1R - 103

Annual GW Mon. Report

Year: 2011

2011
ANNUAL MONITORING REPORT

LF-59
LEA COUNTY, NEW MEXICO
NW ¼ SW ¼ SECTION 32, TOWNSHIP 19 SOUTH, RANGE 37 EAST
PLAINS SRS NUMBER: TNM-LF-59
NMOCD FILE NUMBER: 1R-0103

Prepared For:

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

NOVA
safety and environmental

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

RECEIVED

MAR 26 2012

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

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

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

Dear Mr. Hansen:

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

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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FIGURES

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ENCLOSED ON DATA DISK

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 were assumed by NOVA. The LF-59 Pipeline Release Site (the site), which was formerly the responsibility of Enron Oil Trading and Transportation (EOTT), is now the responsibility of Plains. The Release Notification and Corrective Action Form (C-141) is provided as Appendix A. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2011 only. However, 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 sampled as per a NMOCD directive.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The LF-59 Site occurred as two separate releases of unknown volumes on unknown dates. The release occurred from an 8-inch pipeline and was attributed to structural failure associated with internal pipeline corrosion. Approximately 6,900 cubic yards of impacted soil was excavated, sorted, shredded and combined with fertilizer to enhance bioremediation rates. Approximately 550 cubic yards of caliche rock was also stockpiled on-site as a result of the previously referenced soil treatment activity. The soil was spread onto an on-site treatment cell for aeration in March 2003. Soil in the treatment cell was sampled for baseline concentrations of Total Petroleum Hydrocarbon (TPH) and Benzene, Toluene, Ethyl-benzene and Xylene (BTEX) constituent concentrations using EPA Methods 8015M and 8260b, respectively. The treatment cell was resampled on September 7, 2005. Analytical results of this sampling event indicate Total Petroleum Hydrocarbons (TPH) concentrations had decreased to levels ranging between <50 to 115 mg/Kg total TPH.

A *Soil Closure Strategy and Site Restoration Work Plan* (Work Plan) was submitted to the NMOCD in July 2006. The Work Plan proposed soil remediation activities intended to progress the site toward an NMOCD approved closure.

On September 20, 2007, Plains received approval from the NMOCD to commence the activities outlined in the Work Plan. Following the completion of the soil remediation activities, a *Soil Closure Request* dated February 2010 was submitted to the NMOCD for approval. On February 19, 2010, Plains received an email from the NMOCD approving the *Soil Closure Request* at the LF-59 release site.

In a correspondence dated August 23, 2010, the NMOCD approved the plugging of monitor well MW-6. On March 21, 2011, Plains properly plugged and abandoned MW-6 and a letter report documenting the activities was submitted to the NMOCD on April 19, 2011.

As required by the NMOCD, groundwater monitoring and sampling has continued at the site.

Currently, seven groundwater monitor wells (MW-1 through MW-5, MW-7 and MW-8) are on-site.

FIELD ACTIVITIES

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.

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

The site monitor wells were gauged and sampled on the following dates: February 10, May 4, August 3, 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 Maps. 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 0.021 feet/foot to the southwest as measured between groundwater monitor wells MW-5 and MW-7. This is consistent with data presented on Figures 2A through 2C from earlier in the year. The corrected groundwater elevations ranged between 3,546.47 and 3,553.71 feet above mean sea level, in MW-7 on November 11, 2011 and MW-5 on August 3, 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-4 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 0.0242 mg/L during the 1st quarter to 0.0880 mg/L during the 3rd quarter of the reporting period. Benzene concentrations were above the NMOCD regulatory standard of 0.01 mg/L during all four quarters of 2011. Toluene, ethyl-benzene and xylene 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. 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 2nd, 3rd and 4th quarters to 0.007 mg/L during the 1st quarter of the reporting period. Benzene concentrations were below the NMOCD regulatory standards during all four quarters of 2011. Toluene concentrations ranged from <0.001 mg/L during the 2nd, 3rd and 4th quarters to 0.007 mg/L during the 1st quarter of the reporting period. Toluene concentrations were below NMOCD regulatory standards during the all four quarters of the reporting period. Ethyl-benzene concentrations were below the NMOCD regulatory standards during all four quarters of 2011. Xylene concentrations ranged from <0.001 mg/L during the 2nd, 3rd and 4th quarters to 0.0197 mg/L during the 1st quarter of the reporting period. Xylene concentrations were below NMOCD regulatory standards 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 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-three consecutive quarters. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-4 is sampled on a quarterly schedule and analytical results indicate benzene, toluene and ethyl-benzene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 2nd, 3rd and 4th quarters to 0.0195 mg/L during the 1st quarter of the reporting period. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

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-three consecutive quarters. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-6 was plugged and abandoned on March 21, 2011.

Monitor well MW-7 is sampled on a semi-annual schedule. Analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standard for each constituent during the 2nd and 4th quarter sampling events. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last thirty consecutive quarters. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-8 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-five consecutive quarters. 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 monitoring activities for the 2011 annual monitoring period. Seven groundwater monitor wells (MW-1 through MW-5, MW-7 and MW-8) are currently on-site. Monitor well MW-6 was plugged and abandoned on March 21, 2011. During the reporting period, no measurable thickness of PSH was detected in any of the site monitor wells.

The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.021 feet/foot to the southwest as measured between groundwater monitor wells MW-5 and MW-7. This is consistent with data presented on Figures 2A through 2C from earlier in the year.

A review of the laboratory analytical results for groundwater samples collected from monitor well MW-1 indicates benzene concentrations have fluctuated trend above the NMOCD regulatory standard during all four quarters of the reporting period and toluene, ethylbenzene and xylene concentrations were below NMOCD regulatory standards. Groundwater samples collected from the remaining six monitor wells exhibited BTEX constituent concentrations below the NMOCD regulatory standard during all four quarters of the reporting period.

Review of PAH analysis indicates constituent concentrations in monitor well MW-4 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-7 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 2001 and the analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last thirty consecutive quarters.

- Monitor well MW-8 is currently sampled on a quarterly schedule. Plains proposes to modify the schedule to a semi-annual schedule. This up-gradient monitor well was installed during the 4th quarter 2005 and the analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-five consecutive quarters.

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-4.

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

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

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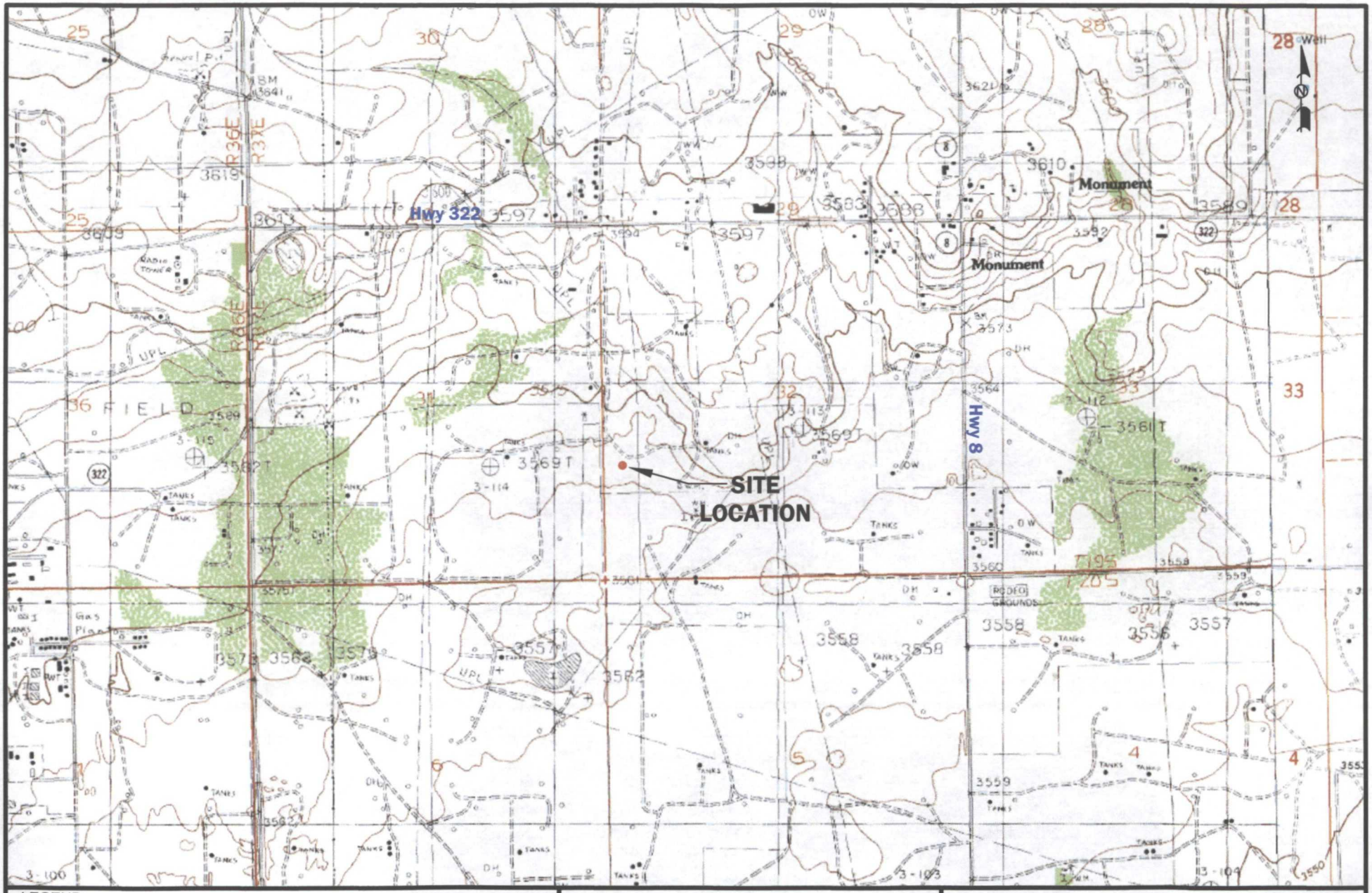
rrounsaville@novatraining.cc

Figures



LEGEND:

2000 1000 0 1000 2000

Distance in Feet

NMOCD Reference #1R-0103

Figure 1
Site Location Map
LF-59
Plains Marketing, L.P.
Lea County, NM

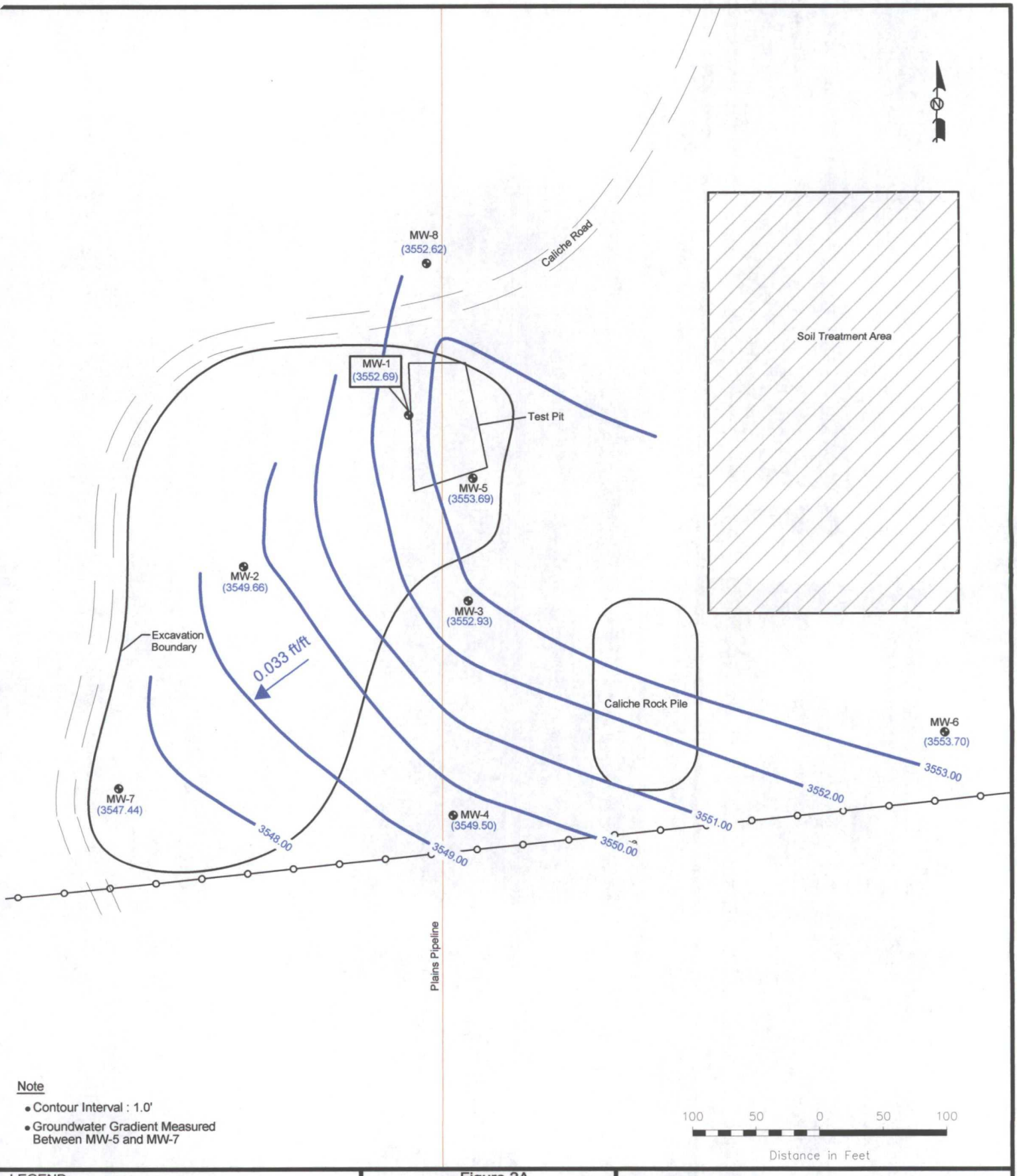
NOVA safety and environmental

2057 Commerce Drive
Midland, Texas 79703
432.520.7720

www.novasafetyandenvironmental.com

February 28, 2011	Scale: 1" = 2000'	CAD By: TA	Checked By: RKR

LATITUDE & LONGITUDE COORDINATES: N 32° 36' 50.1" W 103° 16' 47.6"



Note

- Contour Interval : 1.0'
- Groundwater Gradient Measured Between MW-5 and MW-7

LEGEND:

- Monitor Well Location
- Pipeline
- (3547.11) Groundwater Elevation in Feet
- Groundwater Elevation Contour Line
- 0.001 ft/ft Groundwater Gradient and Magnitude

Figure 2A
Inferred Groundwater Gradient Map
(2/10/11)
NMOCD Reference # 1R-0103
Plains Marketing, L.P.
LF-59
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

February 28, 2010	Scale: 1" = 100'	CAD By: TA	Checked By: RKR
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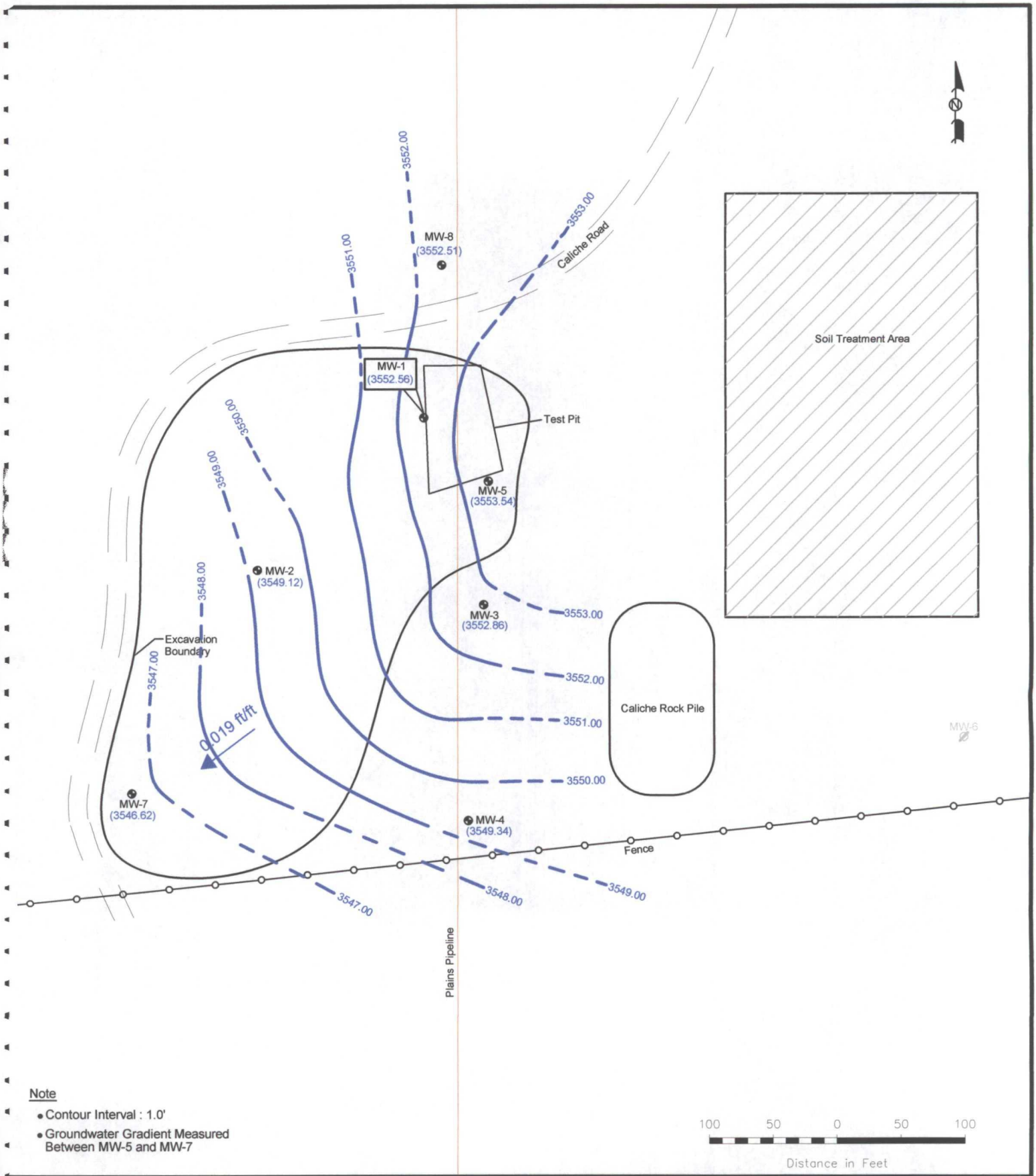

Note

- Contour Interval : 1.0'
- Groundwater Gradient Measured Between MW-5 and MW-7

LEGEND:

- Monitor Well Location
- Plugged and Abandoned Well
- Pipeline
- (3547.11) Groundwater Elevation in Feet
- Groundwater Elevation Contour Line
- 0.001 ft/ft Groundwater Gradient and Magnitude

Figure 2B
Inferred Groundwater Gradient Map
(5/4/11)
NMOCD Reference # 1R-0103
Plains Marketing, L.P.
LF-59
Lea County, NM

