

1R - 123

Annual GW Mon. Report

Year:
2011



2011
ANNUAL MONITORING REPORT

MONUMENT 17
SE ¼ NW ¼ of SECTION 29, TOWNSHIP 19 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
PLAINS SRS NUMBER: TNM MONUMENT-17-KNOWN
NMOCD REFERENCE: 1R-123

Prepared For:

PLAINS MARKETING, L.P.
333 CLAY STREET, SUITE 1600
HOUSTON, TEXAS 77002

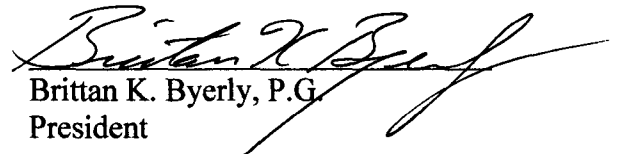


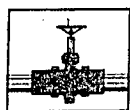
Prepared By:

NOVA Safety and Environmental
2057 Commerce Street
Midland, Texas 79703

March 2012


Ronald K. Rounsaville
Senior Project Manager


Brittan K. Byerly, P.G.
President



PLAINS
ALL AMERICAN

March 22, 2012

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

RECEIVED

MAR 26 2012

H

Re: Plains All American – 2011 Annual Monitoring Reports
15 Sites in Lea County, New Mexico

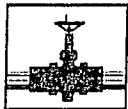
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Dear Mr. Hansen:

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

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

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



PLAINS
ALL AMERICAN

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

Sincerely,

Jason Henry
Remediation Coordinator
Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM

Enclosures

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ENCLOSED ON DATA DISK

2011 Annual Monitoring Report

2011 Tables 1, 2 and 3 – Groundwater Elevation and BTEX Concentration Data

2011 Figures 1, 2A-2D, and 3A-3D

Electronic Copies of Laboratory Reports

Historic Table 1, 2 and 3 – Groundwater Elevation, BTEX and PAH Concentration Tables

INTRODUCTION

On behalf of Plains Marketing, L.P. (Plains), NOVA Safety and Environmental (NOVA) is pleased to submit this Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. Beginning on May 29, 2004, project management responsibilities for the Monument 17 Site (the site) were assumed by NOVA. The site, which was formerly the responsibility of Enron Oil Trading and Transportation (EOTT), is now the responsibility of Plains. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2011 only. Historic data tables as well as 2011 laboratory analytical reports are provided on the enclosed disk. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2011 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbon (PSH). Each groundwater monitoring event consisted of measuring static water levels in monitor wells, checking for the presence of PSH on the water column and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing a thickness of PSH greater than 0.01 foot were not sampled.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The legal description of the site location is SE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 29, Township 19 South, Range 37 East. No information with respect to the release date, volume of crude oil released or recovered, excavation volumes, or pipeline repair is currently available as the release occurred while the pipeline was operated by Texas New Mexico Pipe Line Company (TNM). The Release Notification and Corrective Action Form (C-141) is provided as Appendix B. The initial site investigation, consisting of the installation of eight groundwater monitor wells (MW-1 through MW-8), was performed by previous consultants.

Currently, there are eight groundwater monitor wells (MW-1 through MW-5 and MW-7 through MW-9) on site.

FIELD ACTIVITIES

Product Recovery Efforts

Based on gauging data collected during the 2011 reporting period, no monitor wells exhibited a measurable thickness of PSH during the 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 in NMOCD correspondence dated June 21, 2005:

NMOCD Approved Sampling Schedule					
MW-1	Quarterly	MW-4	Semi-Annual	MW-7	Quarterly
MW-2	Quarterly	MW-5	Annually	MW-8	Annually
MW-3	Quarterly	MW-6	Plugged and Abandoned	MW-9	Quarterly

The site monitor wells were gauged and sampled on the following dates: February 7, May 16, August 8, and November 11, 2011. During each sampling event, sampled monitor wells were purged of a minimum of three well volumes of water or until the wells failed to produce water using a PVC bailer or electric 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 at a licensed disposal facility.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during the four quarterly monitoring events, are depicted on Figures 2A through 2D, the Inferred Groundwater Gradient Map(s). Groundwater elevation data for 2011 is provided as Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.0013 feet/foot to the southeast as measured between groundwater monitor wells MW-5 and MW-9. This is consistent with data presented on Figures 2A through 2C from earlier in the year. The corrected groundwater elevations ranged between 3,587.17 and 3,589.13 feet above mean sea level, in monitor wells MW-9 on November 11, 2011 and MW-5 on February 7, 2011, respectively.

LABORATORY RESULTS

Groundwater samples obtained during the quarterly sampling events of 2011 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 only on monitor well MW-7 during 2011. 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 2011 are summarized in Table 2 and the historic PAH constituent concentrations are summarized in Table 3. Copies of the laboratory reports generated for 2011 are provided on the enclosed data disk. The quarterly groundwater sample results for BTEX constituent concentrations are depicted on Figures 3A through 3D.

Monitor well MW-1 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 1st and 2nd quarters to 0.0145 mg/L during the 3rd quarter of the reporting period. Benzene concentrations were above the NMOCD regulatory standard of 0.01 mg/L during the 3rd quarter of 2011. Toluene concentrations were below laboratory method detection limits (MDL) and NMOCD regulatory standard of 0.75 mg/L during all four quarters of the reporting period. Ethyl-benzene concentrations ranged from <0.001 mg/L during the 1st, 2nd and 4th quarters to 0.0069 mg/L during the 3rd quarter of the

reporting period. Ethyl-benzene concentrations were below the NMOCD regulatory standard of 0.75 mg/L during all four quarters of 2011. Xylene concentrations ranged from <0.001 mg/L during the 2nd, 3rd and 4th quarters to 0.0198 mg/L during the 1st quarter of the reporting period. Xylene concentrations were below the NMOCD regulatory standard of 0.62 mg/L during all four quarters of the reporting period. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-2 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 1st and 2nd quarters to 0.0428 mg/L during the 3rd quarter of the reporting period. Benzene concentrations were above NMOCD regulatory standards during the 3rd and 4th quarters of the reporting period. Toluene and ethyl-benzene concentrations were below the MDL and NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 2nd and 3rd quarters to 0.0191 mg/L during the 1st quarter of the reporting period. Xylene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-3 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0100 mg/L during the 2nd quarter to 0.0175 mg/L during the 1st quarter of the reporting period. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of 2011. Toluene, ethyl-benzene and xylene concentrations were below the MDL and NMOCD regulatory standard during all four quarters of the reporting period. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-4 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each constituent during the 2nd and 4th quarter sampling events. Monitor well MW-4 has exhibited forty-one consecutive monitoring events below NMOCD regulatory limits. PAH analysis was not conducted 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 standard for each constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last thirty-eight consecutive quarters. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-7 is sampled on a quarterly schedule and analytical results indicate benzene, toluene and ethyl-benzene concentrations were below the MDL and NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 2nd, 3rd and 4th quarters to 0.0188 mg/L during the 1st quarter of the reporting period. Monitor well MW-7 has exhibited twenty-four consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-8 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each constituent during the 4th quarter sampling event. Monitor well MW-8 has exhibited twenty-six

consecutive monitoring events below NMOCD regulatory limits. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-9 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each constituent during all four quarters of the reporting period. Monitor well MW-9 has exhibited twenty consecutive monitoring events below NMOCD regulatory limits. PAH analysis was not conducted during the 4th quarter sampling event.

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

SUMMARY

This report presents the results of four groundwater monitoring and sampling events for the annual monitoring period of calendar year 2011. Currently, there are eight groundwater monitor wells (MW-1 through MW-5 and MW-7 through MW-9) on-site. The most recent inferred groundwater gradient indicates a general gradient of approximately 0.0013 feet/foot to the southeast as measured between groundwater monitor wells MW-5 and MW-9. During the reporting period, no measurable thickness of PSH was detected in any of the site monitor wells.

A review of the laboratory analytical results indicates benzene concentrations were above applicable NMOCD regulatory standards in three of the eight monitor wells during at least one quarter of the reporting period. Toluene, ethyl-benzene and xylene concentrations were below NMOCD regulatory standards for all eight monitor wells during the four quarters of the 2011 reporting period. Review of PAH analysis indicates constituent concentrations in monitor well MW-7 were below MDLs during the 2011 annual sampling event and have been below WQCC Standards for the past two consecutive sampling events.

ANTICIPATED ACTIONS

Quarterly monitoring and groundwater sampling will continue in 2012. Plains respectfully requests NMOCD approval to modify the sampling schedule for the following monitor wells:

- Monitor well MW-4 is currently sampled on a semi-annual schedule. Plains proposes to modify the schedule to an annual schedule. This down-gradient monitor well was installed during the 3rd quarter 1999 and the analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last thirty-three consecutive quarters.
- Monitor well MW-7 is currently sampled on a quarterly schedule. Plains proposes to modify the schedule to a semi-annual schedule. This cross-gradient monitor well was installed during the 4th quarter 2002 and the analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-five consecutive quarters.

- Monitor well MW-9 is currently sampled on a quarterly schedule. Plains proposes to modify the schedule to a semi-annual schedule. This down-gradient monitor well was installed during the 4th quarter 2004 and the analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty consecutive quarters.

Groundwater monitoring and quarterly sampling will continue through 2012. An annual groundwater monitoring report will be submitted by April 1, 2013.

Based on the results of the PAH analysis over the past several years, Plains requests that no further PAH analysis be conducted on monitor well MW-7 and that PAH analysis be switched to monitor well MW-2 due to elevated benzene concentration levels.

A Soil Closure Proposal will be submitted to the NMOCD in the future. The proposal will present a strategy to address the remaining soil issues at the site.

LIMITATIONS

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

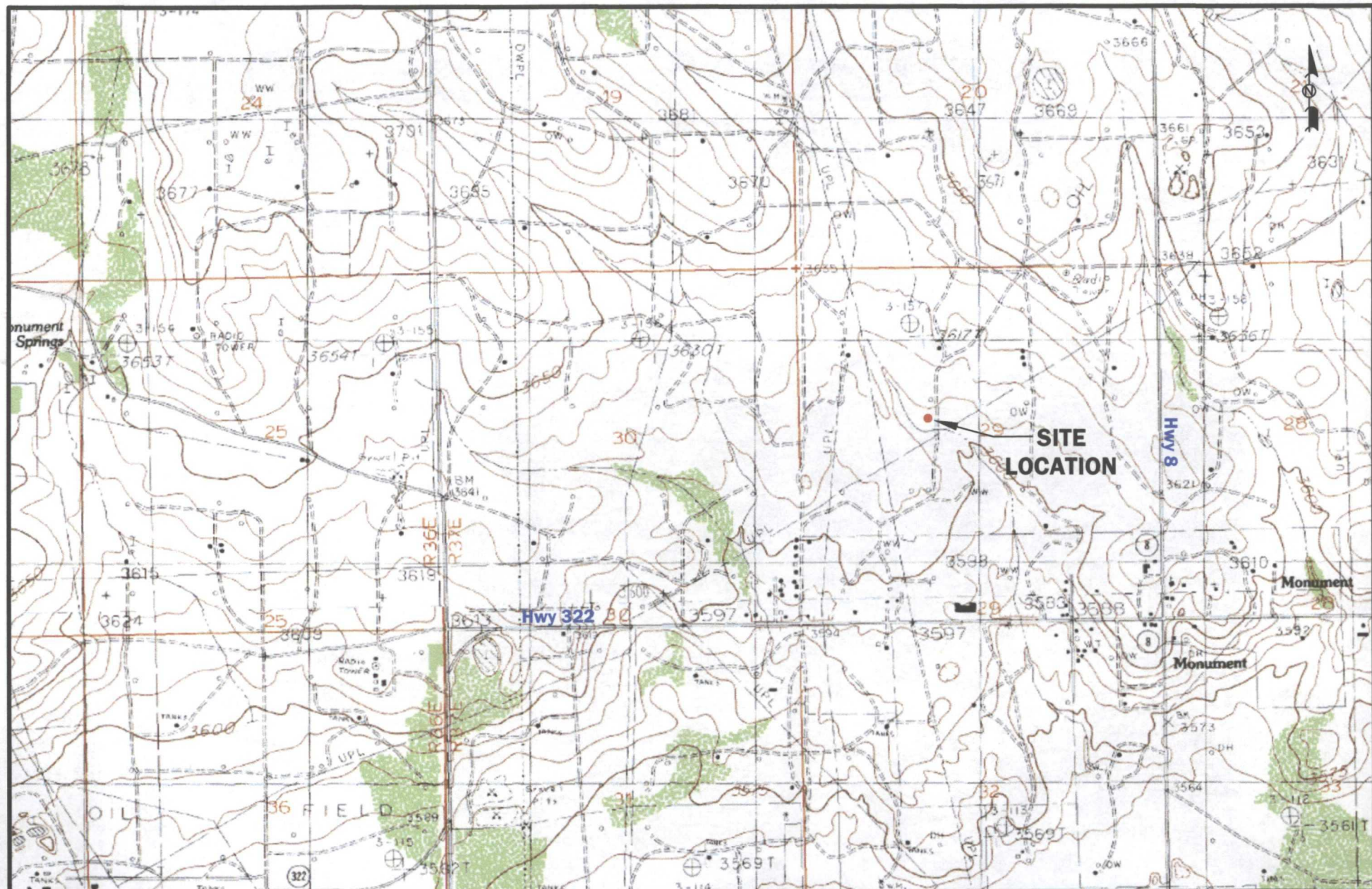
NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that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

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

DISTRIBUTION

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

Figures



LEGEND:



NMOCD Reference #1R-123

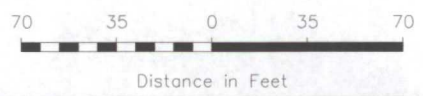
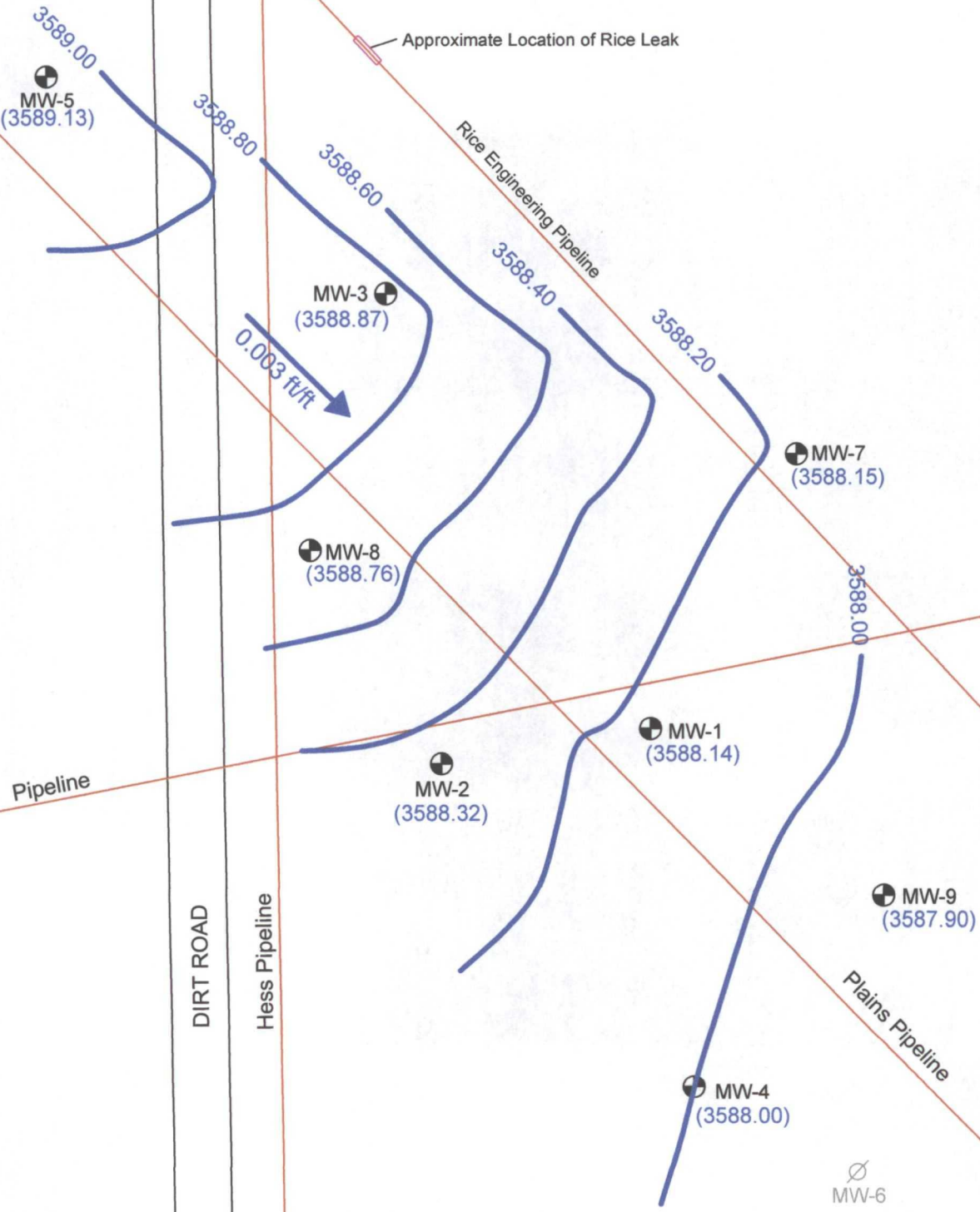
Figure 1
Site Location Map
Monument 17
Plains Marketing, L.P.
Lea County, NM



2057 Commerce Drive
 Midland, Texas 79703
 432.520.7720

www.novasafetyandenvironmental.com

March 3, 2011	Scale: 1" = 2000'	CAD By: TA	Checked By: RKR
LATITUDE & LONGITUDE COORDINATES: N 32° 37' 59.34" W 103° 16' 33.78"			



NOTE:
Contour Interval : 0.20'
Groundwater Gradient Measured
Between MW-5 and MW-9

- LEGEND:
- Monitor Well Location
 - Plugged and Abandoned Well
 - Ground Water Contour Lines
 - Groundwater Elevation
 - Groundwater Gradient and Magnitude

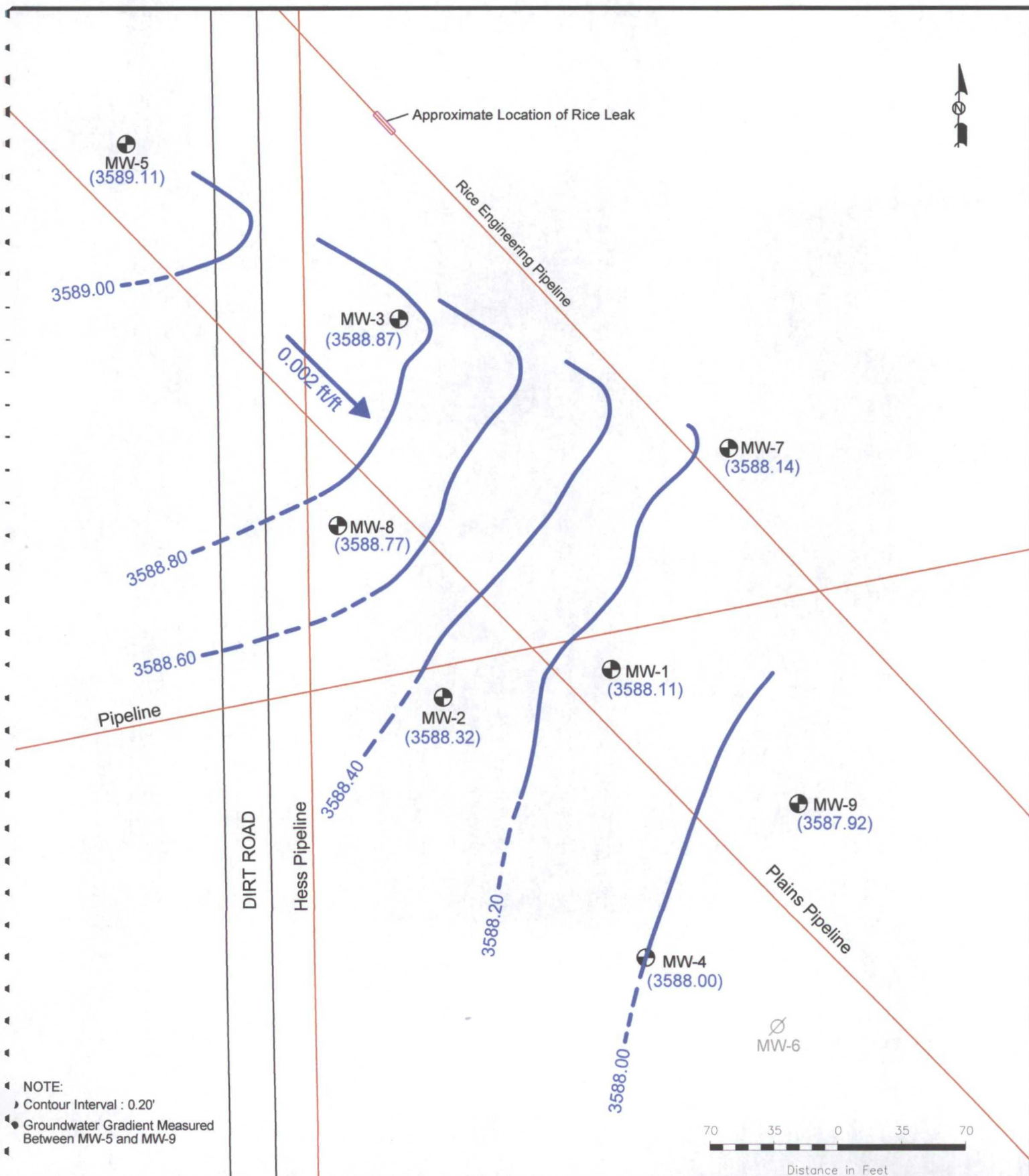
Figure 2A
Inferred Groundwater
Gradient Map
(2/7/11)
NMOCD Reference # IR 0123
Plains Marketing, L.P.
Monument 17
Lea County, NM



