalysis, Inc. on 2014-08-14 and assigned to work order 14081403. Samples for work order 14081403 were received intact without headspace and at a temperature of 3.2 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	97079	2014-08-21 at 15:26	114795	2014-08-21 at 15:26

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14081403 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 371635 - MW-1

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	114795	Date Analyzed:	2014-08-21	Analyzed By:	JS
Prep Batch:	97079	Sample Preparation:	2014-08-21	Prepared By:	JS

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Benzene		1,2,3,4,5	**0.722**		mg/L	50	0.00100
Toluene	U	1,2,3,4,5	<0.0500		mg/L	50	0.00100
Ethylbenzene		1,2,3,4,5	<0.0500		mg/L	50	0.00100
Xylene		1,2,3,4,5	<0.0500		mg/L	50	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	5.06	mg/L	50	5.00	101	70 - 130
4-Bromofluorobenzene (4-BFB)		5	4.65	mg/L	50	5.00	93	70 - 130

Method Blanks

Method Blank (1) QC Batch: 114795

QC Batch:	114795	Date Analyzed:	2014-08-21	Analyzed By:	JS
Prep Batch:	97079	QC Preparation:	2014-08-21	Prepared By:	JS

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1,2,3,4,5	<0.000303	mg/L	0.001
Toluene		1,2,3,4,5	<0.000303	mg/L	0.001
Ethylbenzene		1,2,3,4,5	<0.000266	mg/L	0.001
Xylene		1,2,3,4,5	<0.000265	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	0.102	mg/L	1	0.100	102	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0944	mg/L	1	0.100	94	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114795 | Date Analyzed: 2014-08-21 | Analyzed By: JS
Prep Batch: 97079 | QC Preparation: 2014-08-21 | Prepared By: JS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1,2,3,4,5	0.102	mg/L	1	0.100	<0.000303	102	70 - 130
Toluene		1,2,3,4,5	0.104	mg/L	1	0.100	<0.000303	104	70 - 130
Ethylbenzene		1,2,3,4,5	0.101	mg/L	1	0.100	<0.000266	101	70 - 130
Xylene		1,2,3,4,5	0.309	mg/L	1	0.300	<0.000265	103	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1,2,3,4,5	0.102	mg/L	1	0.100	<0.000303	102	70 - 130	1	20
Toluene		1,2,3,4,5	0.105	mg/L	1	0.100	<0.000303	105	70 - 130	1	20
Ethylbenzene		1,2,3,4,5	0.103	mg/L	1	0.100	<0.000266	103	70 - 130	2	20
Xylene		1,2,3,4,5	0.314	mg/L	1	0.300	<0.000265	105	70 - 130	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate		LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	5	0.104	0.103	mg/L	1	0.100	104	103	70 - 130
4-Bromofluorobenzene (4-BFB)	5	0.0968	0.0973	mg/L	1	0.100	97	97	70 - 130

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 372296

QC Batch: 114795 | Date Analyzed: 2014-08-21 | Analyzed By: JS
Prep Batch: 97079 | QC Preparation: 2014-08-21 | Prepared By: JS

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1,2,3,4,5	0.103	mg/L	1	0.100	<0.000303	103	70 - 130
Toluene		1,2,3,4,5	0.106	mg/L	1	0.100	<0.000303	106	70 - 130
Ethylbenzene		1,2,3,4,5	0.103	mg/L	1	0.100	<0.000266	103	70 - 130
Xylene		1,2,3,4,5	0.312	mg/L	1	0.300	<0.000265	104	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1,2,3,4,5	0.104	mg/L	1	0.100	<0.000303	104	70 - 130	1	20
Toluene		1,2,3,4,5	0.105	mg/L	1	0.100	<0.000303	105	70 - 130	1	20
Ethylbenzene		1,2,3,4,5	0.102	mg/L	1	0.100	<0.000266	102	70 - 130	0	20
Xylene		1,2,3,4,5	0.312	mg/L	1	0.300	<0.000265	104	70 - 130	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	5	0.104	0.102	mg/L	1	0.1	104	102	70 - 130
4-Bromofluorobenzene (4-BFB)	5	0.0963	0.0965	mg/L	1	0.1	96	96	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 114795 | Date Analyzed: 2014-08-21 | Analyzed By: JS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1,2,3,4,5	mg/L	0.100	0.106	106	80 - 120	2014-08-21
Toluene		1,2,3,4,5	mg/L	0.100	0.105	105	80 - 120	2014-08-21
Ethylbenzene		1,2,3,4,5	mg/L	0.100	0.103	103	80 - 120	2014-08-21
Xylene		1,2,3,4,5	mg/L	0.300	0.312	104	80 - 120	2014-08-21