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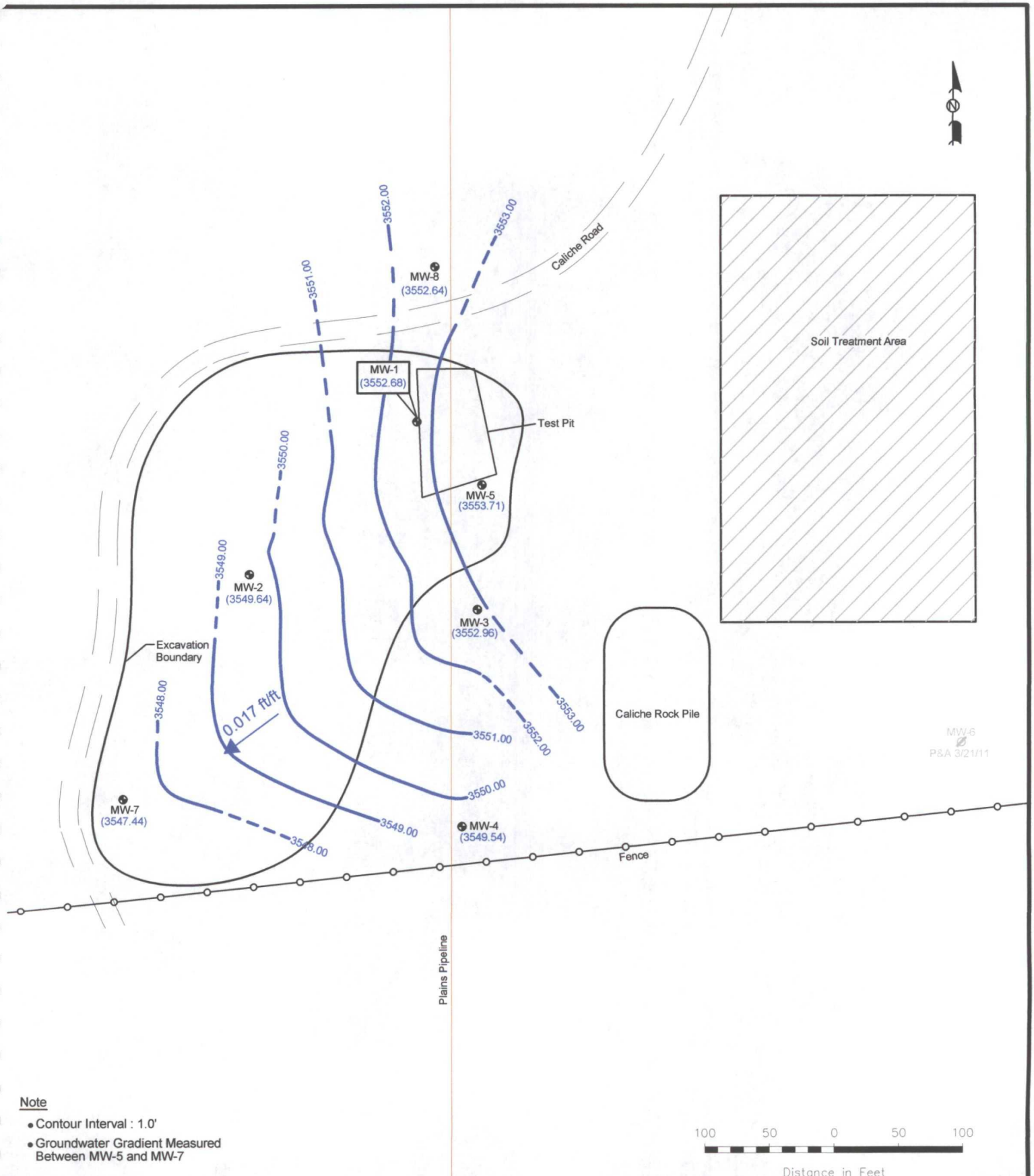
June 1, 2010	Scale: 1" = 100'	CAD By: TA	Checked By: RKR
Lat. N 32° 36' 50.1" Long. W 103° 16' 47.6"			NW1/4 SW1/4 Sec 32 T19S R37E



Note

- Contour Interval : 1.0'
- Groundwater Gradient Measured Between MW-5 and MW-7

LEGEND:

- Monitor Well Location
- Plugged and Abandoned Well
- Pipeline
- (3547.11) Groundwater Elevation in Feet
- Groundwater Elevation Contour Line
- 0.001 ft/ft Groundwater Gradient and Magnitude

Figure 2C
Inferred Groundwater Gradient Map (8/3/11)
NMOCD Reference # 1R-0103
Plains Marketing, L.P.
LF-59
Lea County, NM

NOVA safety and environmental
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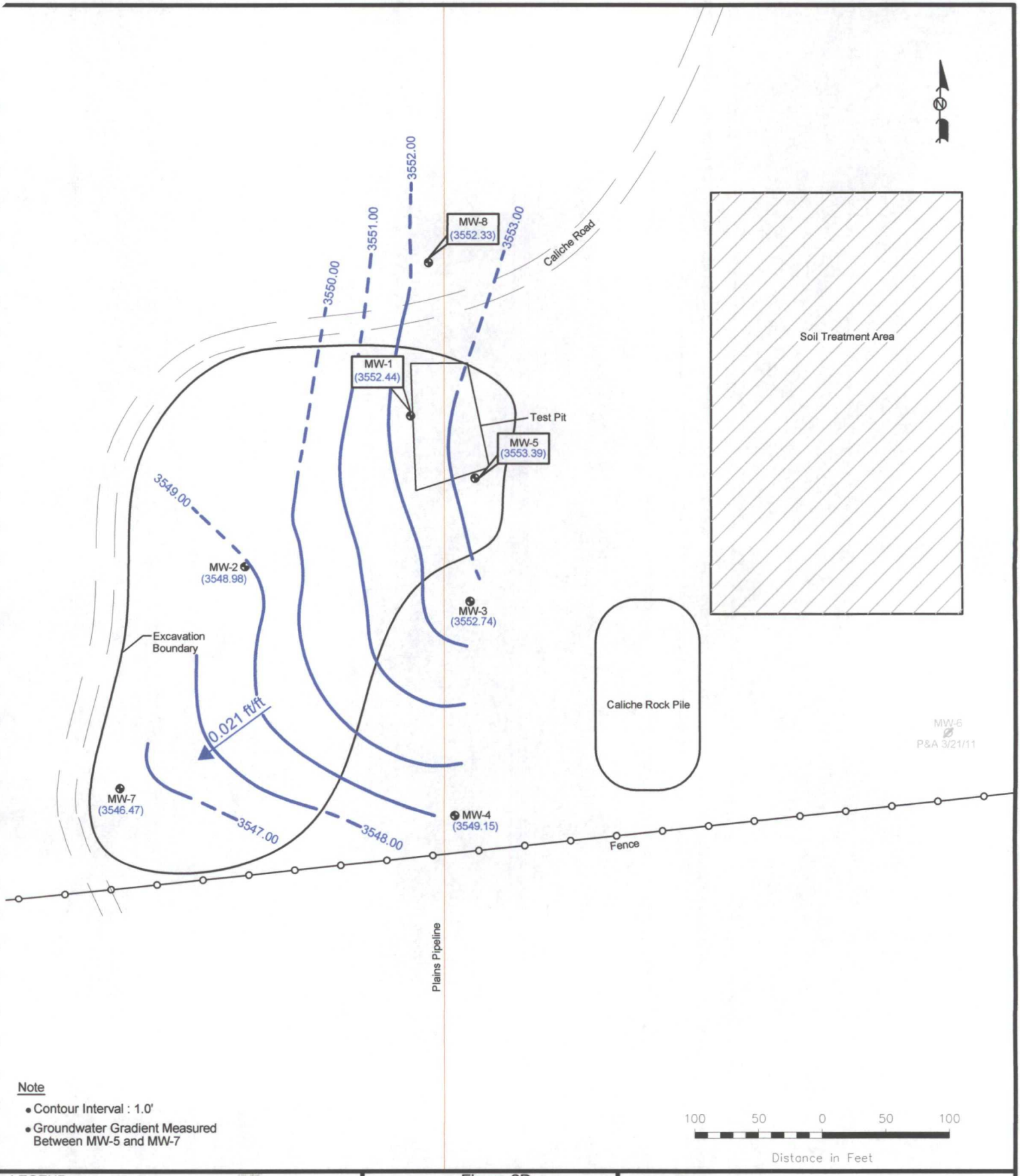
September 13, 2010	Scale: 1" = 100'	CAD By: TA	Checked By: RKR
Lat. N 32° 36' 50.1" Long. W 103° 16' 47.6"			NW1/4 SW1/4 Sec 32 T19S R37E



Note

- Contour Interval : 1.0'
- Groundwater Gradient Measured Between MW-5 and MW-7

LEGEND:

- Monitor Well Location
- Plugged and Abandoned Well
- Pipeline
- (3547.11) Groundwater Elevation in Feet
- Groundwater Elevation Contour Line
- 0.001 ft/ft Groundwater Gradient and Magnitude

Figure 2D
Inferred Groundwater Gradient Map
(11/11/2011)
NMOCD Reference # 1R-0103
Plains Marketing, L.P.
LF-59
Lea County, NM

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November 17, 2011	Scale: 1" = 100'	CAD By: TA	Checked By: RKR
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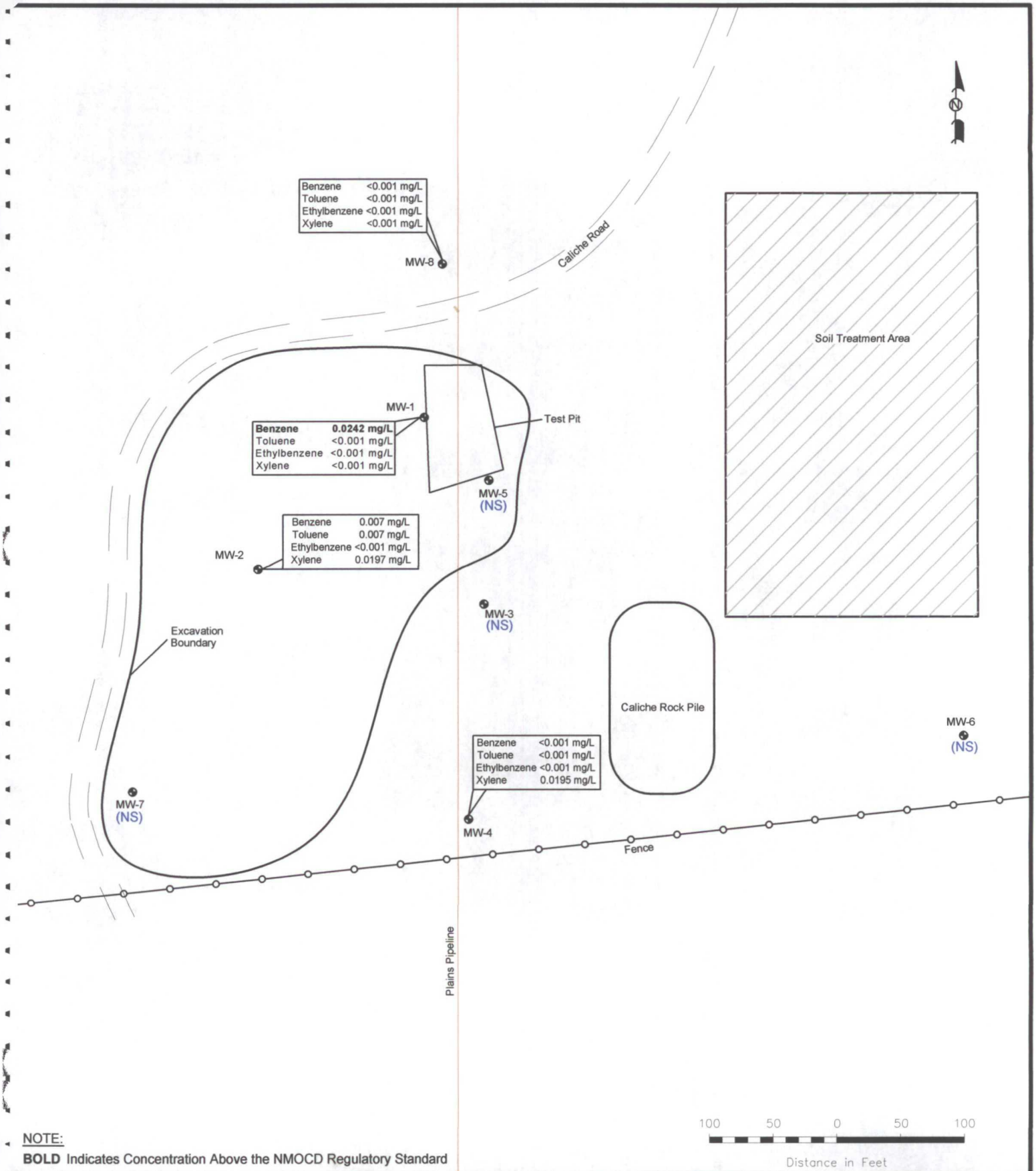

NOTE:

BOLD Indicates Concentration Above the NMOCD Regulatory Standard

LEGEND:

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

Figure 3A
Groundwater Concentration
Inferred PSH Extent
Map (2/10/11)
NMOCD Reference # 1R-0103
Plains Marketing, L.P.
LF-59
Lea County, NM

NOVA safety and environmental

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Midland, Texas 79703
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April 1, 2011	Scale: 1" = 100'	CAD By: TA	Checked By: RKR

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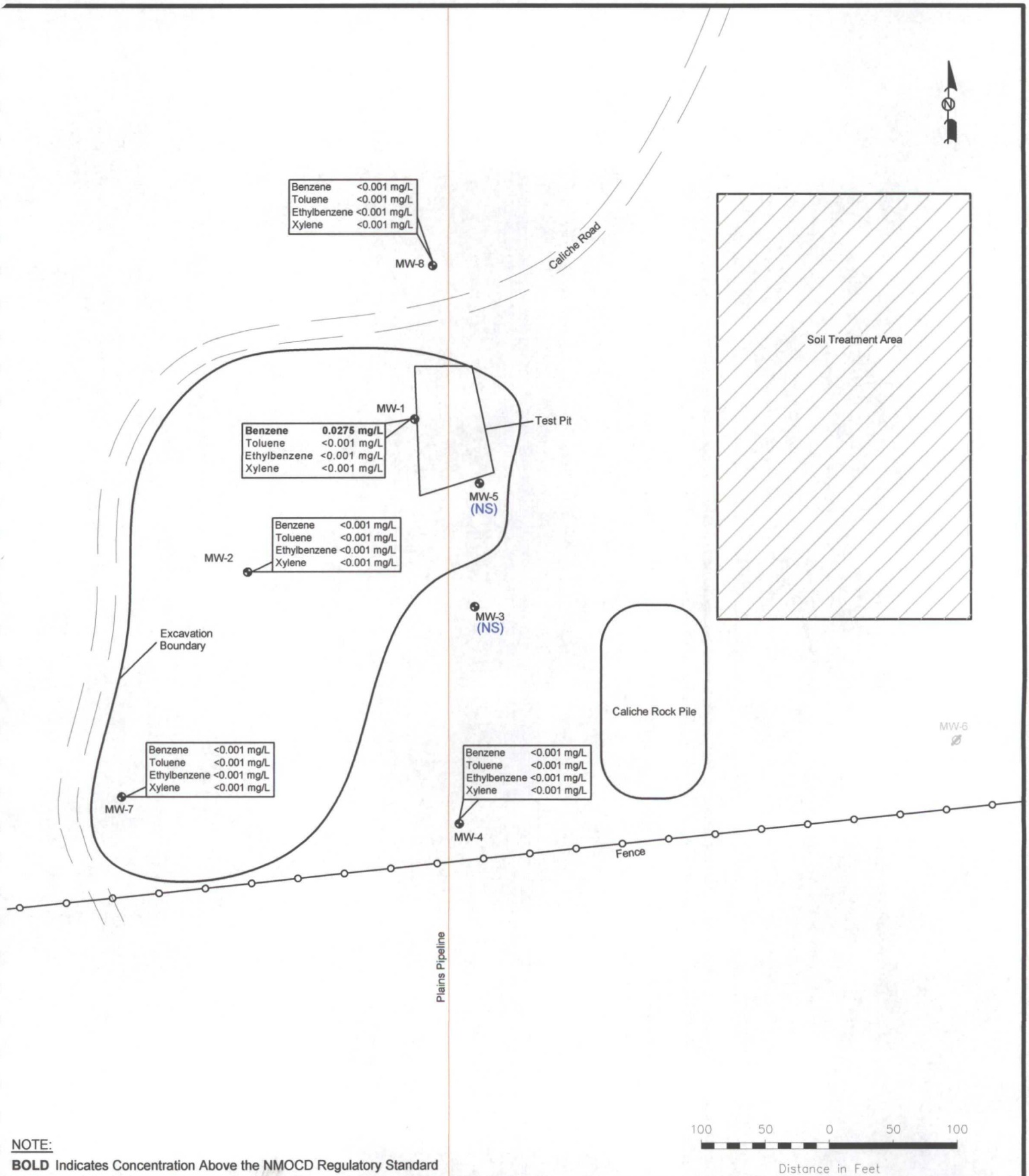

NOTE:

BOLD Indicates Concentration Above the NMOCD Regulatory Standard

LEGEND:

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

Figure 3B
Groundwater Concentration
Inferred PSH Extent
Map (5/4/11)
NMOCD Reference # 1R-0103
Plains Marketing, L.P.
LF-59
Lea County, NM

NOVA safety and environmental

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June 1, 2011	Scale: 1" = 100'	CAD By: TA	Checked By: RKR
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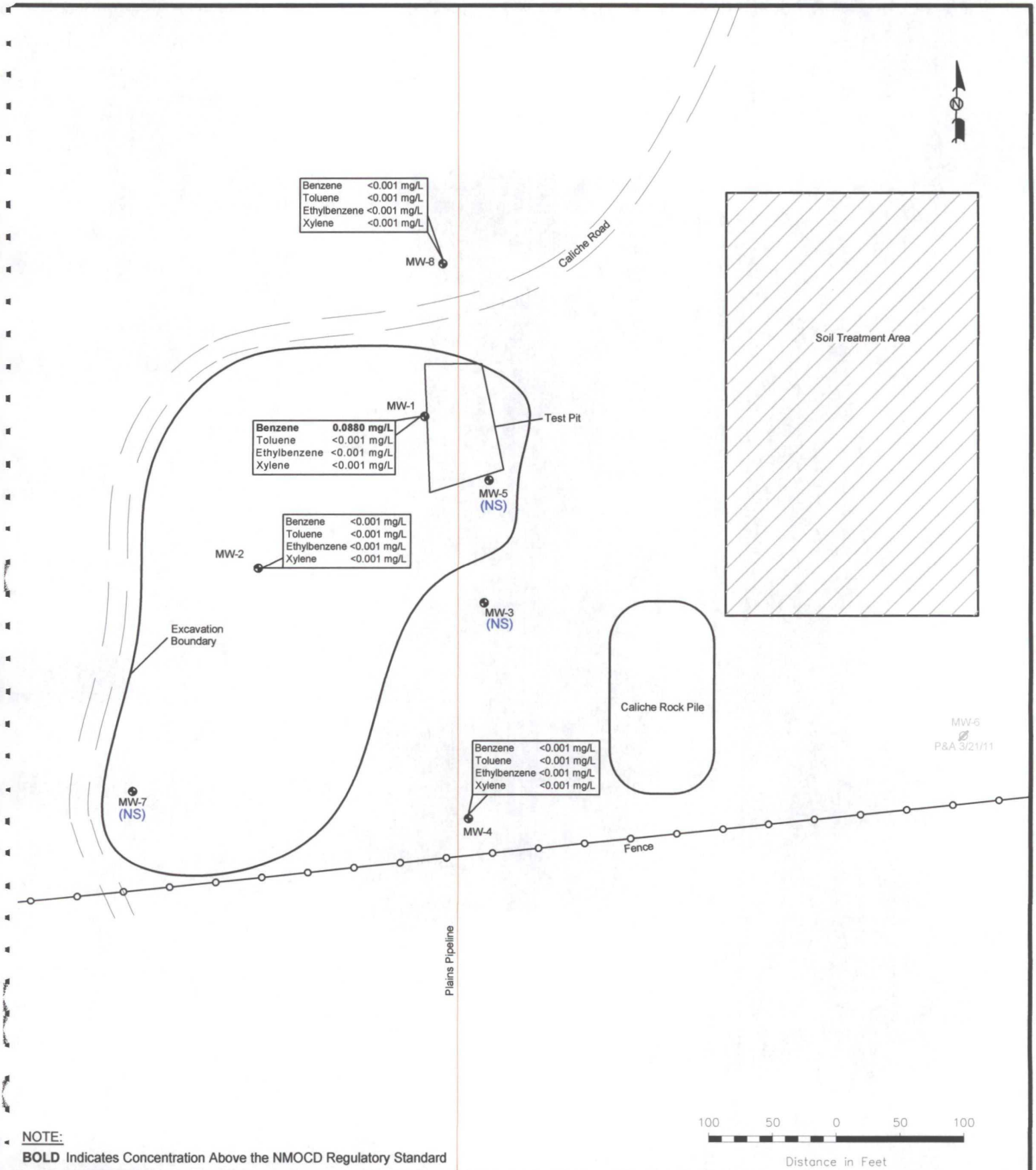