2057 Commerce Drive
Midland, Texas 79703
432.520.7720

www.novasafetyandenvironmental.com

April 20, 2011	Scale: 1" = 70'	CAD By: TA	Checked By: RKR
Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6"		SE1/4 NW1/4 Sec 29 T19S R37E	



LEGEND:

0.001 ft/ft

Groundwater Gradient and Magnitude



Monitor Well Location



Plugged and Abandoned Well

Ground Water Contour Lines

(3587.54) Groundwater Elevation

Figure 2B
Inferred Groundwater
Gradient Map
(5/16/2011)
NMOCD Reference # IR 0123
Plains Marketing, L.P.
Monument 17
Lea County, NM



2057 Commerce Drive
Midland, Texas 79703
432.520.7720

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June 7, 2011

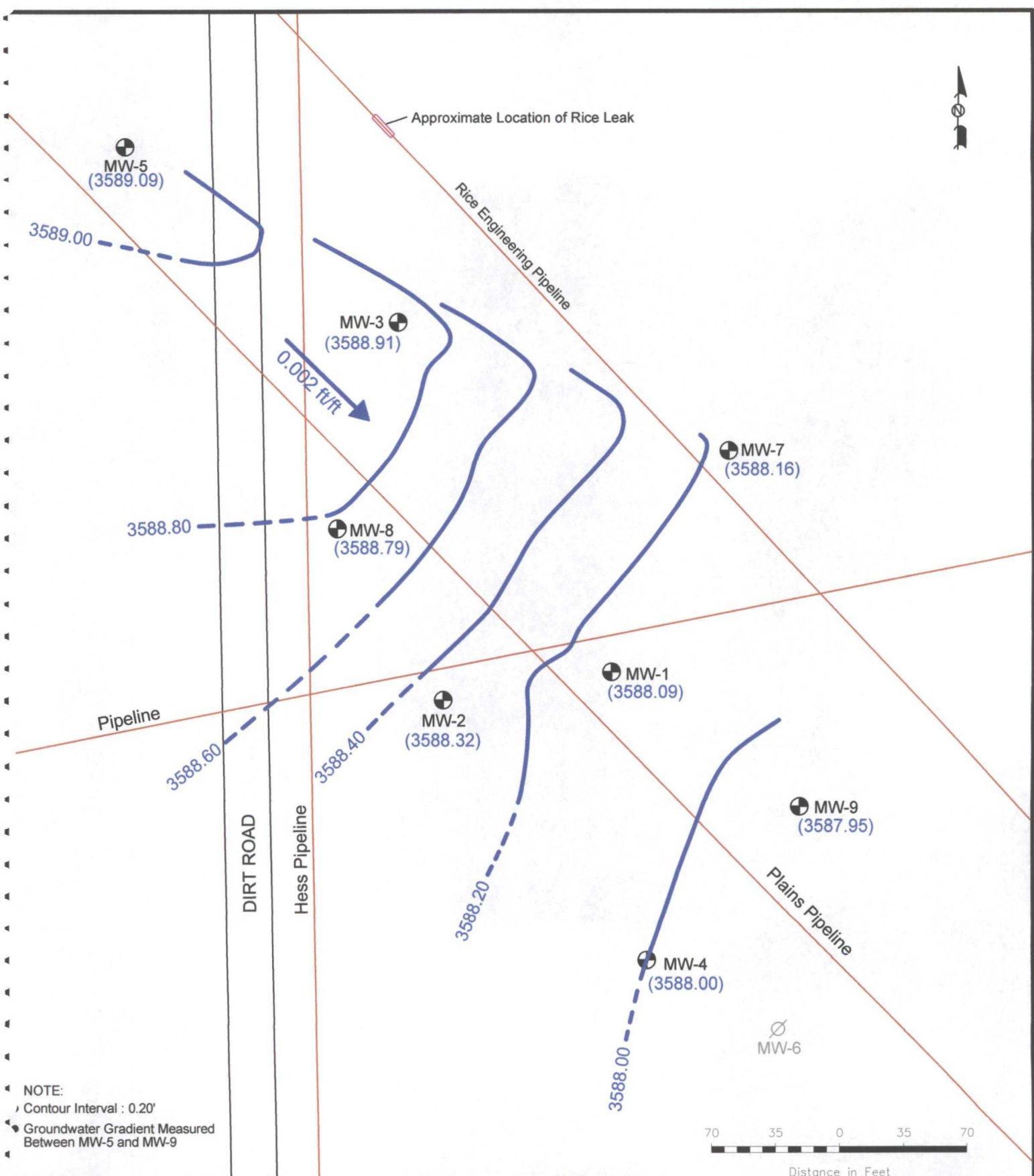
Scale: 1" = 70'

CAD By: TA

Checked By: RKR

Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6"

SE1/4 NW1/4 Sec 29 T19S R37E



NOTE:
Contour Interval : 0.20'
Groundwater Gradient Measured
Between MW-5 and MW-9

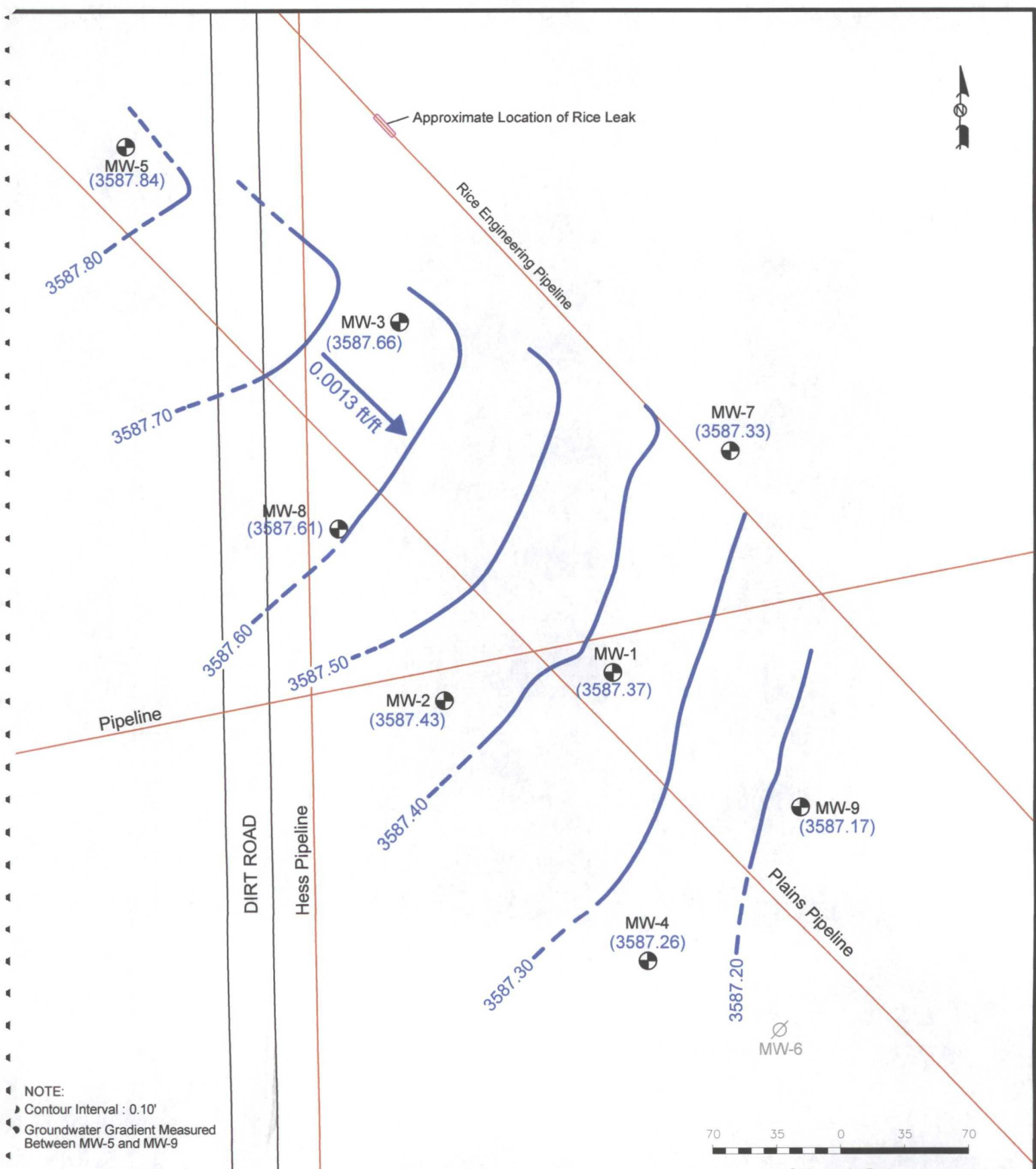
- LEGEND:
- Monitor Well Location
 - Plugged and Abandoned Well
 - Ground Water Contour Lines
 - Groundwater Elevation

Figure 2C
Inferred Groundwater
Gradient Map
(8/8/2011)
NMOCD Reference # IR 0123
Plains Marketing, L.P.
Monument 17
Lea County, NM



2057 Commerce Drive
Midland, Texas 79703
432.520.7720
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September 14, 2011	Scale: 1" = 70'	CAD By: TA	Checked By: RKR
Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6"		SE1/4 NW1/4 Sec 29 T19S R37E	



NOTE:
Contour Interval : 0.10'
Groundwater Gradient Measured
Between MW-5 and MW-9

- LEGEND:
- Monitor Well Location
 - Plugged and Abandoned Well
 - Ground Water Contour Lines
 - Groundwater Elevation
 - Groundwater Gradient and Magnitude

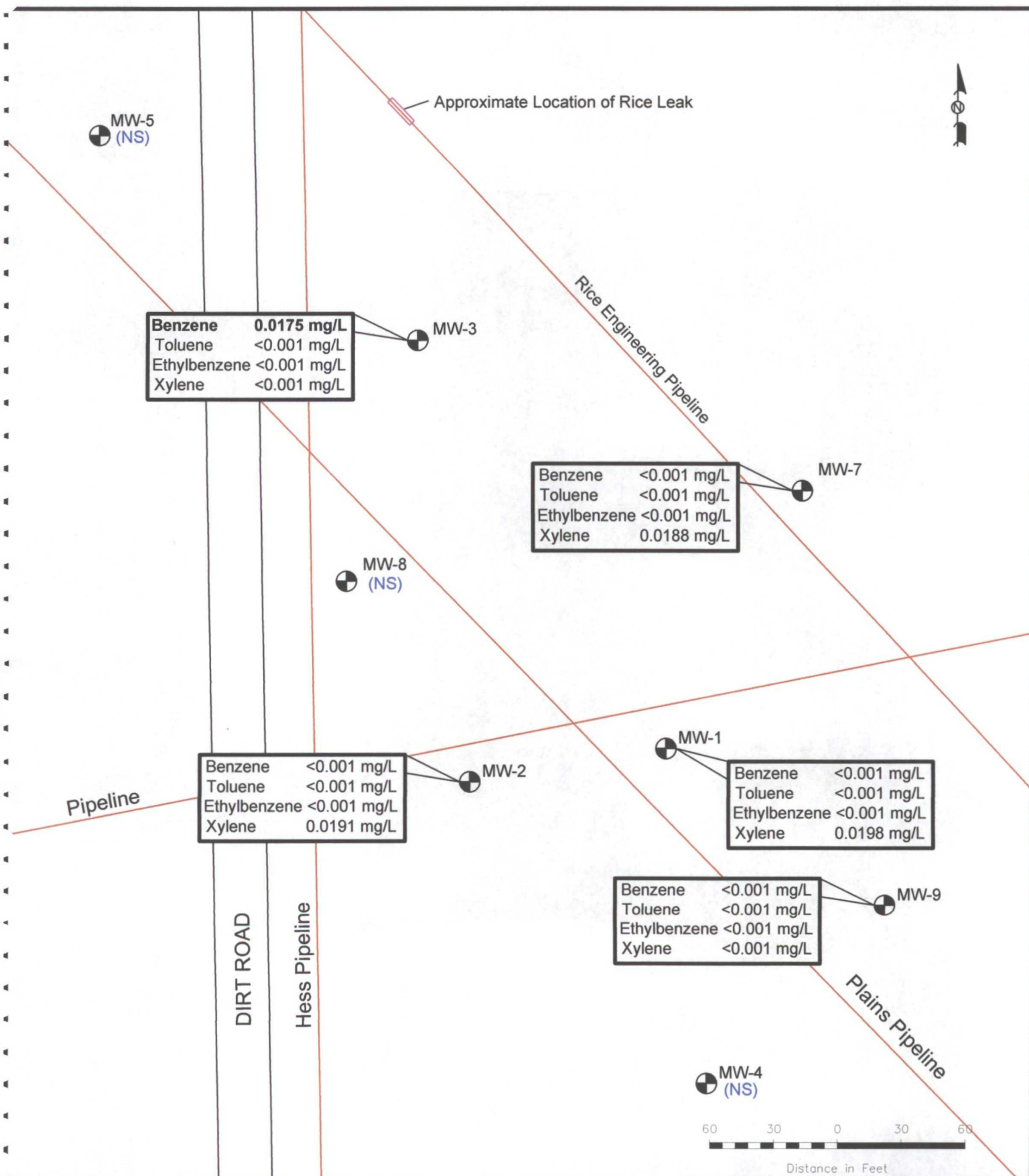
Figure 2D
Inferred Groundwater
Gradient Map
(11/11/2011)
NMOC Reference # IR 0123
Plains Marketing, L.P.
Monument 17
Lea County, NM

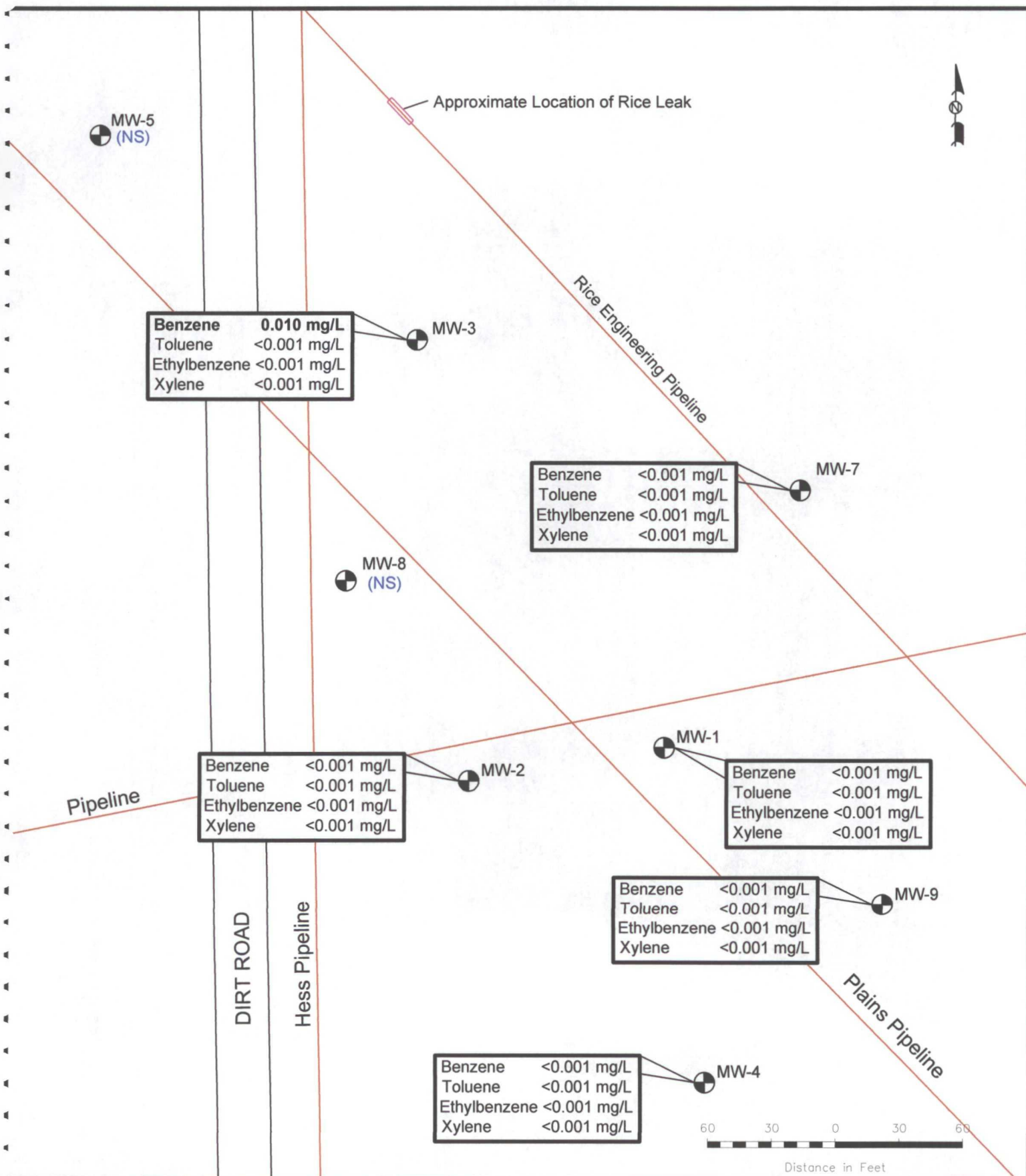


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Midland, Texas 79703
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November 17, 2011	Scale: 1" = 70'	CAD By: TA	Checked By: RKR
Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6"		SE1/4 NW1/4 Sec 29 T19S R37E	





LEGEND:

- Monitor Well Location
- Pipeline
- <0.001 Constituent Concentration (mg/L)
- (NS) Not Sampled

Figure 3B
Groundwater Concentration
and Inferred PSH Extent
Map (5/16/2011)
NMOCD Reference # IR 0123
Plains Marketing, L.P.
Monument 17
Lea County, NM