Standard (CCV-2)

QC Batch: 114795 | Date Analyzed: 2014-08-21 | Analyzed By: JS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1,2,3,4,5	mg/L	0.100	0.102	102	80 - 120	2014-08-21
Toluene		1,2,3,4,5	mg/L	0.100	0.103	103	80 - 120	2014-08-21
Ethylbenzene		1,2,3,4,5	mg/L	0.100	0.100	100	80 - 120	2014-08-21
Xylene		1,2,3,4,5	mg/L	0.300	0.305	102	80 - 120	2014-08-21

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	PJLA	L14-93	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-14-10	Lubbock
5		2013-083	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

F	Description
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

LAB Order ID # 1408140 3

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
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Tel (432) 689-6301
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El Paso, Texas 79922
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3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name: NOVA
Phone #: (432) 520-7720
Address: (Street, City, Zip) 2057 Commerce Midland TX
Fax #:
Contact Person: Curt Stanley
E-mail:
Invoice to: (If different from above) Haws
Project #: TNM-9805A
Project Name: 9805A
Project Location (including state):
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
371635	MW 1	3	VOA	X				X				X		8/13/14	1020

MTBE 8021 / 602 / 8260 / 624	BTEX (8021) 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
	X																								

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
	NOVA	8/14/14	808		TA	8/14/14	8:08

INST (IR) OBS 3.5 °C COR 3.2 °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-in-Review

REMARKS: Rush

- Dry Weight Basis Required
- TRRP Report Required
- Check If Special Reporting Limits Are Needed

Carrier #

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

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TRACEANALYSIS, INC.

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(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972•242•7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: December 12, 2014

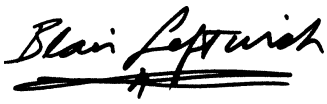
Work Order: 14111710

Project Location: Lea Co., NM
Project Name: 9805-A
Project Number: TNM 98-05A
SRS #: TNM-98-05-A

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
379783	MW-3	water	2014-11-15	15:28	2014-11-17
379784	MW-5	water	2014-11-15	15:43	2014-11-17
379785	MW-7	water	2014-11-15	15:51	2014-11-17
379786	MW-9	water	2014-11-15	16:06	2014-11-17
379787	MW-11	water	2014-11-15	16:20	2014-11-17
379788	MW-6	water	2014-11-15	16:37	2014-11-17
379789	MW-8	water	2014-11-15	16:51	2014-11-17
379790	MW-12	water	2014-11-15	17:22	2014-11-17
379791	MW-1	water	2014-11-15	17:30	2014-11-17

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.



Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

Report Contents

Case Narrative

Samples for project 9805-A were received by TraceAnalysis, Inc. on 2014-11-17 and assigned to work order 14111710. Samples for work order 14111710 were received intact without headspace and at a temperature of 1.4 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	99183	2014-11-18 at 10:45	117308	2014-11-19 at 07:17
BTEX	S 8021B	99220	2014-11-20 at 15:00	117344	2014-11-20 at 09:13
PAH	S 8270D	99724	2014-11-22 at 15:00	117952	2014-12-12 at 12:51

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14111710 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 379783 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117308	Date Analyzed:	2014-11-19	Analyzed By:	AK
Prep Batch:	99183	Sample Preparation:	2014-11-18	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	5	<0.00100	mg/L	1	0.00100
Toluene	U	5	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	5	<0.00100	mg/L	1	0.00100
Xylene	U	5	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0734	mg/L	1	0.100	73	70 - 130
4-Bromofluorobenzene (4-BFB)	[1] Qsr	Qsr	0.0616	mg/L	1	0.100	62	70 - 130

Sample: 379784 - MW-5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117308	Date Analyzed:	2014-11-19	Analyzed By:	AK
Prep Batch:	99183	Sample Preparation:	2014-11-18	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	5	<0.00100	mg/L	1	0.00100
Toluene	U	5	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	5	<0.00100	mg/L	1	0.00100
Xylene	U	5	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0723	mg/L	1	0.100	72	70 - 130
4-Bromofluorobenzene (4-BFB)	[2] Qsr	Qsr	0.0605	mg/L	1	0.100	60	70 - 130