NOTE:

BOLD Indicates Concentration Above the NMOCD Regulatory Standard

LEGEND:

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

Figure 3C
Groundwater Concentration
Inferred PSH Extent
Map (8/3/11)
NMOCD Reference # 1R-0103
Plains Marketing, L.P.
LF-59
Lea County, NM

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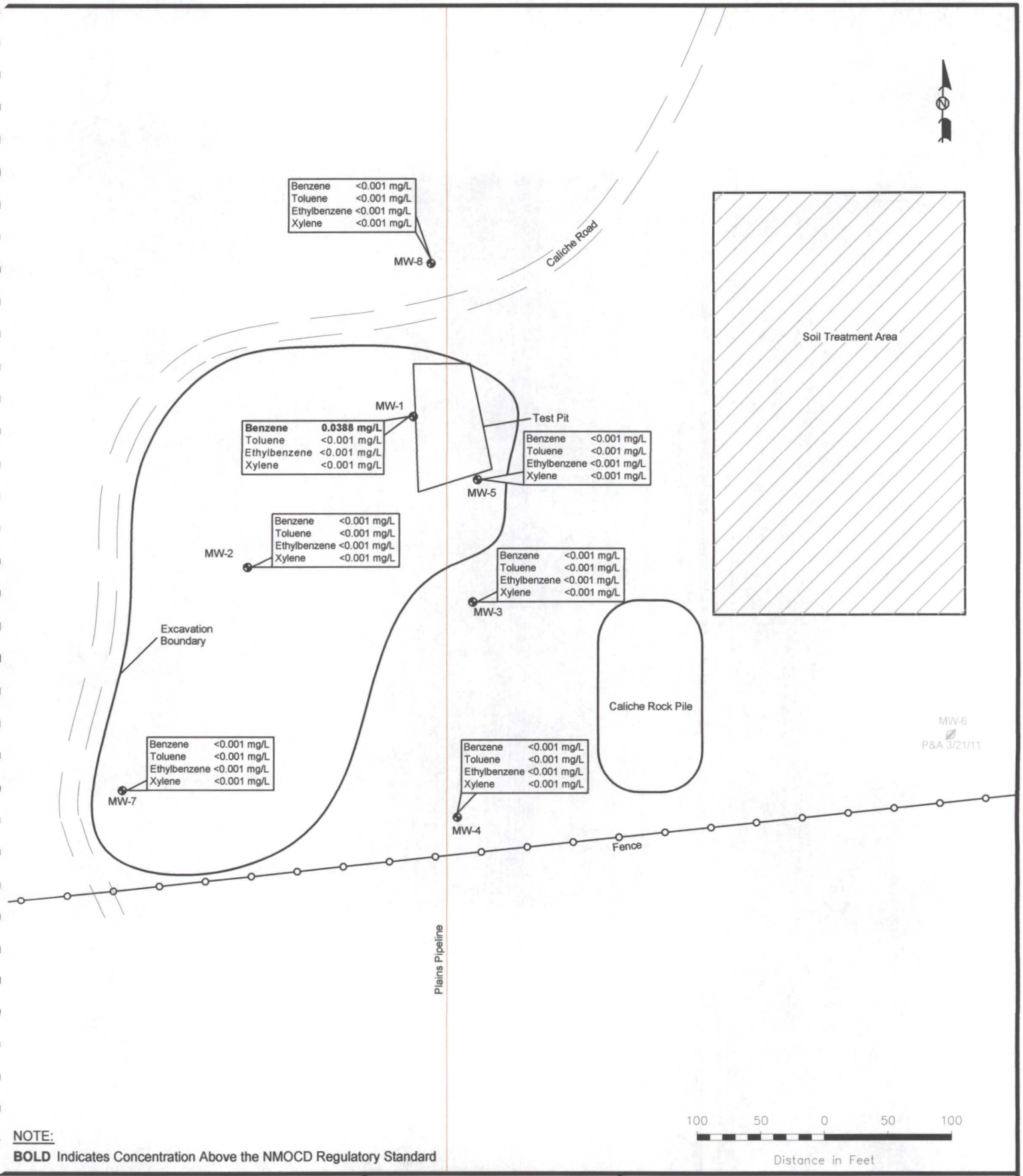

NOTE:

BOLD Indicates Concentration Above the NMOCD Regulatory Standard

LEGEND:

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

Figure 3D
Groundwater Concentration
Inferred PSH Extent
Map (11/11/2011)
NMOCD Reference # 1R-0103
Plains Marketing, L.P.
LF-59
Lea County, NM

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November 17, 2011	Scale: 1" = 100'	CAD By: TA	Checked By: RKR
Lat. N 32° 36' 50.1" Long. W 103° 16' 47.6"	NW1/4 SW1/4 Sec 32 T19S R37E		

Tables

TABLE 1

GROUNDWATER ELEVATION DATA - 2011

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	*02/10/11*	3,572.21	-	19.52	0.00	3,552.69
MW - 1	*05/04/11*	3,572.21	-	19.65	0.00	3,552.56
MW - 1	05/26/11	3,572.21	-	19.68	0.00	3,552.53
MW - 1	06/09/11	3,572.21	-	19.69	0.00	3,552.52
MW - 1	06/13/11	3,572.21	-	19.65	0.00	3,552.56
MW - 1	06/29/11	3,572.21	-	19.70	0.00	3,552.51
MW - 1	07/07/11	3,572.21	-	19.71	0.00	3,552.50
MW - 1	07/08/11	3,572.21	-	19.54	0.00	3,552.67
MW - 1	08/01/11	3,572.21	-	19.68	0.00	3,552.53
MW - 1	*08/03/11*	3,572.21	-	19.53	0.00	3,552.68
MW - 1	09/12/11	3,572.21	-	19.80	0.00	3,552.41
MW - 1	10/31/11	3,572.21	-	20.00	0.00	3,552.21
MW - 1	*11/11/11*	3,572.21	-	19.77	0.00	3,552.44
MW - 2	*02/10/11*	3,571.46	-	21.80	0.00	3,549.66
MW - 2	*05/04/11*	3,571.46	-	22.34	0.00	3,549.12
MW - 2	*08/03/11*	3,571.46	-	21.82	0.00	3,549.64
MW - 2	*11/11/11*	3,571.46	-	22.48	0.00	3,548.98
MW - 3	*02/10/11*	3,573.46	-	20.53	0.00	3,552.93
MW - 3	*05/04/11*	3,573.46	-	20.60	0.00	3,552.86
MW - 3	*08/03/11*	3,573.46	-	20.50	0.00	3,552.96
MW - 3	*11/11/11*	3,573.46	-	20.72	0.00	3,552.74
MW - 4	*02/10/11*	3,570.15	-	20.65	0.00	3,549.50
MW - 4	*05/04/11*	3,570.15	-	20.81	0.00	3,549.34
MW - 4	*08/03/11*	3,570.15	-	20.61	0.00	3,549.54
MW - 4	*11/11/11*	3,570.15	-	21.00	0.00	3,549.15
MW - 5	*02/10/11*	3,572.92	-	19.23	0.00	3,553.69
MW - 5	*05/04/11*	3,572.92	-	19.38	0.00	3,553.54
MW - 5	*08/03/11*	3,572.92	-	19.21	0.00	3,553.71
MW - 5	*11/11/11*	3,572.92	-	19.53	0.00	3,553.39
MW - 6	*02/10/11*	3,572.11	-	18.41	0.00	3,553.70
MW - 6	*05/04/11*	**WELL PLUGGED & ABANDONED**				
MW - 7	*02/10/11*	3,569.75	-	22.31	0.00	3,547.44
MW - 7	*05/04/11*	3,569.75	-	23.13	0.00	3,546.62
MW - 7	*08/03/11*	3,569.75	-	22.31	0.00	3,547.44
MW - 7	*11/11/11*	3,569.75	-	23.28	0.00	3,546.47
MW - 8	*02/10/11*	3,573.59	-	20.97	0.00	3,552.62
MW - 8	*05/04/11*	3,573.59	-	21.08	0.00	3,552.51
MW - 8	*08/03/11*	3,573.59	-	20.95	0.00	3,552.64
MW - 8	*11/11/11*	3,573.59	-	21.26	0.00	3,552.33

* *Complete Historical Tables are provided on the attached CD.*

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER - 2011

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o-XYLENE
NMOCD Regulatory Limit		**0.01**	**0.75**	**0.75**	**0.62**	
MW - 1	02/10/11	**0.0242**	<0.001	<0.001	<0.001	
MW - 1	05/04/11	**0.0275**	<0.001	<0.001	<0.001	
MW - 1	08/03/11	**0.0880**	<0.001	<0.001	<0.001	
MW - 1	11/11/11	**0.0388**	<0.001	<0.001	<0.001	
MW - 2	02/10/11	0.007	0.007	<0.001	0.0197	
MW - 2	05/04/11	<0.001	<0.001	<0.001	<0.001	
MW - 2	08/03/11	<0.001	<0.001	<0.001	<0.001	
MW - 2	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/10/11	Not Sampled on Current Sample Schedule				
MW - 3	05/04/11	Not Sampled on Current Sample Schedule				
MW - 3	08/03/11	Not Sampled on Current Sample Schedule				
MW - 3	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/10/11	<0.001	<0.001	<0.001	0.0195	
MW - 4	05/04/11	<0.001	<0.001	<0.001	<0.001	
MW - 4	08/03/11	<0.001	<0.001	<0.001	<0.001	
MW - 4	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/10/11	Not Sampled on Current Sample Schedule				
MW - 5	05/04/11	Not Sampled on Current Sample Schedule				
MW - 5	08/03/11	Not Sampled on Current Sample Schedule				
MW - 5	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 6	03/21/11	Well Plugged and Abandoned				
MW - 7	02/10/11	Not Sampled on Current Sample Schedule				
MW - 7	05/04/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/03/11	Not Sampled on Current Sample Schedule				
MW - 7	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/10/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/04/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/03/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	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.
TNM LF-59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

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	11/07/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.0006	<0.000183	0.000691	<0.000183	0.00214	0.00479	0.00232	<0.000183
	11/09/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-2	11/07/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/09/09	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/07/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/09/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-4	11/07/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	**0.00207**	<0.000185	**0.00103**	<0.000185	0.000684	0.00413	0.000546	0.00128
	11/09/09	<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	0.00078	<0.000184	<0.000184	0.00173	<0.000184	<0.000184
	11/01/10	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	<0.000183
MW-5	11/07/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/09/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/07/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/09/09	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
	11/01/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM LF-59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

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-8	11/07/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/09/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/01/10	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)

811 South First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

Oil Conservation Division

2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

STATE Byrd LF. 1999-59

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: EOTT Energy Pipeline	Contact: Lennah Frost
Address: PO Box 1660	Telephone No.: 915/6843467
Facility Name:	Facility Type: Pipeline

Surface Owner	Mineral Owner	Lease No.
State of New Mexico		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	32	19S	37E					Lea

NATURE OF RELEASE

Type of Release: Crude oil	Volume of Release: 260 bbls / Volume Recovered: 200 bbls
Source of Release: Crude oil Pipeline	Date and Hour of Occurrence: 7/18/99 1pm / Date and Hour of Discovery: 7/18/99 1PM
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required	If YES, To Whom? Chris Williams
By Whom? Lennah Frost	Date and Hour: 7/18/99 - 2:30p
Was a Watercourse Reached? ☐ Yes ☒ No	If Yes, Volume Impacting the Watercourse:

If a Watercourse was Impacted, Describe Fully. (Attach Additional Sheets If Necessary)

Describe Cause of Problem and Remedial Action Taken. (Attach Additional Sheets If Necessary)
Internal Corrosion - Leak Clamped off will replace pipe ASAP

Describe Area Affected and Cleanup Action Taken. (Attach Additional Sheets If Necessary)
Spill occurred in a previously remediated site. Will evaluate for clean up this week

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: Lennah Frost	OIL CONSERVATION DIVISION
Printed Name: Lennah Frost	Approved by District Supervisor:
Title: Sr. Env. Eng	Approval Date: / Expiration Date:
Date: 7-20-99 Phone: 915/6843467	Conditions of Approval: / Attached ☐

Laboratory Analytical Reports

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 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 **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

E-mail Reports
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: February 25, 2011

Work Order: 11021112

Project Location: West of Monument/New Mexico
Project Name: LF-59
Project Number: TNM-LF-59

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
257186	MW-8	water	2011-02-10	14:30	2011-02-11
257187	MW-2	water	2011-02-10	15:15	2011-02-11
257188	MW-4	water	2011-02-10	16:00	2011-02-11
257189	MW-1	water	2011-02-10	16:45	2011-02-11

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

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

Standard Flags

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

Samples for project LF-59 were received by TraceAnalysis, Inc. on 2011-02-11 and assigned to work order 11021112. Samples for work order 11021112 were received intact without headspace and at a temperature of 3.2 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	66588	2011-02-15 at 09:20	77636	2011-02-15 at 09:20
BTEX	S 8021B	66778	2011-02-23 at 14:15	77860	2011-02-24 at 14:44

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 11021112 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: 257186 - MW-8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	77860	Date Analyzed:	2011-02-24	Analyzed By:	ME
Prep Batch:	66778	Sample Preparation:	2011-02-23	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)		0.0969	mg/L	1	0.100	97	75.4 - 119.4
4-Bromofluorobenzene (4-BFB)		0.120	mg/L	1	0.100	120	78.6 - 122.8

Sample: 257187 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	77636	Date Analyzed:	2011-02-15	Analyzed By:	ME
Prep Batch:	66588	Sample Preparation:	2011-02-15	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00700**	mg/L	1	0.00100
Toluene		**0.00700**	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		**0.0197**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.112	mg/L	1	0.100	112	75.4 - 119.4
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	78.6 - 122.8

Sample: 257188 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	77636	Date Analyzed:	2011-02-15	Analyzed By:	ME
Prep Batch:	66588	Sample Preparation:	2011-02-15	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		**0.0195**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	75.4 - 119.4
4-Bromofluorobenzene (4-BFB)		0.0902	mg/L	1	0.100	90	78.6 - 122.8

Sample: 257189 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	77636	Date Analyzed:	2011-02-15	Analyzed By:	ME
Prep Batch:	66588	Sample Preparation:	2011-02-15	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0242**	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)		0.108	mg/L	1	0.100	108	75.4 - 119.4
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	78.6 - 122.8

Method Blank (1) QC Batch: 77636

QC Batch:	77636	Date Analyzed:	2011-02-15	Analyzed By:	ME
Prep Batch:	66588	QC Preparation:	2011-02-15	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)		0.0985	mg/L	1	0.100	98	70.8 - 117.4
4-Bromofluorobenzene (4-BFB)		0.110	mg/L	1	0.100	110	79 - 113.4

Method Blank (1) QC Batch: 77860

QC Batch: 77860 | Date Analyzed: 2011-02-24 | Analyzed By: ME
Prep Batch: 66778 | QC Preparation: 2011-02-23 | 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)		0.0890	mg/L	1	0.100	89	70.8 - 117.4
4-Bromofluorobenzene (4-BFB)		0.113	mg/L	1	0.100	113	79 - 113.4

Laboratory Control Spike (LCS-1)

QC Batch: 77636 | Date Analyzed: 2011-02-15 | Analyzed By: ME
Prep Batch: 66588 | QC Preparation: 2011-02-15 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.103	mg/L	1	0.100	<0.000400	103	76.8 - 110.3
Toluene	0.103	mg/L	1	0.100	<0.000300	103	81 - 108.2
Ethylbenzene	0.104	mg/L	1	0.100	<0.000300	104	78.8 - 111
Xylene	0.313	mg/L	1	0.300	<0.000333	104	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	0	20
Toluene	0.102	mg/L	1	0.100	<0.000300	102	81 - 108.2	1	20
Ethylbenzene	0.103	mg/L	1	0.100	<0.000300	103	78.8 - 111	1	20
Xylene	0.310	mg/L	1	0.300	<0.000333	103	80.3 - 111.4	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.110	0.105	mg/L	1	0.100	110	105	66.6 - 114.5
4-Bromofluorobenzene (4-BFB)	0.111	0.112	mg/L	1	0.100	111	112	77.1 - 114.4

Laboratory Control Spike (LCS-1)

QC Batch: 77860 | Date Analyzed: 2011-02-24 | Analyzed By: ME
Prep Batch: 66778 | QC Preparation: 2011-02-23 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0934	mg/L	1	0.100	<0.000400	93	76.8 - 110.3
Toluene	0.0931	mg/L	1	0.100	<0.000300	93	81 - 108.2
Ethylbenzene	0.0925	mg/L	1	0.100	<0.000300	92	78.8 - 111
Xylene	0.279	mg/L	1	0.300	<0.000333	93	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	0.0930	mg/L	1	0.100	<0.000400	93	76.8 - 110.3	0	20
Toluene	0.0935	mg/L	1	0.100	<0.000300	94	81 - 108.2	0	20
Ethylbenzene	0.0925	mg/L	1	0.100	<0.000300	92	78.8 - 111	0	20
Xylene	0.280	mg/L	1	0.300	<0.000333	93	80.3 - 111.4	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0889	0.0867	mg/L	1	0.100	89	87	66.6 - 114.5
4-Bromofluorobenzene (4-BFB)	0.112	0.114	mg/L	1	0.100	112	114	77.1 - 114.4

Matrix Spike (MS-1) Spiked Sample: 257094

QC Batch: 77636 | Date Analyzed: 2011-02-15 | Analyzed By: ME
Prep Batch: 66588 | QC Preparation: 2011-02-15 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	5.57	mg/L	50	5.00	0.9667	92	68.2 - 119.3
Toluene	4.87	mg/L	50	5.00	<0.0150	97	74.6 - 110.8
Ethylbenzene	5.75	mg/L	50	5.00	1.1717	92	71.6 - 111.9
Xylene	14.6	mg/L	50	15.0	1.2756	89	71.3 - 113.4

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	5.85	mg/L	50	5.00	0.9667	98	68.2 - 119.3	5	20
Toluene	5.04	mg/L	50	5.00	<0.0150	101	74.6 - 110.8	3	20
Ethylbenzene	5.91	mg/L	50	5.00	1.1717	95	71.6 - 111.9	3	20
Xylene	15.1	mg/L	50	15.0	1.2756	92	71.3 - 113.4	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)	5.07	5.26	mg/L	50	5	101	105	68.2 - 110.1
4-Bromofluorobenzene (4-BFB)	5.27	5.37	mg/L	50	5	105	107	78.7 - 116.2

Standard (CCV-2)

QC Batch: 77636 Date Analyzed: 2011-02-15 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	0.107	107	80 - 120	2011-02-15
Toluene		mg/L	0.100	0.107	107	80 - 120	2011-02-15
Ethylbenzene		mg/L	0.100	0.103	103	80 - 120	2011-02-15
Xylene		mg/L	0.300	0.309	103	80 - 120	2011-02-15

Standard (CCV-3)

QC Batch: 77636 Date Analyzed: 2011-02-15 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	0.101	101	80 - 120	2011-02-15
Toluene		mg/L	0.100	0.103	103	80 - 120	2011-02-15
Ethylbenzene		mg/L	0.100	0.101	101	80 - 120	2011-02-15
Xylene		mg/L	0.300	0.301	100	80 - 120	2011-02-15

Standard (CCV-1)

QC Batch: 77860 Date Analyzed: 2011-02-24 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	2011-02-24

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/L	0.100	0.0954	95	80 - 120	2011-02-24
Ethylbenzene		mg/L	0.100	0.0947	95	80 - 120	2011-02-24
Xylene		mg/L	0.300	0.287	96	80 - 120	2011-02-24

Standard (CCV-2)

QC Batch: 77860 Date Analyzed: 2011-02-24 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	0.0925	92	80 - 120	2011-02-24
Toluene		mg/L	0.100	0.0933	93	80 - 120	2011-02-24
Ethylbenzene		mg/L	0.100	0.0920	92	80 - 120	2011-02-24
Xylene		mg/L	0.300	0.279	93	80 - 120	2011-02-24

TRACEANALYSIS, INC.

