

1R-124

**Plains
Monument #18**

**Annual Report
2013**

**2013
ANNUAL MONITORING REPORT**

MONUMENT 18

NW ¼ NW ¼ SECTION 7, TOWNSHIP 20 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
PLAINS SRS NUMBER: TNM MONUMENT 18-KNOWN
NMOCD Reference 1R-0124

Prepared For:

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



Prepared By:

NOVA Safety and Environmental
2057 Commerce Street
Midland, Texas 79703

March 2014


Nikki Green
Project Manager

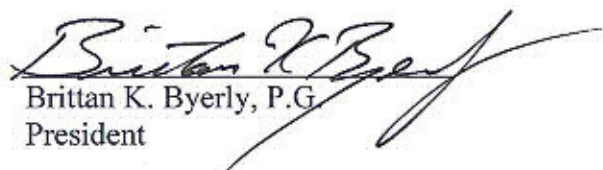

Brittan K. Byerly, P.G.
President

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ENCLOSED ON DATA DISK

2013 Annual Monitoring Report

2013 Tables 1, 2 and 3 – Groundwater Elevation and BTEX Concentration Data

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Electronic Copies of Laboratory Reports

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

INTRODUCTION

On behalf of Plains Marketing, L.P., (Plains), NOVA Safety and Environmental (NOVA) is pleased to submit this 2013 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 Monument 18 Site (the site), formally the responsibility of Enron Oil Trading and Transportation (EOTT), is now the responsibility of Plains. This report is intended to be viewed as a complete document with figures, attachments, tables and text. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2013 only. For reference, the Site Location Map is provided as Figure 1. Cumulative tables and laboratory data are provided on the enclosed data disk.

Groundwater monitoring was conducted each quarter of 2013 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbon (PSH). The groundwater monitoring events consisted of measuring static water levels in the monitor wells, checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing a thickness of PSH greater than 0.01 foot were not sampled.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The legal description of the site location is NW ¼ NW ¼, Section 7, Township 20 South, Range 37 East, Lea County, New Mexico. No information with respect to the release date or volume of crude oil released and recovered is available as the release occurred while the pipeline was operated by Texas New Mexico Pipe Line Company (TNM). The Release Notification and Corrective Action Form (C-141) is provided as Appendix A.

A Remediation Summary and Proposed Soil Closure Strategy (Work Plan) was submitted to the NMOCD in March 2013. The Work Plan proposed soil remediation activities intended to progress the site toward an NMOCD approved closure.

On April 22, 2013, Plains received approval from the NMOCD to commence the activities outlined in the Work Plan. Excavation activities began during the 3rd quarter of 2013 and are in progress. Following the completion of the soil remediation activities, a *Soil Closure Request*, will be submitted to the NMOCD for approval.

Currently, there are nine monitor wells (MW-1 and MW-3 through MW-10) on site. During soil remediation activities, monitor well MW-4 was not gauged or sampled during the 4th quarter sampling event of 2013 due its location within the excavation. Manual recovery of PSH is performed on a weekly schedule.

FIELD ACTIVITIES

Product Recovery Efforts

A measurable thickness of PSH was present in monitor wells MW-1 and MW-4 during the reporting period. Monitor well MW-4 was not gauged during the 4th quarter due to its location within the excavation. The average PSH thickness was 1.19 feet in monitor well MW-1 and 0.15 feet in monitor well MW-4. The maximum measured PSH thickness of 1.92 feet was observed

in monitor well MW-1 on November 19, 2013. PSH data for the 2013 gauging events can be found in Table 1. Approximately 13.20 gallons (0.31 barrels) of PSH was recovered from the site during the 2013 reporting period. Approximately 703.5 total gallons of hydrocarbons (16.75 barrels) have been recovered since project inception. Recovery of PSH at the site is by manual recovery methods and is performed on a weekly schedule.

Groundwater Monitoring

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

NMOCD APPROVED SAMPLING SCHEDULE			
Location	Schedule	Location	Schedule
MW-1	Quarterly	MW-6	Annually
MW-2	Plugged and Abandoned	MW-7	Annually
MW-3	Quarterly	MW-8	Annually
MW-4	Quarterly	MW-9	Quarterly
MW-5	Semi-Annually	MW-10	Quarterly

The site monitor wells were gauged and sampled on February 6, May 23, August 1, and November 27, 2013. During each sampling event the monitor wells were purged of a minimum of three well volumes of water or until the wells were dry using a disposable polyethylene bailer or electrical Grundfos pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were collected in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of at a licensed disposal facility.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during the four quarterly monitoring events, are depicted on Figures 2A through 2D, the Inferred Groundwater Gradient Map(s). Groundwater elevation data for 2013 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 0.0013 feet per foot to the southeast.