Sample: 379785 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117344	Date Analyzed:	2014-11-20	Analyzed By:	AK
Prep Batch:	99220	Sample Preparation:	2014-11-20	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	5	<0.00100	mg/L	1	0.00100
Toluene	U	5	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	5	<0.00100	mg/L	1	0.00100
Xylene	U	5	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0965	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0929	mg/L	1	0.100	93	70 - 130

Sample: 379786 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117308	Date Analyzed:	2014-11-19	Analyzed By:	AK
Prep Batch:	99183	Sample Preparation:	2014-11-18	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	5	<0.00100	mg/L	1	0.00100
Toluene	U	5	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	5	<0.00100	mg/L	1	0.00100
Xylene	U	5	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0765	mg/L	1	0.100	76	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0698	mg/L	1	0.100	70	70 - 130

Sample: 379787 - MW-11

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117308	Date Analyzed:	2014-11-19	Analyzed By:	AK
Prep Batch:	99183	Sample Preparation:	2014-11-18	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	5	<0.00100	mg/L	1	0.00100
Toluene	U	5	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	5	<0.00100	mg/L	1	0.00100
Xylene	U	5	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0735	mg/L	1	0.100	74	70 - 130
4-Bromofluorobenzene (4-BFB)	3 Qsr	Qsr	0.0599	mg/L	1	0.100	60	70 - 130

Sample: 379788 - MW-6

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117344	Date Analyzed:	2014-11-20	Analyzed By:	AK
Prep Batch:	99220	Sample Preparation:	2014-11-20	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	5	<0.00100	mg/L	1	0.00100
Toluene	U	5	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	5	<0.00100	mg/L	1	0.00100
Xylene	U	5	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0929	mg/L	1	0.100	93	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0906	mg/L	1	0.100	91	70 - 130

Sample: 379789 - MW-8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117308	Date Analyzed:	2014-11-19	Analyzed By:	AK
Prep Batch:	99183	Sample Preparation:	2014-11-18	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	5	<0.00100	mg/L	1	0.00100
Toluene	U	5	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	5	<0.00100	mg/L	1	0.00100
Xylene	U	5	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0744	mg/L	1	0.100	74	70 - 130
4-Bromofluorobenzene (4-BFB)	4 Qsr	Qsr	0.0624	mg/L	1	0.100	62	70 - 130

Sample: 379790 - MW-12

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117344	Date Analyzed:	2014-11-20	Analyzed By:	AK
Prep Batch:	99220	Sample Preparation:	2014-11-20	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		5	**0.214**	mg/L	50	0.00100
Toluene	U	5	<0.0500	mg/L	50	0.00100
Ethylbenzene	U	5	<0.0500	mg/L	50	0.00100
Xylene	U	5	<0.0500	mg/L	50	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.52	mg/L	50	5.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)			4.42	mg/L	50	5.00	88	70 - 130

Sample: 379790 - MW-12

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270D	Prep Method:	S 3510C
QC Batch:	117952	Date Analyzed:	2014-12-12	Analyzed By:	MN
Prep Batch:	99724	Sample Preparation:	2014-11-22	Prepared By:	MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
2-Methylnaphthalene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
1-Methylnaphthalene	Qs,U	1	<0.000200	mg/L	1	0.000200
Acenaphthylene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Acenaphthene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Dibenzofuran	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Fluorene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Anthracene	Qc,U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Phenanthrene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Fluoranthene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Pyrene	Qc,U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Benzo(a)anthracene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Chrysene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Benzo(a)pyrene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene	Qs,U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	Qsr	Qsr		0.0322	mg/L	1	8.00	0	10 - 121
2-Fluorobiphenyl				2.18	mg/L	1	8.00	27	20.5 - 120
Terphenyl-d14				2.16	mg/L	1	8.00	27	26.4 - 120

Sample: 379791 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117344	Date Analyzed:	2014-11-20	Analyzed By:	AK
Prep Batch:	99220	Sample Preparation:	2014-11-20	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		5	**0.500**	mg/L	50	0.00100
Toluene	U	5	<0.0500	mg/L	50	0.00100
Ethylbenzene		5	**0.170**	mg/L	50	0.00100
Xylene		5	**0.345**	mg/L	50	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.62	mg/L	50	5.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			4.44	mg/L	50	5.00	89	70 - 130