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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: May 10, 2011

Work Order: 11050502

Project Location: West of Monument/New Mexico
Project Name: LF-59
Project Number: TNM-LF-59

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
265588	MW 7	water	2011-05-04	11:30	2011-05-05
265589	MW 8	water	2011-05-04	11:45	2011-05-05
265590	MW 2	water	2011-05-04	11:53	2011-05-05
265591	MW 4	water	2011-05-04	12:08	2011-05-05
265592	MW 1	water	2011-05-04	12:17	2011-05-05

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.

Michael Abel

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

Report Contents

Case Narrative

Samples for project LF-59 were received by TraceAnalysis, Inc. on 2011-05-05 and assigned to work order 11050502. Samples for work order 11050502 were received intact without headspace and at a temperature of 3.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	68782	2011-05-06 at 14:42	81036	2011-05-07 at 00:18

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 11050502 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: 265588 - MW 7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	81036	Date Analyzed:	2011-05-07	Analyzed By:	ME
Prep Batch:	68782	Sample Preparation:	2011-05-06	Prepared By:	ME

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0996	mg/L	1	0.100	100	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0929	mg/L	1	0.100	93	51.1 - 128

Sample: 265589 - MW 8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	81036	Date Analyzed:	2011-05-07	Analyzed By:	ME
Prep Batch:	68782	Sample Preparation:	2011-05-06	Prepared By:	ME

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.102	mg/L	1	0.100	102	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0952	mg/L	1	0.100	95	51.1 - 128

Sample: 265590 - MW 2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	81036	Date Analyzed:	2011-05-07	Analyzed By:	ME
Prep Batch:	68782	Sample Preparation:	2011-05-06	Prepared By:	ME

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.102	mg/L	1	0.100	102	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0969	mg/L	1	0.100	97	51.1 - 128

Sample: 265591 - MW 4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	81036	Date Analyzed:	2011-05-07	Analyzed By:	ME
Prep Batch:	68782	Sample Preparation:	2011-05-06	Prepared By:	ME

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.105	mg/L	1	0.100	105	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0970	mg/L	1	0.100	97	51.1 - 128

Sample: 265592 - MW 1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	81036	Date Analyzed:	2011-05-07	Analyzed By:	ME
Prep Batch:	68782	Sample Preparation:	2011-05-06	Prepared By:	ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	**0.0275**	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		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	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.104	mg/L	1	0.100	104	51.1 - 128

Method Blanks

Method Blank (1) QC Batch: 81036

QC Batch: 81036 | Date Analyzed: 2011-05-07 | Analyzed By: ME
Prep Batch: 68782 | QC Preparation: 2011-05-06 | 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)			0.0982	mg/L	1	0.100	98	70.2 - 118
4-Bromofluorobenzene (4-BFB)			0.0916	mg/L	1	0.100	92	47.3 - 116

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 81036 | Date Analyzed: 2011-05-07 | Analyzed By: ME
Prep Batch: 68782 | QC Preparation: 2011-05-06 | Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0994	mg/L	1	0.100	<0.000400	99	76.8 - 110
Toluene		1	0.0999	mg/L	1	0.100	<0.000300	100	81 - 108
Ethylbenzene		1	0.101	mg/L	1	0.100	<0.000300	101	78.8 - 118
Xylene		1	0.305	mg/L	1	0.300	<0.000333	102	80.3 - 119

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.103	mg/L	1	0.100	<0.000400	103	76.8 - 110	4	20
Toluene		1	0.105	mg/L	1	0.100	<0.000300	105	81 - 108	5	20
Ethylbenzene		1	0.106	mg/L	1	0.100	<0.000300	106	78.8 - 118	5	20
Xylene		1	0.322	mg/L	1	0.300	<0.000333	107	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)	0.0999	0.101	mg/L	1	0.100	100	101	66.6 - 114
4-Bromofluorobenzene (4-BFB)	0.102	0.105	mg/L	1	0.100	102	105	68.2 - 124

Matrix Spike (MS-1) Spiked Sample: 265703

QC Batch: 81036 | Date Analyzed: 2011-05-07 | Analyzed By: ME
Prep Batch: 68782 | QC Preparation: 2011-05-06 | Prepared By: ME

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	12.1	mg/L	50	5.00	7.6654	89	77.9 - 114
Toluene		1	5.43	mg/L	50	5.00	0.5529	98	78.3 - 111
Ethylbenzene		1	5.46	mg/L	50	5.00	<0.0150	109	75.3 - 110
Xylene		1	16.2	mg/L	50	15.0	1.3093	99	75.7 - 109

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	12.0	mg/L	50	5.00	7.6654	87	77.9 - 114	1	20
Toluene		1	5.34	mg/L	50	5.00	0.5529	96	78.3 - 111	2	20
Ethylbenzene		1	5.45	mg/L	50	5.00	<0.0150	109	75.3 - 110	0	20
Xylene		1	16.0	mg/L	50	15.0	1.3093	98	75.7 - 109	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)	4.79	4.87	mg/L	50	5	96	97	68.3 - 107
4-Bromofluorobenzene (4-BFB)	5.02	4.77	mg/L	50	5	100	95	60.1 - 135

Calibration Standards

Standard (CCV-1)

QC Batch: 81036 | Date Analyzed: 2011-05-07 | 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	0.0972	97	80 - 120	2011-05-07
Toluene		1	mg/L	0.100	0.100	100	80 - 120	2011-05-07
Ethylbenzene		1	mg/L	0.100	0.102	102	80 - 120	2011-05-07
Xylene		1	mg/L	0.300	0.309	103	80 - 120	2011-05-07

Standard (CCV-2)

QC Batch: 81036 | Date Analyzed: 2011-05-07 | 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	0.0980	98	80 - 120	2011-05-07
Toluene		1	mg/L	0.100	0.101	101	80 - 120	2011-05-07
Ethylbenzene		1	mg/L	0.100	0.100	100	80 - 120	2011-05-07
Xylene		1	mg/L	0.300	0.302	101	80 - 120	2011-05-07

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 then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
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 # 11050502

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
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200 East Sunset Rd., Suite E
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Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

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

Company Name: Nova
Phone #:
Address: (Street, City, Zip) 2057 Commerce Drive
Fax #:
Contact Person: Ron Rousseau
E-mail:
Invoice to:
(If different from above)
Project #: TNM-LF-59
Project Name: LF-59
Project Location (including state): Monument, NM
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, SO4, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
265588	MW7	3	VOA	X				X				X		5/4/11	1130		X																						
589	MW 8	3	VOA	X				X				X		5/4/11	1145		X																						
590	MW 2	3	VOA	X				X				X		5/4/11	1153		X																						
591	MW 4	3	VOA	X				X				X		5/4/11	1208		X																						
592	MW 1	3	VOA	X				X				X		5/4/11	1217		X																						

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	Nova	5/5/11	0819		TA	5/5/11	0819	INST ___ OBS 3.0 °C COR 3.0 °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ___ OBS ___ °C COR ___ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ___ OBS ___ °C COR ___ °C

LAB USE ONLY
Intact (Y) N
Headspace Y (N) NA
Log-In-Review

REMARKS:
* All tests - Midland

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

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

Carrier # Courier

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TRACEANALYSIS, INC.

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5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
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 8, 2011

Work Order: 11080426

Project Location: West of Monument, New Mexico
Project Name: LF-59
Project Number: TNM-LF-59

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
273694	MW-8	water	2011-08-03	13:30	2011-08-04
273695	MW-2	water	2011-08-03	14:15	2011-08-04
273696	MW-4	water	2011-08-03	15:00	2011-08-04
273697	MW-1	water	2011-08-03	15:45	2011-08-04

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

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

Report Contents

Case Narrative

Samples for project LF-59 were received by TraceAnalysis, Inc. on 2011-08-04 and assigned to work order 11080426. Samples for work order 11080426 were received intact without headspace and at a temperature of 1.3 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	71050	2011-08-05 at 10:38	83654	2011-08-05 at 19:08

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 11080426 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: 273694 - MW-8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	83654	Date Analyzed:	2011-08-05	Analyzed By:	ME
Prep Batch:	71050	Sample Preparation:	2011-08-05	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)			0.102	mg/L	1	0.100	102	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0979	mg/L	1	0.100	98	67.5 - 140.8

Sample: 273695 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	83654	Date Analyzed:	2011-08-05	Analyzed By:	ME
Prep Batch:	71050	Sample Preparation:	2011-08-05	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)			0.0974	mg/L	1	0.100	97	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0946	mg/L	1	0.100	95	67.5 - 140.8

Sample: 273696 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	83654	Date Analyzed:	2011-08-05	Analyzed By:	ME
Prep Batch:	71050	Sample Preparation:	2011-08-05	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)			0.105	mg/L	1	0.100	105	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.102	mg/L	1	0.100	102	67.5 - 140.8

Sample: 273697 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	83654	Date Analyzed:	2011-08-05	Analyzed By:	ME
Prep Batch:	71050	Sample Preparation:	2011-08-05	Prepared By:	ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	**0.0880**	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)			0.108	mg/L	1	0.100	108	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.108	mg/L	1	0.100	108	67.5 - 140.8

Method Blanks

Method Blank (1) QC Batch: 83654

QC Batch: 83654 | Date Analyzed: 2011-08-05 | Analyzed By: ME
Prep Batch: 71050 | QC Preparation: 2011-08-05 | 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)			0.0997	mg/L	1	0.100	100	61.1 - 118.4
4-Bromofluorobenzene (4-BFB)			0.0991	mg/L	1	0.100	99	45.9 - 126.4

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 83654 | Date Analyzed: 2011-08-05 | Analyzed By: ME
Prep Batch: 71050 | QC Preparation: 2011-08-05 | Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.101	mg/L	1	0.100	<0.000400	101	88 - 116.8
Toluene		1	0.0978	mg/L	1	0.100	<0.000300	98	90.9 - 122.2
Ethylbenzene		1	0.0908	mg/L	1	0.100	<0.000300	91	72.7 - 120.2
Xylene		1	0.272	mg/L	1	0.300	<0.000333	91	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.101	mg/L	1	0.100	<0.000400	101	88 - 116.8	0	20
Toluene		1	0.0976	mg/L	1	0.100	<0.000300	98	90.9 - 122.2	0	20
Ethylbenzene		1	0.0906	mg/L	1	0.100	<0.000300	91	72.7 - 120.2	0	20
Xylene		1	0.271	mg/L	1	0.300	<0.000333	90	72.1 - 121.5	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0982	0.0915	mg/L	1	0.100	98	92	61.9 - 119.2
4-Bromofluorobenzene (4-BFB)	0.102	0.0947	mg/L	1	0.100	102	95	56.4 - 127.9

Matrix Spike (MS-1) Spiked Sample: 273701

QC Batch: 83654 | Date Analyzed: 2011-08-05 | Analyzed By: ME
Prep Batch: 71050 | QC Preparation: 2011-08-05 | Prepared By: ME

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.131	mg/L	1	0.100	0.0373	94	66.9 - 128.2
Toluene		1	0.101	mg/L	1	0.100	<0.000300	101	81.6 - 122.9
Ethylbenzene		1	0.0968	mg/L	1	0.100	0.0112	86	62.7 - 117.9
Xylene		1	0.278	mg/L	1	0.300	0.024	85	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	0.146	mg/L	1	0.100	0.0373	109	66.9 - 128.2	11	20
Toluene		1	0.104	mg/L	1	0.100	<0.000300	104	81.6 - 122.9	3	20
Ethylbenzene		1	0.102	mg/L	1	0.100	0.0112	91	62.7 - 117.9	5	20
Xylene		1	0.289	mg/L	1	0.300	0.024	88	62.9 - 118.2	4	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)	0.114	0.113	mg/L	1	0.1	114	113	58.6 - 119.7
4-Bromofluorobenzene (4-BFB)	0.117	0.118	mg/L	1	0.1	117	118	52.2 - 135.8

Calibration Standards

Standard (CCV-1)

QC Batch: 83654 | Date Analyzed: 2011-08-05 | 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	0.105	105	80 - 120	2011-08-05
Toluene		1	mg/L	0.100	0.102	102	80 - 120	2011-08-05
Ethylbenzene		1	mg/L	0.100	0.0960	96	80 - 120	2011-08-05
Xylene		1	mg/L	0.300	0.287	96	80 - 120	2011-08-05

Standard (CCV-2)

QC Batch: 83654 | Date Analyzed: 2011-08-05 | 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	0.102	102	80 - 120	2011-08-05
Toluene		1	mg/L	0.100	0.0975	98	80 - 120	2011-08-05
Ethylbenzene		1	mg/L	0.100	0.0899	90	80 - 120	2011-08-05
Xylene		1	mg/L	0.300	0.272	91	80 - 120	2011-08-05

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 then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
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 # 1108042b

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
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1 (800) 378-1296

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Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

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

Company Name: IOVA
Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 Commerce Midland TX 79703
Fax #: 432-520-7701
Contact Person: Ron R.
E-mail:
Invoice to: (If different from above)
Project #: TNM-LF-59
Project Name: LF-59
Project Location (including state): New Mexico
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
273694	MW-8	3	40ml	X				X				X		8-3	13:30		X																							
695	MW-2														14:15																										
696	MW-4														15:00																										
697	MW-1														15:45																										

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	IOVA	8-4	7:00			8/4/11	0800	INST ____ OBS ____ °C COR ____ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
		8/4/11	1144		TA	8-4-11	11:45	INST ____ OBS 1.3 °C COR 1.3 °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
								INST ____ OBS ____ °C COR ____ °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-In-Review

REMARKS:
All tests-Midland

- 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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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

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: 11111413 [redacted]

Project Location: West of Monument, New Mexico
Project Name: LF-59
Project Number: TNM-LF-59

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
282316	MW 3	water	2011-11-11	10:55	2011-11-11
282317	MW 5	water	2011-11-11	10:55	2011-11-11
282318	MW 7	water	2011-11-11	11:05	2011-11-11
282319	MW 8	water	2011-11-11	11:00	2011-11-11
282320	MW 2	water	2011-11-11	11:10	2011-11-11
282321	MW 4	water	2011-11-11	11:20	2011-11-11
282322	MW 1	water	2011-11-11	11:25	2011-11-11

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.

Michael Abel

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

Report Contents

Case Narrative

Samples for project LF-59 were received by TraceAnalysis, Inc. on 2011-11-11 and assigned to work order 11111413. Samples for work order 11111413 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
BTEX	S 8021B	73378	2011-11-14 at 13:50	86424	2011-11-15 at 04:34

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 11111413 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: 282316 - MW 3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86423	Date Analyzed:	2011-11-14	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

Parameter		Flag	Cert	RL 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)			0.0928	mg/L	1	0.100	93	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0793	mg/L	1	0.100	79	67.5 - 140.8

Sample: 282317 - MW 5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86423	Date Analyzed:	2011-11-14	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

Parameter		Flag	Cert	RL 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)			0.0945	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0805	mg/L	1	0.100	80	67.5 - 140.8

Sample: 282318 - MW 7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86423	Date Analyzed:	2011-11-14	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

Parameter		Flag	Cert	RL 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)			0.0923	mg/L	1	0.100	92	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0786	mg/L	1	0.100	79	67.5 - 140.8

Sample: 282319 - MW 8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86423	Date Analyzed:	2011-11-14	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

Parameter		Flag	Cert	RL 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)			0.0919	mg/L	1	0.100	92	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0762	mg/L	1	0.100	76	67.5 - 140.8

Sample: 282320 - MW 2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86423	Date Analyzed:	2011-11-14	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

Parameter		Flag	Cert	RL 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)			0.0940	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0794	mg/L	1	0.100	79	67.5 - 140.8

Sample: 282321 - MW 4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86424	Date Analyzed:	2011-11-15	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

Parameter		Flag	Cert	RL 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)			0.0950	mg/L	1	0.100	95	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0849	mg/L	1	0.100	85	67.5 - 140.8

Sample: 282322 - MW 1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86424	Date Analyzed:	2011-11-15	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

Parameter		Flag	Cert	RL Result	Units	Dilution	RL
Benzene			1	**0.0388**	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)			0.0943	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0835	mg/L	1	0.100	84	67.5 - 140.8

Method Blanks

Method Blank (1) QC Batch: 86423

QC Batch: 86423 | Date Analyzed: 2011-11-14 | Analyzed By: AG
Prep Batch: 73378 | QC Preparation: 2011-11-14 | 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

Method Blank (1) QC Batch: 86424

QC Batch: 86424 | Date Analyzed: 2011-11-15 | Analyzed By: AG
Prep Batch: 73378 | QC Preparation: 2011-11-14 | 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)			0.0929	mg/L	1	0.100	93	61.1 - 118.4
4-Bromofluorobenzene (4-BFB)			0.0775	mg/L	1	0.100	78	45.9 - 126.4

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86423 | Date Analyzed: 2011-11-14 | Analyzed By: AG
Prep Batch: 73378 | QC Preparation: 2011-11-14 | 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	LCSD 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	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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

Laboratory Control Spike (LCS-1)