LABORATORY RESULTS

Groundwater samples obtained during the quarterly sampling events of 2013 were delivered to Trace Analysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method 8021B. Polynuclear Aromatic Hydrocarbons (PAH) analysis was conducted on monitor well MW-3 during the 4th quarter sampling event. PAH analysis scheduled to be conducted on monitor wells MW-1 and MW-4 during 2013 was suspended due to the presence of PSH during the 4th quarter sampling event. 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 2013 are summarized in Table 2 and the historic PAH constituent concentrations are summarized in Table

3. Copies of the laboratory reports generated for 2013 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. Monitor well MW-1 was not sampled during the four quarters of the reporting period, due to the reported presence of PSH in the monitor well. PSH thicknesses of 0.77 feet, 0.98 feet, 1.18 feet, and 1.82 feet were reported during the 1st, 2nd, 3rd, and 4th quarters of 2013, respectively. PAH analysis was not conducted during the 4th quarter sampling event due to the presence of PSH.

Monitor well MW-3 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.0500 mg/L during the 4th quarter to 0.0212 mg/L during the 3rd quarter. Benzene concentrations were above NMOCD regulatory guideline of 0.01 mg/L during the four quarters of the reporting period. Toluene concentrations were below MDL and NMOCD regulatory guideline of 0.75mg/L during the four quarters of 2013. Ethylbenzene concentrations ranged from <0.00500 mg/L during the 2nd quarter to 0.00830 mg/L during the 3rd quarter of 2013. Ethylbenzene concentrations were below NMOCD regulatory guideline of 0.75 mg/L during the four quarters of the reporting period. Xylene concentrations ranged from <0.00500 mg/L during the 2nd quarter to 0.0190 mg/L during the 1st quarter. Xylene concentrations were below NMOCD regulatory guideline of 0.62 mg/L during the four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for Phenanthrene (0.015 mg/L).

Monitor well MW-4 is sampled on a quarterly schedule. Monitor well MW-4 was not sampled during the four quarters of the reporting period, due to the reported presence of PSH in the monitor well during the 1st, 2nd, and 3rd quarters of 2013 and excavation activities during the 4th quarter of 2013. PSH thicknesses of 0.10 feet, 0.22 feet, and 0.13 feet were reported during the 1st, 2nd, and 3rd quarters of 2013, respectively. PAH analysis was not conducted during the 4th quarter sampling event due to its location within the excavation.

Monitor well MW-5 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines for each BTEX constituent during the 2nd and 4th quarter sampling events. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 3rd quarter sampling event of 1999. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-6 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines for each BTEX constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 3rd quarter sampling event of 1999. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-7 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines for each BTEX constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 3rd quarter sampling event of 1999. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-8 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines for each BTEX constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 3rd quarter sampling event of 1999. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-9 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines for each BTEX constituent during all four quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 4th quarter sampling event of 2004. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-10 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines for each BTEX constituent during the all four quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 4th quarter sampling event of 2004. PAH analysis was not required during the 4th quarter sampling event.

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

SUMMARY

This report presents the results of monitoring activities for the 2013 annual monitoring period. Currently, there are nine groundwater monitor wells (MW-1 and MW-3 through MW-10) on site. Recovery of PSH at the site is achieved using manual recovery methods and is on a weekly schedule. The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of 0.0013 feet per foot to the southeast.

As discussed above, two monitor wells (MW-1, and MW-4) contained measurable PSH thicknesses during the four sampling events of the reporting period, with the exception of MW-4, which was not gauged due to its location within the excavation. Monitor wells MW-1 and MW-4 had exhibited an average PSH thickness of 1.19 feet and 0.15 feet, respectively. Approximately 13.20 gallons (0.31 barrels) of PSH was recovered from the site during the 2013 reporting period. Approximately 703.5 total gallons of hydrocarbons (16.75 barrels) have been recovered since project inception.