Sample: 379791 - MW-1

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270D	Prep Method:	S 3510C
QC Batch:	117952	Date Analyzed:	2014-12-12	Analyzed By:	MN
Prep Batch:	99724	Sample Preparation:	2014-11-22	Prepared By:	MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
2-Methylnaphthalene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
1-Methylnaphthalene	Qs,U	1	<0.000200	mg/L	1	0.000200
Acenaphthylene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Acenaphthene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Dibenzofuran	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Fluorene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Anthracene	Qc,U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Phenanthrene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Fluoranthene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Pyrene	Qc,U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Benzo(a)anthracene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Chrysene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Benzo(a)pyrene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene	Qs,U	1,2,3,4,6	<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene	U	1,2,3,4,6	<0.000200	mg/L	1	0.000200

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	Qsr	Qsr		0.0239	mg/L	1	8.00	0	10 - 121
2-Fluorobiphenyl	Qsr	Qsr		1.16	mg/L	1	8.00	14	20.5 - 120
Terphenyl-d14	Qsr	Qsr		1.15	mg/L	1	8.00	14	26.4 - 120

Method Blanks

Method Blank (1) QC Batch: 117308

QC Batch: 117308 | Date Analyzed: 2014-11-19 | Analyzed By: AK
Prep Batch: 99183 | QC Preparation: 2014-11-18 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		5	<0.000299	mg/L	0.001
Toluene		5	<0.000247	mg/L	0.001
Ethylbenzene		5	<0.000423	mg/L	0.001
Xylene		5	<0.000552	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0745	mg/L	1	0.100	74	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0726	mg/L	1	0.100	73	70 - 130

Method Blank (1) QC Batch: 117344

QC Batch: 117344 | Date Analyzed: 2014-11-20 | Analyzed By: AK
Prep Batch: 99220 | QC Preparation: 2014-11-20 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		5	<0.000299	mg/L	0.001
Toluene		5	<0.000247	mg/L	0.001
Ethylbenzene		5	<0.000423	mg/L	0.001
Xylene		5	<0.000552	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0922	mg/L	1	0.100	92	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0800	mg/L	1	0.100	80	70 - 130

Method Blank (1) QC Batch: 117952

QC Batch: 117952 | Date Analyzed: 2014-12-12 | Analyzed By: MN
Prep Batch: 99724 | QC Preparation: 2014-11-22 | Prepared By: MN

Parameter	Flag	Cert	MDL Result	Units	RL
Naphthalene		1,2,3,4,6	<0.0000708	mg/L	0.0002
2-Methylnaphthalene		1,2,3,4,6	<0.0000834	mg/L	0.0002
1-Methylnaphthalene		1	<0.000107	mg/L	0.0002
Acenaphthylene		1,2,3,4,6	<0.0000823	mg/L	0.0002
Acenaphthene		1,2,3,4,6	<0.0000888	mg/L	0.0002
Dibenzofuran		1,2,3,4,6	<0.0000787	mg/L	0.0002
Fluorene		1,2,3,4,6	<0.0000670	mg/L	0.0002
Anthracene		1,2,3,4,6	<0.0000838	mg/L	0.0002
Phenanthrene		1,2,3,4,6	<0.000106	mg/L	0.0002
Fluoranthene		1,2,3,4,6	<0.0000885	mg/L	0.0002
Pyrene		1,2,3,4,6	<0.000149	mg/L	0.0002
Benzo(a)anthracene		1,2,3,4,6	<0.000146	mg/L	0.0002
Chrysene		1,2,3,4,6	<0.000157	mg/L	0.0002
Benzo(b)fluoranthene		1,2,3,4,6	<0.000146	mg/L	0.0002
Benzo(k)fluoranthene		1,2,3,4,6	<0.000152	mg/L	0.0002
Benzo(a)pyrene		1,2,3,4,6	<0.000141	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		1,2,3,4,6	<0.000160	mg/L	0.0002
Dibenzo(a,h)anthracene		1,2,3,4,6	<0.000127	mg/L	0.0002
Benzo(g,h,i)perylene		1,2,3,4,6	<0.000175	mg/L	0.0002

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	Qsr	Qsr		0.0448	mg/L	1	8.00	0	10 - 121
2-Fluorobiphenyl				4.62	mg/L	1	8.00	58	20.5 - 120
Terphenyl-d14				4.32	mg/L	1	8.00	54	26.4 - 120