QC Batch: 86424 | Date Analyzed: 2011-11-15 | Analyzed By: AG
Prep Batch: 73378 | QC Preparation: 2011-11-14 | Prepared By: AG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0988	mg/L	1	0.100	<0.000400	99	76.8 - 120.3
Toluene		1	0.0944	mg/L	1	0.100	<0.000300	94	80.9 - 122.2
Ethylbenzene		1	0.0903	mg/L	1	0.100	<0.000300	90	72.7 - 120.2
Xylene		1	0.270	mg/L	1	0.300	<0.000333	90	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.103	mg/L	1	0.100	<0.000400	103	76.8 - 120.3	4	20
Toluene		1	0.0975	mg/L	1	0.100	<0.000300	98	80.9 - 122.2	3	20
Ethylbenzene		1	0.0930	mg/L	1	0.100	<0.000300	93	72.7 - 120.2	3	20
Xylene		1	0.279	mg/L	1	0.300	<0.000333	93	72.1 - 121.5	3	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)	0.0939	0.0939	mg/L	1	0.100	94	94	61.9 - 119.2
4-Bromofluorobenzene (4-BFB)	0.0907	0.0912	mg/L	1	0.100	91	91	56.4 - 127.9

Matrix Spike (MS-1) Spiked Sample: 282285

QC Batch: 86423 | Date Analyzed: 2011-11-14 | Analyzed By: AG
Prep Batch: 73378 | QC Preparation: 2011-11-14 | 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

Matrix Spike (MS-1) Spiked Sample: 282322

QC Batch: 86424 | Date Analyzed: 2011-11-15 | Analyzed By: AG
Prep Batch: 73378 | QC Preparation: 2011-11-14 | Prepared By: AG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.150	mg/L	1	0.100	0.0388	111	66.9 - 128.2
Toluene		1	0.100	mg/L	1	0.100	<0.000300	100	81.6 - 122.9
Ethylbenzene		1	0.0959	mg/L	1	0.100	<0.000300	96	62.7 - 117.9
Xylene		1	0.286	mg/L	1	0.300	<0.000333	95	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	0.149	mg/L	1	0.100	0.0388	110	66.9 - 128.2	1	20
Toluene		1	0.101	mg/L	1	0.100	<0.000300	101	81.6 - 122.9	1	20
Ethylbenzene		1	0.0977	mg/L	1	0.100	<0.000300	98	62.7 - 117.9	2	20
Xylene		1	0.293	mg/L	1	0.300	<0.000333	98	62.9 - 118.2	2	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0960	0.0961	mg/L	1	0.1	96	96	58.6 - 119.7
4-Bromofluorobenzene (4-BFB)	0.0957	0.0966	mg/L	1	0.1	96	97	52.2 - 135.8

Calibration Standards

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

Standard (CCV-1)

QC Batch: 86424 | Date Analyzed: 2011-11-15 | 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	0.100	100	80 - 120	2011-11-15
Toluene		1	mg/L	0.100	0.0954	95	80 - 120	2011-11-15
Ethylbenzene		1	mg/L	0.100	0.0926	93	80 - 120	2011-11-15
Xylene		1	mg/L	0.300	0.278	93	80 - 120	2011-11-15

Standard (CCV-2)

QC Batch: 86424 | Date Analyzed: 2011-11-15 | 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	0.105	105	80 - 120	2011-11-15
Toluene		1	mg/L	0.100	0.0993	99	80 - 120	2011-11-15
Ethylbenzene		1	mg/L	0.100	0.0938	94	80 - 120	2011-11-15
Xylene		1	mg/L	0.300	0.283	94	80 - 120	2011-11-15

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 then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
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 # 1111413

Page 1 of 1

TraceAnalysis, Inc.

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El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
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BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
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Company Name: Nova Safety and Environmental
Phone #: (432) 520-7720
Address: (Street, City, Zip) 2057 Commerce Midland, TX. 79703
Fax #:
Contact Person: Brythe Lee Ron Rousseville
E-mail:
Invoice to: (If different from above)
Project #:
Project Name: TNM-LF-59
Project Location (including state): Monument, N.M.
Sampler Signature:

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
28316	MW3	3	VOA	X				X				X		11-11-11	1055
317	MW5														1055
318	MW7														1105
319	MW8														1100
320	MW2														1110
321	MW4														1120
322	MW1														1125

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, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
	X																								

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Brythe Lee	NOVA	11/11	1530		T/A	11/11	15:40

INST ____ OBS 6.0 °C COR ____ °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-in-Review

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

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

Carrier # ____

ORIGINAL COPY

TRACEANALYSIS, INC.

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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: January 5, 2012

Work Order: 11122013 [redacted]

Project Location: West of Monument, New Mexico
Project Name: LF-59
Project Number: TNM-LF-59

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
284931	MW-4	water	2011-12-16	10:20	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.

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

Report Contents

Case Narrative

Samples for project LF-59 were received by TraceAnalysis, Inc. on 2011-12-19 and assigned to work order 11122013. Samples for work order 11122013 were received intact at a temperature of 7.1 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 11122013 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: 284931 - MW-4

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270D	Prep Method:	S 3510C
QC Batch:	87624	Date Analyzed:	2012-01-05	Analyzed By:	MN
Prep Batch:	74399	Sample Preparation:	2012-12-22	Prepared By:	MN

Parameter	Flag	Cert	Result	RL 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	U	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			0.0421	mg/L	0.913	0.0800	53	10 - 117
2-Fluorobiphenyl			0.0459	mg/L	0.913	0.0800	57	10 - 99
Terphenyl-d14			0.0444	mg/L	0.913	0.0800	56	22.6 - 115

Method Blanks

Method Blank (1) QC Batch: 87624

QC Batch: 87624 | Date Analyzed: 2012-01-05 | Analyzed By: MN
Prep Batch: 74399 | QC Preparation: 2012-12-22 | Prepared By: MN

Parameter	Flag	Cert	MDL Result	Units	RL
Naphthalene		1	<0.0000904	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 | Date Analyzed: 2012-01-05 | Analyzed By: MN
Prep Batch: 74399 | QC Preparation: 2012-12-22 | 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	LCSD 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		1	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	1 0.0458	mg/L	1	0.0800	<0.000185	57	36.8 - 99.4	22	20
Benzo(a)pyrene			1 0.0434	mg/L	1	0.0800	<0.000169	54	32.3 - 99.7	12	20
Indeno(1,2,3-cd)pyrene			1 0.0470	mg/L	1	0.0800	<0.000139	59	34.1 - 106	11	20
Dibenzo(a,h)anthracene			1 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	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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 then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
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 # 11122013

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443

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

Company Name: NOVA

Phone #:

Address: (Street, City, Zip)

Fax #:

Contact Person: Ron Rounsaville

E-mail:

Invoice to: (If different from above)

Project #:

Project Name: TNM-LF 58

Project Location (including state):

Sampler Signature: David Fletcher

ANALYSIS REQUEST (Circle or Specify Method No.)

Analyses listed: 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 (circled); 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, Fl, S04, NO3, NO2, Alkalinity; Na, Ca, Mg, K, TDS, EC; Turn Around Time if different from standard; Hold

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	WATER	SOIL	AIR	SLUDGE	HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	DATE	TIME	PAH 8270 / 625
284931	MW 4	1	1L Amber	X									X	12/16	1020	X

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp
David Fletcher	Nova	12/19/11	1048	[signature]	TA	12/19/11	10:48	INST; OBS 7.1 °C; COR °C
								INST; OBS °C; COR °C
				Brenda	Trace Lubbock	12/20/11	9:20	INST IL; OBS 3.1 °C; COR 3.2 °C

LAB USE ONLY: Intact Y / N; Headspace Y / N / NA; Log-in Review

REMARKS: Lubbock

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

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

Carrier # Carry in

ORIGINAL COPY

Historical Data Tables

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	02/22/00	3,572.21	-	19.94	0.00	3,552.27
MW - 1	02/23/00	3,572.21	-	19.95	0.00	3,552.26
MW - 1	04/06/00	3,572.21	-	19.81	0.00	3,552.40
MW - 1	08/29/00	3,572.21	19.46	19.76	0.30	3,552.71
MW - 1	12/04/00	3,572.21	19.55	19.61	0.06	3,552.65
MW - 1	01/23/01	3,572.21	19.57	20.17	0.60	3,552.55
MW - 1	05/16/01	3,572.21	19.63	20.61	0.98	3,552.43
MW - 1	08/06/01	3,572.21	19.76	21.09	1.33	3,552.25
MW - 1	09/27/01	3,572.21	19.91	20.88	0.97	3,552.15
MW - 1	10/29/01	3,572.21	19.91	20.88	0.97	3,552.15
MW - 1	03/29/02	3,572.21	19.34	19.37	0.03	3,552.87
MW - 1	05/20/02	3,572.21	19.81	19.93	0.12	3,552.38
MW - 1	09/10/02	3,572.21	19.80	20.16	0.36	3,552.36
MW - 1	10/02/02	3,572.21	19.91	20.45	0.54	3,552.22
MW - 1	10/03/02	3,572.21	19.89	20.83	0.94	3,552.18
MW - 1	10/08/02	3,572.21	19.92	20.44	0.52	3,552.21
MW - 1	10/14/02	3,572.21	19.94	20.52	0.58	3,552.18
MW - 1	10/22/02	3,572.21	19.99	20.50	0.51	3,552.14
MW - 1	11/14/02	3,572.21	19.66	19.83	0.17	3,552.52
MW - 1	12/03/03	3,572.21	20.25	21.20	0.95	3,551.82
MW - 1	01/14/04	3,572.21	20.82	21.70	0.88	3,551.26
MW - 1	01/19/04	3,572.21	20.81	21.72	0.91	3,551.26
MW - 1	01/27/04	3,572.21	20.79	21.65	0.86	3,551.29
MW - 1	02/03/04	3,572.21	20.75	21.62	0.87	3,551.33
MW - 1	02/10/04	3,572.21	21.00	21.21	0.21	3,551.18
MW - 1	02/19/04	3,572.21	20.58	21.13	0.55	3,551.55
MW - 1	02/23/04	3,572.21	20.97	21.16	0.19	3,551.21
MW - 1	03/02/04	3,572.21	20.94	21.18	0.24	3,551.23
MW - 1	03/03/04	3,572.21	20.23	20.64	0.41	3,551.92
MW - 1	03/11/04	3,572.21	20.46	20.77	0.31	3,551.70
MW - 1	03/15/04	3,572.21	20.42	20.69	0.27	3,551.75
MW - 1	03/17/04	3,572.21	20.73	20.94	0.21	3,551.45
MW - 1	03/22/04	3,572.21	20.76	20.98	0.22	3,551.42
MW - 1	03/24/04	3,572.21	20.23	20.36	0.13	3,551.96
MW - 1	03/29/04	3,572.21	20.90	20.98	0.08	3,551.30
MW - 1	04/07/04	3,572.21	17.26	17.26	0.00	3,554.95
MW - 1	04/13/04	3,572.21	17.17	17.17	0.00	3,555.04
MW - 1	04/20/04	3,572.21	18.25	18.25	0.00	3,553.96
MW - 1	04/27/04	3,572.21	18.88	18.89	0.01	3,553.33
MW - 1	05/11/04	3,572.21	19.64	19.64	0.00	3,552.57
MW - 1	05/18/04	3,572.21	19.22	19.22	0.00	3,552.99
MW - 1	06/17/04	3,572.21	19.42	19.42	0.00	3,552.79
MW - 1	06/23/04	3,572.21	19.45	19.45	0.00	3,552.76
MW - 1	06/30/04	3,572.21	-	19.43	0.00	3,552.78
MW - 1	07/07/04	3,572.21	-	19.44	0.00	3,552.77
MW - 1	07/21/04	3,572.21	-	19.13	0.00	3,553.08
MW - 1	08/04/04	3,572.21	-	19.12	0.00	3,553.09
MW - 1	08/11/04	3,572.21	19.40	19.41	0.01	3,552.81
MW - 1	09/07/04	3,572.21	sheen	19.50	0.00	3,552.71
MW - 1	09/13/04	3,572.21	sheen	19.52	0.00	3,552.69
MW - 1	09/21/04	3,572.21	sheen	20.63	0.00	3,551.58
MW - 1	09/21/04	3,572.21	sheen	20.63	0.00	3,551.58
MW - 1	10/12/04	3,572.21	sheen	14.45	0.00	3,557.76

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	10/21/04	3,572.21	sheen	15.85	0.00	3,556.36
MW - 1	10/28/04	3,572.21	sheen	15.82	0.00	3,556.39
MW - 1	11/03/04	3,572.21	sheen	17.08	0.00	3,555.13
MW - 1	11/10/04	3,572.21	sheen	16.97	0.00	3,555.24
MW - 1	11/17/04	3,572.21	sheen	16.40	0.00	3,555.81
MW - 1	12/01/04	3,572.21	sheen	13.80	0.00	3,558.41
MW - 1	12/08/04	3,572.21	sheen	14.31	0.00	3,557.90
MW - 1	12/14/04	3,572.21	-	14.85	0.00	3,557.36
MW - 1	12/16/04	3,572.21	sheen	14.85	0.00	3,557.36
MW - 1	12/28/04	3,572.21	sheen	14.49	0.00	3,557.72
MW - 1	01/05/05	3,572.21	sheen	16.36	0.00	3,555.85
MW - 1	01/13/05	3,572.21	sheen	16.72	0.00	3,555.49
MW - 1	01/19/05	3,572.21	sheen	17.22	0.00	3,554.99
MW - 1	01/27/05	3,572.21	sheen	17.66	0.00	3,554.55
MW - 1	02/03/05	3,572.21	sheen	17.97	0.00	3,554.24
MW - 1	02/10/05	3,572.21	sheen	18.34	0.00	3,553.87
MW - 1	02/17/05	3,572.21	sheen	18.61	0.00	3,553.60
MW - 1	02/24/05	3,572.21	sheen	18.80	0.00	3,553.41
MW - 1	03/03/05	3,572.21	sheen	18.55	0.00	3,553.66
MW - 1	*03/08/05*	3,572.21	sheen	19.00	0.00	3,553.21
MW - 1	03/10/05	3,572.21	sheen	19.00	0.00	3,553.21
MW - 1	03/17/05	3,572.21	sheen	18.98	0.00	3,553.23
MW - 1	03/24/05	3,572.21	sheen	19.23	0.00	3,552.98
MW - 1	03/31/05	3,572.21	sheen	19.36	0.00	3,552.85
MW - 1	04/0705	3,572.21	sheen	19.29	0.00	3,552.92
MW - 1	04/14/05	3,572.21	sheen	19.23	0.00	3,552.98
MW - 1	05/24/05	3,572.21	sheen	20.09	0.00	3,552.12
MW - 1	*06/07/05*	3,572.21	sheen	19.43	0.00	3,552.78
MW - 1	06/23/05	3,572.21	sheen	19.51	0.00	3,552.70
MW - 1	07/28/05	3,572.21	sheen	19.58	0.00	3,552.63
MW - 1	08/24/05	3,572.21	sheen	18.19	0.00	3,554.02
MW - 1	*09/07/05*	3,572.21	-	18.96	0.00	3,553.25
MW - 1	09/30/05	3,572.21	-	19.29	0.00	3,552.92
MW - 1	10/28/05	3,572.21	sheen	19.42	0.00	3,552.79
MW - 1	11/16/05	3,572.21	sheen	19.50	0.00	3,552.71
MW - 1	*12/02/05*	3,572.21	-	19.54	0.00	3,552.67
MW - 1	12/30/05	3,572.21	sheen	19.59	0.00	3,552.62
MW - 1	01/18/06	3,572.21	sheen	19.60	0.00	3,552.61
MW - 1	02/17/06	3,572.21	sheen	19.60	0.00	3,552.61
MW - 1	*03/08/06*	3,572.21	sheen	19.59	0.00	3,552.62
MW - 1	03/20/06	3,572.21	sheen	19.64	0.00	3,552.57
MW - 1	04/19/06	3,572.21	sheen	19.62	0.00	3,552.59
MW - 1	05/25/06	3,572.21	20.61	20.72	0.11	3,551.58
MW - 1	*06/07/06*	3,572.21	sheen	19.62	0.00	3,552.59
MW - 1	07/13/06	3,572.21	sheen	19.28	0.00	3,552.93
MW - 1	07/27/06	3,572.21	sheen	19.61	0.00	3,552.60
MW - 1	08/10/06	3,572.21	-	19.49	0.00	3,552.72
MW - 1	*09/12/06*	3,572.21	-	14.64	0.00	3,557.57
MW - 1	09/16/06	3,572.21	sheen	14.71	0.00	3,557.50
MW - 1	10/04/06	3,572.21	-	19.66	0.00	3,552.55
MW - 1	11/15/06	3,572.21	-	19.26	0.00	3,552.95
MW - 1	*11/22/06*	3,572.21	-	18.75	0.00	3,553.46
MW - 1	01/11/07	3,572.21	-	19.40	0.00	3,552.81

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	02/05/07	3,572.21	-	19.43	0.00	3,552.78
MW - 1	*02/21/07*	3,572.21	-	19.54	0.00	3,552.67
MW - 1	03/27/07	3,572.21	-	19.44	0.00	3,552.77
MW - 1	*05/16/07*	3,572.21	-	19.34	0.00	3,552.87
MW - 1	*08/10/07*	3,572.21	-	19.51	0.00	3,552.70
MW - 1	*12/28/07*	3,572.21	-	19.60	0.00	3,552.61
MW - 1	*02/18/08*	3,572.21	-	19.60	0.00	3,552.61
MW - 1	02/29/08	3,572.21	-	19.64	0.00	3,552.57
MW - 1	*05/12/08*	3,572.21	-	19.67	0.00	3,552.54
MW - 1	*08/08/08*	3,572.21	-	19.78	0.00	3,552.43
MW - 1	08/12/08	3,572.21	-	19.76	0.00	3,552.45
MW - 1	10/08/08	3,572.21	-	19.98	0.00	3,552.23
MW - 1	10/24/08	3,572.21	-	19.71	0.00	3,552.50
MW - 1	10/28/08	3,572.21	-	19.70	0.00	3,552.51
MW - 1	11/03/08	3,572.21	-	19.81	0.00	3,552.40
MW - 1	*11/07/08*	3,572.21	-	19.74	0.00	3,552.47
MW - 1	11/10/08	3,572.21	-	19.78	0.00	3,552.43
MW - 1	11/17/08	3,572.21	-	19.78	0.00	3,552.43
MW - 1	11/24/08	3,572.21	-	19.94	0.00	3,552.27
MW - 1	12/01/08	3,572.21	-	21.62	0.00	3,550.59
MW - 1	12/08/08	3,572.21	-	19.85	0.00	3,552.36
MW - 1	12/15/08	3,572.21	-	21.49	0.00	3,550.72
MW - 1	12/19/08	3,572.21	-	19.78	0.00	3,552.43
MW - 1	12/22/08	3,572.21	-	19.78	0.00	3,552.43
MW - 1	12/29/08	3,572.21	-		0.00	3,572.21
MW - 1	01/07/09	3,572.21	-	19.83	0.00	3,552.38
MW - 1	*01/12/09*	3,572.21	-	18.81	0.00	3,553.40
MW - 1	*01/15/09*	3,572.21	-	19.86	0.00	3,552.35
MW - 1	*01/19/09*	3,572.21	-	19.83	0.00	3,552.38
MW - 1	*01/21/09*	3,572.21	-	19.87	0.00	3,552.34
MW - 1	*01/29/09*	3,572.21	-	19.86	0.00	3,552.35
MW - 1	*02/06/09*	3,572.21	-	19.85	0.00	3,552.36
MW - 1	*02/17/09*	3,572.21	-	19.87	0.00	3,552.34
MW - 1	02/23/09	3,572.21	-	19.94	0.00	3,552.27
MW - 1	*03/02/09*	3,572.21	-	19.92	0.00	3,552.29
MW - 1	03/05/09	3,572.21	-	21.01	0.00	3,551.20
MW - 1	03/09/09	3,572.21	-	20.03	0.00	3,552.18
MW - 1	*03/17/09*	3,572.21	-	21.01	0.00	3,551.20
MW - 1	03/18/09	3,572.21	-	21.02	0.00	3,551.19
MW - 1	03/26/09	3,572.21	-	19.95	0.00	3,552.26
MW - 1	03/30/09	3,572.21	-	20.02	0.00	3,552.19
MW - 1	04/06/09	3,572.21	-	19.97	0.00	3,552.24
MW - 1	04/13/09	3,572.21	-	21.03	0.00	3,551.18
MW - 1	04/16/09	3,572.21	-	19.96	0.00	3,552.25
MW - 1	04/20/09	3,572.21	-	19.93	0.00	3,552.28
MW - 1	04/23/09	3,572.21	-	21.04	0.00	3,551.17
MW - 1	04/27/09	3,572.21	-	21.03	0.00	3,551.18
MW - 1	04/30/09	3,572.21	-	19.92	0.00	3,552.29
MW - 1	*05/07/09*	3,572.21	-	19.90	0.00	3,552.31
MW - 1	05/21/09	3,572.21	-	19.72	0.00	3,552.49
MW - 1	05/26/09	3,572.21	-	19.76	0.00	3,552.45
MW - 1	06/02/09	3,572.21	-	19.74	0.00	3,552.47
MW - 1	06/08/09	3,572.21	-	19.78	0.00	3,552.43