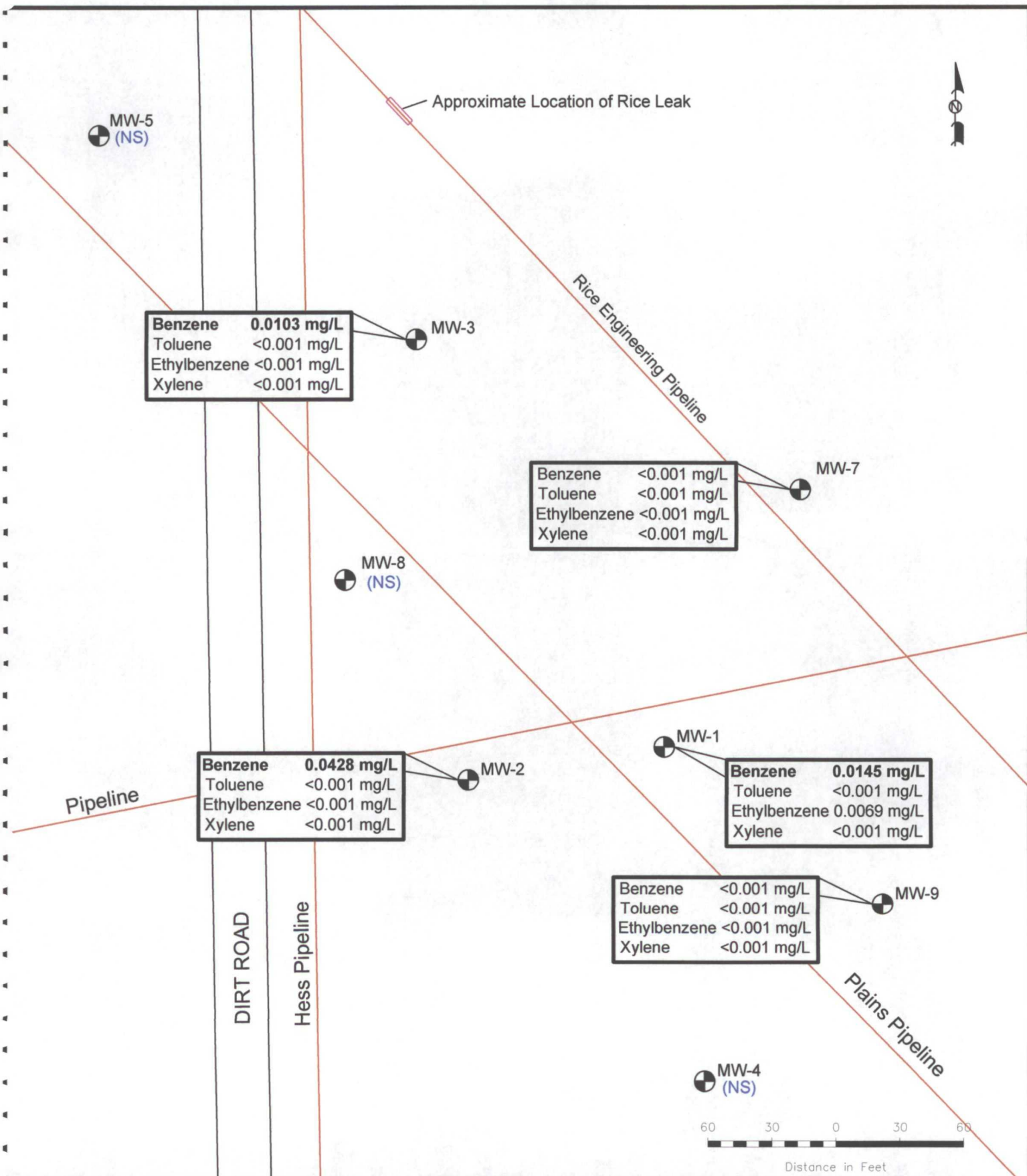


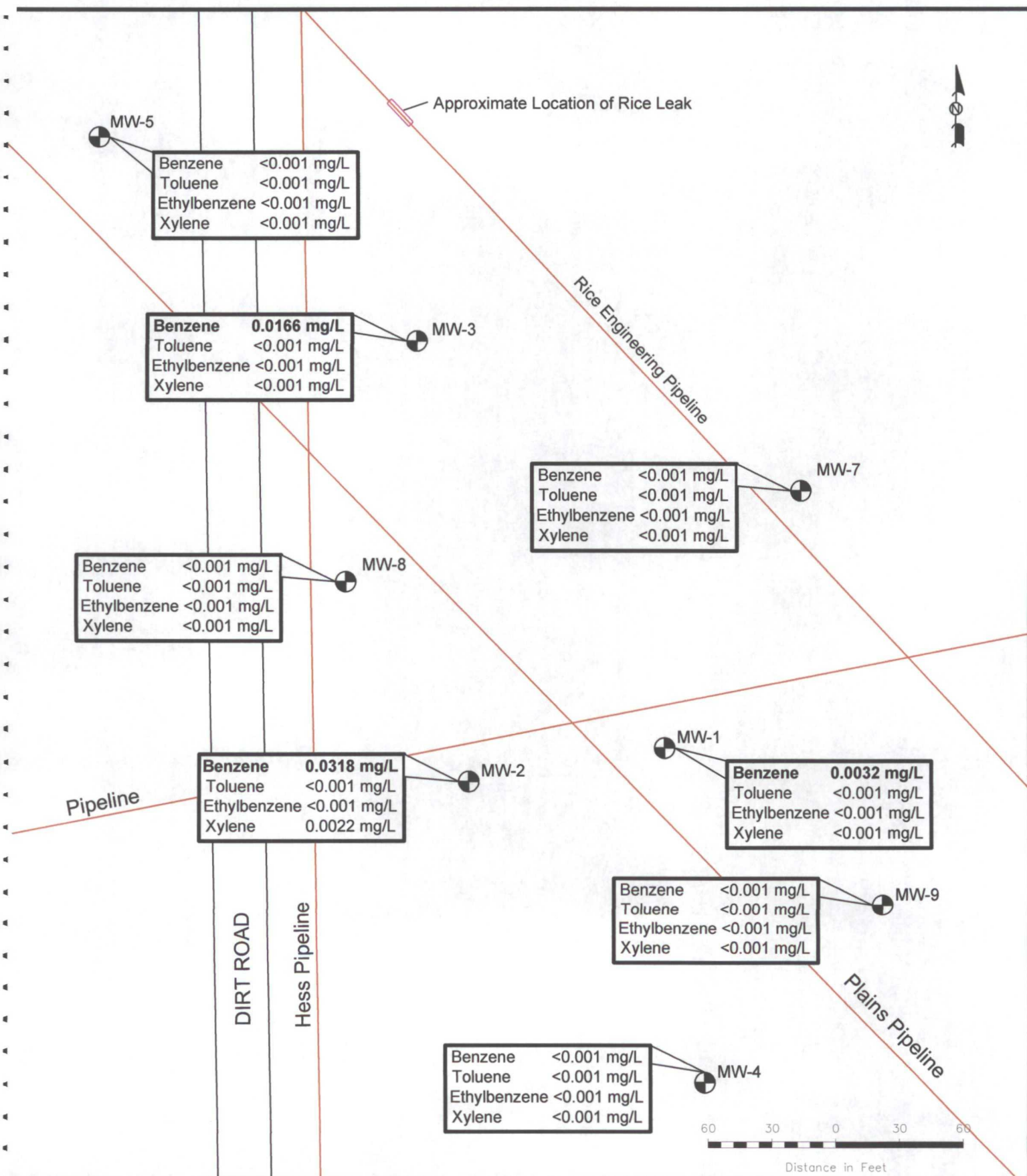
2057 Commerce Drive
Midland, Texas 79703
432.520.7720

www.novasafetyandenvironmental.com

June 8, 2011 Scale: 1" = 60' CAD By: TA Checked By: RKR

Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6" SE1/4 NW1/4 Sec 29 T19S R37E





LEGEND:

- Monitor Well Location
- Pipeline
- <0.001 Constituent Concentration (mg/L)
- (NS) Not Sampled

Figure 3D
Groundwater Concentration
and Inferred PSH Extent
Map (11/11/2011)
NMOCD Reference # IR 0123
Plains Marketing, L.P.
Monument 17
Lea County, NM



2057 Commerce Drive
Midland, Texas 79703
432.520.7720

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November 17, 2011 Scale: 1" = 60' CAD By: TA Checked By: RKR

Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6" SE1/4 NW1/4 Sec 29 T19S R37E

Tables

TABLE 1
GROUNDWATER ELEVATION DATA - 2011

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	02/07/11	3,607.16	-	19.02	0.00	3,588.14
MW - 1	05/16/11	3,607.16	-	19.05	0.00	3,588.11
MW - 1	05/19/11	3,607.16	-	19.65	0.00	3,587.51
MW - 1	05/27/11	3,607.16	-	19.71	0.00	3,587.45
MW - 1	06/10/11	3,607.16	-	19.68	0.00	3,587.48
MW - 1	06/24/11	3,607.16	-	19.65	0.00	3,587.51
MW - 1	07/01/11	3,607.16	-	19.66	0.00	3,587.50
MW - 1	08/08/11	3,607.16	-	19.07	0.00	3,588.09
MW - 1	11/11/11	3,607.16	-	19.79	0.00	3,587.37
MW - 2	02/07/11	3,607.08	-	18.76	0.00	3,588.32
MW - 2	05/16/11	3,607.08	-	18.76	0.00	3,588.32
MW - 2	05/19/11	3,607.08	-	19.48	0.00	3,587.60
MW - 2	05/27/11	3,607.08	-	19.53	0.00	3,587.55
MW - 2	06/10/11	3,607.08	-	19.54	0.00	3,587.54
MW - 2	06/24/11	3,607.08	-	19.55	0.00	3,587.53
MW - 2	07/01/11	3,607.08	-	19.61	0.00	3,587.47
MW - 2	07/12/11	3,607.08	-	19.64	0.00	3,587.44
MW - 2	08/04/11	3,607.08	-	19.71	0.00	3,587.37
MW - 2	08/08/11	3,607.08	-	18.76	0.00	3,588.32
MW - 2	11/11/11	3,607.08	-	19.65	0.00	3,587.43
MW - 3	02/07/11	3,608.43	-	19.56	0.00	3,588.87
MW - 3	05/16/11	3,608.43	-	19.56	0.00	3,588.87
MW - 3	05/19/11	3,608.43	-	20.56	0.00	3,587.87
MW - 3	05/27/11	3,608.43	-	21.65	0.00	3,586.78
MW - 3	06/10/11	3,608.43	-	20.60	0.00	3,587.83
MW - 3	06/24/11	3,608.43	-	20.64	0.00	3,587.79
MW - 3	07/01/11	3,608.43	-	20.70	0.00	3,587.73
MW - 3	07/12/11	3,608.43	-	20.78	0.00	3,587.65
MW - 3	08/04/11	3,608.43	-	20.72	0.00	3,587.71
MW - 3	08/08/11	3,608.43	-	19.52	0.00	3,588.91
MW - 3	11/11/11	3,608.43	-	20.77	0.00	3,587.66
MW - 4	02/07/11	3,606.12	-	18.12	0.00	3,588.00
MW - 4	05/16/11	3,606.12	-	18.12	0.00	3,588.00
MW - 4	08/08/11	3,606.12	-	18.12	0.00	3,588.00
MW - 4	11/11/11	3,606.12	-	18.86	0.00	3,587.26
MW - 5	02/07/11	3,610.17	-	21.04	0.00	3,589.13
MW - 5	05/16/11	3,610.17	-	21.06	0.00	3,589.11
MW - 5	08/08/11	3,610.17	-	21.08	0.00	3,589.09
MW - 5	11/11/11	3,610.17	-	22.33	0.00	3,587.84
MW - 7	02/07/11	3,607.38	-	19.23	0.00	3,588.15
MW - 7	05/16/11	3,607.38	-	19.24	0.00	3,588.14
MW - 7	08/08/11	3,607.38	-	19.22	0.00	3,588.16
MW - 7	11/11/11	3,607.38	-	20.05	0.00	3,587.33
MW - 8	02/07/11	3,607.99	-	19.23	0.00	3,588.76
MW - 8	05/16/11	3,607.99	-	19.22	0.00	3,588.77
MW - 8	08/08/11	3,607.99	-	19.20	0.00	3,588.79
MW - 8	11/11/11	3,607.99	-	20.38	0.00	3,587.61
MW - 9	02/07/11	3,606.83	-	18.93	0.00	3,587.90
MW - 9	05/16/11	3,606.83	-	18.91	0.00	3,587.92
MW - 9	08/08/11	3,606.83	-	18.88	0.00	3,587.95
MW - 9	11/11/11	3,606.83	-	19.66	0.00	3,587.17

* Complete Historical Tables are provided on the attached CD.

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER - 2011

PLAINS MARKETING, L.P.
 MONUMENT 17
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
NMOCD Regulatory Limit		0.0100	0.75	0.75	Total XYLENES	
					0.62	
MW - 1	02/07/11	<0.001	<0.001	<0.001	0.0198	
MW - 1	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 1	08/08/11	0.0145	<0.001	0.0069	<0.001	
MW - 1	11/11/11	0.0032	<0.001	<0.001	<0.001	
MW - 2	02/07/11	<0.001	<0.001	<0.001	0.0191	
MW - 2	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 2	08/08/11	0.0428	<0.001	<0.001	<0.001	
MW - 2	11/11/11	0.0318	<0.001	<0.001	0.0022	
MW - 3	02/07/11	0.0175	<0.001	<0.001	<0.001	
MW - 3	05/16/11	0.0100	<0.001	<0.001	<0.001	
MW - 3	08/08/11	0.0103	<0.001	<0.001	<0.001	
MW - 3	11/11/11	0.0166	<0.001	<0.001	<0.001	
MW - 4	02/07/11	Not Sampled on Current Sample Schedule				
MW - 4	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 4	08/08/11	Not Sampled on Current Sample Schedule				
MW - 4	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/07/11	Not Sampled on Current Sample Schedule				
MW - 5	05/16/11	Not Sampled on Current Sample Schedule				
MW - 5	08/08/11	Not Sampled on Current Sample Schedule				
MW - 5	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/07/11	<0.001	<0.001	<0.001	0.0188	
MW - 7	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/08/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/07/11	Not Sampled on Current Sample Schedule				
MW - 8	05/16/11	Not Sampled on Current Sample Schedule				
MW - 8	08/08/11	Not Sampled on Current Sample Schedule				
MW - 8	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/07/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/08/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/11/11	<0.001	<0.001	<0.001	<0.001	

* Complete Historical Tables are provided on the attached CD.

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-123

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	11/13/08	<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	0.000861	
	11/05/09	<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	
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-2	11/13/08	<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	
	11/05/09	<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	
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/13/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000252	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00159	
	11/05/09	<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	0.000645	
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-4	11/13/08	<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	
	11/05/09	<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	
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/13/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000408	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00117	
	11/05/09	<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	0.000404	
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/13/08	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	0.00262	<0.000926	0.00123	<0.000926	<0.000926	<0.000926	<0.000926	0.0065	
	11/05/09	<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	0.0022	
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
 MONUMENT 17
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-123

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																	
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		—	—	0.001 mg/L	0.0001 mg/L	0.0007 mg/L	0.001 mg/L	—	0.001 mg/L	0.0002 mg/L	0.0003 mg/L	0.001 mg/L	0.001 mg/L	0.0004 mg/L	0.001 mg/L	0.001 mg/L	0.03 mg/L		—
MW-8	11/13/08	<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
	11/05/09	<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
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																	
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																	
MW-9	11/13/08	<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	0.000223
	11/05/09	<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
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																	
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																	

Appendices

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

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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 of Company	Plains Pipeline, LP	Contact:	Camille Reynolds
Address:	3705 E. Hwy 158, Midland, TX 79706	Telephone No.	505-441-0965
Facility Name	Monument # 17	Facility Type:	Pipeline

Surface Owner: New Mexico State Land Office	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter F	Section 29	Township 19S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude 32 degrees 37' 57.7" N **Longitude** 103 degrees 16' 31.6" W

NATURE OF RELEASE

Type of Release:	Volume of Release:	Volume Recovered
Source of Release:	Date and Hour of Occurrence Unknown	Date and Hour of Discovery
Was Immediate Notice Given? Yes ☐ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Describe Area Affected and Cleanup Action Taken.*

NOTE: Texas-New Mexico Pipeline was the owner/operator of the pipeline system at the time of the release, initial response information is unavailable.

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

Signature:		OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds		Approved by District Supervisor:	
Title: Remediation Coordinator	Approval Date:	Expiration Date:	
E-mail Address: cjreynolds@paalp.com	Conditions of Approval:		Attached ☐
Date: 3/21/2005	Phone: (505)441-0965		

* Attach Additional Sheets If Necessary

Laboratory Analytical Reports



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 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRC A WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: February 10, 2011

Work Order: 11020904



Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
256890	MW-1	water	2011-02-07	15:00	2011-02-09
256891	MW-2	water	2011-02-07	17:00	2011-02-09
256892	MW-3	water	2011-02-07	16:00	2011-02-09
256893	MW-7	water	2011-02-07	14:00	2011-02-09
256894	MW-9	water	2011-02-07	13:00	2011-02-09

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.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive, flowing style.

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

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2011-02-09 and assigned to work order 11020904. Samples for work order 11020904 were received intact without headspace and at a temperature of -0.4 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	66485	2011-02-09 at 10:50	77507	2011-02-09 at 10:50

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 11020904 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: 256890 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 77507
Prep Batch: 66485

Analytical Method: S 8021B
Date Analyzed: 2011-02-09
Sample Preparation: 2011-02-09

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.0198	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	75.4 - 119.4
4-Bromofluorobenzene (4-BFB)		0.0902	mg/L	1	0.100	90	78.6 - 122.8

Sample: 256891 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 77507
Prep Batch: 66485

Analytical Method: S 8021B
Date Analyzed: 2011-02-09
Sample Preparation: 2011-02-09

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.0191	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	75.4 - 119.4
4-Bromofluorobenzene (4-BFB)	¹	0.0728	mg/L	1	0.100	73	78.6 - 122.8

Sample: 256892 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 77507
Prep Batch: 66485

Analytical Method: S 8021B
Date Analyzed: 2011-02-09
Sample Preparation: 2011-02-09

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

¹Surrogate out due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0175	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0976	mg/L	1	0.100	98	75.4 - 119.4
4-Bromofluorobenzene (4-BFB)	2	0.0652	mg/L	1	0.100	65	78.6 - 122.8

Sample: 256893 - MW-7

Laboratory: Midland
Analysis: BTEX
QC Batch: 77507
Prep Batch: 66485

Analytical Method: S 8021B
Date Analyzed: 2011-02-09
Sample Preparation: 2011-02-09

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.0188	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	75.4 - 119.4
4-Bromofluorobenzene (4-BFB)	3	0.0649	mg/L	1	0.100	65	78.6 - 122.8

Sample: 256894 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 77507
Prep Batch: 66485

Analytical Method: S 8021B
Date Analyzed: 2011-02-09
Sample Preparation: 2011-02-09

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

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

²Surrogate out due to peak interference.

³Surrogate out due to peak interference.

Report Date: February 10, 2011
TNM Monument #17

Work Order: 11020904
Monument #17

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New Mexico

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	75.4 - 119.4
4-Bromofluorobenzene (4-BFB)	4	0.0689	mg/L	1	0.100	69	78.6 - 122.8

Method Blank (1) QC Batch: 77507

QC Batch: 77507
Prep Batch: 66485

Date Analyzed: 2011-02-09
QC Preparation: 2011-02-09

Analyzed By: ME
Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000400	mg/L	0.001
Toluene		<0.000300	mg/L	0.001
Ethylbenzene		<0.000300	mg/L	0.001
Xylene		<0.000333	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0978	mg/L	1	0.100	98	70.8 - 117.4
4-Bromofluorobenzene (4-BFB)		0.0921	mg/L	1	0.100	92	79 - 113.4

Laboratory Control Spike (LCS-1)

QC Batch: 77507
Prep Batch: 66485

Date Analyzed: 2011-02-09
QC Preparation: 2011-02-09

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.104	mg/L	1	0.100	<0.000400	104	76.8 - 110.3
Toluene	0.104	mg/L	1	0.100	<0.000300	104	81 - 108.2
Ethylbenzene	0.103	mg/L	1	0.100	<0.000300	103	78.8 - 111
Xylene	0.309	mg/L	1	0.300	<0.000333	103	80.3 - 111.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.103	mg/L	1	0.100	<0.000400	103	76.8 - 110.3	1	20
Toluene	0.104	mg/L	1	0.100	<0.000300	104	81 - 108.2	0	20
Ethylbenzene	0.104	mg/L	1	0.100	<0.000300	104	78.8 - 111	1	20
Xylene	0.310	mg/L	1	0.300	<0.000333	103	80.3 - 111.4	0	20

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

⁴Surrogate out due to peak interference.

Report Date: February 10, 2011
TNM Monument #17

Work Order: 11020904
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New Mexico

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.108	0.101	mg/L	1	0.100	108	101	66.6 - 114.5
4-Bromofluorobenzene (4-BFB)	0.104	0.0964	mg/L	1	0.100	104	96	77.1 - 114.4

Standard (CCV-1)

QC Batch: 77507

Date Analyzed: 2011-02-09

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.111	111	80 - 120	2011-02-09
Toluene		mg/L	0.100	0.118	118	80 - 120	2011-02-09
Ethylbenzene		mg/L	0.100	0.103	103	80 - 120	2011-02-09
Xylene		mg/L	0.300	0.322	107	80 - 120	2011-02-09

Standard (CCV-2)

QC Batch: 77507

Date Analyzed: 2011-02-09

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0958	96	80 - 120	2011-02-09
Toluene		mg/L	0.100	0.0942	94	80 - 120	2011-02-09
Ethylbenzene		mg/L	0.100	0.0934	93	80 - 120	2011-02-09
Xylene		mg/L	0.300	0.270	90	80 - 120	2011-02-09

LAB Order ID # 11020904

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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2501 Mayes Rd., Ste 100
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Company Name:

Address: (Street, City, Zip)

Midland TX 79703

Fax #:

Contact Person:

Don E.

E-mail:

432-520-7720
432-520-7721

Invoice to:

(If different from above)

Project #:

1104-Midland #17

Project Name:

Midland #17

Project Location (including state):

New Mexico

Sampler Signature:

B. J. [Signature]

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, FI, SO4, NO3, NO2, Alkalinity		☐
Na, Ca, Mg, K, TDS, EC		☐
Turn Around Time if different from standard		☐
Hold		☐

FIELD CODE

LAB USE ONLY	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
			WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
8910	3	1	X									2-7	15:00
891	1	1										17:00	
892	1	1										16:00	
893	1	1										14:00	
894	1	1										13:00	

LAB USE ONLY	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR	LAB USE ONLY	REMARKS:
	<u>Midland</u>	<u>2-8-11</u>	<u>8:00</u>	<u>Midland</u>	<u>Trace</u>	<u>2-9-11</u>	<u>8:00</u>	<u>INST</u>	<u>OBS</u>	<u>COR</u>		<u>* All dusts - Midland</u>
	<u>Midland</u>	<u>2-8-11</u>	<u>8:00</u>	<u>Midland</u>	<u>Trace</u>	<u>2-9-11</u>	<u>8:00</u>	<u>INST</u>	<u>OBS</u>	<u>COR</u>		
	<u>Midland</u>	<u>2-8-11</u>	<u>8:00</u>	<u>Midland</u>	<u>Trace</u>	<u>2-9-11</u>	<u>8:00</u>	<u>INST</u>	<u>OBS</u>	<u>COR</u>		
	<u>Midland</u>	<u>2-8-11</u>	<u>8:00</u>	<u>Midland</u>	<u>Trace</u>	<u>2-9-11</u>	<u>8:00</u>	<u>INST</u>	<u>OBS</u>	<u>COR</u>		

Relinquished by:

Company:

Date:

Time:

Received by:

Company:

Date:

Time:

INST

OBS

COR

LAB USE ONLY

REMARKS:

* All dusts - Midland

Relinquished by:

Company:

Date:

Time:

Received by:

Company:

Date:

Time:

INST

OBS

COR

LAB USE ONLY

REMARKS:

* All dusts - Midland

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

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Carrier #

11020904



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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: May 19, 2011

Work Order: 11051701

Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
266652	MW-4	water	2011-05-16	11:30	2011-05-17
266653	MW-9	water	2011-05-16	12:00	2011-05-17
266654	MW-7	water	2011-05-16	12:30	2011-05-17
266655	MW-1	water	2011-05-16	13:00	2011-05-17
266656	MW-2	water	2011-05-16	13:30	2011-05-17
266657	MW-3	water	2011-05-16	14:00	2011-05-17

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.

This report consists of a total of 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive, flowing style.

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

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project TNM Monument #17 were received by TraceAnalysis, Inc. on 2011-05-17 and assigned to work order 11051701. Samples for work order 11051701 were received intact without headspace and at a temperature of 2.3 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	69070	2011-05-18 at 13:00	81380	2011-05-18 at 14:48

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 11051701 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.