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117308 | Date Analyzed: 2014-11-19 | Analyzed By: AK
Prep Batch: 99183 | QC Preparation: 2014-11-18 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		5	0.0931	mg/L	1	0.100	<0.000299	93	70 - 130
Toluene		5	0.0963	mg/L	1	0.100	<0.000247	96	70 - 130
Ethylbenzene		5	0.0970	mg/L	1	0.100	<0.000423	97	70 - 130
Xylene		5	0.292	mg/L	1	0.300	<0.000552	97	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		5	0.0919	mg/L	1	0.100	<0.000299	92	70 - 130	1	20
Toluene		5	0.0937	mg/L	1	0.100	<0.000247	94	70 - 130	3	20
Ethylbenzene		5	0.0964	mg/L	1	0.100	<0.000423	96	70 - 130	1	20
Xylene		5	0.290	mg/L	1	0.300	<0.000552	97	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0794	0.0796	mg/L	1	0.100	79	80	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0979	0.0940	mg/L	1	0.100	98	94	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 117344 | Date Analyzed: 2014-11-20 | Analyzed By: AK
Prep Batch: 99220 | QC Preparation: 2014-11-20 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		5	0.0981	mg/L	1	0.100	<0.000299	98	70 - 130
Toluene		5	0.0990	mg/L	1	0.100	<0.000247	99	70 - 130
Ethylbenzene		5	0.102	mg/L	1	0.100	<0.000423	102	70 - 130
Xylene		5	0.306	mg/L	1	0.300	<0.000552	102	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		5	0.0955	mg/L	1	0.100	<0.000299	96	70 - 130	3	20
Toluene		5	0.0957	mg/L	1	0.100	<0.000247	96	70 - 130	3	20
Ethylbenzene		5	0.0961	mg/L	1	0.100	<0.000423	96	70 - 130	6	20
Xylene		5	0.289	mg/L	1	0.300	<0.000552	96	70 - 130	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0901	0.0901	mg/L	1	0.100	90	90	70 - 130
4-Bromofluorobenzene (4-BFB)	0.111	0.112	mg/L	1	0.100	111	112	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 117952 | Date Analyzed: 2014-12-12 | Analyzed By: MN
Prep Batch: 99724 | QC Preparation: 2014-11-22 | Prepared By: MN

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene		1,2,3,4,6	5.88	mg/L	1	8.00	<0.0000708	74	33.4 - 120
2-Methylnaphthalene		1,2,3,4,6	5.43	mg/L	1	8.00	<0.0000834	68	36.7 - 120
1-Methylnaphthalene	Qs	Qs 1	11.8	mg/L	1	8.00	<0.000107	148	37.7 - 120
Acenaphthylene		1,2,3,4,6	7.14	mg/L	1	8.00	<0.0000832	89	39.7 - 120
Acenaphthene		1,2,3,4,6	6.13	mg/L	1	8.00	<0.0000888	77	10 - 120
Dibenzofuran		1,2,3,4,6	5.65	mg/L	1	8.00	<0.0000787	71	27.5 - 120
Fluorene		1,2,3,4,6	5.17	mg/L	1	8.00	<0.0000670	65	32.7 - 120
Anthracene		1,2,3,4,6	9.06	mg/L	1	8.00	<0.0000838	113	23.6 - 120
Phenanthrene		1,2,3,4,6	4.69	mg/L	1	8.00	<0.000106	59	26.7 - 120
Fluoranthene		1,2,3,4,6	4.48	mg/L	1	8.00	<0.0000885	56	19.2 - 120
Pyrene		1,2,3,4,6	7.73	mg/L	1	8.00	<0.000149	97	34.1 - 120
Benzo(a)anthracene		1,2,3,4,6	5.60	mg/L	1	8.00	<0.000146	70	43.4 - 120
Chrysene		1,2,3,4,6	6.17	mg/L	1	8.00	<0.000157	77	10 - 176
Benzo(b)fluoranthene		1,2,3,4,6	5.60	mg/L	1	8.00	<0.000146	70	18.4 - 120
Benzo(k)fluoranthene		1,2,3,4,6	6.05	mg/L	1	8.00	<0.000152	76	22 - 124
Benzo(a)pyrene		1,2,3,4,6	6.45	mg/L	1	8.00	<0.000141	81	25.1 - 120
Indeno(1,2,3-cd)pyrene		1,2,3,4,6	3.84	mg/L	1	8.00	<0.000160	48	21.3 - 120
Dibenzo(a,h)anthracene		1,2,3,4,6	13.6	mg/L	1	8.00	<0.000127	170	10 - 173
Benzo(g,h,i)perylene		1,2,3,4,6	5.54	mg/L	1	8.00	<0.000175	69	10.7 - 128

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene		1,2,3,4,6	6.01	mg/L	1	8.00	<0.0000708	75	33.4 - 120	2	20

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control spikes continued ...