BTEX constituent concentrations were below NMOCD regulatory guidelines in five (5) of the nine (9) monitor wells during 2013. Dissolved phase and phase separated hydrocarbon impact appears to be limited to monitor wells MW-1, MW-3 and MW-4. Review of PAH analysis indicates monitor well MW-3 was above WQCC Drinking Water Standards during the reporting period.

A Work Plan was submitted to the NMOCD in March 2013. The Work Plan proposed soil remediation activities intended to progress the site toward an NMOCD approved closure.

On April 22, 2013, Plains received approval from the NMOCD to commence the activities outlined in the Work Plan. Excavation activities began during the 3rd quarter of 2013 and are in progress. Recovery trenches were placed in the floor of the excavation to enhance PSH recovery. Following the completion of the soil remediation activities, a Soil Closure Request will be submitted to the NMOCD for approval.

ANTICIPATED ACTIONS

Quarterly monitoring, aggressive PSH recovery, and groundwater sampling will continue in 2014. Manual product recovery and gauging well be conducted on a weekly schedule and will be adjusted according to site conditions.

An Annual Monitoring Report will be submitted to the NMOCD before April 1, 2015.

LIMITATIONS

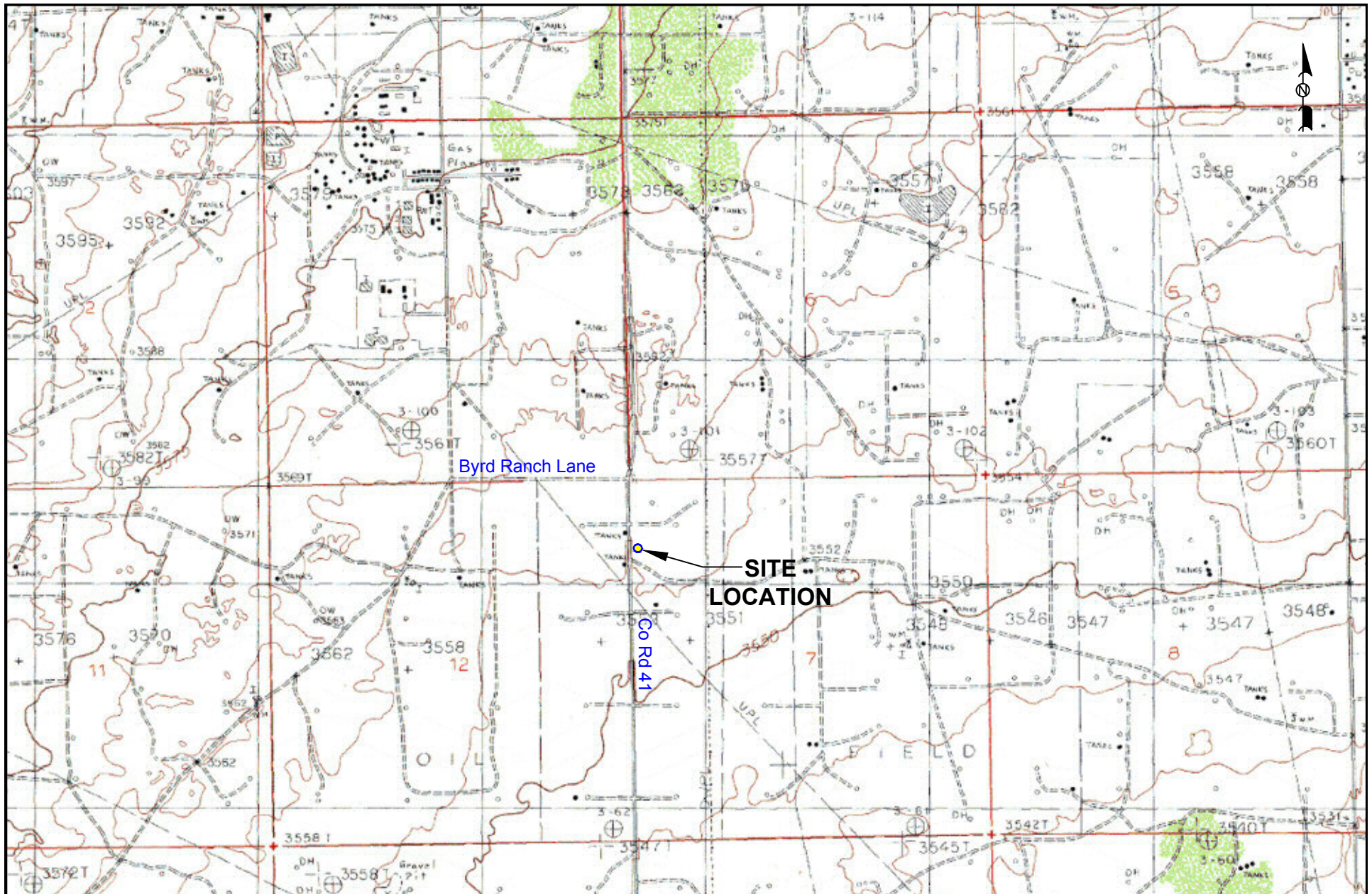
NOVA has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