Report Date: May 19, 2011
Monument #17

Work Order: 11051701
TNM Monument #17

Page Number: 4 of 8
Monument, Lea Co., NM

Analytical Report

Sample: 266652 - MW-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 81380
Prep Batch: 69070

Analytical Method: S 8021B
Date Analyzed: 2011-05-18
Sample Preparation: 2011-05-18

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0857	mg/L	1	0.100	86	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	51.1 - 128

Sample: 266653 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 81380
Prep Batch: 69070

Analytical Method: S 8021B
Date Analyzed: 2011-05-18
Sample Preparation: 2011-05-18

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0874	mg/L	1	0.100	87	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	51.1 - 128

Sample: 266654 - MW-7

Laboratory: Midland
Analysis: BTEX
QC Batch: 81380
Prep Batch: 69070

Analytical Method: S 8021B
Date Analyzed: 2011-05-18
Sample Preparation: 2011-05-18

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Report Date: May 19, 2011
Monument #17

Work Order: 11051701
TNM Monument #17

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Monument, Lea Co., NM

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0879	mg/L	1	0.100	88	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	51.1 - 128

Sample: 266655 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 81380
Prep Batch: 69070

Analytical Method: S 8021B
Date Analyzed: 2011-05-18
Sample Preparation: 2011-05-18

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0861	mg/L	1	0.100	86	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.0985	mg/L	1	0.100	98	51.1 - 128

Sample: 266656 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 81380
Prep Batch: 69070

Analytical Method: S 8021B
Date Analyzed: 2011-05-18
Sample Preparation: 2011-05-18

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

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

Report Date: May 19, 2011
Monument #17

Work Order: 11051701
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Monument, Lea Co., NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0861	mg/L	1	0.100	86	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.0987	mg/L	1	0.100	99	51.1 - 128

Sample: 266657 - MW-3

Laboratory: Midland

Analysis: BTEX

QC Batch: 81380

Prep Batch: 69070

Analytical Method: S 8021B

Date Analyzed: 2011-05-18

Sample Preparation: 2011-05-18

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0852	mg/L	1	0.100	85	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.0986	mg/L	1	0.100	99	51.1 - 128

Method Blank (1) QC Batch: 81380

QC Batch: 81380

Prep Batch: 69070

Date Analyzed: 2011-05-18

QC Preparation: 2011-05-18

Analyzed By: ME

Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000400	mg/L	0.001
Toluene		<0.000300	mg/L	0.001
Ethylbenzene		<0.000300	mg/L	0.001
Xylene		<0.000333	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0909	mg/L	1	0.100	91	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	47.3 - 116

Report Date: May 19, 2011
Monument #17

Work Order: 11051701
TNM Monument #17

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Monument, Lea Co., NM

Laboratory Control Spike (LCS-1)

QC Batch: 81380
Prep Batch: 69070

Date Analyzed: 2011-05-18
QC Preparation: 2011-05-18

Analyzed By: ME
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0974	mg/L	1	0.100	<0.000400	97	76.8 - 110
Toluene	0.109	mg/L	1	0.100	<0.000300	109	81 - 118
Ethylbenzene	0.0955	mg/L	1	0.100	<0.000300	96	78.8 - 118
Xylene	0.284	mg/L	1	0.300	<0.000333	95	80.3 - 119

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.103	mg/L	1	0.100	<0.000400	103	76.8 - 110	6	20
Toluene	0.115	mg/L	1	0.100	<0.000300	115	81 - 118	5	20
Ethylbenzene	0.100	mg/L	1	0.100	<0.000300	100	78.8 - 118	5	20
Xylene	0.299	mg/L	1	0.300	<0.000333	100	80.3 - 119	5	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)	0.0856	0.0878	mg/L	1	0.100	86	88	66.6 - 114
4-Bromofluorobenzene (4-BFB)	0.101	0.100	mg/L	1	0.100	101	100	68.2 - 124

Matrix Spike (MS-1) Spiked Sample: 266403

QC Batch: 81380
Prep Batch: 69070

Date Analyzed: 2011-05-18
QC Preparation: 2011-05-18

Analyzed By: ME
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	4.87	mg/L	20	2.00	3.1334	87	77.9 - 114
Toluene	2.16	mg/L	20	2.00	<0.00600	108	78.3 - 111
Ethylbenzene	2.03	mg/L	20	2.00	0.2547	89	75.3 - 110
Xylene	5.59	mg/L	20	6.00	<0.00666	93	75.7 - 109

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	4.88	mg/L	20	2.00	3.1334	87	77.9 - 114	0	20
Toluene	2.12	mg/L	20	2.00	<0.00600	106	78.3 - 111	2	20
Ethylbenzene	1.99	mg/L	20	2.00	0.2547	87	75.3 - 110	2	20
Xylene	5.52	mg/L	20	6.00	<0.00666	92	75.7 - 109	1	20

Report Date: May 19, 2011
Monument #17

Work Order: 11051701
TNM Monument #17

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Monument, Lea Co., NM

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)	1.53	1.49	mg/L	20	2	76	74	68.3 - 107
4-Bromofluorobenzene (4-BFB)	2.09	2.02	mg/L	20	2	104	101	60.1 - 135

Standard (CCV-1)

QC Batch: 81380

Date Analyzed: 2011-05-18

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0951	95	80 - 120	2011-05-18
Toluene		mg/L	0.100	0.109	109	80 - 120	2011-05-18
Ethylbenzene		mg/L	0.100	0.0917	92	80 - 120	2011-05-18
Xylene		mg/L	0.300	0.274	91	80 - 120	2011-05-18

Standard (CCV-2)

QC Batch: 81380

Date Analyzed: 2011-05-18

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0985	98	80 - 120	2011-05-18
Toluene		mg/L	0.100	0.111	111	80 - 120	2011-05-18
Ethylbenzene		mg/L	0.100	0.0953	95	80 - 120	2011-05-18
Xylene		mg/L	0.300	0.284	95	80 - 120	2011-05-18

TraceAnalysis, Inc.

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Fax (432) 689-6313200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name:	<u>NOVA</u>	Phone #:	<u>432-520-7720</u>
Address:	(Street, City, Zip) <u>2057 Commerce Midland TX</u>	Fax #:	<u>432-520-7706</u>
Contact Person:	<u>Ron R.</u>	E-mail:	
Invoice to:	(If different from above)		
Project #:	<u>TN4-Monument #17</u>	Project Name:	<u>Monument #17</u>
Project Location (including state):	<u>New Mexico</u>	Sampler Signature:	<u>R. J. I.</u>

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING		MTBE 8021 / 602 / 8260 / 624	STEX 8023 / 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, S, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC	Turn Around Time if different from standard	Hold
				WATER	SOIL	AIR	SLUDGE	HCl	HNO3	H2SO4	NaOH	ICE	NONE	DATE	TIME																					
60652	mw-4	3	var	X				X				X		5-16	11:30	X																				
6053	mw-9														12:00																					
6054	mw-7														12:30																					
6055	mw-1														13:00																					
6026	mw-2														13:30																					
6057	mw-3														14:00																					

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	LAB USE ONLY	REMARKS:
<u>R. J. I.</u>	<u>NOVA</u>	<u>5-17</u>	<u>8:25</u>	<u>Andy</u>	<u>TA</u>	<u>5/17/11</u>	<u>8:25</u>	OBS <u>2.3</u> COR <u>2.3</u>	Intact ☒ N Headspace ☒ N/A	<u>x all tests - Midland</u>
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST		
								OBS		
								COR		
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST		
								OBS		
								COR		

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

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Carrier # Crain



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200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•688•6301 FAX 432•688•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: August 11, 2011

Work Order: 11080901

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
274084	MW-9	water	2011-08-08	14:00	2011-08-09
274085	MW-7	water	2011-08-08	14:45	2011-08-09
274086	MW-1	water	2011-08-08	15:30	2011-08-09
274087	MW-2	water	2011-08-08	16:15	2011-08-09
274088	MW-3	water	2011-08-08	17:00	2011-08-09

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.

This report consists of a total of 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael Abel

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

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Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2011-08-09 and assigned to work order 11080901. Samples for work order 11080901 were received intact without headspace and at a temperature of 3.1 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	71159	2011-08-10 at 09:08	83787	2011-08-10 at 09:08

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 11080901 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.

Report Date: August 11, 2011
TNM Monument #17

Work Order: 11080901
Monument #17

Page Number: 5 of 12
New Mexico

Analytical Report

Sample: 274084 - MW-9

Laboratory: Midland

Analysis: BTEX

QC Batch: 83787

Prep Batch: 71159

Analytical Method: S 8021B

Date Analyzed: 2011-08-10

Sample Preparation: 2011-08-10

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	Cert	RL Result	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	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.112	mg/L	1	0.100	112	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.106	mg/L	1	0.100	106	67.5 - 140.8

Sample: 274085 - MW-7

Laboratory: Midland

Analysis: BTEX

QC Batch: 83787

Prep Batch: 71159

Analytical Method: S 8021B

Date Analyzed: 2011-08-10

Sample Preparation: 2011-08-10

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	Cert	RL Result	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	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.116	mg/L	1	0.100	116	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.109	mg/L	1	0.100	109	67.5 - 140.8

Report Date: August 11, 2011
TNM Monument #17

Work Order: 11080901
Monument #17

Page Number: 6 of 12
New Mexico

Sample: 274086 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 83787
Prep Batch: 71159

Analytical Method: S 8021B
Date Analyzed: 2011-08-10
Sample Preparation: 2011-08-10

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.0145	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	0.00690	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.110	mg/L	1	0.100	110	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.102	mg/L	1	0.100	102	67.5 - 140.8

Sample: 274087 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 83787
Prep Batch: 71159

Analytical Method: S 8021B
Date Analyzed: 2011-08-10
Sample Preparation: 2011-08-10

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.0428	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	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.101	mg/L	1	0.100	101	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0961	mg/L	1	0.100	96	67.5 - 140.8

Report Date: August 11, 2011
TNM Monument #17

Work Order: 11080901
Monument #17

Page Number: 7 of 12
New Mexico

Sample: 274088 - MW-3

Laboratory: Midland

Analysis: BTEX

QC Batch: 83787

Prep Batch: 71159

Analytical Method: S 8021B

Date Analyzed: 2011-08-10

Sample Preparation: 2011-08-10

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.0103	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	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.113	mg/L	1	0.100	113	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.104	mg/L	1	0.100	104	67.5 - 140.8

Report Date: August 11, 2011
TNM Monument #17

Work Order: 11080901
Monument #17

Page Number: 8 of 12
New Mexico

Method Blanks

Method Blank (1) QC Batch: 83787

QC Batch: 83787
Prep Batch: 71159

Date Analyzed: 2011-08-10
QC Preparation: 2011-08-10

Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000400	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000300	mg/L	0.001
Xylene		1	<0.000333	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.105	mg/L	1	0.100	105	61.1 - 118.4
4-Bromofluorobenzene (4-BFB)			0.0966	mg/L	1	0.100	97	45.9 - 126.4

Report Date: August 11, 2011
TNM Monument #17

Work Order: 11080901
Monument #17

Page Number: 9 of 12
New Mexico

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 83787
Prep Batch: 71159

Date Analyzed: 2011-08-10
QC Preparation: 2011-08-10

Analyzed By: ME
Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0901	mg/L	1	0.100	<0.000400	90	88 - 116.8
Toluene		1	0.100	mg/L	1	0.100	<0.000300	100	90.9 - 122.2
Ethylbenzene		1	0.0983	mg/L	1	0.100	<0.000300	98	72.7 - 120.2
Xylene		1	0.294	mg/L	1	0.300	<0.000333	98	72.1 - 121.5

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0939	mg/L	1	0.100	<0.000400	94	88 - 116.8	4	20
Toluene		1	0.104	mg/L	1	0.100	<0.000300	104	90.9 - 122.2	4	20
Ethylbenzene		1	0.103	mg/L	1	0.100	<0.000300	103	72.7 - 120.2	5	20
Xylene		1	0.309	mg/L	1	0.300	<0.000333	103	72.1 - 121.5	5	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.106	0.112	mg/L	1	0.100	106	112	61.9 - 119.2
4-Bromofluorobenzene (4-BFB)	0.103	0.110	mg/L	1	0.100	103	110	56.4 - 127.9

Matrix Spike (MS-1) Spiked Sample: 274004

QC Batch: 83787
Prep Batch: 71159

Date Analyzed: 2011-08-10
QC Preparation: 2011-08-10

Analyzed By: ME
Prepared By: ME

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	13.8	mg/L	50	5.00	9.4222	88	66.9 - 128.2
Toluene		1	4.84	mg/L	50	5.00	<0.0150	97	81.6 - 122.9
Ethylbenzene		1	6.05	mg/L	50	5.00	1.4675	92	62.7 - 117.9
Xylene		1	14.3	mg/L	50	15.0	0.9728	89	62.9 - 118.2

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

Report Date: August 11, 2011
TNM Monument #17

Work Order: 11080901
Monument #17

Page Number: 10 of 12
New Mexico

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	13.8	mg/L	50	5.00	9.4222	88	66.9 - 128.2	0	20
Toluene		1	4.96	mg/L	50	5.00	<0.0150	99	81.6 - 122.9	2	20
Ethylbenzene		1	6.17	mg/L	50	5.00	1.4675	94	62.7 - 117.9	2	20
Xylene		1	14.8	mg/L	50	15.0	0.9728	92	62.9 - 118.2	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)	5.24	5.23	mg/L	50	5	105	105	58.6 - 119.7
4-Bromofluorobenzene (4-BFB)	5.36	5.35	mg/L	50	5	107	107	52.2 - 135.8

Calibration Standards

Standard (CCV-2)

QC Batch: 83787

Date Analyzed: 2011-08-10

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0967	97	80 - 120	2011-08-10
Toluene		1	mg/L	0.100	0.106	106	80 - 120	2011-08-10
Ethylbenzene		1	mg/L	0.100	0.105	105	80 - 120	2011-08-10
Xylene		1	mg/L	0.300	0.313	104	80 - 120	2011-08-10

Standard (CCV-3)

QC Batch: 83787

Date Analyzed: 2011-08-10

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0964	96	80 - 120	2011-08-10
Toluene		1	mg/L	0.100	0.106	106	80 - 120	2011-08-10
Ethylbenzene		1	mg/L	0.100	0.104	104	80 - 120	2011-08-10
Xylene		1	mg/L	0.300	0.311	104	80 - 120	2011-08-10

Appendix

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	T104704392-10-TX	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 than 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.
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 #

11080901

Page

1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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Fax (915) 585-1944
1 (888) 588-3443BioAqueatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name:

Phone #:

11080901

Address: (Street City, Zip)

Fax #:

3057 Lawrence Midland TX 79705

432-520-7720
432-520-7701

Contact Person:

E-mail:

Ron E.

Invoice to:

(If different from above)

Project #:

Project Name:

Project Location (including state):

Sampler Signature:

New Mexico

TULSA-Monument #17

Mon #17

FIELD CODE

LAB #

ONLY

CONTAINERS

Volume / Amount

WATER

SOIL

AIR

SLUDGE

HCl

HNO₃H₂SO₄

NaOH

ICE

NONE

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, S04, NO3, NO2, Alkalinity

Na, Ca, Mg, K, TDS, EC

Turn Around Time if different from standard

Hold

ANALYSIS REQUEST

(Circle or Specify Method No.)

Company Name:		Address:		Phone #:		Fax #:		E-mail:	
ALPHA		(Street, City, Zip)		432-520-7720		432-520-7720		432-520-7701	
20517 Cammarie Midland TX 79705		Contact Person:		Don E.		Invoice to:		(if different from above)	
Project #:		Project Name:		7414-Monument #17		Project #:		7414-Monument #17	
Project Location (including state):		New Mexico		Sampler Signature:		M. #17			
LAB # (ONLY)		FIELD CODE		# CONTAINERS		Volume / Amount		MATRIX	
084 mu-9		3		max		WATER		PRESERVATIVE METHOD	
085 mu-7						SOIL		SAMPLING	
086 mu-1						AIR		DATE	
087 mu-8						SLUDGE		TIME	
088 mu-3						HCl			
						HNO3			
						H2SO4			
						NaOH			
						ICE			
						NONE			

Relinquished by: Company: Date: Time:

Received by: Company: Date: Time:

INST OBS COR

INST OBS COR

INST OBS COR

LAB USE ONLY

REMARKS:

Relinquished by: Company: Date: Time:

Received by: Company: Date: Time:

INST OBS COR

INST OBS COR

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LAB USE ONLY

REMARKS:

Relinquished by: Company: Date: Time:

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LAB USE ONLY

REMARKS:

Relinquished by: Company: Date: Time:

Received by: Company: Date: Time:

INST OBS COR

INST OBS COR

INST OBS COR

LAB USE ONLY

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.

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Carrier #

1000 tests Midland



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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: November 15, 2011

Work Order: 11111404

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
282278	MW 5	water	2011-11-11	12:30	2011-11-14
282279	MW 8	water	2011-11-11	12:30	2011-11-14
282280	MW 4	water	2011-11-11	12:40	2011-11-14
282281	MW 9	water	2011-11-11	12:35	2011-11-14
282282	MW 7	water	2011-11-11	12:45	2011-11-14
282283	MW 3	water	2011-11-11	12:50	2011-11-14
282284	MW 1	water	2011-11-11	12:55	2011-11-14
282285	MW 2	water	2011-11-11	13:00	2011-11-14

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.

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael Abel

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

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Sample 282280 (MW 4)	5
Sample 282281 (MW 9)	6
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Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2011-11-14 and assigned to work order 11111404. Samples for work order 11111404 were received intact without headspace and at a temperature of 6.0 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	73378	2011-11-14 at 13:50	86423	2011-11-14 at 14:26

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 11111404 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: 282278 - MW 5

Laboratory: Midland

Analysis: BTEX

QC Batch: 86423

Prep Batch: 73378

Analytical Method: S 8021B

Date Analyzed: 2011-11-14

Sample Preparation: 2011-11-14

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0939	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0830	mg/L	1	0.100	83	67.5 - 140.8

Sample: 282279 - MW 8

Laboratory: Midland

Analysis: BTEX

QC Batch: 86423

Prep Batch: 73378

Analytical Method: S 8021B

Date Analyzed: 2011-11-14

Sample Preparation: 2011-11-14

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0933	mg/L	1	0.100	93	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0813	mg/L	1	0.100	81	67.5 - 140.8

Report Date: November 15, 2011
TNM Monument #17

Work Order: 11111404
Monument #17

Page Number: 6 of 13
New Mexico

Sample: 282280 - MW 4

Laboratory: Midland

Analysis: BTEX

QC Batch: 86423

Prep Batch: 73378

Analytical Method: S 8021B

Date Analyzed: 2011-11-14

Sample Preparation: 2011-11-14

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0923	mg/L	1	0.100	92	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0802	mg/L	1	0.100	80	67.5 - 140.8

Sample: 282281 - MW 9

Laboratory: Midland

Analysis: BTEX

QC Batch: 86423

Prep Batch: 73378

Analytical Method: S 8021B

Date Analyzed: 2011-11-14

Sample Preparation: 2011-11-14

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0934	mg/L	1	0.100	93	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0790	mg/L	1	0.100	79	67.5 - 140.8

Report Date: November 15, 2011
TNM Monument #17

Work Order: 11111404
Monument #17

Page Number: 7 of 13
New Mexico

Sample: 282282 - MW 7

Laboratory: Midland

Analysis: BTEX

QC Batch: 86423

Prep Batch: 73378

Analytical Method: S 8021B

Date Analyzed: 2011-11-14

Sample Preparation: 2011-11-14

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0909	mg/L	1	0.100	91	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0843	mg/L	1	0.100	84	67.5 - 140.8

Sample: 282283 - MW 3

Laboratory: Midland

Analysis: BTEX

QC Batch: 86423

Prep Batch: 73378

Analytical Method: S 8021B

Date Analyzed: 2011-11-14

Sample Preparation: 2011-11-14

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	Cert	RL	Units	Dilution	RL	
			Result				
Benzene		1	0.0166	mg/L	1	0.00100	
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0933	mg/L	1	0.100	93	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0809	mg/L	1	0.100	81	67.5 - 140.8

Report Date: November 15, 2011
TNM Monument #17

Work Order: 11111404
Monument #17

Page Number: 8 of 13
New Mexico

Sample: 282284 - MW 1

Laboratory: Midland

Analysis: BTEX

QC Batch: 86423

Prep Batch: 73378

Analytical Method: S 8021B

Date Analyzed: 2011-11-14

Sample Preparation: 2011-11-14

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.00320	mg/L	1	0.00100
Toluene	u	U	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	<0.00100	mg/L	1	0.00100
Xylene	u	U	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0934	mg/L	1	0.100	93	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0804	mg/L	1	0.100	80	67.5 - 140.8

Sample: 282285 - MW 2

Laboratory: Midland

Analysis: BTEX

QC Batch: 86423

Prep Batch: 73378

Analytical Method: S 8021B

Date Analyzed: 2011-11-14

Sample Preparation: 2011-11-14

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.0318	mg/L	1	0.00100
Toluene	u	U	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	<0.00100	mg/L	1	0.00100
Xylene		1	0.00220	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0939	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0777	mg/L	1	0.100	78	67.5 - 140.8

Method Blanks

Method Blank (1) QC Batch: 86423

QC Batch: 86423
Prep Batch: 73378

Date Analyzed: 2011-11-14
QC Preparation: 2011-11-14

Analyzed By: AG
Prepared By: AG

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000400	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000300	mg/L	0.001
Xylene		1	<0.000333	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0930	mg/L	1	0.100	93	61.1 - 118.4
4-Bromofluorobenzene (4-BFB)			0.0815	mg/L	1	0.100	82	45.9 - 126.4