Param		F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
2-Methylnaphthalene			1,2,3,4,6	5.47	mg/L	1	8.00	<0.0000834	68	36.7 - 120	1	20
1-Methylnaphthalene	Qs	Qs	1	11.9	mg/L	1	8.00	<0.000107	149	37.7 - 120	1	20
Acenaphthylene			1,2,3,4,6	7.42	mg/L	1	8.00	<0.0000832	93	39.7 - 120	4	20
Acenaphthene			1,2,3,4,6	6.29	mg/L	1	8.00	<0.0000888	79	10 - 120	3	20
Dibenzofuran			1,2,3,4,6	5.72	mg/L	1	8.00	<0.0000787	72	27.5 - 120	1	20
Fluorene			1,2,3,4,6	5.15	mg/L	1	8.00	<0.0000670	64	32.7 - 120	0	20
Anthracene			1,2,3,4,6	9.19	mg/L	1	8.00	<0.0000838	115	23.6 - 120	1	20
Phenanthrene			1,2,3,4,6	4.67	mg/L	1	8.00	<0.000106	58	26.7 - 120	0	20
Fluoranthene			1,2,3,4,6	4.61	mg/L	1	8.00	<0.0000885	58	19.2 - 120	3	20
Pyrene			1,2,3,4,6	7.37	mg/L	1	8.00	<0.000149	92	34.1 - 120	5	20
Benzo(a)anthracene			1,2,3,4,6	5.68	mg/L	1	8.00	<0.000146	71	43.4 - 120	1	20
Chrysene			1,2,3,4,6	6.17	mg/L	1	8.00	<0.000157	77	10 - 176	0	20
Benzo(b)fluoranthene			1,2,3,4,6	5.77	mg/L	1	8.00	<0.000146	72	18.4 - 120	3	20
Benzo(k)fluoranthene			1,2,3,4,6	5.99	mg/L	1	8.00	<0.000152	75	22 - 124	1	20
Benzo(a)pyrene			1,2,3,4,6	6.53	mg/L	1	8.00	<0.000141	82	25.1 - 120	1	20
Indeno(1,2,3-cd)pyrene			1,2,3,4,6	3.69	mg/L	1	8.00	<0.000160	46	21.3 - 120	4	20
Dibenzo(a,h)anthracene	Qs	Qs	1,2,3,4,6	14.6	mg/L	1	8.00	<0.000127	182	10 - 173	7	20
Benzo(g,h,i)perylene			1,2,3,4,6	5.60	mg/L	1	8.00	<0.000175	70	10.7 - 128	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate			LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Nitrobenzene-d5	Qsr	Qsr	0.0612	0.0489	mg/L	1	8.00	1	1	10 - 121
2-Fluorobiphenyl			6.17	6.52	mg/L	1	8.00	77	82	20.5 - 120
Terphenyl-d14			6.01	5.96	mg/L	1	8.00	75	74	26.4 - 120

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379802

QC Batch: 117308 | Date Analyzed: 2014-11-19 | Analyzed By: AK
Prep Batch: 99183 | QC Preparation: 2014-11-18 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		5	0.0889	mg/L	1	0.100	<0.000299	89	70 - 130
Toluene		5	0.0926	mg/L	1	0.100	<0.000247	93	70 - 130
Ethylbenzene		5	0.0932	mg/L	1	0.100	<0.000423	93	70 - 130
Xylene		5	0.281	mg/L	1	0.300	<0.000552	94	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		5	0.0920	mg/L	1	0.100	<0.000299	92	70 - 130	3	20
Toluene		5	0.0941	mg/L	1	0.100	<0.000247	94	70 - 130	2	20
Ethylbenzene		5	0.0945	mg/L	1	0.100	<0.000423	94	70 - 130	1	20
Xylene		5	0.285	mg/L	1	0.300	<0.000552	95	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0795	0.0779	mg/L	1	0.1	80	78	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0949	0.0882	mg/L	1	0.1	95	88	70 - 130