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	06/17/09	3,572.21	-	21.02	0.00	3,551.19
MW - 1	06/29/09	3,572.21	-	21.01	0.00	3,551.20
MW - 1	07/07/09	3,572.21	-	19.74	0.00	3,552.47
MW - 1	07/14/09	3,572.21	-	19.67	0.00	3,552.54
MW - 1	07/21/09	3,572.21	-	19.56	0.00	3,552.65
MW - 1	07/27/09	3,572.21	-	19.68	0.00	3,552.53
MW - 1	07/30/09	3,572.21	-	19.65	0.00	3,552.56
MW - 1	*08/04/09*	3,572.21	-	19.69	0.00	3,552.52
MW - 1	08/06/09	3,572.21	-	19.66	0.00	3,552.55
MW - 1	08/19/09	3,572.21	-	19.70	0.00	3,552.51
MW - 1	08/27/09	3,572.21	-	19.71	0.00	3,552.50
MW - 1	08/31/09	3,572.21	-	19.72	0.00	3,552.49
MW - 1	09/10/09	3,572.21	-	19.66	0.00	3,552.55
MW - 1	09/17/09	3,572.21	-	19.65	0.00	3,552.56
MW - 1	09/25/09	3,572.21	-	19.63	0.00	3,552.58
MW - 1	09/29/09	3,572.21	-	19.78	0.00	3,552.43
MW - 1	10/06/09	3,572.21	-	19.71	0.00	3,552.50
MW - 1	10/19/09	3,572.21	-	19.79	0.00	3,552.42
MW - 1	10/26/09	3,572.21	-	19.86	0.00	3,552.35
MW - 1	11/06/09	3,572.21	-	19.68	0.00	3,552.53
MW - 1	*11/09/09*	3,572.21	-	19.79	0.00	3,552.42
MW - 1	12/08/09	3,572.21	-	19.71	0.00	3,552.50
MW - 1	01/05/10	3,572.21	-	19.79	0.00	3,552.42
MW - 1	*01/21/10*	3,572.21	-	19.70	0.00	3,552.51
MW - 1	*02/04/10*	3,572.21	-	19.70	0.00	3,552.51
MW - 1	03/03/10	3,572.21	-	19.78	0.00	3,552.43
MW - 1	04/16/10	3,572.21	-	19.76	0.00	3,552.45
MW - 1	*08/09/10*	3,572.21	-	19.79	0.00	3,552.42
MW - 1	*11/01/10*	3,572.21	-	19.52	0.00	3,552.69
MW - 1	*02/10/11*	3,572.21	-	19.52	0.00	3,552.69
MW - 1	*05/04/11*	3,572.21	-	19.65	0.00	3,552.56
MW - 1	05/26/11	3,572.21	-	19.68	0.00	3,552.53
MW - 1	06/09/11	3,572.21	-	19.69	0.00	3,552.52
MW - 1	06/13/11	3,572.21	-	19.65	0.00	3,552.56
MW - 1	06/29/11	3,572.21	-	19.70	0.00	3,552.51
MW - 1	07/07/11	3,572.21	-	19.71	0.00	3,552.50
MW - 1	07/08/11	3,572.21	-	19.54	0.00	3,552.67
MW - 1	08/01/11	3,572.21	-	19.68	0.00	3,552.53
MW - 1	*08/03/11*	3,572.21	-	19.53	0.00	3,552.68
MW - 1	09/12/11	3,572.21	-	19.80	0.00	3,552.41
MW - 1	10/31/11	3,572.21	-	20.00	0.00	3,552.21
MW - 1	*11/11/11*	3,572.21	-	19.77	0.00	3,552.44
MW - 2	02/22/00	3,571.46	-	22.95	0.00	3,548.51
MW - 2	02/23/00	3,571.46	-	22.95	0.00	3,548.51
MW - 2	04/06/00	3,571.46	-	22.87	0.00	3,548.59
MW - 2	08/29/00	3,571.46	-	22.06	0.00	3,549.40
MW - 2	12/04/00	3,571.46	-	22.48	0.00	3,548.98
MW - 2	01/23/01	3,571.46	-	22.54	0.00	3,548.92
MW - 2	05/16/01	3,571.46	-	22.53	0.00	3,548.93
MW - 2	08/06/01	3,571.46	-	22.74	0.00	3,548.72
MW - 2	09/27/01	3,571.46	-	22.85	0.00	3,548.61
MW - 2	10/29/01	3,571.46	-	22.85	0.00	3,548.61

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	03/29/02	3,571.46	-	21.86	0.00	3,549.60
MW - 2	05/20/02	3,571.46	-	22.51	0.00	3,548.95
MW - 2	09/10/02	3,571.46	-	22.59	0.00	3,548.87
MW - 2	11/14/02	3,571.46	-	22.12	0.00	3,549.34
MW - 2	12/03/03	3,571.46	-	22.99	0.00	3,548.47
MW - 2	03/03/04	3,571.46	-	23.01	0.00	3,548.45
MW - 2	05/18/04	3,571.46	-	21.06	0.00	3,550.40
MW - 2	09/07/04	3,571.46	-	22.10	0.00	3,549.36
MW - 2	12/14/04	3,571.46	-	16.61	0.00	3,554.85
MW - 2	*03/08/05*	UNABLE TO GAUGE				
MW - 2	*06/07/05*	3,571.46	-	21.82	0.00	3,549.64
MW - 2	*09/07/05*	3,571.46	-	20.60	0.00	3,550.86
MW - 2	*12/02/05*	3,571.46	-	22.06	0.00	3,549.40
MW - 2	*03/08/06*	3,571.46	-	22.30	0.00	3,549.16
MW - 2	*06/07/06*	3,571.46	-	22.36	0.00	3,549.10
MW - 2	07/13/06	3,571.46	-	22.26	0.00	3,549.20
MW - 2	07/27/06	3,571.46	-	22.31	0.00	3,549.15
MW - 2	08/10/06	3,571.46	-	22.16	0.00	3,549.30
MW - 2	*09/12/06*	3,571.46	-	16.31	0.00	3,555.15
MW - 2	09/16/06	3,571.46	-	16.78	0.00	3,554.68
MW - 2	10/04/06	3,571.46	-	16.35	0.00	3,555.11
MW - 2	11/15/06	3,571.46	-	16.00	0.00	3,555.46
MW - 2	*11/22/06*	3,571.46	-	19.95	0.00	3,551.51
MW - 2	01/11/07	3,571.46	-	21.40	0.00	3,550.06
MW - 2	*02/21/07*	3,571.46	-	21.89	0.00	3,549.57
MW - 2	*05/16/07*	3,571.46	-	22.04	0.00	3,549.42
MW - 2	*08/10/07*	3,571.46	-	22.19	0.00	3,549.27
MW - 2	*12/28/07*	3,571.46	-	22.38	0.00	3,549.08
MW - 2	*02/18/08*	3,571.46	-	22.42	0.00	3,549.04
MW - 2	*05/12/08*	3,571.46	-	22.41	0.00	3,549.05
MW - 2	*08/08/08*	3,571.46	-	22.45	0.00	3,549.01
MW - 2	*11/07/08*	3,571.46	-	22.43	0.00	3,549.03
MW - 2	*02/06/09*	3,571.46	-	22.48	0.00	3,548.98
MW - 2	04/13/09	3,571.46	-	21.02	0.00	3,550.44
MW - 2	*05/07/09*	3,571.46	-	22.49	0.00	3,548.97
MW - 2	07/07/09	3,571.46	-	22.39	0.00	3,549.07
MW - 2	*08/04/09*	3,571.46	-	22.31	0.00	3,549.15
MW - 2	*11/09/09*	3,571.46	-	22.35	0.00	3,549.11
MW - 2	01/05/10	3,571.46	-	22.40	0.00	3,549.06
MW - 2	*02/04/10*	3,571.46	-	22.42	0.00	3,549.04
MW - 2	*08/09/10*	3,571.46	-	22.35	0.00	3,549.11
MW - 2	*11/01/10*	3,571.46	-	21.78	0.00	3,549.68
MW - 2	*02/10/11*	3,571.46	-	21.80	0.00	3,549.66
MW - 2	*05/04/11*	3,571.46	-	22.34	0.00	3,549.12
MW - 2	*08/03/11*	3,571.46	-	21.82	0.00	3,549.64
MW - 2	*11/11/11*	3,571.46	-	22.48	0.00	3,548.98
MW - 3	02/22/00	3,573.46	-	20.95	0.00	3,552.51
MW - 3	02/23/00	3,573.46	-	20.92	0.00	3,552.54
MW - 3	04/06/00	3,573.46	-	20.85	0.00	3,552.61
MW - 3	08/29/00	3,573.46	-	20.53	0.00	3,552.93
MW - 3	12/04/00	3,573.46	-	20.64	0.00	3,552.82
MW - 3	01/23/01	3,573.46	-	20.60	0.00	3,552.86

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	05/16/01	3,573.46	-	20.69	0.00	3,552.77
MW - 3	08/06/01	3,573.46	-	20.89	0.00	3,552.57
MW - 3	09/27/01	3,573.46	-	20.96	0.00	3,552.50
MW - 3	10/29/01	3,573.46	-	20.96	0.00	3,552.50
MW - 3	03/29/02	3,573.46	-	20.54	0.00	3,552.92
MW - 3	05/20/02	3,573.46	-	20.78	0.00	3,552.68
MW - 3	09/10/02	3,573.46	-	20.82	0.00	3,552.64
MW - 3	11/14/02	3,573.46	-	20.68	0.00	3,552.78
MW - 3	12/03/03	3,573.46	-	21.18	0.00	3,552.28
MW - 3	03/03/04	3,573.46	-	21.17	0.00	3,552.29
MW - 3	05/18/04	3,573.46	-	20.24	0.00	3,553.22
MW - 3	09/07/04	3,573.46	-	20.58	0.00	3,552.88
MW - 3	12/14/04	3,573.46	-	18.47	0.00	3,554.99
MW - 3	*03/08/05*	3,573.46	-	20.28	0.00	3,553.18
MW - 3	*06/07/05*	3,573.46	-	20.46	0.00	3,553.00
MW - 3	*09/07/05*	3,573.46	-	20.19	0.00	3,553.27
MW - 3	*12/02/05*	3,573.46	-	20.53	0.00	3,552.93
MW - 3	*03/08/06*	3,573.46	-	20.57	0.00	3,552.89
MW - 3	*06/07/06*	3,573.46	-	20.62	0.00	3,552.84
MW - 3	*09/12/06*	3,573.46	-	18.42	0.00	3,555.04
MW - 3	*11/22/06*	3,573.46	-	20.13	0.00	3,553.33
MW - 3	*02/21/07*	3,573.46	-	20.49	0.00	3,552.97
MW - 3	*05/16/07*	3,573.46	-	20.46	0.00	3,553.00
MW - 3	*08/10/07*	3,573.46	-	20.53	0.00	3,552.93
MW - 3	*12/28/07*	3,573.46	-	26.00	0.00	3,547.46
MW - 3	*02/18/08*	3,573.46	-	20.60	0.00	3,552.86
MW - 3	*05/12/08*	3,573.46	-	20.61	0.00	3,552.85
MW - 3	*08/08/08*	3,573.46	-	20.65	0.00	3,552.81
MW - 3	*11/07/08*	3,573.46	-	20.73	0.00	3,552.73
MW - 3	*02/06/09*	*3,573.46*	-	*20.81*	*0.00*	*3,552.65*
MW - 3	*05/07/09*	3,573.46	-	20.68	0.00	3,552.78
MW - 3	*08/04/09*	3,573.46	-	20.58	0.00	3,552.88
MW - 3	*11/09/09*	3,573.46	-	20.63	0.00	3,552.83
MW - 3	01/05/10	3,573.46	-	20.66	0.00	3,552.80
MW - 3	*02/04/10*	3,573.46	-	20.66	0.00	3,552.80
MW - 3	*08/09/10*	3,573.46	-	20.64	0.00	3,552.82
MW - 3	*11/01/10*	3,573.46	-	20.54	0.00	3,552.92
MW - 3	*02/10/11*	3,573.46	-	20.53	0.00	3,552.93
MW - 3	*05/04/11*	3,573.46	-	20.60	0.00	3,552.86
MW - 3	*08/03/11*	3,573.46	-	20.50	0.00	3,552.96
MW - 3	*11/11/11*	3,573.46	-	20.72	0.00	3,552.74
MW - 4	02/22/00	3,570.15	21.94	22.00	0.06	3,548.20
MW - 4	04/06/00	3,570.15	20.88	20.90	0.02	3,549.27
MW - 4	08/29/00	3,570.15	20.43	20.54	0.11	3,549.70
MW - 4	12/04/00	3,570.15	20.54	20.68	0.14	3,549.59
MW - 4	01/23/01	3,570.15	20.62	20.81	0.19	3,549.50
MW - 4	05/16/01	3,570.15	20.57	20.89	0.32	3,549.53
MW - 4	08/06/01	3,570.15	20.83	21.07	0.24	3,549.28
MW - 4	09/27/01	3,570.15	20.89	21.16	0.27	3,549.22
MW - 4	10/29/01	3,570.15	20.89	21.16	0.27	3,549.22
MW - 4	03/29/02	3,570.15	20.62	20.75	0.13	3,549.51
MW - 4	05/20/02	3,570.15	20.64	20.93	0.29	3,549.47

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	09/10/02	3,570.15	20.65	20.98	0.33	3,549.45
MW - 4	10/08/02	3,570.15	20.74	21.14	0.40	3,549.35
MW - 4	10/14/02	3,570.15	20.76	20.92	0.16	3,549.37
MW - 4	10/22/02	3,570.15	20.82	20.90	0.08	3,549.32
MW - 4	11/14/02	3,570.15	20.45	20.50	0.05	3,549.69
MW - 4	12/03/03	3,570.15	20.93	21.19	0.26	3,549.18
MW - 4	01/14/04	3,570.15	21.43	21.86	0.43	3,548.66
MW - 4	01/19/04	3,570.15	21.42	21.85	0.43	3,548.67
MW - 4	01/27/04	3,570.15	21.47	21.91	0.44	3,548.61
MW - 4	02/03/04	3,570.15	21.42	21.90	0.48	3,548.66
MW - 4	02/10/04	3,570.15	20.40	20.68	0.28	3,549.71
MW - 4	02/19/04	3,570.15	21.18	21.47	0.29	3,548.93
MW - 4	02/23/04	3,570.15	20.36	20.57	0.21	3,549.76
MW - 4	03/02/04	3,570.15	20.41	20.59	0.18	3,549.71
MW - 4	03/03/04	3,570.15	21.00	21.14	0.14	3,549.13
MW - 4	03/11/04	3,570.15	21.18	21.33	0.15	3,548.95
MW - 4	03/15/04	3,570.15	21.15	21.19	0.04	3,548.99
MW - 4	03/17/04	3,570.15	21.46	21.60	0.14	3,548.67
MW - 4	03/22/04	3,570.15	21.51	21.65	0.14	3,548.62
MW - 4	03/24/04	3,570.15	20.96	21.02	0.06	3,549.18
MW - 4	03/29/04	3,570.15	21.48	21.57	0.09	3,548.66
MW - 4	04/07/04	3,570.15	21.10	21.10	0.00	3,549.05
MW - 4	04/13/04	3,570.15	19.63	19.63	0.00	3,550.52
MW - 4	04/20/04	3,570.15	20.06	20.06	0.00	3,550.09
MW - 4	04/27/04	3,570.15	20.35	20.35	0.00	3,549.80
MW - 4	05/11/04	3,570.15	20.86	20.86	0.00	3,549.29
MW - 4	05/18/04	3,570.15	20.62	20.62	0.00	3,549.53
MW - 4	06/17/04	3,570.15	20.65	20.66	0.01	3,549.50
MW - 4	06/23/04	3,570.15	20.68	20.68	0.01	3,549.48
MW - 4	06/30/04	3,570.15	-	20.66	0.00	3,549.49
MW - 4	07/07/04	3,570.15	20.67	20.68	0.01	3,549.48
MW - 4	07/21/04	3,570.15	-	20.48	0.00	3,549.67
MW - 4	07/23/04	3,570.15	20.48	20.48	0.00	3,549.67
MW - 4	08/04/04	3,570.15	20.47	20.47	0.00	3,549.68
MW - 4	08/11/04	3,570.15	-	20.47	0.00	3,549.68
MW - 4	09/07/04	3,570.15	sheen	19.52	0.00	3,550.63
MW - 4	09/13/04	3,570.15	sheen	20.55	0.00	3,549.60
MW - 4	09/21/04	3,570.15	sheen	19.59	0.00	3,550.56
MW - 4	10/12/04	3,570.15	sheen	19.20	0.00	3,550.95
MW - 4	10/21/04	3,570.15	sheen	19.62	0.00	3,550.53
MW - 4	10/28/04	3,570.15	sheen	19.60	0.00	3,550.55
MW - 4	11/03/04	3,570.15	sheen	19.89	0.00	3,550.26
MW - 4	11/10/04	3,570.15	sheen	19.80	0.00	3,550.35
MW - 4	11/17/04	3,570.15	sheen	19.97	0.00	3,550.18
MW - 4	12/01/04	3,570.15	sheen	19.39	0.00	3,550.76
MW - 4	12/08/04	3,570.15	sheen	19.49	0.00	3,550.66
MW - 4	12/14/04	3,570.15	-	19.70	0.00	3,550.45
MW - 4	12/16/04	3,570.15	sheen	19.70	0.00	3,550.45
MW - 4	12/28/04	3,570.15	sheen	19.51	0.00	3,550.64
MW - 4	01/05/05	3,570.15	sheen	20.00	0.00	3,550.15
MW - 4	01/13/05	3,570.15	sheen	19.98	0.00	3,550.17
MW - 4	01/19/05	3,570.15	sheen	20.01	0.00	3,550.14
MW - 4	01/27/05	3,570.15	sheen	20.08	0.00	3,550.07