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

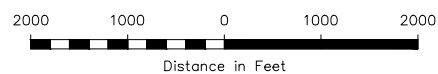
This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA and/or Plains.

DISTRIBUTION

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



LEGEND:



NMOCD Reference #1R-0124

Figure 1
Site Location Map
Monument 18
Plains Marketing, L.P.
Lea County, NM

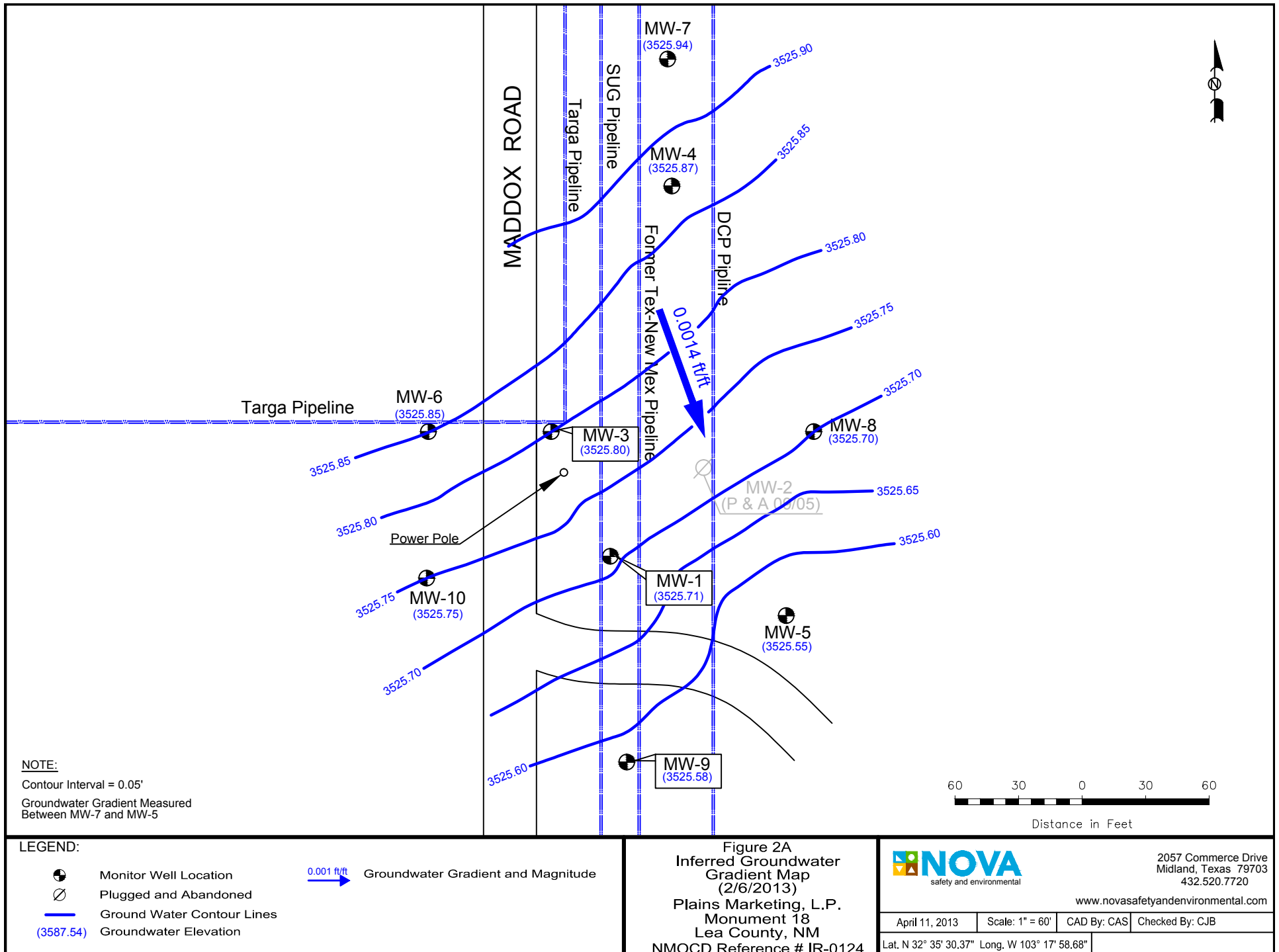