Matrix Spike (MS-1) Spiked Sample: 379800

QC Batch: 117344 | Date Analyzed: 2014-11-20 | Analyzed By: AK
Prep Batch: 99220 | QC Preparation: 2014-11-20 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		5	0.102	mg/L	1	0.100	0.0053	97	70 - 130
Toluene		5	0.0999	mg/L	1	0.100	<0.000247	100	70 - 130
Ethylbenzene		5	0.100	mg/L	1	0.100	<0.000423	100	70 - 130
Xylene		5	0.304	mg/L	1	0.300	<0.000552	101	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		5	0.101	mg/L	1	0.100	0.0053	96	70 - 130	1	20
Toluene		5	0.100	mg/L	1	0.100	<0.000247	100	70 - 130	0	20
Ethylbenzene		5	0.103	mg/L	1	0.100	<0.000423	103	70 - 130	3	20
Xylene		5	0.310	mg/L	1	0.300	<0.000552	103	70 - 130	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0855	0.0919	mg/L	1	0.1	86	92	70 - 130
4-Bromofluorobenzene (4-BFB)	0.116	0.111	mg/L	1	0.1	116	111	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 117308 | Date Analyzed: 2014-11-19 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		5	mg/L	0.100	0.0917	92	80 - 120	2014-11-19
Toluene		5	mg/L	0.100	0.0906	91	80 - 120	2014-11-19
Ethylbenzene		5	mg/L	0.100	0.0901	90	80 - 120	2014-11-19
Xylene		5	mg/L	0.300	0.272	91	80 - 120	2014-11-19

Standard (CCV-2)

QC Batch: 117308 | Date Analyzed: 2014-11-19 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		5	mg/L	0.100	0.0888	89	80 - 120	2014-11-19
Toluene		5	mg/L	0.100	0.0890	89	80 - 120	2014-11-19
Ethylbenzene		5	mg/L	0.100	0.0896	90	80 - 120	2014-11-19
Xylene		5	mg/L	0.300	0.269	90	80 - 120	2014-11-19

Standard (CCV-1)

QC Batch: 117344 | Date Analyzed: 2014-11-20 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		5	mg/L	0.100	0.0994	99	80 - 120	2014-11-20
Toluene		5	mg/L	0.100	0.100	100	80 - 120	2014-11-20
Ethylbenzene		5	mg/L	0.100	0.100	100	80 - 120	2014-11-20
Xylene		5	mg/L	0.300	0.308	103	80 - 120	2014-11-20

Standard (CCV-2)

QC Batch: 117344 | Date Analyzed: 2014-11-20 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		5	mg/L	0.100	0.0993	99	80 - 120	2014-11-20
Toluene		5	mg/L	0.100	0.0970	97	80 - 120	2014-11-20
Ethylbenzene		5	mg/L	0.100	0.0989	99	80 - 120	2014-11-20
Xylene		5	mg/L	0.300	0.298	99	80 - 120	2014-11-20

Standard (CCV-2)

QC Batch: 117952 | Date Analyzed: 2014-12-12 | Analyzed By: MN

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		1,2,3,4,6	mg/L	60.0	60.2	100	80 - 120	2014-12-12
2-Methylnaphthalene		1,2,3,4,6	mg/L	60.0	53.8	90	80 - 120	2014-12-12
1-Methylnaphthalene		1	mg/L	60.0	53.6	89	80 - 120	2014-12-12
Acenaphthylene		1,2,3,4,6	mg/L	60.0	57.4	96	80 - 120	2014-12-12
Acenaphthene		1,2,3,4,6	mg/L	60.0	61.3	102	80 - 120	2014-12-12
Dibenzofuran		1,2,3,4,6	mg/L	60.0	60.0	100	80 - 120	2014-12-12
Fluorene		1,2,3,4,6	mg/L	60.0	59.2	99	80 - 120	2014-12-12
Anthracene	Qc	Qc	mg/L	60.0	123	205	80 - 120	2014-12-12
Phenanthrene		1,2,3,4,6	mg/L	60.0	62.1	104	80 - 120	2014-12-12
Fluoranthene		1,2,3,4,6	mg/L	60.0	70.8	118	80 - 120	2014-12-12
Pyrene		1,2,3,4,6	mg/L	60.0	53.3	89	80 - 120	2014-12-12
Benzo(a)anthracene		1,2,3,4,6	mg/L	60.0	56.6	94	80 - 120	2014-12-12
Chrysene		1,2,3,4,6	mg/L	60.0	55.7	93	80 - 120	2014-12-12
Benzo(b)fluoranthene		1,2,3,4,6	mg/L	60.0	62.9	105	80 - 120	2014-12-12
Benzo(k)fluoranthene		1,2,3,4,6	mg/L	60.0	56.8	95	80 - 120	2014-12-12
Benzo(a)pyrene		1,2,3,4,6	mg/L	60.0	54.3	90	80 - 120	2014-12-12
Indeno(1,2,3-cd)pyrene		1,2,3,4,6	mg/L	60.0	63.6	106	80 - 120	2014-12-12
Dibenzo(a,h)anthracene		1,2,3,4,6	mg/L	60.0	65.3	109	80 - 120	2014-12-12
Benzo(g,h,i)perylene		1,2,3,4,6	mg/L	60.0	54.6	91	80 - 120	2014-12-12