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	02/03/05	3,570.15	sheen	20.11	0.00	3,550.04
MW - 4	02/10/05	3,570.15	sheen	20.17	0.00	3,549.98
MW - 4	02/17/05	3,570.15	sheen	20.23	0.00	3,549.92
MW - 4	02/24/05	3,570.15	sheen	20.19	0.00	3,549.96
MW - 4	03/03/05	3,570.15	sheen	20.14	0.00	3,550.01
MW - 4	*03/08/05*	3,570.15	sheen	20.33	0.00	3,549.82
MW - 4	03/10/05	3,570.15	sheen	20.33	0.00	3,549.82
MW - 4	03/17/05	3,570.15	sheen	20.29	0.00	3,549.86
MW - 4	03/24/05	3,570.15	sheen	20.33	0.00	3,549.82
MW - 4	03/31/05	3,570.15	sheen	20.38	0.00	3,549.77
MW - 4	04/07/05	3,570.15	sheen	20.37	0.00	3,549.78
MW - 4	04/14/05	3,570.15	sheen	20.29	0.00	3,549.86
MW - 4	05/24/05	3,570.15	sheen	18.99	0.00	3,551.16
MW - 4	*06/07/05*	3,570.15	sheen	20.39	0.00	3,549.76
MW - 4	06/23/05	3,570.15	sheen	20.50	0.00	3,549.65
MW - 4	07/28/05	3,570.15	sheen	20.50	0.00	3,549.65
MW - 4	08/24/05	3,570.15	sheen	20.49	0.00	3,549.66
MW - 4	*09/07/05*	3,570.15	sheen	20.25	0.00	3,549.90
MW - 4	09/30/05	3,570.15	-	20.30	0.00	3,549.85
MW - 4	10/28/05	3,570.15	sheen	20.61	0.00	3,549.54
MW - 4	11/16/05	3,570.15	sheen	20.62	0.00	3,549.53
MW - 4	*12/02/05*	3,570.15	-	20.67	0.00	3,549.48
MW - 4	12/30/05	3,570.15	sheen	20.82	0.00	3,549.33
MW - 4	01/18/06	3,570.15	sheen	20.82	0.00	3,549.33
MW - 4	02/17/06	3,570.15	sheen	20.83	0.00	3,549.32
MW - 4	*03/08/06*	3,570.15	sheen	20.75	0.00	3,549.40
MW - 4	03/20/06	3,570.15	sheen	20.61	0.00	3,549.54
MW - 4	04/19/06	3,570.15	sheen	20.60	0.00	3,549.55
MW - 4	05/25/06	3,570.15	sheen	20.61	0.00	3,549.54
MW - 4	*06/07/06*	3,570.15	20.61	20.62	0.01	3,549.54
MW - 4	06/08/06	3,570.15	20.59	20.61	0.02	3,549.56
MW - 4	07/13/06	3,570.15	sheen	20.59	0.00	3,549.56
MW - 4	07/27/06	3,570.15	sheen	20.77	0.00	3,549.38
MW - 4	08/10/06	3,570.15	sheen	20.84	0.00	3,549.31
MW - 4	*09/12/06*	3,570.15	-	19.65	0.00	3,550.50
MW - 4	09/16/06	3,570.15	sheen	19.67	0.00	3,550.48
MW - 4	10/04/06	3,570.15	sheen	19.71	0.00	3,550.44
MW - 4	11/15/06	3,570.15	sheen	19.42	0.00	3,550.73
MW - 4	*11/22/06*	3,570.15	sheen	20.10	0.00	3,550.05
MW - 4	01/11/07	3,570.15	20.42	20.43	0.01	3,549.73
MW - 4	02/05/07	3,570.15	sheen	20.49	0.00	3,549.66
MW - 4	*02/21/07*	3,570.15	sheen	20.65	0.00	3,549.50
MW - 4	03/27/07	3,570.15	20.52	20.54	0.02	3,549.63
MW - 4	05/16/07	3,570.15	sheen	20.54	0.00	3,549.61
MW - 4	08/10/07	3,570.15	20.56	20.58	0.00	3,549.57
MW - 4	*12/28/07*	3,570.15	sheen	20.83	0.00	3,549.32
MW - 4	*02/18/08*	3,570.15	-	20.90	0.00	3,549.25
MW - 4	02/29/08	3,570.15	20.63	26.67	6.04	3,548.61
MW - 4	04/10/08	3,570.15	20.61	20.68	0.07	3,549.53
MW - 4	*05/12/08*	3,570.15	20.61	20.67	0.06	3,549.53
MW - 4	06/27/08	3,570.15	20.67	20.77	0.10	3,549.47
MW - 4	07/16/08	3,570.15	20.57	20.67	0.10	3,549.57
MW - 4	*08/08/08*	3,570.15	20.52	20.57	0.05	3,549.62

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	08/12/08	3,570.15	-	20.61	0.00	3,549.54
MW - 4	10/08/08	3,570.15	-	19.78	0.00	3,550.37
MW - 4	10/24/08	3,570.15	-	20.78	0.00	3,549.37
MW - 4	11/03/08	3,570.15	-	20.94	0.00	3,549.21
MW - 4	*11/07/08*	3,570.15		20.96	0.00	3,549.19
MW - 4	11/10/08	3,570.15	-	20.98	0.00	3,549.17
MW - 4	11/17/08	3,570.15	-	21.05	0.00	3,549.10
MW - 4	11/24/08	3,570.15	-	20.01	0.00	3,550.14
MW - 4	12/01/08	3,570.15	-	26.92	0.00	3,543.23
MW - 4	12/08/08	3,570.15	-	20.11	0.00	3,550.04
MW - 4	12/15/08	3,570.15	-	26.95	0.00	3,543.20
MW - 4	12/19/08	3,570.15	-	20.85	0.00	3,549.30
MW - 4	12/22/08	3,570.15	-	20.64	0.00	3,549.51
MW - 4	12/29/08	3,570.15	-		0.00	3,570.15
MW - 4	01/07/09	3,570.15	-	20.86	0.00	3,549.29
MW - 4	*01/12/09*	3,570.15	-	19.87	0.00	3,550.28
MW - 4	*01/15/09*	3,570.15	-	20.89	0.00	3,549.26
MW - 4	*01/19/09*	3,570.15	-	20.87	0.00	3,549.28
MW - 4	*01/21/09*	3,570.15	-	20.94	0.00	3,549.21
MW - 4	*01/29/09*	3,570.15	-	20.89	0.00	3,549.26
MW - 4	*02/06/09*	3,570.15	-	20.98	0.00	3,549.17
MW - 4	*02/17/09*	3,570.15	-	21.10	0.00	3,549.05
MW - 4	02/23/09	3,570.15	-	21.13	0.00	3,549.02
MW - 4	*03/02/09*	3,570.15	-	21.13	0.00	3,549.02
MW - 4	03/05/09	3,570.15	-	20.00	0.00	3,550.15
MW - 4	03/09/09	3,570.15	-	21.05	0.00	3,549.10
MW - 4	*03/17/09*	3,570.15	-	21.03	0.00	3,549.12
MW - 4	03/18/09	3,570.15	-	21.04	0.00	3,549.11
MW - 4	03/26/09	3,570.15	-	21.05	0.00	3,549.10
MW - 4	03/30/09	3,570.15	-	20.99	0.00	3,549.16
MW - 4	04/06/09	3,570.15	-	21.23	0.00	3,548.92
MW - 4	04/16/09	3,570.15	-	21.02	0.00	3,549.13
MW - 4	04/20/09	3,570.15	-	21.25	0.00	3,548.90
MW - 4	04/23/09	3,570.15	-	21.02	0.00	3,549.13
MW - 4	04/27/09	3,570.15	-	21.02	0.00	3,549.13
MW - 4	04/30/09	3,570.15	-	21.01	0.00	3,549.14
MW - 4	*05/07/09*	3,570.15	-	21.20	0.00	3,548.95
MW - 4	05/21/09	3,570.15	-	21.10	0.00	3,549.05
MW - 4	05/26/09	3,570.15	-	20.84	0.00	3,549.31
MW - 4	06/02/09	3,570.15	-	20.80	0.00	3,549.35
MW - 4	06/08/09	3,570.15	-	20.77	0.00	3,549.38
MW - 4	06/17/09	3,570.15	-	20.98	0.00	3,549.17
MW - 4	06/29/09	3,570.15	-	20.99	0.00	3,549.16
MW - 4	07/07/09	3,570.15	-	20.73	0.00	3,549.42
MW - 4	07/14/09	3,570.15	-	20.72	0.00	3,549.43
MW - 4	07/21/09	3,570.15	-	20.83	0.00	3,549.32
MW - 4	07/27/09	3,570.15	-	20.68	0.00	3,549.47
MW - 4	07/30/09	3,570.15	-	20.72	0.00	3,549.43
MW - 4	*08/04/09*	3,570.15	-	20.71	0.00	3,549.44
MW - 4	08/06/09	3,570.15	-	20.75	0.00	3,549.40
MW - 4	08/19/09	3,570.15	-	20.78	0.00	3,549.37
MW - 4	08/27/09	3,570.15	-	20.72	0.00	3,549.43
MW - 4	08/31/09	3,570.15	-	20.73	0.00	3,549.42

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	09/10/09	3,570.15	-	20.77	0.00	3,549.38
MW - 4	09/17/09	3,570.15	-	20.78	0.00	3,549.37
MW - 4	09/25/09	3,570.15	-	20.20	0.00	3,549.95
MW - 4	09/29/09	3,570.15	-	20.85	0.00	3,549.30
MW - 4	10/06/09	3,570.15	-	20.81	0.00	3,549.34
MW - 4	10/19/09	3,570.15	-	20.78	0.00	3,549.37
MW - 4	10/26/09	3,570.15	-	20.74	0.00	3,549.41
MW - 4	11/06/09	3,570.15	-	20.70	0.00	3,549.45
MW - 4	11/09/09	3,570.15	-	20.75	0.00	3,549.40
MW - 4	12/08/09	3,570.15	-	20.84	0.00	3,549.31
MW - 4	01/05/10	3,570.15	-	20.86	0.00	3,549.29
MW - 4	01/21/10	3,570.15	-	20.79	0.00	3,549.36
MW - 4	*02/04/10*	3,570.15	-	20.61	0.00	3,549.54
MW - 4	03/03/10	3,570.15	-	20.98	0.00	3,549.17
MW - 4	04/16/10	3,570.15	-	20.96	0.00	3,549.19
MW - 4	*08/09/10*	3,570.15	-	20.74	0.00	3,549.41
MW - 4	*11/01/10*	3,570.15	-	20.66	0.00	3,549.49
MW - 4	*02/10/11*	3,570.15	-	20.65	0.00	3,549.50
MW - 4	*05/04/11*	3,570.15	-	20.81	0.00	3,549.34
MW - 4	*08/03/11*	3,570.15	-	20.61	0.00	3,549.54
MW - 4	*11/11/11*	3,570.15	-	21.00	0.00	3,549.15
MW - 5	02/22/00	3,562.92	-	19.81	0.00	3,543.11
MW - 5	02/23/00	3,562.92	-	19.80	0.00	3,543.12
MW - 5	04/06/00	3,572.92	-	19.74	0.00	3,553.18
MW - 5	08/29/00	3,572.92	-	19.33	0.00	3,553.59
MW - 5	12/04/00	3,572.92	-	19.46	0.00	3,553.46
MW - 5	01/23/01	3,572.92	-	19.52	0.00	3,553.40
MW - 5	05/16/01	3,572.92	-	19.55	0.00	3,553.37
MW - 5	08/06/01	3,572.92	-	19.80	0.00	3,553.12
MW - 5	09/27/01	3,572.92	-	19.86	0.00	3,553.06
MW - 5	10/29/01	3,572.92	-	19.86	0.00	3,553.06
MW - 5	03/29/02	3,572.92	-	19.19	0.00	3,553.73
MW - 5	05/20/02	3,572.92	-	19.65	0.00	3,553.27
MW - 5	09/10/02	3,572.92	-	19.72	0.00	3,553.20
MW - 5	11/14/02	3,572.92	-	19.55	0.00	3,553.37
MW - 5	12/03/03	3,572.92	-	20.09	0.00	3,552.83
MW - 5	05/18/04	3,572.92	-	18.90	0.00	3,554.02
MW - 5	09/07/04	3,572.92	-	19.34	0.00	3,553.58
MW - 5	12/14/04	3,572.92	-	15.53	0.00	3,557.39
MW - 5	*03/08/05*	3,572.92	-	18.68	0.00	3,554.24
MW - 5	*06/07/05*	3,572.92	-	19.12	0.00	3,553.80
MW - 5	*09/07/05*	3,572.92	-	18.55	0.00	3,554.37
MW - 5	*12/02/05*	3,572.92	-	19.24	0.00	3,553.68
MW - 5	*03/08/06*	3,572.92	-	19.32	0.00	3,553.60
MW - 5	*06/07/06*	3,572.92	-	19.39	0.00	3,553.53
MW - 5	*09/12/06*	3,572.92	-	15.41	0.00	3,557.51
MW - 5	*11/22/06*	3,572.92	-	18.49	0.00	3,554.43
MW - 5	*02/21/07*	3,572.92	-	19.16	0.00	3,553.76
MW - 5	*05/16/07*	3,572.92	-	19.07	0.00	3,553.85
MW - 5	*08/10/07*	3,572.92	-	19.27	0.00	3,553.65
MW - 5	*12/28/07*	3,572.92	-	19.35	0.00	3,553.57
MW - 5	*02/18/08*	3,572.92	-	19.35	0.00	3,553.57

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	*05/08/08*	3,572.92	-	19.38	0.00	3,553.54
MW - 5	*08/08/08*	3,572.92	-	19.46	0.00	3,553.46
MW - 5	*11/07/08*	3,572.92	-	19.55	0.00	3,553.37
MW - 5	*02/06/09*	3,572.92	-	19.66	0.00	3,553.26
MW - 5	*05/07/09*	3,572.92	-	19.52	0.00	3,553.40
MW - 5	*08/04/09*	3,572.92	-	19.37	0.00	3,553.55
MW - 5	*11/09/09*	3,572.92	-	19.40	0.00	3,553.52
MW - 5	01/05/10	3,572.92	-	19.46	0.00	3,553.46
MW - 5	*02/04/10*	3,572.92	-	19.46	0.00	3,553.46
MW - 5	*08/09/10*	3,572.92	-	19.41	0.00	3,553.51
MW - 5	*11/01/10*	3,572.92	-	19.21	0.00	3,553.71
MW - 5	*02/10/11*	3,572.92	-	19.23	0.00	3,553.69
MW - 5	*05/04/11*	3,572.92	-	19.38	0.00	3,553.54
MW - 5	*08/03/11*	3,572.92	-	19.21	0.00	3,553.71
MW - 5	*11/11/11*	3,572.92	-	19.53	0.00	3,553.39
MW - 6	09/18/01	3,572.11	-	19.90	0.00	3,552.21
MW - 6	09/27/01	3,572.11	-	19.86	0.00	3,552.25
MW - 6	10/29/01	3,572.11	-	19.86	0.00	3,552.25
MW - 6	03/29/02	3,572.11	-	19.62	0.00	3,552.49
MW - 6	05/20/02	3,572.11	-	19.56	0.00	3,552.55
MW - 6	09/10/02	3,572.11	-	19.68	0.00	3,552.43
MW - 6	11/14/02	3,572.11	-	19.52	0.00	3,552.59
MW - 6	12/03/03	3,572.11	-	20.06	0.00	3,552.05
MW - 6	05/18/04	3,572.11	-	18.25	0.00	3,553.86
MW - 6	09/07/04	3,572.11	-	18.85	0.00	3,553.26
MW - 6	12/14/04	3,572.11	-	17.65	0.00	3,554.46
MW - 6	*03/08/05*	3,572.11	-	18.11	0.00	3,554.00
MW - 6	*06/07/05*	3,572.11	-	18.28	0.00	3,553.83
MW - 6	*09/07/05*	3,572.11	-	18.01	0.00	3,554.10
MW - 6	*12/02/05*	3,572.11	-	18.44	0.00	3,553.67
MW - 6	*03/08/06*	3,572.11	-	18.53	0.00	3,553.58
MW - 6	*06/07/06*	3,572.11	-	18.66	0.00	3,553.45
MW - 6	*09/12/06*	3,572.11	-	17.39	0.00	3,554.72
MW - 6	*11/22/06*	3,572.11	-	18.07	0.00	3,554.04
MW - 6	*02/21/07*	3,572.11	-	18.36	0.00	3,553.75
MW - 6	*05/16/07*	3,572.11	-	18.37	0.00	3,553.74
MW - 6	*08/10/07*	3,572.11	-	18.51	0.00	3,553.60
MW - 6	*12/28/07*	3,572.11	-	19.57	0.00	3,552.54
MW - 6	*02/18/08*	3,572.11	-	18.58	0.00	3,553.53
MW - 6	*05/08/08*	3,572.11	-	18.64	0.00	3,553.47
MW - 6	*08/08/08*	3,572.11	-	18.88	0.00	3,553.23
MW - 6	*11/07/08*	3,572.11	-	19.35	0.00	3,552.76
MW - 6	*02/06/09*	3,572.11	-	19.55	0.00	3,552.56
MW - 6	*05/07/09*	3,572.11	-	18.94	0.00	3,553.17
MW - 6	*08/04/09*	3,572.11	-	18.56	0.00	3,553.55
MW - 6	*11/09/09*	3,572.11	-	18.64	0.00	3,553.47
MW - 6	01/05/10	3,572.11	-	18.74	0.00	3,553.37
MW - 6	*02/04/10*	3,572.11	-	18.74	0.00	3,553.37
MW - 6	*08/09/10*	3,572.11	-	18.64	0.00	3,553.47
MW - 6	*11/01/10*	3,572.11	-	18.39	0.00	3,553.72
MW - 6	*02/10/11*	3,572.11	-	18.41	0.00	3,553.70
MW - 6	*05/04/11*	**WELL PLUGGED & ABANDONED.**				