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86423
Prep Batch: 73378

Date Analyzed: 2011-11-14
QC Preparation: 2011-11-14

Analyzed By: AG
Prepared By: AG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0953	mg/L	1	0.100	<0.000400	95	76.8 - 120.3
Toluene		1	0.0912	mg/L	1	0.100	<0.000300	91	80.9 - 122.2
Ethylbenzene		1	0.0886	mg/L	1	0.100	<0.000300	89	72.7 - 120.2
Xylene		1	0.266	mg/L	1	0.300	<0.000333	89	72.1 - 121.5

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0994	mg/L	1	0.100	<0.000400	99	76.8 - 120.3	4	20
Toluene		1	0.0945	mg/L	1	0.100	<0.000300	94	80.9 - 122.2	4	20
Ethylbenzene		1	0.0923	mg/L	1	0.100	<0.000300	92	72.7 - 120.2	4	20
Xylene		1	0.277	mg/L	1	0.300	<0.000333	92	72.1 - 121.5	4	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0921	0.0929	mg/L	1	0.100	92	93	61.9 - 119.2
4-Bromofluorobenzene (4-BFB)	0.0935	0.0940	mg/L	1	0.100	94	94	56.4 - 127.9

Matrix Spike (MS-1) Spiked Sample: 282285

QC Batch: 86423
Prep Batch: 73378

Date Analyzed: 2011-11-14
QC Preparation: 2011-11-14

Analyzed By: AG
Prepared By: AG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.135	mg/L	1	0.100	0.0318	103	66.9 - 128.2
Toluene		1	0.0986	mg/L	1	0.100	<0.000300	99	81.6 - 122.9
Ethylbenzene		1	0.0953	mg/L	1	0.100	<0.000300	95	62.7 - 117.9
Xylene		1	0.284	mg/L	1	0.300	0.0022	94	62.9 - 118.2

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	0.131	mg/L	1	0.100	0.0318	99	66.9 - 128.2	3	20
Toluene		1	0.0989	mg/L	1	0.100	<0.000300	99	81.6 - 122.9	0	20
Ethylbenzene		1	0.0963	mg/L	1	0.100	<0.000300	96	62.7 - 117.9	1	20
Xylene		1	0.287	mg/L	1	0.300	0.0022	95	62.9 - 118.2	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)	0.0973	0.0932	mg/L	1	0.1	97	93	58.6 - 119.7
4-Bromofluorobenzene (4-BFB)	0.0907	0.0908	mg/L	1	0.1	91	91	52.2 - 135.8

Calibration Standards

Standard (CCV-1)

QC Batch: 86423

Date Analyzed: 2011-11-14

Analyzed By: AG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0942	94	80 - 120	2011-11-14
Toluene		1	mg/L	0.100	0.0874	87	80 - 120	2011-11-14
Ethylbenzene		1	mg/L	0.100	0.0832	83	80 - 120	2011-11-14
Xylene		1	mg/L	0.300	0.250	83	80 - 120	2011-11-14

Standard (CCV-2)

QC Batch: 86423

Date Analyzed: 2011-11-14

Analyzed By: AG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0990	99	80 - 120	2011-11-14
Toluene		1	mg/L	0.100	0.0937	94	80 - 120	2011-11-14
Ethylbenzene		1	mg/L	0.100	0.0890	89	80 - 120	2011-11-14
Xylene		1	mg/L	0.300	0.267	89	80 - 120	2011-11-14

Standard (CCV-3)

QC Batch: 86423

Date Analyzed: 2011-11-14

Analyzed By: AG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.101	101	80 - 120	2011-11-14
Toluene		1	mg/L	0.100	0.0944	94	80 - 120	2011-11-14
Ethylbenzene		1	mg/L	0.100	0.0899	90	80 - 120	2011-11-14
Xylene		1	mg/L	0.300	0.269	90	80 - 120	2011-11-14

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	NELAP	T104704392-10-TX	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 than 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.
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.



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: January 5, 2012

Work Order: 11122008

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
284924	MW-7	water	2011-12-16	17:15	2011-12-19

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.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

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

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Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2011-12-19 and assigned to work order 11122008. Samples for work order 11122008 were received intact at a temperature of 10.8 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
PAH	S 8270D	74399	2012-12-22 at 15:00	87624	2012-01-05 at 11:26

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 11122008 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: 284924 - MW-7

Laboratory: Lubbock

Analysis: PAH

QC Batch: 87624

Prep Batch: 74399

Analytical Method: S 8270D

Date Analyzed: 2012-01-05

Sample Preparation: 2012-12-22

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene	u	1	<0.000183	mg/L	0.913	0.000200
2-Methylnaphthalene	u	1	<0.000183	mg/L	0.913	0.000200
1-Methylnaphthalene	u		<0.000183	mg/L	0.913	0.000200
Acenaphthylene	u	1	<0.000183	mg/L	0.913	0.000200
Acenaphthene	u	1	<0.000183	mg/L	0.913	0.000200
Dibenzofuran		1	<0.000183	mg/L	0.913	0.000200
Fluorene	u	1	<0.000183	mg/L	0.913	0.000200
Anthracene	u	1	<0.000183	mg/L	0.913	0.000200
Phenanthrene	u		<0.000183	mg/L	0.913	0.000200
Fluoranthene	u		<0.000183	mg/L	0.913	0.000200
Pyrene	u	1	<0.000183	mg/L	0.913	0.000200
Benzo(a)anthracene	u		<0.000183	mg/L	0.913	0.000200
Chrysene	u	1	<0.000183	mg/L	0.913	0.000200
Benzo(b)fluoranthene	u		<0.000183	mg/L	0.913	0.000200
Benzo(k)fluoranthene	Qr,u	1	<0.000183	mg/L	0.913	0.000200
Benzo(a)pyrene	u	1	<0.000183	mg/L	0.913	0.000200
Indeno(1,2,3-cd)pyrene	u	1	<0.000183	mg/L	0.913	0.000200
Dibenzo(a,h)anthracene	u	1	<0.000183	mg/L	0.913	0.000200
Benzo(g,h,i)perylene	u		<0.000183	mg/L	0.913	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0302	mg/L	0.913	0.0800	38	10 - 117
2-Fluorobiphenyl			0.0306	mg/L	0.913	0.0800	38	10 - 99
Terphenyl-d14			0.0324	mg/L	0.913	0.0800	40	22.6 - 115

Method Blanks

Method Blank (1) QC Batch: 87624

QC Batch: 87624
Prep Batch: 74399

Date Analyzed: 2012-01-05
QC Preparation: 2012-12-22

Analyzed By: MN
Prepared By: MN

Parameter	Flag	Cert	MDL Result	Units	RL
Naphthalene		1	<0.000904	mg/L	0.0002
2-Methylnaphthalene		1	<0.000184	mg/L	0.0002
1-Methylnaphthalene			<0.000120	mg/L	0.0002
Acenaphthylene		1	<0.000101	mg/L	0.0002
Acenaphthene		1	<0.000122	mg/L	0.0002
Dibenzofuran		1	<0.000119	mg/L	0.0002
Fluorene		1	<0.000198	mg/L	0.0002
Anthracene		1	<0.000190	mg/L	0.0002
Phenanthrene			<0.000190	mg/L	0.0002
Fluoranthene			<0.000122	mg/L	0.0002
Pyrene		1	<0.000142	mg/L	0.0002
Benzo(a)anthracene			<0.000138	mg/L	0.0002
Chrysene		1	<0.000155	mg/L	0.0002
Benzo(b)fluoranthene			<0.000179	mg/L	0.0002
Benzo(k)fluoranthene		1	<0.000185	mg/L	0.0002
Benzo(a)pyrene		1	<0.000169	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		1	<0.000139	mg/L	0.0002
Dibenzo(a,h)anthracene		1	<0.000107	mg/L	0.0002
Benzo(g,h,i)perylene			<0.000143	mg/L	0.0002

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0369	mg/L	1	0.0800	46	10 - 117
2-Fluorobiphenyl			0.0323	mg/L	1	0.0800	40	10 - 99
Terphenyl-d14			0.0357	mg/L	1	0.0800	45	22.6 - 115

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 87624
Prep Batch: 74399

Date Analyzed: 2012-01-05
QC Preparation: 2012-12-22

Analyzed By: MN
Prepared By: MN

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene		1	0.0281	mg/L	1	0.0800	<0.0000904	35	10 - 89.9
2-Methylnaphthalene		1	0.0325	mg/L	1	0.0800	<0.000184	41	13.8 - 98.4
1-Methylnaphthalene			0.0312	mg/L	1	0.0800	<0.000120	39	13.1 - 103
Acenaphthylene		1	0.0370	mg/L	1	0.0800	<0.000101	46	20 - 104
Acenaphthene		1	0.0357	mg/L	1	0.0800	<0.000122	45	21.6 - 94.6
Dibenzofuran		1	0.0392	mg/L	1	0.0800	<0.000119	49	22.9 - 74.9
Fluorene		1	0.0396	mg/L	1	0.0800	<0.000198	50	30.8 - 109
Anthracene		1	0.0426	mg/L	1	0.0800	<0.000190	53	37.6 - 96.4
Phenanthrene			0.0430	mg/L	1	0.0800	<0.000190	54	42.4 - 99.8
Fluoranthene			0.0469	mg/L	1	0.0800	<0.000122	59	48 - 118
Pyrene		1	0.0457	mg/L	1	0.0800	<0.000142	57	45.3 - 109
Benzo(a)anthracene			0.0548	mg/L	1	0.0800	<0.000138	68	48 - 113
Chrysene		1	0.0619	mg/L	1	0.0800	<0.000155	77	35.2 - 175
Benzo(b)fluoranthene			0.0384	mg/L	1	0.0800	<0.000179	48	16.6 - 106
Benzo(k)fluoranthene		1	0.0367	mg/L	1	0.0800	<0.000185	46	36.8 - 99.4
Benzo(a)pyrene		1	0.0384	mg/L	1	0.0800	<0.000169	48	32.3 - 99.7
Indeno(1,2,3-cd)pyrene		1	0.0420	mg/L	1	0.0800	<0.000139	52	34.1 - 106
Dibenzo(a,h)anthracene		1	0.0559	mg/L	1	0.0800	<0.000107	70	47.1 - 103
Benzo(g,h,i)perylene			0.0407	mg/L	1	0.0800	<0.000143	51	21.9 - 112

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	0.0317	mg/L	1	0.0800	<0.0000904	40	10 - 89.9	12	20
2-Methylnaphthalene		1	0.0374	mg/L	1	0.0800	<0.000184	47	13.8 - 98.4	14	20
1-Methylnaphthalene			0.0358	mg/L	1	0.0800	<0.000120	45	13.1 - 103	14	20
Acenaphthylene		1	0.0410	mg/L	1	0.0800	<0.000101	51	20 - 104	10	20
Acenaphthene		1	0.0398	mg/L	1	0.0800	<0.000122	50	21.6 - 94.6	11	20
Dibenzofuran		1	0.0434	mg/L	1	0.0800	<0.000119	54	22.9 - 74.9	10	20
Fluorene		1	0.0426	mg/L	1	0.0800	<0.000198	53	30.8 - 109	7	20
Anthracene		1	0.0475	mg/L	1	0.0800	<0.000190	59	37.6 - 96.4	11	20
Phenanthrene			0.0484	mg/L	1	0.0800	<0.000190	60	42.4 - 99.8	12	20
Fluoranthene			0.0516	mg/L	1	0.0800	<0.000122	64	48 - 118	10	20
Pyrene		1	0.0488	mg/L	1	0.0800	<0.000142	61	45.3 - 109	7	20

continued ...

control spikes continued ...

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzo(a)anthracene			0.0608	mg/L	1	0.0800	<0.000138	76	48 - 113	10	20
Chrysene			0.0687	mg/L	1	0.0800	<0.000155	86	35.2 - 175	10	20
Benzo(b)fluoranthene			0.0390	mg/L	1	0.0800	<0.000179	49	16.6 - 106	2	20
Benzo(k)fluoranthene	Qr	Qr	0.0458	mg/L	1	0.0800	<0.000185	57	36.8 - 99.4	22	20
Benzo(a)pyrene			0.0434	mg/L	1	0.0800	<0.000169	54	32.3 - 99.7	12	20
Indeno(1,2,3-cd)pyrene			0.0470	mg/L	1	0.0800	<0.000139	59	34.1 - 106	11	20
Dibenzo(a,h)anthracene			0.0627	mg/L	1	0.0800	<0.000107	78	47.1 - 103	12	20
Benzo(g,h,i)perylene			0.0454	mg/L	1	0.0800	<0.000143	57	21.9 - 112	11	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Nitrobenzene-d5	0.0368	0.0403	mg/L	1	0.0800	46	50	10 - 117
2-Fluorobiphenyl	0.0358	0.0402	mg/L	1	0.0800	45	50	10 - 99
Terphenyl-d14	0.0525	0.0562	mg/L	1	0.0800	66	70	22.6 - 115

Calibration Standards

Standard (CCV-2)

QC Batch: 87624

Date Analyzed: 2012-01-05

Analyzed By: MN

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		1	mg/L	60.0	55.0	92	80 - 120	2012-01-05
2-Methylnaphthalene		1	mg/L	60.0	55.2	92	80 - 120	2012-01-05
1-Methylnaphthalene			mg/L	60.0	56.0	93	80 - 120	2012-01-05
Acenaphthylene		1	mg/L	60.0	55.0	92	80 - 120	2012-01-05
Acenaphthene		1	mg/L	60.0	55.4	92	80 - 120	2012-01-05
Dibenzofuran		1	mg/L	60.0	53.6	89	80 - 120	2012-01-05
Fluorene		1	mg/L	60.0	51.1	85	80 - 120	2012-01-05
Anthracene		1	mg/L	60.0	53.2	89	80 - 120	2012-01-05
Phenanthrene			mg/L	60.0	53.7	90	80 - 120	2012-01-05
Fluoranthene			mg/L	60.0	60.8	101	80 - 120	2012-01-05
Pyrene		1	mg/L	60.0	51.8	86	80 - 120	2012-01-05
Benzo(a)anthracene			mg/L	60.0	58.8	98	80 - 120	2012-01-05
Chrysene		1	mg/L	60.0	55.0	92	80 - 120	2012-01-05
Benzo(b)fluoranthene			mg/L	60.0	49.6	83	80 - 120	2012-01-05
Benzo(k)fluoranthene		1	mg/L	60.0	51.8	86	80 - 120	2012-01-05
Benzo(a)pyrene		1	mg/L	60.0	52.8	88	80 - 120	2012-01-05
Indeno(1,2,3-cd)pyrene		1	mg/L	60.0	52.9	88	80 - 120	2012-01-05
Dibenzo(a,h)anthracene		1	mg/L	60.0	53.1	88	80 - 120	2012-01-05
Benzo(g,h,i)perylene			mg/L	60.0	53.0	88	80 - 120	2012-01-05

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			55.7	mg/L	1	60.0	93	-
2-Fluorobiphenyl			57.9	mg/L	1	60.0	96	-
Terphenyl-d14			52.4	mg/L	1	60.0	87	-

Standard (CCV-3)

QC Batch: 87624

Date Analyzed: 2012-01-05

Analyzed By: MN

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		1	mg/L	60.0	55.9	93	80 - 120	2012-01-05

continued ...

standard continued ...

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
2-Methylnaphthalene		1	mg/L	60.0	55.4	92	80 - 120	2012-01-05
1-Methylnaphthalene			mg/L	60.0	55.7	93	80 - 120	2012-01-05
Acenaphthylene		1	mg/L	60.0	55.5	92	80 - 120	2012-01-05
Acenaphthene		1	mg/L	60.0	56.2	94	80 - 120	2012-01-05
Dibenzofuran		1	mg/L	60.0	54.2	90	80 - 120	2012-01-05
Fluorene		1	mg/L	60.0	52.7	88	80 - 120	2012-01-05
Anthracene		1	mg/L	60.0	53.3	89	80 - 120	2012-01-05
Phenanthrene			mg/L	60.0	54.0	90	80 - 120	2012-01-05
Fluoranthene			mg/L	60.0	59.4	99	80 - 120	2012-01-05
Pyrene		1	mg/L	60.0	55.2	92	80 - 120	2012-01-05
Benzo(a)anthracene			mg/L	60.0	58.8	98	80 - 120	2012-01-05
Chrysene		1	mg/L	60.0	56.0	93	80 - 120	2012-01-05
Benzo(b)fluoranthene			mg/L	60.0	48.6	81	80 - 120	2012-01-05
Benzo(k)fluoranthene		1	mg/L	60.0	52.6	88	80 - 120	2012-01-05
Benzo(a)pyrene		1	mg/L	60.0	50.7	84	80 - 120	2012-01-05
Indeno(1,2,3-cd)pyrene		1	mg/L	60.0	53.3	89	80 - 120	2012-01-05
Dibenzo(a,h)anthracene		1	mg/L	60.0	53.8	90	80 - 120	2012-01-05
Benzo(g,h,i)perylene			mg/L	60.0	52.7	88	80 - 120	2012-01-05

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			55.8	mg/L	1	60.0	93	-
2-Fluorobiphenyl			57.5	mg/L	1	60.0	96	-
Terphenyl-d14			55.7	mg/L	1	60.0	93	-

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	T104704219-11-5	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 than 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.
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.

Historical Data Tables

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	01/17/00	3,607.16	-	19.95	0.00	3,587.21
MW - 1	04/10/00	3,607.16	-	20.08	0.00	3,587.08
MW - 1	08/31/00	3,607.16	-	19.71	0.00	3,587.45
MW - 1	12/18/00	3,607.16	-	19.89	0.00	3,587.27
MW - 1	03/13/01	3,607.16	-	19.88	0.00	3,587.28
MW - 1	05/30/01	3,607.16	-	19.88	0.00	3,587.28
MW - 1	09/12/01	3,607.16	-	20.05	0.00	3,587.11
MW - 1	11/17/01	3,607.16	-	20.03	0.00	3,587.13
MW - 1	02/12/02	3,607.16	-	20.10	0.00	3,587.06
MW - 1	05/15/02	3,607.16	-	20.02	0.00	3,587.14
MW - 1	09/12/02	3,607.16	-	20.09	0.00	3,587.07
MW - 1	11/18/02	3,607.16	-	19.91	0.00	3,587.25
MW - 1	02/17/03	3,607.16	-	19.98	0.00	3,587.18
MW - 1	05/19/03	3,607.16	-	20.17	0.00	3,586.99
MW - 1	08/25/03	3,607.16	-	20.32	0.00	3,586.84
MW - 1	11/21/03	3,607.16	-	20.35	0.00	3,586.81
MW - 1	02/23/04	3,607.16	-	20.32	0.00	3,586.84
MW - 1	05/13/04	3,607.16	-	19.33	0.00	3,587.83
MW - 1	08/26/04	3,607.16	-	19.87	0.00	3,587.29
MW - 1	12/13/04	3,607.16	-	17.85	0.00	3,589.31
MW - 1	03/14/05	3,607.16	-	18.84	0.00	3,588.32
MW - 1	06/24/05	3,607.16	-	19.21	0.00	3,587.95
MW - 1	09/08/05	3,607.16	-	19.19	0.00	3,587.97
MW - 1	12/01/05	3,607.16	-	19.38	0.00	3,587.78
MW - 1	03/07/06	3,607.16	-	19.52	0.00	3,587.64
MW - 1	06/06/06	3,607.16	-	19.64	0.00	3,587.52
MW - 1	07/19/06	3,607.16	-	19.59	0.00	3,587.57
MW - 1	07/27/06	3,607.16	-	19.63	0.00	3,587.53
MW - 1	08/09/06	3,607.16	-	20.62	0.00	3,586.54
MW - 1	08/18/06	3,607.16	-	19.14	0.00	3,588.02
MW - 1	09/12/06	3,607.16	-	17.98	0.00	3,589.18
MW - 1	10/31/06	3,607.16	shecn	18.35	0.00	3,588.81
MW - 1	11/15/06	3,607.16	shecn	18.30	0.00	3,588.86
MW - 1	12/13/06	3,607.16	-	18.52	0.00	3,588.64
MW - 1	03/16/07	3,607.16	-	19.24	0.00	3,587.92
MW - 1	05/16/07	3,607.16	-	19.31	0.00	3,587.85
MW - 1	08/20/07	3,607.16	-	19.44	0.00	3,587.72
MW - 1	11/27/07	3,607.16	-	19.51	0.00	3,587.65
MW - 1	02/22/08	3,607.16	-	19.57	0.00	3,587.59
MW - 1	05/30/08	3,607.16	-	19.71	0.00	3,587.45
MW - 1	08/22/08	3,607.16	-	19.74	0.00	3,587.42
MW - 1	11/13/08	3,607.16	-	19.53	0.00	3,587.63
MW - 1	02/12/09	3,607.16	-	19.64	0.00	3,587.52
MW - 1	05/14/09	3,607.16	-	19.13	0.00	3,588.03
MW - 1	08/06/09	3,607.16	-	19.58	0.00	3,587.58
MW - 1	11/05/09	3,607.16	-	19.66	0.00	3,587.50
MW - 1	01/12/10	3,607.16	-	19.64	0.00	3,587.52
MW - 1	02/05/10	3,607.16	-	19.71	0.00	3,587.45
MW - 1	05/03/10	3,607.16	-	19.67	0.00	3,587.49
MW - 1	08/09/10	3,607.16	-	18.99	0.00	3,588.17
MW - 1	11/08/10	3,607.16	-	19.00	0.00	3,588.16
MW - 1	02/07/11	3,607.16	-	19.02	0.00	3,588.14
MW - 1	05/16/11	3,607.16	-	19.05	0.00	3,588.11
MW - 1	05/19/11	3,607.16	-	19.65	0.00	3,587.51
MW - 1	05/27/11	3,607.16	-	19.71	0.00	3,587.45
MW - 1	06/10/11	3,607.16	-	19.68	0.00	3,587.48