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			54.9	mg/L	1	60.0	92	-
2-Fluorobiphenyl			57.4	mg/L	1	60.0	96	-
Terphenyl-d14			57.4	mg/L	1	60.0	96	-

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	PJLA	L14-93	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-14-10	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.

F	Description
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Result Comments

1 Surrogate low due to matrix effect; confirmed by re-analysis.
2 Surrogate low due to matrix effect; confirmed by re-analysis.
3 Surrogate low due to matrix effect; confirmed by re-analysis.
4 Surrogate low due to matrix effect; confirmed by re-analysis.

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

LAB Order ID # 141170

Page _____ of _____

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name: Nova — **Phone #:**

Address: (Street, City, Zip) 2057 Commerce Dr Midland Tx — **Fax #:**

Contact Person: Curt Stanley — **E-mail:**

Invoice to: (If different from above) Plains

Project #: TNM 98-05 — **Project Name:** 98-05

Project Location (including state): — **Sampler Signature:** Manuel Herrera

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH (8270) 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC	Turn Around Time if different from standard	Hold
579783	mw 3	3	VOA	X				X				X		11/5/14	1538		X																			
784	mw 5														1543																					
785	mw 7														1551																					
786	mw 9														1606																					
787	mw 11														1620																					
788	mw 6														1637																					
789	mw 8	↓													1651																					
790	mw 12	6													1722					X															
791	mw 1	6												↓	1730					X															

Relinquished by: Manuel Herrera — **Company:** Nova — **Date:** 11/7/14 — **Time:** 0800

Received by: — **Company:** TA — **Date:** 11/7/14 — **Time:** 8:22 — **INST** Live — **OBS** 1.3 °C — **COR** 1.4 °C

Relinquished by: — **Company:** TA — **Date:** 11/17/14 — **Time:** 15:30

Received by: — **Company:** — **Date:** — **Time:** — **INST** ____ — **OBS** ____ °C — **COR** ____ °C

Relinquished by: — **Company:** — **Date:** — **Time:**

Received by: Brenda Ward — **Company:** TA LUBBOCK — **Date:** 11/18/14 — **Time:** 8:30 — **INST** IR 3 — **OBS** 4.4 °C — **COR** 4.3 °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-in-Review DJ

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier # Courier FS ZR859731

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

Release Notification and Corrective Action
NMOCD Form C-141

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 South First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

98-05A

Form C-141
Originated 2/13/97

Submit 2 copies to Appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action
OPERATOR

☒ Initial Report ☐ Final Report

Name	Contact
Texas-New Mexico Pipe Line Company	Edwin H. Gripp
Address	**Telephone No.**
Box 60028	915-947-9000
Facility Name	**Facility Type**
San Angelo, TX 76906	pipe line

Surface Owner	Mineral Owner	Lease No.
Nadine Owen		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	26	21S	37E					Lea

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Sour Crude	38 barrels	4 barrels
Source of Release	**Date and Hour of Occurrence**	**Date and Hour of Discovery**
6" gathering line	Unknown	2/5/98; 10:25 a.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?**	
	Linda Williams (Clerk #4)	
By Whom? Johnny W. Chapman	**Date and Hour** 2/5/98; 3:00 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse.** N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Internal Corrosion
Leak successfully clamped off.

Describe Area Affected and Cleanup Action Taken.*
Approximately 1260 sq.ft. pasture land.
Contaminated soil will be excavated and put on plastic.

Describe General Conditions Prevailing (Temperature, Precipitation, etc.).*
Cloudy; 60 degrees

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
Signature: Edwin H. Gripp
Printed Name: Edwin H. Gripp
Title: District Manager
Date: 2/12/98 Phone: 915-947-9000

OIL CONSERVATION DIVISION
Approved by District Supervisor:
Approval Date: Expiration Date:
Conditions of Approval: Attached ☐

* Attach Additional Sheets If Necessary

State Corp. Commission Hazardous Waste Section