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	09/18/01	3,569.75	-	23.35	0.00	3,546.40
MW - 7	09/27/01	3,569.75	-	23.35	0.00	3,546.40
MW - 7	10/29/01	3,569.75	-	23.35	0.00	3,546.40
MW - 7	03/29/02	3,569.75	-	19.82	0.00	3,549.93
MW - 7	04/16/02	3,569.75	-	22.28	0.00	3,547.47
MW - 7	05/13/02	3,569.75	-	22.90	0.00	3,546.85
MW - 7	05/20/02	3,569.75	-	22.95	0.00	3,546.80
MW - 7	09/10/02	3,569.75	-	23.00	0.00	3,546.75
MW - 7	11/14/02	3,569.75	-	21.19	0.00	3,548.56
MW - 7	12/03/03	3,569.75	-	23.54	0.00	3,546.21
MW - 7	05/18/04	3,569.75	-	21.38	0.00	3,548.37
MW - 7	09/07/04	3,569.75	-	22.35	0.00	3,547.40
MW - 7	12/14/04	3,569.75	-	18.25	0.00	3,551.50
MW - 7	*03/08/05*	3,569.75	-	21.48	0.00	3,548.27
MW - 7	*06/07/05*	3,569.75	-	22.27	0.00	3,547.48
MW - 7	*09/07/05*	3,569.75	-	21.21	0.00	3,548.54
MW - 7	*12/02/05*	3,569.75	-	22.64	0.00	3,547.11
MW - 7	*03/08/06*	3,569.75	-	22.99	0.00	3,546.76
MW - 7	*06/07/06*	3,569.75	-	23.06	0.00	3,546.69
MW - 7	*09/12/06*	3,569.75	-	15.57	0.00	3,554.18
MW - 7	*11/22/06*	3,569.75	-	20.81	0.00	3,548.94
MW - 7	*02/21/07*	3,569.75	-	22.41	0.00	3,547.34
MW - 7	*05/16/07*	3,569.75	-	22.60	0.00	3,547.15
MW - 7	*08/10/07*	3,569.75	-	22.84	0.00	3,546.91
MW - 7	*12/28/07*	3,569.75	-	23.05	0.00	3,546.70
MW - 7	*02/18/08*	3,569.75	-	23.12	0.00	3,546.63
MW - 7	*05/08/08*	3,569.75	-	23.16	0.00	3,546.59
MW - 7	*08/08/08*	3,569.75	-	23.19	0.00	3,546.56
MW - 7	*11/07/08*	3,569.75	-	23.15	0.00	3,546.60
MW - 7	*02/06/09*	3,569.75	-	23.31	0.00	3,546.44
MW - 7	*05/07/09*	3,569.75	-	23.34	0.00	3,546.41
MW - 7	*08/04/09*	3,569.75	-	23.01	0.00	3,546.74
MW - 7	*11/09/09*	3,569.75	-	23.13	0.00	3,546.62
MW - 7	01/05/10	3,569.75	-	23.22	0.00	3,546.53
MW - 7	*02/04/10*	3,569.75	-	23.22	0.00	3,546.53
MW - 7	*08/09/10*	3,569.75	-	23.12	0.00	3,546.63
MW - 7	*11/01/10*	3,569.75	-	22.31	0.00	3,547.44
MW - 7	*02/10/11*	3,569.75	-	22.31	0.00	3,547.44
MW - 7	*05/04/11*	3,569.75	-	23.13	0.00	3,546.62
MW - 7	*08/03/11*	3,569.75	-	22.31	0.00	3,547.44
MW - 7	*11/11/11*	3,569.75	-	23.28	0.00	3,546.47
MW - 8	10/07/05	3,573.59	-	20.75	0.00	3,552.84
MW - 8	*12/02/05*	3,573.59	-	20.90	0.00	3,552.69
MW - 8	*03/08/06*	3,573.59	-	20.95	0.00	3,552.64
MW - 8	*06/07/06*	3,573.59	-	21.06	0.00	3,552.53
MW - 8	*09/12/06*	3,573.59	-	15.85	0.00	3,557.74
MW - 8	*11/22/06*	3,573.59	-	20.53	0.00	3,553.06
MW - 8	*02/21/07*	3,573.59	-	20.93	0.00	3,552.66
MW - 8	*05/16/07*	3,573.59	-	21.96	0.00	3,551.63
MW - 8	*08/10/07*	3,573.59	-	21.01	0.00	3,552.58
MW - 8	*12/28/07*	3,573.59	-	21.04	0.00	3,552.55

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0103

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 8	*02/18/08*	3,573.59	-	21.06	0.00	3,552.53
MW - 8	*05/08/08*	3,573.59	-	21.08	0.00	3,552.51
MW - 8	*08/08/08*	3,573.59	-	21.19	0.00	3,552.40
MW - 8	*11/07/08*	3,573.59	-	21.11	0.00	3,552.48
MW - 8	*02/06/09*	3,573.59	-	21.19	0.00	3,552.40
MW - 8	*05/07/09*	3,573.59	-	21.14	0.00	3,552.45
MW - 8	*08/04/09*	3,573.59	-	21.08	0.00	3,552.51
MW - 8	*11/09/09*	3,573.59	-	21.10	0.00	3,552.49
MW - 8	01/05/10	3,573.59	-	21.14	0.00	3,552.45
MW - 8	*02/04/10*	3,573.59	-	21.13	0.00	3,552.46
MW - 8	*08/09/10*	3,573.59	-	21.12	0.00	3,552.47
MW - 8	*11/01/10*	3,573.59	-	20.97	0.00	3,552.62
MW - 8	*02/10/11*	3,573.59	-	20.97	0.00	3,552.62
MW - 8	*05/04/11*	3,573.59	-	21.08	0.00	3,552.51
MW - 8	*08/03/11*	3,573.59	-	20.95	0.00	3,552.64
MW - 8	*11/11/11*	3,573.59	-	21.26	0.00	3,552.33

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Limit		**0.01**	**0.75**	**0.75**	**0.62**	
MW - 1	02/23/00	**0.12**	0.02	0.011	0.073	0.039
MW - 1	04/06/00	**0.355**	0.024	0.022	0.274	0.083
MW - 1	05/18/04	**1.74**	0.031	0.218	**1.16**	**0.415**
MW - 1	09/07/04	**1.16**	0.011	0.189	**1.21**	**0.335**
MW - 1	12/14/04	**0.309**	<0.005	0.116	0.572	
MW - 1	03/08/05	**0.19**	0.0198	0.173	0.556	
MW - 1	06/07/05	**0.554**	<0.2	<0.2	0.572	
MW - 1	09/07/05	**0.639**	<0.01	0.204	**0.985**	
MW - 1	12/02/05	**0.299**	<0.1	<0.1	<0.1	
MW - 1	03/08/06	**0.247**	<0.02	0.0436	0.154	
MW - 1	06/07/06	**0.198**	<0.005	0.0324	0.117	
MW - 1	09/12/06	**0.303**	<0.2	<0.2	0.498	
MW - 1	11/22/06	**0.407**	<0.001	0.323	**0.949**	
MW - 1	02/21/07	**0.283**	<0.05	0.14	0.348	
MW - 1	05/16/07	**0.213**	<0.02	0.118	0.356	
MW - 1	08/10/07	**0.0109**	<0.001	0.0038	0.0099	
MW - 1	12/28/07	**0.139**	<0.005	0.0596	0.0882	
MW - 1	02/18/08	**0.117**	<0.001	0.0303	0.0.642	
MW - 1	05/12/08	**0.102**	<0.001	0.0054	0.0079	
MW - 1	08/08/08	**0.105**	<0.001	0.0310	0.0326	
MW - 1	11/07/08	**0.0375**	<0.001	0.0060	0.0049	
MW - 1	02/06/09	**0.0110**	<0.001	<0.001	<0.001	
MW - 1	05/07/09	**0.0148**	<0.001	<0.001	0.0070	
MW - 1	08/04/09	**0.0197**	<0.001	<0.001	<0.001	
MW - 1	11/09/09	0.0060	<0.001	<0.001	<0.001	
MW - 1	02/04/10	**0.0311**	<0.001	<0.001	<0.001	
MW - 1	08/09/10	**0.1170**	<0.001	0.0039	<0.001	
MW - 1	11/01/10	**0.0822**	<0.001	<0.001	<0.001	
MW - 1	02/10/11	**0.0242**	<0.001	<0.001	<0.001	
MW - 1	05/04/11	**0.0275**	<0.001	<0.001	<0.001	
MW - 1	08/03/11	**0.0880**	<0.001	<0.001	<0.001	
MW - 1	11/11/11	**0.0388**	<0.001	<0.001	<0.001	
MW - 2	02/23/00	**0.196**	0.004	<0.001	0.037	0.003
MW - 2	04/06/00	**0.278**	0.005	0.002	0.086	<0.001
MW - 2	08/29/00	**0.272**	0.007	0.026	0.055	0.026
MW - 2	12/04/00	**0.046**	<0.001	0.006	0.009	0.002
MW - 2	01/23/01	**0.111**	<0.001	0.006	0.016	0.001
MW - 2	05/16/01	**0.0937**	<0.001	<0.001	0.0013	
MW - 2	08/06/01	**0.096**	<0.001	0.025	0.013	0.002
MW - 2	10/29/01	**0.049**	<0.001	0.024	0.003	0.001

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o-XYLENE
NMOCD Regulatory Limit		**0.01**	**0.75**	**0.75**	**0.62**	
MW - 2	03/29/02	**0.025**	0.004	0.023	0.101	0.036
MW - 2	05/20/02	**0.025**	<0.001	0.037	0.048	0.03
MW - 2	09/10/02	**0.042**	<0.001	0.019	0.018	0.007
MW - 2	11/14/02	**0.032**	<0.001	0.018	0.032	0.013
MW - 2	12/03/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 2	03/03/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 2	05/18/04	0.00726	<0.001	0.00802	0.0169	0.00673
MW - 2	09/07/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 2	12/14/04	0.0039	<0.001	0.0139	0.0149	
MW - 2	03/08/05	Not sampled due to well obstruction				
MW - 2	06/07/05	<0.001	<0.001	<0.001	<0.001	
MW - 2	09/07/05	0.0022	<0.001	0.0238	0.0361	
MW - 2	12/02/05	0.0017	<0.001	0.0024	0.0025	
MW - 2	03/08/06	0.0058	<0.001	0.0054	0.0112	
MW - 2	06/07/06	<0.005	<0.005	<0.005	<0.005	
MW - 2	09/12/06	0.0092	<0.001	0.105	0.184	
MW - 2	11/22/06	0.0044	<0.001	0.0313	0.0384	
MW - 2	02/21/07	0.002	<0.001	0.005	0.0109	
MW - 2	05/16/07	<0.001	<0.001	0.0086	0.0122	
MW - 2	08/10/07	0.004	<0.001	0.0076	0.0201	
MW - 2	12/28/07	0.0019	<0.001	0.0057	0.0074	
MW - 2	02/18/08	0.0014	<0.001	0.0017	0.0033	
MW - 2	05/12/08	<0.001	<0.001	<0.001	0.0015	
MW - 2	08/08/08	<0.001	<0.001	<0.001	<0.001	
MW - 2	11/07/08	<0.001	<0.001	<0.001	<0.001	
MW - 2	02/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 2	05/07/09	<0.001	<0.001	<0.001	<0.001	
MW - 2	08/04/09	<0.001	<0.001	<0.001	<0.001	
MW - 2	11/09/09	<0.001	<0.001	<0.001	<0.001	
MW - 2	02/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 2	08/09/10	0.0013	0.0013	0.001	0.0027	
MW - 2	11/01/10	<0.001	<0.001	<0.001	<0.001	
MW - 2	02/10/11	0.007	0.007	<0.001	0.0197	
MW - 2	05/04/11	<0.001	<0.001	<0.001	<0.001	
MW - 2	08/03/11	<0.001	<0.001	<0.001	<0.001	
MW - 2	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/23/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 3	04/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 3	08/29/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 3	12/04/00	<0.001	<0.001	<0.001	<0.001	<0.001

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Limit		0.01	0.75	0.75	0.62	
MW - 3	01/23/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 3	05/16/01	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/06/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 3	10/29/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 3	03/29/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 3	05/20/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 3	09/10/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 3	11/14/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 3	12/03/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 3	03/03/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 3	12/14/04	<0.001	<0.001	<0.001	<0.001	
MW - 3	03/08/05	Not Sampled on Current Sample Schedule				
MW - 3	06/07/05	Not Sampled on Current Sample Schedule				
MW - 3	09/07/05	Not Sampled on Current Sample Schedule				
MW - 3	12/02/05	<0.001	<0.001	<0.001	<0.001	
MW - 3	03/08/06	Not Sampled on Current Sample Schedule				
MW - 3	06/07/06	Not Sampled on Current Sample Schedule				
MW - 3	09/12/06	Not Sampled on Current Sample Schedule				
MW - 3	11/22/06	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/21/07	Not Sampled on Current Sample Schedule				
MW - 3	05/16/07	Not Sampled on Current Sample Schedule				
MW - 3	08/10/07	Not Sampled on Current Sample Schedule				
MW - 3	12/28/07	<0.001	<0.001	<0.001	<0.001	
MW - 3	11/07/08	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/06/09	Not Sampled on Current Sample Schedule				
MW - 3	05/07/09	Not Sampled on Current Sample Schedule				
MW - 3	08/04/09	Not Sampled on Current Sample Schedule				
MW - 3	11/09/09	<0.001	<0.001	<0.001	<0.001	
MW - 3	11/01/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/10/11	Not Sampled on Current Sample Schedule				
MW - 3	05/04/11	Not Sampled on Current Sample Schedule				
MW - 3	08/03/11	Not Sampled on Current Sample Schedule				
MW - 3	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 4	05/18/04	<0.001	<0.001	0.00157	0.00684	<0.001
MW - 4	09/07/04	<0.001	<0.001	0.00225	<0.002	<0.001
MW - 4	12/14/04	<0.005	<0.005	<0.005	<0.005	
MW - 4	03/08/05	**0.0189**	0.0165	<0.01	0.0379	
MW - 4	06/07/05	<0.005	<0.005	<0.005	<0.005	
MW - 4	09/07/05	<0.005	<0.005	<0.005	<0.005	
MW - 4	12/02/05	<0.001	<0.001	<0.001	<0.001	

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Limit		**0.01**	**0.75**	**0.75**	**0.62**	
MW - 4	03/08/06	<0.001	<0.001	<0.001	<0.001	
MW - 4	06/07/06	Not sampled				
MW - 4	09/12/06	<0.001	<0.001	<0.001	<0.001	
MW - 4	11/22/06	0.0018	<0.001	<0.001	0.0021	
MW - 4	02/21/07	<0.001	<0.001	<0.001	0.0049	
MW - 4	05/16/07	<0.001	<0.001	<0.001	0.0019	
MW - 4	08/10/07	<0.001	<0.001	<0.001	<0.001	
MW - 4	12/28/07	<0.001	<0.001	<0.001	0.0015	
MW - 4	02/18/08	<0.001	<0.001	<0.001	<0.001	
MW - 4	05/12/08	0.0016	<0.001	<0.001	<0.001	
MW - 4	08/08/08	<0.001	<0.001	<0.001	<0.001	
MW - 4	11/07/08	0.0088	0.0213	0.0052	0.0256	
MW - 4	02/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 4	05/07/09	<0.001	<0.001	<0.001	<0.001	
MW - 4	08/04/09	<0.001	<0.001	<0.001	<0.001	
MW - 4	11/09/09	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 4	08/09/10	<0.001	<0.001	<0.001	0.002	
MW - 4	11/01/10	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/10/11	<0.001	<0.001	<0.001	0.0195	
MW - 4	05/04/11	<0.001	<0.001	<0.001	<0.001	
MW - 4	08/03/11	<0.001	<0.001	<0.001	<0.001	
MW - 4	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/23/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	04/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	08/29/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	12/04/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	01/23/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	05/16/01	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/06/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	10/29/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	03/29/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	05/20/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	09/10/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	11/14/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	12/03/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 5	03/03/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 5	12/14/04	<0.001	<0.001	<0.001	<0.001	
MW - 5	03/08/05	Not Sampled on Current Sample Schedule				
MW - 5	06/07/05	Not Sampled on Current Sample Schedule				

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Limit		**0.01**	**0.75**	**0.75**	**0.62**	
MW - 5	09/07/05	Not Sampled on Current Sample Schedule				
MW - 5	12/02/05	<0.001	<0.001	<0.001	<0.001	
MW - 5	03/08/06	Not Sampled on Current Sample Schedule				
MW - 5	06/07/06	Not Sampled on Current Sample Schedule				
MW - 5	09/12/06	Not Sampled on Current Sample Schedule				
MW - 5	11/22/06	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/21/07	Not Sampled on Current Sample Schedule				
MW - 5	05/16/07	Not Sampled on Current Sample Schedule				
MW - 5	08/10/07	Not Sampled on Current Sample Schedule				
MW - 5	12/28/07	<0.001	<0.001	<0.001	<0.001	
MW - 5	11/07/08	<0.001	<0.001	0.0012	0.0038	
MW - 5	02/06/09	Not Sampled on Current Sample Schedule				
MW - 5	05/07/09	Not Sampled on Current Sample Schedule				
MW - 5	08/04/09	Not Sampled on Current Sample Schedule				
MW - 5	11/09/09	<0.001	<0.001	<0.001	<0.001	
MW - 5	11/01/10	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/10/11	Not Sampled on Current Sample Schedule				
MW - 5	05/04/11	Not Sampled on Current Sample Schedule				
MW - 5	08/03/11	Not Sampled on Current Sample Schedule				
MW - 5	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 6	09/27/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	10/29/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	03/29/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	05/20/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	09/10/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	11/14/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	12/03/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 6	03/03/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 6	12/14/04	<0.001	<0.001	<0.001	<0.001	
MW - 6	03/08/05	Not Sampled on Current Sample Schedule				
MW - 6	06/07/05	Not Sampled on Current Sample Schedule				
MW - 6	09/07/05	Not Sampled on Current Sample Schedule				
MW - 6	12/02/05	<0.001	<0.001	<0.001	<0.001	
MW - 6	03/08/06	Not Sampled on Current Sample Schedule				
MW - 6	06/07/06	Not Sampled on Current Sample Schedule				
MW - 6	09/12/06	Not Sampled on Current Sample Schedule				
MW - 6	11/22/06	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/21/07	Not Sampled on Current Sample Schedule				
MW - 6	05/16/07	Not Sampled on Current Sample Schedule				
MW - 6	08/10/07	Not Sampled on Current Sample Schedule				

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Limit		**0.01**	**0.75**	**0.75**	**0.62**	
MW - 6	12/28/07	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/07/08	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/06/09	Not Sampled on Current Sample Schedule				
MW - 6	05/07/09	Not Sampled on Current Sample Schedule				
MW - 6	08/04/09	Not Sampled on Current Sample Schedule				
MW - 6	11/09/09	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/01/10	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/10/11	Not Sampled on Current Sample Schedule				
MW - 6	03/21/11	Well Plugged and Abandoned				
MW - 7	09/27/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	10/29/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	03/29/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	05/20/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	09/10/02	0.008	0.006	0.003	0.017	0.007
MW - 7	11/14/02	0.009	0.009	0.005	0.029	0.012
MW - 7	12/03/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 7	03/03/04	0.00146	<0.001	<0.001	0.00369	<0.001
MW - 7	12/14/04	<0.001	<0.001	<0.001	<0.001	
MW - 7	03/08/05	Not Sampled on Current Sample Schedule				
MW - 7	06/07/05	<0.001	<0.001	<0.001	<0.001	
MW - 7	09/07/05	Not Sampled on Current Sample Schedule				
MW - 7	12/02/05	<0.001	<0.001	<0.001	<0.001	
MW - 7	03/08/06	Not Sampled on Current Sample Schedule				
MW - 7	06/07/06	<0.005	<0.005	<0.005	<0.005	
MW - 7	09/12/06	Not Sampled on Current Sample Schedule				
MW - 7	11/22/06	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/21/07	Not Sampled on Current Sample Schedule				
MW - 7	05/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/10/07	Not Sampled on Current Sample Schedule				
MW - 7	12/28/07	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/12/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/07/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/06/09	Not Sampled on Current Sample Schedule				
MW - 7	05/07/09	<0.001	<0.001	0.0062	0.0088	
MW - 7	08/04/09	Not Sampled on Current Sample Schedule				
MW - 7	11/09/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/01/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/10/11	Not Sampled on Current Sample Schedule				
MW - 7	05/04/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/03/11	Not Sampled on Current Sample Schedule				

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
LF - 59
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0103

All results are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o - XYLENE
NMOCD Regulatory Limit		0.01	0.75	0.75	0.62	
MW - 7	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	10/10/05	<0.001	<0.001	<0.001	<0.001	
MW - 8	12/02/05	<0.001	<0.001	<0.001	<0.001	
MW - 8	03/08/06	<0.001	<0.001	<0.001	<0.001	
MW - 8	06/07/06	<0.005	<0.005	<0.005	<0.005	
MW - 8	09/12/06	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/22/06	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/21/07	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/10/07	<0.001	<0.001	<0.001	<0.001	
MW - 8	12/28/07	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/18/08	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/12/08	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/08/08	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/07/08	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/07/09	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/04/09	<0.001	0.0048	<0.001	0.0152	
MW - 8	11/09/09	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/09/10	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/01/10	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/10/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/04/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/03/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/11/11	<0.001	<0.001	<0.001	<0.001	