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	06/24/11	3,607.16	-	19.65	0.00	3,587.51
MW - 1	07/01/11	3,607.16	-	19.66	0.00	3,587.50
MW - 1	08/08/11	3,607.16	-	19.07	0.00	3,588.09
MW - 1	11/11/11	3,607.16	-	19.79	0.00	3,587.37
MW - 2	01/17/00	3,607.08	-	19.82	0.00	3,587.26
MW - 2	04/10/00	3,607.08	-	19.94	0.00	3,587.14
MW - 2	08/31/00	3,607.08	-	19.57	0.00	3,587.51
MW - 2	12/18/00	3,607.08	-	19.77	0.00	3,587.31
MW - 2	03/13/01	3,607.08	-	19.75	0.00	3,587.33
MW - 2	05/30/01	3,607.08	-	19.75	0.00	3,587.33
MW - 2	09/12/01	3,607.08	-	19.92	0.00	3,587.16
MW - 2	11/17/01	3,607.08	-	19.88	0.00	3,587.20
MW - 2	02/12/02	3,607.08	-	19.96	0.00	3,587.12
MW - 2	05/15/02	3,607.08	-	19.88	0.00	3,587.20
MW - 2	09/12/02	3,607.08	-	19.93	0.00	3,587.15
MW - 2	11/18/02	3,607.08	-	19.77	0.00	3,587.31
MW - 2	02/17/03	3,607.08	-	19.83	0.00	3,587.25
MW - 2	05/19/03	3,607.08	-	20.03	0.00	3,587.05
MW - 2	08/25/03	3,607.08	-	20.19	0.00	3,586.89
MW - 2	11/21/03	3,607.08	-	20.20	0.00	3,586.88
MW - 2	02/23/04	3,607.08	-	20.18	0.00	3,586.90
MW - 2	05/13/04	3,607.08	-	19.15	0.00	3,587.93
MW - 2	08/26/04	3,607.08	-	19.72	0.00	3,587.36
MW - 2	12/13/04	3,607.08	-	17.44	0.00	3,589.64
MW - 2	03/14/05	3,607.08	-	18.61	0.00	3,588.47
MW - 2	06/24/05	3,607.08	-	19.02	0.00	3,588.06
MW - 2	09/08/05	3,607.08	-	19.02	0.00	3,588.06
MW - 2	12/01/05	3,607.08	-	19.20	0.00	3,587.88
MW - 2	03/07/06	3,607.08	-	19.36	0.00	3,587.72
MW - 2	06/06/06	3,607.08	-	19.49	0.00	3,587.59
MW - 2	09/12/06	3,607.08	-	17.65	0.00	3,589.43
MW - 2	12/13/06	3,607.08	-	18.50	0.00	3,588.58
MW - 2	03/16/07	3,607.08	-	19.06	0.00	3,588.02
MW - 2	05/16/07	3,607.08	-	19.17	0.00	3,587.91
MW - 2	08/20/07	3,607.08	-	19.27	0.00	3,587.81
MW - 2	11/27/07	3,607.08	-	19.34	0.00	3,587.74
MW - 2	02/22/08	3,607.08	-	19.43	0.00	3,587.65
MW - 2	05/30/08	3,607.08	-	19.55	0.00	3,587.53
MW - 2	08/22/08	3,607.08	-	19.58	0.00	3,587.50
MW - 2	11/13/08	3,607.08	-	19.38	0.00	3,587.70
MW - 2	02/12/09	3,607.08	-	19.51	0.00	3,587.57
MW - 2	05/14/09	3,607.08	-	19.95	0.00	3,587.13
MW - 2	08/06/09	3,607.08	-	19.43	0.00	3,587.65
MW - 2	11/05/09	3,607.08	-	19.50	0.00	3,587.58
MW - 2	01/12/10	3,607.08	-	19.51	0.00	3,587.57
MW - 2	02/05/10	3,607.08	-	19.56	0.00	3,587.52
MW - 2	05/03/10	3,607.08	-	19.50	0.00	3,587.58
MW - 2	08/09/10	3,607.08	-	18.72	0.00	3,588.36
MW - 2	11/08/10	3,607.08	-	18.73	0.00	3,588.35
MW - 2	02/07/11	3,607.08	-	18.76	0.00	3,588.32
MW - 2	05/16/11	3,607.08	-	18.76	0.00	3,588.32
MW - 2	05/19/11	3,607.08	-	19.48	0.00	3,587.60
MW - 2	05/27/11	3,607.08	-	19.53	0.00	3,587.55
MW - 2	06/10/11	3,607.08	-	19.54	0.00	3,587.54
MW - 2	06/24/11	3,607.08	-	19.55	0.00	3,587.53
MW - 2	07/01/11	3,607.08	-	19.61	0.00	3,587.47
MW - 2	07/12/11	3,607.08	-	19.64	0.00	3,587.44
MW - 2	08/04/11	3,607.08	-	19.71	0.00	3,587.37
MW - 2	08/08/11	3,607.08	-	18.76	0.00	3,588.32

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	11/11/11	3,607.08	-	19.65	0.00	3,587.51

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	01/17/00	3,608.43	-	20.92	0.00	3,587.51
MW - 3	04/10/00	3,608.43	-	21.06	0.00	3,587.37
MW - 3	08/31/00	3,608.43	-	20.64	0.00	3,587.79
MW - 3	12/18/00	3,608.43	-	20.86	0.00	3,587.57
MW - 3	03/13/01	3,608.43	-	20.85	0.00	3,587.58
MW - 3	05/30/01	3,608.43	-	20.93	0.00	3,587.50
MW - 3	09/12/01	3,608.43	-	21.04	0.00	3,587.39
MW - 3	11/17/01	3,608.43	-	21.02	0.00	3,587.41
MW - 3	02/12/02	3,608.43	-	21.09	0.00	3,587.34
MW - 3	05/15/02	3,608.43	-	21.04	0.00	3,587.39
MW - 3	09/12/02	3,608.43	-	21.07	0.00	3,587.36
MW - 3	11/18/02	3,608.43	-	20.89	0.00	3,587.54
MW - 3	02/17/03	3,608.43	-	21.02	0.00	3,587.41
MW - 3	05/19/03	3,608.43	-	21.17	0.00	3,587.26
MW - 3	08/25/03	3,608.43	-	21.27	0.00	3,587.16
MW - 3	11/21/03	3,608.43	-	21.33	0.00	3,587.10
MW - 3	02/23/04	3,608.43	-	21.34	0.00	3,587.09
MW - 3	05/13/04	3,608.43	-	20.20	0.00	3,588.23
MW - 3	08/26/04	3,608.43	-	20.87	0.00	3,587.56
MW - 3	12/13/04	3,608.43	-	18.08	0.00	3,590.35
MW - 3	03/14/05	3,608.43	-	19.41	0.00	3,589.02
MW - 3	06/24/05	3,608.43	-	19.99	0.00	3,588.44
MW - 3	09/08/05	3,608.43	-	19.97	0.00	3,588.46
MW - 3	12/01/05	3,608.43	-	20.22	0.00	3,588.21
MW - 3	03/07/06	3,608.43	-	20.42	0.00	3,588.01
MW - 3	06/06/06	3,608.43	-	20.55	0.00	3,587.88
MW - 3	07/19/06	3,608.43	-	20.53	0.00	3,587.90
MW - 3	07/27/06	3,608.43	-	20.56	0.00	3,587.87
MW - 3	08/09/06	3,608.43	-	20.50	0.00	3,587.93
MW - 3	08/18/06	3,608.43	-	19.98	0.00	3,588.45
MW - 3	09/12/06	3,608.43	-	18.46	0.00	3,589.97
MW - 3	10/31/06	3,608.43	shecn	18.83	0.00	3,589.60
MW - 3	11/15/06	3,608.43	shecn	18.78	0.00	3,589.65
MW - 3	12/13/06	3,608.43	-	19.37	0.00	3,589.06
MW - 3	03/16/07	3,608.43	-	20.03	0.00	3,588.40
MW - 3	05/16/07	3,608.43	-	20.16	0.00	3,588.27
MW - 3	08/20/07	3,608.43	-	20.31	0.00	3,588.12
MW - 3	11/27/07	3,608.43	-	20.36	0.00	3,588.07
MW - 3	02/22/08	3,608.43	-	20.53	0.00	3,587.90
MW - 3	05/30/08	3,608.43	-	20.63	0.00	3,587.80
MW - 3	08/22/08	3,608.43	-	20.65	0.00	3,587.78
MW - 3	11/13/08	3,608.43	-	20.43	0.00	3,588.00
MW - 3	02/12/09	3,608.43	-	20.58	0.00	3,587.85
MW - 3	05/14/09	3,608.43	-	20.65	0.00	3,587.78
MW - 3	08/06/09	3,608.43	-	20.48	0.00	3,587.95
MW - 3	11/05/09	3,608.43	-	20.58	0.00	3,587.85
MW - 3	01/12/09	3,608.43	-	20.57	0.00	3,587.86
MW - 3	02/05/10	3,608.43	-	20.64	0.00	3,587.79
MW - 3	05/03/10	3,608.43	-	20.58	0.00	3,587.85
MW - 3	08/09/10	3,608.43	-	19.58	0.00	3,588.85
MW - 3	11/08/10	3,608.43	-	19.56	0.00	3,588.87
MW - 3	02/07/11	3,608.43	-	19.56	0.00	3,588.87
MW - 3	05/16/11	3,608.43	-	19.56	0.00	3,588.87
MW - 3	05/19/11	3,608.43	-	20.56	0.00	3,587.87
MW - 3	05/27/11	3,608.43	-	21.65	0.00	3,586.78
MW - 3	06/10/11	3,608.43	-	20.60	0.00	3,587.83
MW - 3	06/24/11	3,608.43	-	20.64	0.00	3,587.79
MW - 3	07/01/11	3,608.43	-	20.70	0.00	3,587.73

TABLE 1
GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	07/12/11	3,608.43	-	20.78	0.00	3,587.65
MW - 3	08/04/11	3,608.43	-	20.72	0.00	3,587.71
MW - 3	08/08/11	3,608.43	-	19.52	0.00	3,588.91
MW - 3	11/11/11	3,608.43	-	20.77	0.00	3,586.39
MW - 4	01/17/00	3,606.12	-	19.02	0.00	3,587.10
MW - 4	04/10/00	3,606.12	-	19.12	0.00	3,587.00
MW - 4	08/31/00	3,606.12	-	18.80	0.00	3,587.32
MW - 4	12/18/00	3,606.12	-	18.97	0.00	3,587.15
MW - 4	03/13/01	3,606.12	-	18.93	0.00	3,587.19
MW - 4	05/30/01	3,606.12	-	18.94	0.00	3,587.18
MW - 4	09/12/01	3,606.12	-	19.11	0.00	3,587.01
MW - 4	11/17/01	3,606.12	-	19.10	0.00	3,587.02
MW - 4	02/12/02	3,606.12	-	19.13	0.00	3,586.99
MW - 4	05/15/02	3,606.12	-	19.08	0.00	3,587.04
MW - 4	09/12/02	3,606.12	-	19.12	0.00	3,587.00
MW - 4	11/18/02	3,606.12	-	18.98	0.00	3,587.14
MW - 4	02/17/03	3,606.12	-	19.09	0.00	3,587.03
MW - 4	05/19/03	3,606.12	-	19.21	0.00	3,586.91
MW - 4	08/25/03	3,606.12	-	19.37	0.00	3,586.75
MW - 4	11/21/03	3,606.12	-	19.37	0.00	3,586.75
MW - 4	02/23/04	3,606.12	-	19.36	0.00	3,586.76
MW - 4	05/13/04	3,606.12	-	18.48	0.00	3,587.64
MW - 4	08/26/04	3,606.12	-	18.94	0.00	3,587.18
MW - 4	12/13/04	3,606.12	-	16.95	0.00	3,589.17
MW - 4	03/14/05	3,606.12	-	18.00	0.00	3,588.12
MW - 4	06/24/05	3,606.12	-	18.34	0.00	3,587.78
MW - 4	09/08/05	3,606.12	-	18.32	0.00	3,587.80
MW - 4	12/01/05	3,606.12	-	18.47	0.00	3,587.65
MW - 4	03/07/06	3,606.12	-	18.62	0.00	3,587.50
MW - 4	06/06/06	3,606.12	-	18.72	0.00	3,587.40
MW - 4	09/12/06	3,606.12	-	17.08	0.00	3,589.04
MW - 4	12/13/06	3,606.12	-	17.69	0.00	3,588.43
MW - 4	03/16/07	3,606.12	-	18.35	0.00	3,587.77
MW - 4	05/16/07	3,606.12	-	18.42	0.00	3,587.70
MW - 4	08/20/07	3,606.12	-	18.53	0.00	3,587.59
MW - 4	11/27/07	3,606.12	-	18.58	0.00	3,587.54
MW - 4	02/22/08	3,606.12	-	18.68	0.00	3,587.44
MW - 4	05/30/08	3,606.12	-	18.77	0.00	3,587.35
MW - 4	08/22/08	3,606.12	-	18.78	0.00	3,587.34
MW - 4	11/13/08	3,606.12	-	18.61	0.00	3,587.51
MW - 4	02/12/09	3,606.12	-	18.72	0.00	3,587.40
MW - 4	05/14/09	3,606.12	-	23.83	0.00	3,582.29
MW - 4	08/06/09	3,606.12	-	18.64	0.00	3,587.48
MW - 4	11/05/09	3,606.12	-	18.74	0.00	3,587.38
MW - 4	01/12/10	3,606.12	-	18.73	0.00	3,587.39
MW - 4	02/05/10	3,606.12	-	18.79	0.00	3,587.33
MW - 4	05/03/10	3,606.12	-	18.74	0.00	3,587.38
MW - 4	08/09/10	3,606.12	-	18.10	0.00	3,588.02
MW - 4	11/08/10	3,606.12	-	18.12	0.00	3,588.00
MW - 4	02/07/11	3,606.12	-	18.12	0.00	3,588.00
MW - 4	05/16/11	3,606.12	-	18.12	0.00	3,588.00
MW - 4	08/08/11	3,606.12	-	18.12	0.00	3,588.00
MW - 4	11/11/11	3,606.12	-	18.86	0.00	3,588.30
MW - 5	01/17/00	3,610.17	-	22.55	0.00	3,587.62
MW - 5	04/10/00	3,610.17	-	22.64	0.00	3,587.53
MW - 5	08/31/00	3,610.17	-	22.22	0.00	3,587.95
MW - 5	12/18/00	3,610.17	-	22.44	0.00	3,587.73
MW - 5	03/13/01	3,610.17	-	22.43	0.00	3,587.74

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	05/30/01	3,610.17	-	22.50	0.00	3,587.67

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	09/12/01	3,610.17	-	22.64	0.00	3,587.53
MW - 5	11/17/01	3,610.17	-	22.63	0.00	3,587.54
MW - 5	02/12/02	3,610.17	-	22.67	0.00	3,587.50
MW - 5	05/15/02	3,610.17	-	22.64	0.00	3,587.53
MW - 5	09/12/02	3,610.17	-	22.67	0.00	3,587.50
MW - 5	11/18/02	3,610.17	-	22.49	0.00	3,587.68
MW - 5	02/17/03	3,610.17	-	22.65	0.00	3,587.52
MW - 5	05/19/03	3,610.17	-	22.77	0.00	3,587.40
MW - 5	08/25/03	3,610.17	-	22.94	0.00	3,587.23
MW - 5	11/21/03	3,610.17	-	22.95	0.00	3,587.22
MW - 5	02/23/04	3,610.17	-	22.94	0.00	3,587.23
MW - 5	05/13/04	3,610.17	-	21.78	0.00	3,588.39
MW - 5	08/26/04	3,610.17	-	22.44	0.00	3,587.73
MW - 5	12/13/04	3,610.17	-	19.33	0.00	3,590.84
MW - 5	03/14/05	3,610.17	-	20.85	0.00	3,589.32
MW - 5	06/24/05	3,610.17	-	21.48	0.00	3,588.69
MW - 5	09/08/05	3,610.17	-	21.47	0.00	3,588.70
MW - 5	12/01/05	3,610.17	-	21.77	0.00	3,588.40
MW - 5	03/07/06	3,610.17	-	21.99	0.00	3,588.18
MW - 5	06/06/06	3,610.17	-	22.15	0.00	3,588.02
MW - 5	09/12/06	3,610.17	-	19.85	0.00	3,590.32
MW - 5	12/13/06	3,610.17	-	20.85	0.00	3,589.32
MW - 5	03/16/07	3,610.17	-	21.59	0.00	3,588.58
MW - 5	05/16/07	3,610.17	-	21.74	0.00	3,588.43
MW - 5	08/20/07	3,610.17	-	21.88	0.00	3,588.29
MW - 5	11/27/07	3,610.17	-	21.98	0.00	3,588.19
MW - 5	02/22/08	3,610.17	-	21.11	0.00	3,589.06
MW - 5	05/30/08	3,610.17	-	22.24	0.00	3,587.93
MW - 5	08/22/08	3,610.17	-	22.29	0.00	3,587.88
MW - 5	11/13/08	3,610.17	-	22.04	0.00	3,588.13
MW - 5	02/12/09	3,610.17	-	22.25	0.00	3,587.92
MW - 5	05/14/09	3,610.17	-	20.55	0.00	3,589.62
MW - 5	08/06/09	3,610.17	-	22.09	0.00	3,588.08
MW - 5	11/05/09	3,610.17	-	22.18	0.00	3,587.99
MW - 5	01/12/10	3,610.17	-	22.19	0.00	3,587.98
MW - 5	02/08/10	3,610.17	-	22.28	0.00	3,587.89
MW - 5	05/03/10	3,610.17	-	22.19	0.00	3,587.98
MW - 5	08/09/10	3,610.17	-	21.05	0.00	3,589.12
MW - 5	11/08/10	3,610.17	-	21.05	0.00	3,589.12
MW - 5	02/07/11	3,610.17	-	21.04	0.00	3,589.13
MW - 5	05/16/11	3,610.17	-	21.06	0.00	3,589.11
MW - 5	08/08/11	3,610.17	-	21.08	0.00	3,589.09
MW - 5	11/11/11	3,610.17	-	22.33	0.00	3,584.83
MW - 6	01/17/00	3,604.44	-	17.63	0.00	3,586.81
MW - 6	04/10/00	3,604.44	-	17.72	0.00	3,586.72
MW - 6	08/31/00	3,604.44	-	17.44	0.00	3,587.00
MW - 6	12/18/00	3,604.44	-	17.58	0.00	3,586.86
MW - 6	03/13/01	3,604.44	-	17.55	0.00	3,586.89
MW - 6	05/30/01	3,604.44	-	17.58	0.00	3,586.86
MW - 6	09/12/01	3,604.44	-	17.70	0.00	3,586.74
MW - 6	11/17/01	3,604.44	-	17.69	0.00	3,586.75
MW - 6	02/12/02	3,604.44	-	17.67	0.00	3,586.77
MW - 6	05/15/02	3,604.44	-	17.68	0.00	3,586.76
MW - 6	09/12/02	3,604.44	-	17.72	0.00	3,586.72
MW - 6	11/18/02	3,604.44	-	17.56	0.00	3,586.88
MW - 6	02/17/03	3,604.44	-	17.66	0.00	3,586.78
MW - 6	05/19/03	3,604.44	-	17.79	0.00	3,586.65
MW - 6	08/25/03	3,604.44	-	17.91	0.00	3,586.53
MW - 6	11/21/03	3,604.44	-	17.94	0.00	3,586.50

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 6	02/23/04	3,604.44	-	17.93	0.00	3,586.51
MW - 6	05/13/04	3,604.44	-	17.18	0.00	3,587.26
MW - 6	08/26/04	3,604.44	-	17.55	0.00	3,586.89
MW - 6	12/13/04	3,604.44	-	15.87	0.00	3,588.57
MW - 6	03/14/05	3,604.44	-	16.89	0.00	3,587.55
MW - 6	06/24/05	3,604.44	-	17.10	0.00	3,587.34
MW - 6	09/08/05	3,604.44	-	17.19	0.00	3,587.25
MW - 6	09/13/05		PLUGGED & ABANDONED			
MW - 7	01/17/00	3,607.38	20.25	20.30	0.05	3,587.12
MW - 7	04/10/00	3,607.38	20.36	20.41	0.05	3,587.01
MW - 7	08/31/00	3,607.38	shecn	19.99	0.00	3,587.39
MW - 7	09/14/00	3,607.38	shecn	20.01	0.00	3,587.37
MW - 7	09/20/00	3,607.38	shecn	20.03	0.00	3,587.35
MW - 7	09/27/00	3,607.38	shecn	20.04	0.00	3,587.34
MW - 7	10/04/00	3,607.38	shecn	20.07	0.00	3,587.31
MW - 7	12/18/00	3,607.38	shecn	20.16	0.00	3,587.22
MW - 7	03/13/01	3,607.38	shecn	20.20	0.00	3,587.18
MW - 7	05/30/01	3,607.38	shecn	20.21	0.00	3,587.17
MW - 7	09/12/01	3,607.38	shecn	20.03	0.00	3,587.35
MW - 7	11/17/01	3,607.38	shecn	20.27	0.00	3,587.11
MW - 7	02/12/02	3,607.38	shecn	20.30	0.00	3,587.08
MW - 7	03/18/02	3,607.38	shecn	20.42	0.00	3,586.96
MW - 7	03/28/02	3,607.38	shecn	20.33	0.00	3,587.05
MW - 7	04/03/02	3,607.38	shecn	20.31	0.00	3,587.07
MW - 7	04/12/02	3,607.38	shecn	20.31	0.00	3,587.07
MW - 7	04/16/02	3,607.38	shecn	20.32	0.00	3,587.06
MW - 7	05/03/02	3,607.38	shecn	20.32	0.00	3,587.06
MW - 7	05/10/02	3,607.38	shecn	20.32	0.00	3,587.06
MW - 7	05/15/02	3,607.38	shecn	20.35	0.00	3,587.03
MW - 7	05/24/02	3,607.38	shecn	20.41	0.00	3,586.97
MW - 7	06/10/02	3,607.38	shecn	20.48	0.00	3,586.90
MW - 7	06/12/02	3,607.38	shecn	20.37	0.00	3,587.01
MW - 7	06/19/02	3,607.38	shecn	20.28	0.00	3,587.10
MW - 7	07/03/02	3,607.38	shecn	20.38	0.00	3,587.00
MW - 7	07/11/02	3,607.38	shecn	20.37	0.00	3,587.01
MW - 7	07/16/02	3,607.38	shecn	20.24	0.00	3,587.14
MW - 7	08/21/02	3,607.38	shecn	20.27	0.00	3,587.11
MW - 7	08/27/02	3,607.38	shecn	20.30	0.00	3,587.08
MW - 7	09/05/02	3,607.38	shecn	20.34	0.00	3,587.04
MW - 7	09/12/02	3,607.38	shecn	20.37	0.00	3,587.01
MW - 7	10/08/02	3,607.38	shecn	20.43	0.00	3,586.95
MW - 7	10/31/02	3,607.38	shecn	20.43	0.00	3,586.95
MW - 7	11/06/02	3,607.38	shecn	20.12	0.00	3,587.26
MW - 7	11/18/02	3,607.38	shecn	20.22	0.00	3,587.16
MW - 7	01/07/03	3,607.38	shecn	20.29	0.00	3,587.09
MW - 7	01/10/03	3,607.38	shecn	20.28	0.00	3,587.10
MW - 7	02/17/03	3,607.38	-	20.35	0.00	3,587.03
MW - 7	04/02/03	3,607.38	shecn	20.41	0.00	3,586.97
MW - 7	04/16/03	3,607.38	-	20.46	0.00	3,586.92
MW - 7	04/16/03	3,607.38	shecn	20.46	0.00	3,586.92
MW - 7	05/19/03	3,607.38	-	20.45	0.00	3,586.93
MW - 7	06/10/03	3,607.38	shecn	22.59	0.00	3,584.79
MW - 7	06/25/03	3,607.38	shecn	20.66	0.00	3,586.72
MW - 7	07/10/03	3,607.38	shecn	20.69	0.00	3,586.69
MW - 7	08/05/03	3,607.38	shecn	20.76	0.00	3,586.62
MW - 7	08/25/03	3,607.38	20.61	20.66	0.05	3,586.76
MW - 7	09/08/03	3,607.38	20.91	20.98	0.07	3,586.46

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	09/30/03	3,607.38	20.65	20.77	0.12	3,586.71
MW - 7	11/11/03	3,607.38	21.04	21.06	0.02	3,586.34
MW - 7	11/21/03	3,607.38	20.74	20.76	0.02	3,586.64
MW - 7	12/08/03	3,607.38	sheen	20.75	0.00	3,586.63
MW - 7	12/31/03	3,607.38	20.60	20.61	0.01	3,586.78
MW - 7	01/13/04	3,607.38	21.08	21.11	0.03	3,586.30
MW - 7	02/18/04	3,607.38	20.77	20.96	0.19	3,586.58
MW - 7	02/23/04	3,607.38	20.60	20.67	0.07	3,586.77
MW - 7	03/11/04	3,607.38	20.85	20.89	0.04	3,586.52
MW - 7	04/09/04	3,607.38	20.11	20.15	0.04	3,587.26
MW - 7	05/03/04	3,607.38	19.79	19.92	0.13	3,587.57
MW - 7	05/13/04	3,607.38	sheen	19.61	0.00	3,587.77
MW - 7	07/01/04	3,607.38	19.94	19.95	0.01	3,587.44
MW - 7	08/26/04	3,607.38	20.18	20.19	0.01	3,587.20
MW - 7	09/21/04	3,607.38	sheen	20.25	0.00	3,587.13
MW - 7	09/29/04	3,607.38	sheen	19.03	0.00	3,588.35
MW - 7	10/05/04	3,607.38	sheen	18.33	0.00	3,589.05
MW - 7	10/19/04	3,607.38	sheen	18.66	0.00	3,588.72
MW - 7	10/12/04	3,607.38	sheen	18.50	0.00	3,588.88
MW - 7	10/25/04	3,607.38	sheen	18.70	0.00	3,588.68
MW - 7	11/01/04	3,607.38	sheen	18.80	0.00	3,588.58
MW - 7	11/09/04	3,607.38	sheen	18.81	0.00	3,588.57
MW - 7	11/16/04	3,607.38	sheen	18.34	0.00	3,589.04
MW - 7	11/22/04	3,607.38	sheen	17.78	0.00	3,589.60
MW - 7	11/29/04	3,607.38	sheen	17.62	0.00	3,589.76
MW - 7	12/07/04	3,607.38	sheen	17.50	0.00	3,589.88
MW - 7	12/13/04	3,607.38	-	17.92	0.00	3,589.46
MW - 7	12/20/04	3,607.38	sheen	17.96	0.00	3,589.42
MW - 7	12/27/04	3,607.38	sheen	18.10	0.00	3,589.28
MW - 7	01/10/05	3,607.38	sheen	18.26	0.00	3,589.12
MW - 7	01/17/05	3,607.38	sheen	18.39	0.00	3,588.99
MW - 7	01/24/05	3,607.38	sheen	18.48	0.00	3,588.90
MW - 7	01/31/05	3,607.38	sheen	18.59	0.00	3,588.79
MW - 7	02/07/05	3,607.38	sheen	18.69	0.00	3,588.69
MW - 7	02/14/05	3,607.38	sheen	18.81	0.00	3,588.57
MW - 7	02/21/05	3,607.38	sheen	18.87	0.00	3,588.51
MW - 7	02/28/05	3,607.38	sheen	18.93	0.00	3,588.45
MW - 7	03/08/05	3,607.38	sheen	18.86	0.00	3,588.52
MW - 7	03/14/05	3,607.38	sheen	19.05	0.00	3,588.33
MW - 7	03/16/05	3,607.38	sheen	18.80	0.00	3,588.58
MW - 7	03/21/05	3,607.38	sheen	19.11	0.00	3,588.27
MW - 7	03/28/05	3,607.38	sheen	19.15	0.00	3,588.23
MW - 7	04/04/05	3,607.38	sheen	19.20	0.00	3,588.18
MW - 7	04/13/05	3,607.38	sheen	19.23	0.00	3,588.15
MW - 7	04/18/05	3,607.38	sheen	19.22	0.00	3,588.16
MW - 7	05/23/05	3,607.38	sheen	19.36	0.00	3,588.02
MW - 7	06/21/05	3,607.38	sheen	19.45	0.00	3,587.93
MW - 7	06/24/05	3,607.38	-	19.45	0.00	3,587.93
MW - 7	07/26/05	3,607.38	sheen	19.51	0.00	3,587.87
MW - 7	08/24/05	3,607.38	sheen	19.28	0.00	3,588.10
MW - 7	09/08/05	3,607.38	19.38	19.39	0.01	3,588.00
MW - 7	09/26/05	3,607.38	sheen	19.46	0.00	3,587.92
MW - 7	10/25/05	3,607.38	sheen	19.54	0.00	3,587.84
MW - 7	11/14/05	3,607.38	sheen	19.58	0.00	3,587.80
MW - 7	12/01/05	3,607.38	-	19.60	0.00	3,587.78
MW - 7	12/28/05	3,607.38	sheen	19.68	0.00	3,587.70
MW - 7	01/18/06	3,607.38	sheen	19.72	0.00	3,587.66
MW - 7	02/15/06	3,607.38	sheen	19.75	0.00	3,587.63

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	03/07/06	3,607.38	shcen	19.76	0.00	3,587.62
MW - 7	03/20/06	3,607.38	shcen	19.80	0.00	3,587.58
MW - 7	04/19/06	3,607.38	shcen	19.83	0.00	3,587.55
MW - 7	05/25/06	3,607.38	shcen	19.86	0.00	3,587.52
MW - 7	06/06/06	3,607.38	shcen	19.98	0.00	3,587.40
MW - 7	09/12/06	3,607.38	-	18.19	0.00	3,589.19
MW - 7	10/31/06	3,607.38	shcen	18.38	0.00	3,589.00
MW - 7	11/15/06	3,607.38	shcen	18.33	0.00	3,589.05
MW - 7	12/13/06	3,607.38	shcen	18.78	0.00	3,588.60
MW - 7	02/07/07	3,607.38	shcen	19.29	0.00	3,588.09
MW - 7	03/16/07	3,607.38	shcen	19.43	0.00	3,587.95
MW - 7	05/16/07	3,607.38	-	19.55	0.00	3,587.83
MW - 7	05/18/07	3,607.38	-	19.22	0.00	3,588.16
MW - 7	08/20/07	3,607.38	shcen	19.65	0.00	3,587.73
MW - 7	10/05/07	3,607.38	shcen	19.60	0.00	3,587.78
MW - 7	10/18/07	3,607.38	shcen	19.66	0.00	3,587.72
MW - 7	11/09/07	3,607.38	shcen	19.68	0.00	3,587.70
MW - 7	11/27/07	3,607.38	shcen	19.73	0.00	3,587.65
MW - 7	01/11/08	3,607.38	-	19.76	0.00	3,587.62
MW - 7	02/22/08	3,607.38	-	19.80	0.00	3,587.58
MW - 7	04/25/08	3,607.38	-	19.89	0.00	3,587.49
MW - 7	05/30/08	3,607.38	-	19.92	0.00	3,587.46
MW - 7	07/03/08	3,607.38	-	19.94	0.00	3,587.44
MW - 7	08/01/08	3,607.38	-	19.94	0.00	3,587.44
MW - 7	08/19/08	3,607.38	-	19.96	0.00	3,587.42
MW - 7	08/22/08	3,607.38	-	19.95	0.00	3,587.43
MW - 7	09/25/08	3,607.38	-	19.94	0.00	3,587.44
MW - 7	10/01/08	3,607.38	-	20.00	0.00	3,587.38
MW - 7	10/23/08	3,607.38	-	19.44	0.00	3,587.94
MW - 7	10/28/08	3,607.38	-	19.79	0.00	3,587.59
MW - 7	11/06/08	3,607.38	-	19.80	0.00	3,587.58
MW - 7	11/13/08	3,607.38	-	19.75	0.00	3,587.63
MW - 7	11/13/08	3,607.38	-	19.78	0.00	3,587.60
MW - 7	12/16/08	3,607.38	-	19.82	0.00	3,587.56
MW - 7	01/07/09	3,607.38	-	19.86	0.00	3,587.52
MW - 7	01/16/09	3,607.38	-	19.88	0.00	3,587.50
MW - 7	02/09/09	3,607.38	-	19.90	0.00	3,587.48
MW - 7	02/12/09	3,607.38	-	19.89	0.00	3,587.49
MW - 7	02/26/09	3,607.38	-	19.90	0.00	3,587.48
MW - 7	03/02/09	3,607.38	-	19.91	0.00	3,587.47
MW - 7	03/04/09	3,607.38	-	19.91	0.00	3,587.47
MW - 7	03/09/09	3,607.38	-	19.94	0.00	3,587.44
MW - 7	03/17/09	3,607.38	-	19.96	0.00	3,587.42
MW - 7	03/19/09	3,607.38	-	19.97	0.00	3,587.41
MW - 7	03/25/09	3,607.38	-	19.95	0.00	3,587.43
MW - 7	03/27/09	3,607.38	-	19.99	0.00	3,587.39
MW - 7	03/30/09	3,607.38	-	20.01	0.00	3,587.37
MW - 7	04/06/09	3,607.38	-	20.00	0.00	3,587.38
MW - 7	04/08/09	3,607.38	-	19.92	0.00	3,587.46
MW - 7	04/13/09	3,607.38	-	19.96	0.00	3,587.42
MW - 7	04/15/09	3,607.38	-	19.95	0.00	3,587.43
MW - 7	04/21/09	3,607.38	-	19.98	0.00	3,587.40
MW - 7	04/27/09	3,607.38	-	19.96	0.00	3,587.42
MW - 7	05/14/09	3,607.38	-	19.36	0.00	3,588.02
MW - 7	06/10/09	3,607.38	-	20.01	0.00	3,587.37
MW - 7	07/01/09	3,607.38	-	19.87	0.00	3,587.51
MW - 7	07/10/09	3,607.38	-	19.88	0.00	3,587.50
MW - 7	07/15/09	3,607.38	-	19.90	0.00	3,587.48

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	07/21/09	3,607.38	-	19.91	0.00	3,587.47
MW - 7	07/29/09	3,607.38	-	20.00	0.00	3,587.38
MW - 7	07/30/09	3,607.38	-	20.04	0.00	3,587.34
MW - 7	08/06/09	3,607.38	-	19.83	0.00	3,587.55
MW - 7	08/07/09	3,607.38	-	20.03	0.00	3,587.35
MW - 7	08/10/09	3,607.38	-	19.82	0.00	3,587.56
MW - 7	08/17/09	3,607.38	-	18.84	0.00	3,588.54
MW - 7	08/27/09	3,607.38	-	19.73	0.00	3,587.65
MW - 7	08/31/09	3,607.38	-	19.71	0.00	3,587.67
MW - 7	09/11/09	3,607.38	-	19.78	0.00	3,587.60
MW - 7	09/17/09	3,607.38	-	19.80	0.00	3,587.58
MW - 7	09/24/09	3,607.38	-	19.81	0.00	3,587.57
MW - 7	09/29/09	3,607.38	-	20.04	0.00	3,587.34
MW - 7	09/30/09	3,607.38	-	19.84	0.00	3,587.54
MW - 7	10/06/09	3,607.38	-	20.04	0.00	3,587.34
MW - 7	10/20/09	3,607.38	-	19.87	0.00	3,587.51
MW - 7	10/27/09	3,607.38	-	19.88	0.00	3,587.50
MW - 7	11/05/09	3,607.38	-	19.94	0.00	3,587.44
MW - 7	11/05/09	3,607.38	-	19.94	0.00	3,587.44
MW - 7	11/20/09	3,607.38	-	19.95	0.00	3,587.43
MW - 7	12/04/09	3,607.38	-	19.96	0.00	3,587.42
MW - 7	12/18/09	3,607.38	-	19.95	0.00	3,587.43
MW - 7	01/12/10	3,607.38	-	19.96	0.00	3,587.42
MW - 7	02/05/10	3,607.38	-	20.01	0.00	3,587.37
MW - 7	03/01/10	3,607.38	-	20.02	0.00	3,587.36
MW - 7	04/15/10	3,607.38	-	20.06	0.00	3,587.32
MW - 7	05/03/10	3,607.38	-	19.94	0.00	3,587.44
MW - 7	06/07/10	3,607.38	-	19.96	0.00	3,587.42
MW - 7	06/25/10	3,607.38	-	20.06	0.00	3,587.32
MW - 7	07/16/10	3,607.38	-	19.03	0.00	3,588.35
MW - 7	07/30/10	3,607.38	-	19.13	0.00	3,588.25
MW - 7	08/09/10	3,607.38	-	19.17	0.00	3,588.21
MW - 7	08/20/10	3,607.38	-	19.22	0.00	3,588.16
MW - 7	09/10/10	3,607.38	-	19.20	0.00	3,588.18
MW - 7	09/24/10	3,607.38	-	19.26	0.00	3,588.12
MW - 7	10/08/10	3,607.38	-	19.40	0.00	3,587.98
MW - 7	11/08/10	3,607.38	-	19.19	0.00	3,588.19
MW - 7	11/19/10	3,607.38	-	19.53	0.00	3,587.85
MW - 7	12/03/10	3,607.38	-	19.58	0.00	3,587.80
MW - 7	12/17/10	3,607.38	-	19.22	0.00	3,588.16
MW - 7	02/07/11	3,607.38	-	19.23	0.00	3,588.15
MW - 7	05/16/11	3,607.38	-	19.24	0.00	3,588.14
MW - 7	08/08/11	3,607.38	-	19.22	0.00	3,588.16
MW - 7	11/11/11	3,607.38	-	20.05	0.00	3,587.11
MW - 8	01/17/00	3,607.99	-	20.55	0.00	3,587.44
MW - 8	04/10/00	3,607.99	-	20.68	0.00	3,587.31
MW - 8	08/31/00	3,607.99	-	20.26	0.00	3,587.73
MW - 8	12/18/00	3,607.99	-	20.46	0.00	3,587.53
MW - 8	03/13/01	3,607.99	-	20.46	0.00	3,587.53
MW - 8	05/30/01	3,607.99	-	20.46	0.00	3,587.53
MW - 8	09/12/01	3,607.99	-	20.63	0.00	3,587.36
MW - 8	11/17/01	3,607.99	-	20.64	0.00	3,587.35
MW - 8	02/12/02	3,607.99	-	20.68	0.00	3,587.31
MW - 8	05/15/02	3,607.99	-	20.62	0.00	3,587.37
MW - 8	09/12/02	3,607.99	-	20.68	0.00	3,587.31
MW - 8	11/18/02	3,607.99	-	20.51	0.00	3,587.48
MW - 8	02/17/03	3,607.99	-	20.64	0.00	3,587.35
MW - 8	05/19/03	3,607.99	-	20.70	0.00	3,587.29

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 8	08/25/03	3,607.99	-	20.93	0.00	3,587.06
MW - 8	11/21/03	3,607.99	-	20.93	0.00	3,587.06
MW - 8	02/23/04	3,607.99	-	20.94	0.00	3,587.05
MW - 8	05/13/04	3,607.99	-	19.86	0.00	3,588.13
MW - 8	08/26/04	3,607.99	-	20.48	0.00	3,587.51
MW - 8	12/13/04	3,607.99	-	17.81	0.00	3,590.18
MW - 8	03/14/05	3,607.99	-	19.10	0.00	3,588.89
MW - 8	06/24/05	3,607.99	-	19.62	0.00	3,588.37
MW - 8	09/08/05	3,607.99	-	19.61	0.00	3,588.38
MW - 8	12/01/05	3,607.99	-	19.85	0.00	3,588.14
MW - 8	03/07/06	3,607.99	-	20.04	0.00	3,587.95
MW - 8	06/07/06	3,607.99	-	20.18	0.00	3,587.81
MW - 8	09/12/06	3,607.99	-	18.14	0.00	3,589.85
MW - 8	12/13/06	3,607.99	-	19.06	0.00	3,588.93
MW - 8	03/16/07	3,607.99	-	19.68	0.00	3,588.31
MW - 8	05/16/07	3,607.99	-	19.81	0.00	3,588.18
MW - 8	08/20/07	3,607.99	-	19.94	0.00	3,588.05
MW - 8	11/27/07	3,607.99	-	20.01	0.00	3,587.98
MW - 8	02/22/08	3,607.99	-	20.15	0.00	3,587.84
MW - 8	05/30/08	3,607.99	-	20.24	0.00	3,587.75
MW - 8	08/22/08	3,607.99	-	20.28	0.00	3,587.71
MW - 8	11/13/08	3,607.99	-	20.06	0.00	3,587.93
MW - 8	02/12/09	3,607.99	-	20.21	0.00	3,587.78
MW - 8	05/14/09	3,607.99	-	20.36	0.00	3,587.63
MW - 8	08/06/09	3,607.99	-	20.11	0.00	3,587.88
MW - 8	11/05/09	3,607.99	-	20.21	0.00	3,587.78
MW - 8	01/12/10	3,607.99	-	20.23	0.00	3,587.76
MW - 8	02/05/10	3,607.99	-	20.28	0.00	3,587.71
MW - 8	05/03/10	3,607.99	-	20.21	0.00	3,587.78
MW - 8	08/09/10	3,607.99	-	19.25	0.00	3,588.74
MW - 8	11/08/10	3,607.99	-	19.24	0.00	3,588.75
MW - 8	02/07/11	3,607.99	-	19.23	0.00	3,588.76
MW - 8	05/16/11	3,607.99	-	19.22	0.00	3,588.77
MW - 8	08/08/11	3,607.99	-	19.20	0.00	3,588.79
MW - 8	11/11/11	3,607.99	-	20.38	0.00	3,586.78
MW - 9	11/04/04	3,606.83	-	18.68	0.00	3,588.15
MW - 9	11/10/04	3,606.83	-	18.70	0.00	3,588.13
MW - 9	03/14/05	3,606.83	-	18.87	0.00	3,587.96
MW - 9	06/24/05	3,606.83	-	19.13	0.00	3,587.70
MW - 9	09/08/05	3,606.83	-	19.13	0.00	3,587.70
MW - 9	12/01/05	3,606.83	-	19.27	0.00	3,587.56
MW - 9	03/07/06	3,606.83	-	19.42	0.00	3,587.41
MW - 9	06/07/06	3,606.83	-	19.54	0.00	3,587.29
MW - 9	09/12/06	3,606.83	-	18.07	0.00	3,588.76
MW - 9	12/13/06	3,606.83	-	18.54	0.00	3,588.29
MW - 9	03/16/07	3,606.83	-	19.14	0.00	3,587.69
MW - 9	05/16/07	3,606.83	-	19.21	0.00	3,587.62
MW - 9	08/20/07	3,606.83	-	19.34	0.00	3,587.49
MW - 9	11/27/07	3,606.83	-	19.39	0.00	3,587.44
MW - 9	02/22/08	3,606.83	-	19.52	0.00	3,587.31
MW - 9	05/30/08	3,606.83	-	19.57	0.00	3,587.26
MW - 9	08/22/08	3,606.83	-	19.61	0.00	3,587.22
MW - 9	11/13/08	3,606.83	-	19.43	0.00	3,587.40
MW - 9	02/12/09	3,606.83	-	19.64	0.00	3,587.19
MW - 9	05/14/09	3,606.83	-	20.74	0.00	3,586.09
MW - 9	08/06/09	3,606.83	-	19.44	0.00	3,587.39
MW - 9	11/05/09	3,606.83	-	19.54	0.00	3,587.29
MW - 9	11/05/09	3,606.83	-	19.54	0.00	3,587.29

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	01/12/10	3,606.83	-	19.56	0.00	3,587.27
MW - 9	02/05/10	3,606.83	-	19.59	0.00	3,587.24
MW - 9	05/03/10	3,606.83	-	19.55	0.00	3,587.28
MW - 9	08/09/10	3,606.83	-	18.92	0.00	3,587.91
MW - 9	11/08/10	3,606.83		18.91	0.00	3,587.92
MW - 9	02/07/11	3,606.83	-	18.93	0.00	3,587.90
MW - 9	05/16/11	3,606.83	-	18.91	0.00	3,587.92
MW - 9	08/08/11	3,606.83	-	18.88	0.00	3,587.95
MW - 9	11/11/11	3,606.83	-	19.66	0.00	3,587.17

Elevations based on the North America Vertical Datum of 1929.

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
 MONUMENT 17
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
NMOCD Regulatory Limit		0.0100	0.75	0.75	Total XYLENES	
					0.62	
MW - 1	09/10/99	0.0900	0.006	0.0160	0.0100	0.004
MW - 1	01/17/00	0.1530	0.008	0.0440	0.0160	0.006
MW - 1	04/10/00	0.0590	0.003	0.0020	0.0030	0.002
MW - 1	08/31/00	0.1320	0.002	<0.001	0.0010	0.001
MW - 1	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	03/13/01	0.0050	<0.001	<0.001	<0.001	<0.001
MW - 1	05/30/01	0.2010	<0.001	<0.001	<0.001	
MW - 1	09/12/01	0.1840	0.010	0.0270	0.0210	0.008
MW - 1	11/17/01	0.0440	0.001	<0.001	0.0010	0.002
MW - 1	02/12/02	0.0690	0.004	0.0170	0.0150	0.005
MW - 1	05/15/02	0.0950	0.005	0.0270	0.0200	0.005
MW - 1	09/12/02	0.2590	0.005	0.0170	0.0130	0.004
MW - 1	11/18/02	0.0100	<0.001	<0.001	<0.001	<0.001
MW - 1	02/17/03	0.0030	<0.001	<0.001	<0.001	<0.001
MW - 1	05/19/03	0.0600	0.002	0.0330	0.0140	0.003
MW - 1	08/25/03	0.0760	0.001	0.0280	0.0110	0.003
MW - 1	11/21/03	0.1450	0.004	0.0800	0.0250	0.006
MW - 1	02/23/04	0.0079	<0.001	0.0020	<0.002	<0.001
MW - 1	05/13/04	0.0281	<0.001	0.0047	0.0026	<0.001
MW - 1	08/26/04	0.0088	<0.001	<0.001	<0.002	<0.001
MW - 1	12/13/04	<0.001	<0.001	<0.001	<0.001	
MW - 1	03/14/05	0.0059	<0.001	<0.001	<0.001	
MW - 1	06/24/05	0.0413	<0.001	0.0168	0.0084	
MW - 1	09/08/05	0.0709	<0.001	0.0096	0.0082	
MW - 1	12/01/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	03/07/06	0.0279	<0.001	0.0106	0.0066	
MW - 1	06/06/06	0.0626	<0.001	0.0283	0.0157	
MW - 1	09/12/06	0.0370	<0.001	0.0281	0.0126	
MW - 1	12/13/06	0.0058	<0.001	<0.001	<0.001	
MW - 1	03/16/07	0.0294	<0.001	0.0079	0.0034	
MW - 1	05/16/07	0.0243	<0.001	0.0034	0.0027	
MW - 1	08/20/07	0.0349	<0.001	0.0251	0.0105	
MW - 1	11/27/07	0.0028	<0.001	0.0010	<0.001	
MW - 1	02/22/08	<0.005	<0.005	<0.005	<0.005	
MW - 1	05/30/08	0.0301	<0.001	0.0380	0.0160	
MW - 1	08/22/08	0.0431	<0.001	0.0110	0.0106	
MW - 1	11/13/08	0.0034	<0.001	<0.001	<0.001	
MW - 1	02/12/09	<0.001	<0.001	<0.001	<0.001	
MW - 1	05/14/09	0.0105	<0.001	0.0068	0.0126	
MW - 1	08/06/09	0.0073	<0.001	<0.001	<0.001	
MW - 1	11/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 1	02/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 1	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 1	08/09/10	0.0081	<0.001	<0.001	<0.001	
MW - 1	11/08/10	0.0077	<0.001	0.0064	<0.001	
MW - 1	02/07/11	<0.001	<0.001	<0.001	0.0198	

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
 MONUMENT 17
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 1	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 1	08/08/11	0.0145	<0.001	0.0069	<0.001	
MW - 1	11/11/11	0.0032	<0.001	<0.001	<0.001	
MW - 2	09/10/99	0.0170	0.003	0.0010	<0.001	<0.001
MW - 2	01/17/00	0.0020	<0.001	<0.001	<0.001	<0.001
MW - 2	04/10/00	0.0110	0.004	0.0010	0.0020	0.001
MW - 2	08/31/00	0.1070	0.005	0.0060	<0.001	<0.001
MW - 2	12/18/00	0.0030	<0.001	<0.001	<0.001	<0.002
MW - 2	03/13/01	0.0060	<0.001	<0.001	<0.001	<0.002
MW - 2	05/30/01	0.0050	<0.001	<0.001	<0.001	
MW - 2	09/12/01	0.0330	0.003	0.0030	0.0010	<0.001
MW - 2	11/17/01	0.0200	<0.001	<0.001	<0.001	<0.001
MW - 2	02/12/02	0.0200	0.001	0.0020	0.0010	<0.001
MW - 2	05/15/02	0.0390	0.003	0.0060	0.0020	<0.001
MW - 2	09/12/02	0.0460	0.001	0.0020	0.0010	<0.001
MW - 2	11/18/02	0.0060	<0.001	<0.001	<0.001	<0.001
MW - 2	02/17/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 2	05/19/03	0.0080	<0.001	<0.001	<0.001	<0.001
MW - 2	08/25/03	0.0500	0.006	0.0100	0.0110	0.004
MW - 2	11/21/03	0.1920	0.014	0.0260	0.0110	0.003
MW - 2	02/23/04	0.00463	<0.001	<0.001	<0.002	<0.001
MW - 2	05/13/04	0.0021	<0.001	<0.001	<0.002	<0.001
MW - 2	08/26/04	0.0071	<0.001	<0.001	<0.002	<0.001
MW - 2	12/13/04	0.00670	<0.001	<0.001	<0.001	
MW - 2	03/14/05	0.0180	<0.001	<0.001	<0.001	
MW - 2	06/24/05	0.00360	<0.001	<0.001	<0.001	
MW - 2	09/08/05	0.00750	<0.001	<0.001	<0.001	
MW - 2	12/01/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 2	03/07/06	0.0052	<0.001	<0.001	<0.001	
MW - 2	06/06/06	0.0045	<0.001	<0.001	<0.001	
MW - 2	09/12/06	0.0132	<0.001	0.00130	<0.001	
MW - 2	12/13/06	0.0022	<0.001	<0.001	<0.001	
MW - 2	03/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 2	05/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 2	08/20/07	0.1430	<0.001	<0.001	0.0104	
MW - 2	11/27/07	0.0041	<0.001	<0.001	<0.001	
MW - 2	02/22/08	0.0035	<0.001	<0.001	0.0011	
MW - 2	05/30/08	0.0122	<0.001	<0.001	0.001	
MW - 2	08/22/08	0.0467	<0.001	<0.001	0.00220	
MW - 2	11/13/08	0.0128	<0.001	<0.001	0.0012	
MW - 2	02/12/09	0.0037	<0.001	<0.001	<0.001	
MW - 2	05/14/09	0.0090	<0.001	<0.001	<0.001	
MW - 2	08/06/09	0.0162	<0.001	<0.001	<0.001	
MW - 2	11/05/09	0.0037	<0.001	<0.001	<0.001	
MW - 2	02/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 2	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 2	08/09/10	0.0013	<0.001	<0.001	<0.001	

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods: SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o- XYLENE
MW - 2	11/08/10	0.0156	<0.001	<0.001	<0.001	
MW - 2	02/07/11	<0.001	<0.001	<0.001	0.0191	
MW - 2	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 2	08/08/11	0.0428	<0.001	<0.001	<0.001	
MW - 2	11/11/11	0.0318	<0.001	<0.001	0.0022	
MW - 3	09/10/99	0.0320	0.003	0.0010	<0.001	<0.001
MW - 3	01/17/00	0.0050	0.002	<0.001	0.0020	<0.001
MW - 3	04/10/00	0.0330	0.005	0.0030	0.0030	0.002
MW - 3	08/31/00	0.0290	<0.001	0.0010	<0.001	<0.001
MW - 3	12/18/00	0.0280	0.002	0.0010	<0.001	<0.001
MW - 3	03/13/01	0.0040	<0.001	<0.001	<0.001	<0.001
MW - 3	05/30/01	0.0960	<0.001	<0.001	<0.001	
MW - 3	09/12/01	0.0080	<0.001	<0.001	<0.001	<0.001
MW - 3	11/17/01	0.0050	<0.001	<0.001	<0.001	<0.001
MW - 3	02/12/02	0.1370	0.011	0.0200	0.0100	0.001
MW - 3	05/15/02	0.0220	0.001	0.0020	<0.001	<0.001
MW - 3	09/12/02	0.0190	<0.001	<0.001	<0.001	<0.001
MW - 3	11/18/02	0.0080	<0.001	<0.001	<0.001	<0.001
MW - 3	02/17/03	0.0150	<0.001	<0.001	<0.001	<0.001
MW - 3	05/19/03	0.0140	<0.001	<0.001	<0.001	<0.001
MW - 3	08/25/03	0.0530	<0.001	0.0100	0.0060	<0.001
MW - 3	11/21/03	0.4090	0.045	0.0910	0.0550	0.010
MW - 3	02/23/04	0.0444	0.00355	0.0112	0.00576	<0.001
MW - 3	05/13/04	0.0338	<0.001	0.0092	<0.002	<0.001
MW - 3	08/26/04	0.0157	<0.001	<0.001	<0.002	<0.001
MW - 3	12/13/04	0.0598	<0.005	0.0362	<0.005	
MW - 3	03/14/05	0.00530	<0.001	0.00260	<0.001	
MW - 3	06/24/05	0.0308	<0.001	0.00400	<0.001	
MW - 3	09/08/05	0.0141	<0.001	0.00220	<0.001	
MW - 3	12/01/05	0.0275	<0.001	<0.001	<0.001	<0.001
MW - 3	03/07/06	0.0681	<0.001	0.00260	0.00180	
MW - 3	06/06/06	0.0212	<0.001	<0.001	<0.001	
MW - 3	09/12/06	0.168	<0.02	<0.02	<0.02	
MW - 3	12/13/06	0.0085	<0.005	<0.005	<0.005	
MW - 3	03/16/07	0.0078	<0.001	<0.001	<0.001	
MW - 3	05/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/20/07	0.0377	<0.001	<0.001	<0.001	
MW - 3	11/27/07	0.0089	<0.001	<0.001	<0.001	
MW - 3	02/22/08	0.0182	<0.001	<0.001	0.00150	
MW - 3	05/30/08	0.0329	<0.001	0.002	0.00170	
MW - 3	08/22/08	0.0084	<0.001	<0.001	<0.001	
MW - 3	11/13/08	0.0031	<0.001	<0.001	<0.001	
MW - 3	02/12/09	0.0121	<0.001	<0.001	<0.001	
MW - 3	05/14/09	0.0088	<0.001	<0.001	<0.001	
MW - 3	08/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 3	11/05/09	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/05/10	0.0030	<0.001	<0.001	<0.001	

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
 MONUMENT 17
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods: SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 3	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/09/10	0.0145	<0.001	0.0038	0.0041	
MW - 3	11/08/10	0.0141	<0.001	<0.001	<0.001	
MW - 3	02/07/11	0.0175	<0.001	<0.001	<0.001	
MW - 3	05/16/11	0.0100	<0.001	<0.001	<0.001	
MW - 3	08/08/11	0.0103	<0.001	<0.001	<0.001	
MW - 3	11/11/11	0.0166	<0.001	<0.001	<0.001	
MW - 4	09/10/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	01/17/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	04/10/00	<0.001	<0.001	<0.001	0.0010	<0.001
MW - 4	08/31/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	03/13/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	05/30/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	09/12/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	11/17/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	02/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	05/15/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	09/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	11/18/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	02/17/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	05/19/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	08/25/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	11/21/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 4	02/23/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 4	12/13/04	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	03/14/05	Not Sampled on Current Sample Schedule				
MW - 4	06/24/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	09/08/05	Not Sampled on Current Sample Schedule				
MW - 4	12/01/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	03/07/06	Not Sampled on Current Sample Schedule				
MW - 4	06/06/06	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	09/12/06	Not Sampled on Current Sample Schedule				
MW - 4	12/13/06	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	03/16/07	Not Sampled on Current Sample Schedule				
MW - 4	05/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	08/20/07	Not Sampled on Current Sample Schedule				
MW - 4	11/27/07	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	05/30/08	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	11/13/08	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	02/12/09	Not Sampled on Current Sample Schedule				
MW - 4	05/14/09	<0.001	<0.001	0.0066	<0.001	<0.001
MW - 4	08/06/09	Not Sampled on Current Sample Schedule				
MW - 4	11/05/09	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	05/03/10	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	11/08/10	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	02/07/11	Not Sampled on Current Sample Schedule				

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
 MONUMENT 17
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods: SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 4	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 4	08/08/11	Not Sampled on Current Sample Schedule				
MW - 4	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 5	09/10/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	01/17/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	04/10/00	<0.001	<0.001	<0.001	0.0010	<0.001
MW - 5	08/31/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	03/13/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	05/30/01	0.0050	<0.001	<0.001	<0.001	
MW - 5	09/12/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	11/17/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	02/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	05/15/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	09/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	11/18/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	02/17/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	05/19/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	08/25/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	11/21/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 5	02/23/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 5	12/13/04	0.00120	<0.001	<0.001	<0.001	
MW - 5	03/14/05	Not Sampled on Current Sample Schedule				
MW - 5	06/24/05	Not Sampled on Current Sample Schedule				
MW - 5	09/08/05	Not Sampled on Current Sample Schedule				
MW - 5	12/01/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	03/07/06	Not Sampled on Current Sample Schedule				
MW - 5	06/06/06	Not Sampled on Current Sample Schedule				
MW - 5	09/12/06	Not Sampled on Current Sample Schedule				
MW - 5	12/13/06	<0.001	<0.001	<0.001	<0.001	
MW - 5	03/16/07	Not Sampled on Current Sample Schedule				
MW - 5	05/16/07	Not Sampled on Current Sample Schedule				
MW - 5	08/20/07	Not Sampled on Current Sample Schedule				
MW - 5	11/27/07	<0.001	<0.001	<0.001	<0.001	
MW - 5	11/13/08	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/12/09	Not Sampled on Current Sample Schedule				
MW - 5	05/14/09	Not Sampled on Current Sample Schedule				
MW - 5	08/06/09	Not Sampled on Current Sample Schedule				
MW - 5	11/05/09	<0.001	<0.001	<0.001	<0.001	
MW - 5	11/08/10	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/07/11	Not Sampled on Current Sample Schedule				
MW - 5	05/16/11	Not Sampled on Current Sample Schedule				
MW - 5	08/08/11	Not Sampled on Current Sample Schedule				
MW - 5	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 6	09/10/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	01/17/00	<0.001	<0.001	<0.001	<0.001	<0.001

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
 MONUMENT 17
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 6	04/10/00	<0.001	<0.001	<0.001	0.0010	<0.001
MW - 6	08/31/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	03/13/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	05/30/01	<0.005	<0.005	<0.005	<0.005	
MW - 6	09/12/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	11/17/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	02/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	05/15/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	09/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	11/18/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	02/17/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	05/19/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	08/25/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	11/21/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 6	02/23/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 6	12/13/04	<0.005	<0.005	<0.005	<0.005	
MW - 6	03/14/05	Not Sampled on Current Sample Schedule				
MW - 6	06/24/05	<0.001	<0.001	<0.001	<0.001	
MW - 6	09/08/05	Not Sampled on Current Sample Schedule				
MW - 6	09/13/05	Plugged and Abandoned				
MW - 7	11/18/02	0.0010	<0.001	<0.001	<0.001	<0.001
MW - 7	01/10/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	02/17/03	0.0010	<0.001	<0.001	<0.001	<0.001
MW - 7	05/19/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	11/21/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 7	05/13/04	0.0335	<0.001	0.0136	<0.002	<0.001
MW - 7	08/26/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 7	12/13/04	<0.005	<0.005	<0.005	<0.005	
MW - 7	03/14/05	<0.005	<0.005	<0.005	<0.005	
MW - 7	06/24/05	0.0129	<0.005	<0.005	<0.005	
MW - 7	09/08/05	Not Sampled				
MW - 7	12/01/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	03/07/06	<0.001	<0.001	0.0012	<0.001	
MW - 7	06/06/06	<0.001	<0.001	<0.001	<0.001	
MW - 7	09/12/06	<0.001	<0.001	<0.001	<0.001	
MW - 7	12/13/06	<0.001	<0.001	<0.001	<0.001	
MW - 7	03/16/07	0.0016	<0.001	<0.001	<0.001	
MW - 7	05/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/27/07	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/26/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/30/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/22/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/13/08	0.0013	<0.001	<0.001	<0.001	
MW - 7	02/12/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/14/09	<0.001	<0.001	<0.001	<0.001	

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
 MONUMENT 17
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p -XYLENES	o-XYLENE
MW - 7	08/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/05/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/09/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/08/10	0.0047	<0.001	<0.001	<0.001	
MW - 7	02/07/11	<0.001	<0.001	<0.001	0.0188	
MW - 7	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/08/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	09/10/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	01/17/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	04/10/00	<0.001	<0.001	0.0010	0.0010	<0.001
MW - 8	08/31/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	03/13/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	05/30/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	09/12/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	11/17/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	02/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	05/15/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	09/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	11/18/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	02/17/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	05/19/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	08/25/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	11/21/03	0.0050	<0.001	0.0020	<0.002	<0.001
MW - 8	02/23/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 8	12/13/04	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	03/14/05	Not Sampled on Current Sample Schedule				
MW - 8	06/24/05	Not Sampled on Current Sample Schedule				
MW - 8	09/08/05	Not Sampled on Current Sample Schedule				
MW - 8	12/01/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	03/07/06	Not Sampled on Current Sample Schedule				
MW - 8	06/06/06	Not Sampled on Current Sample Schedule				
MW - 8	09/12/06	Not Sampled on Current Sample Schedule				
MW - 8	12/13/06	<0.001	<0.001	<0.001	<0.001	
MW - 8	03/16/07	Not Sampled on Current Sample Schedule				
MW - 8	05/16/07	Not Sampled on Current Sample Schedule				
MW - 8	08/20/07	Not Sampled on Current Sample Schedule				
MW - 8	11/27/07	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/13/08	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/12/09	Not Sampled on Current Sample Schedule				
MW - 8	05/14/09	Not Sampled on Current Sample Schedule				
MW - 8	08/06/09	Not Sampled on Current Sample Schedule				
MW - 8	11/05/09	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/08/10	<0.001	<0.001	<0.001	<0.001	

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
 MONUMENT 17
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods: SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 8	02/07/11	Not Sampled on Current Sample Schedule				
MW - 8	05/16/11	Not Sampled on Current Sample Schedule				
MW - 8	08/08/11	Not Sampled on Current Sample Schedule				
MW - 8	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/10/04	<0.001	<0.001	<0.001	<0.001	
MW - 9	03/14/05	<0.001	<0.001	<0.001	<0.001	
MW - 9	06/24/05	<0.001	<0.001	<0.001	<0.001	
MW - 9	09/08/05	<0.001	<0.001	<0.001	<0.001	
MW - 9	12/01/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 9	03/07/06	<0.001	<0.001	<0.001	<0.001	
MW - 9	06/06/06	<0.001	<0.001	<0.001	0.0036	
MW - 9	09/12/06	0.1300	0.035	0.0203	0.0293	
MW - 9	12/13/06	0.0121	<0.001	<0.001	<0.001	
MW - 9	03/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/27/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/22/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/30/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	8/22/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/13/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/12/09	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/14/09	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/05/09	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/09/10	<0.005	<0.005	<0.005	<0.005	
MW - 9	11/08/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/07/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/08/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/11/11	<0.001	<0.001	<0.001	<0.001	