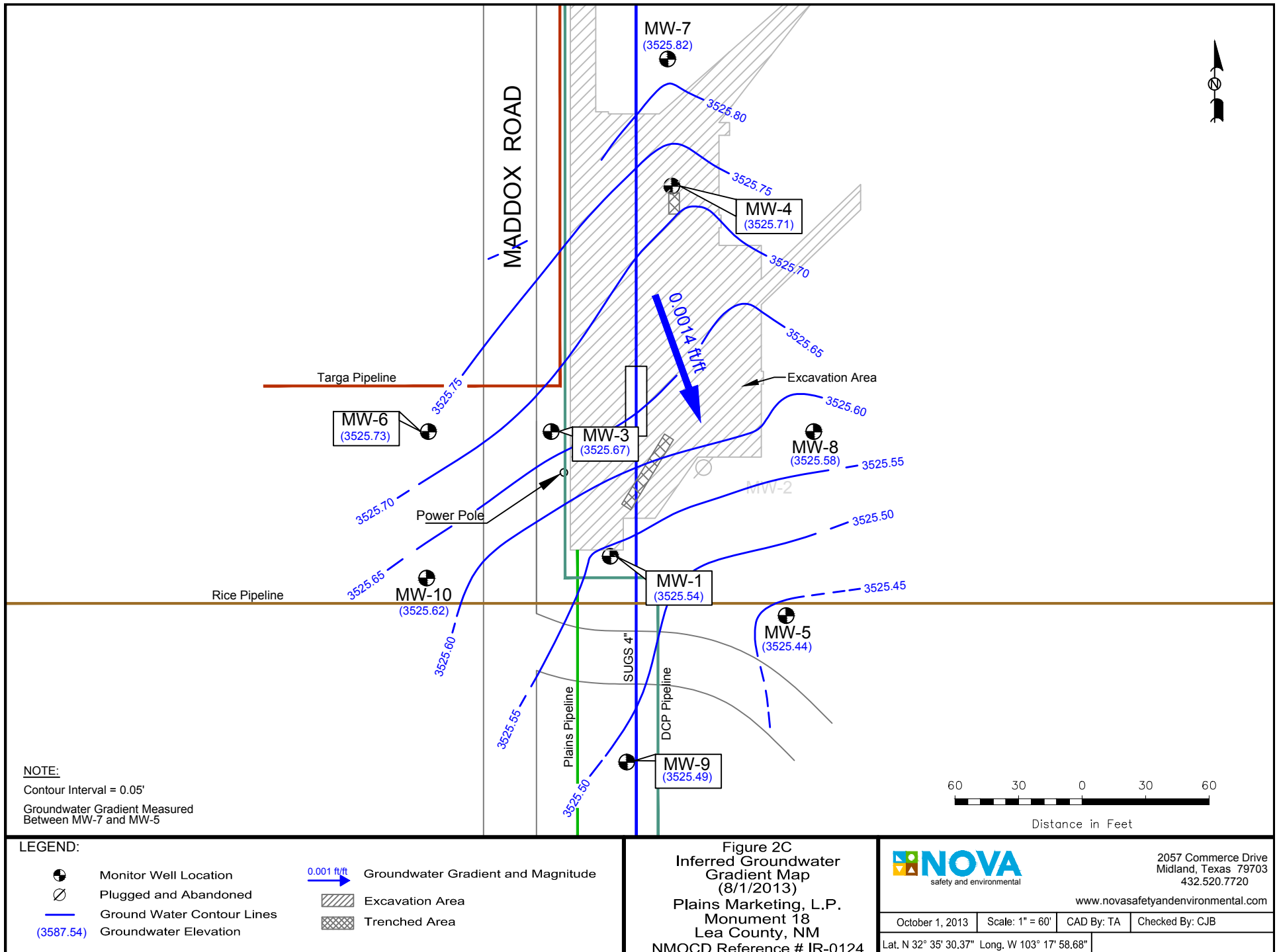
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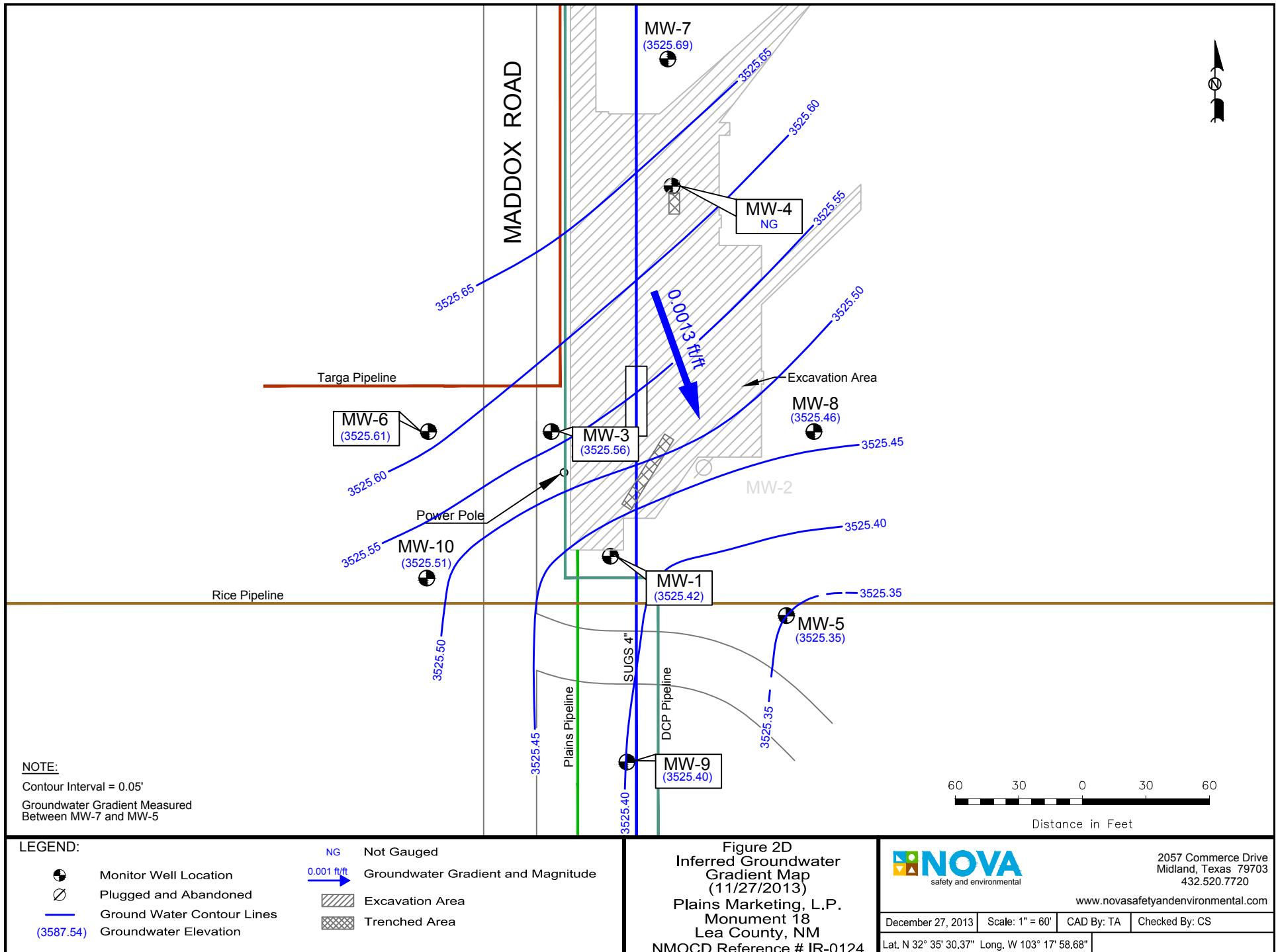
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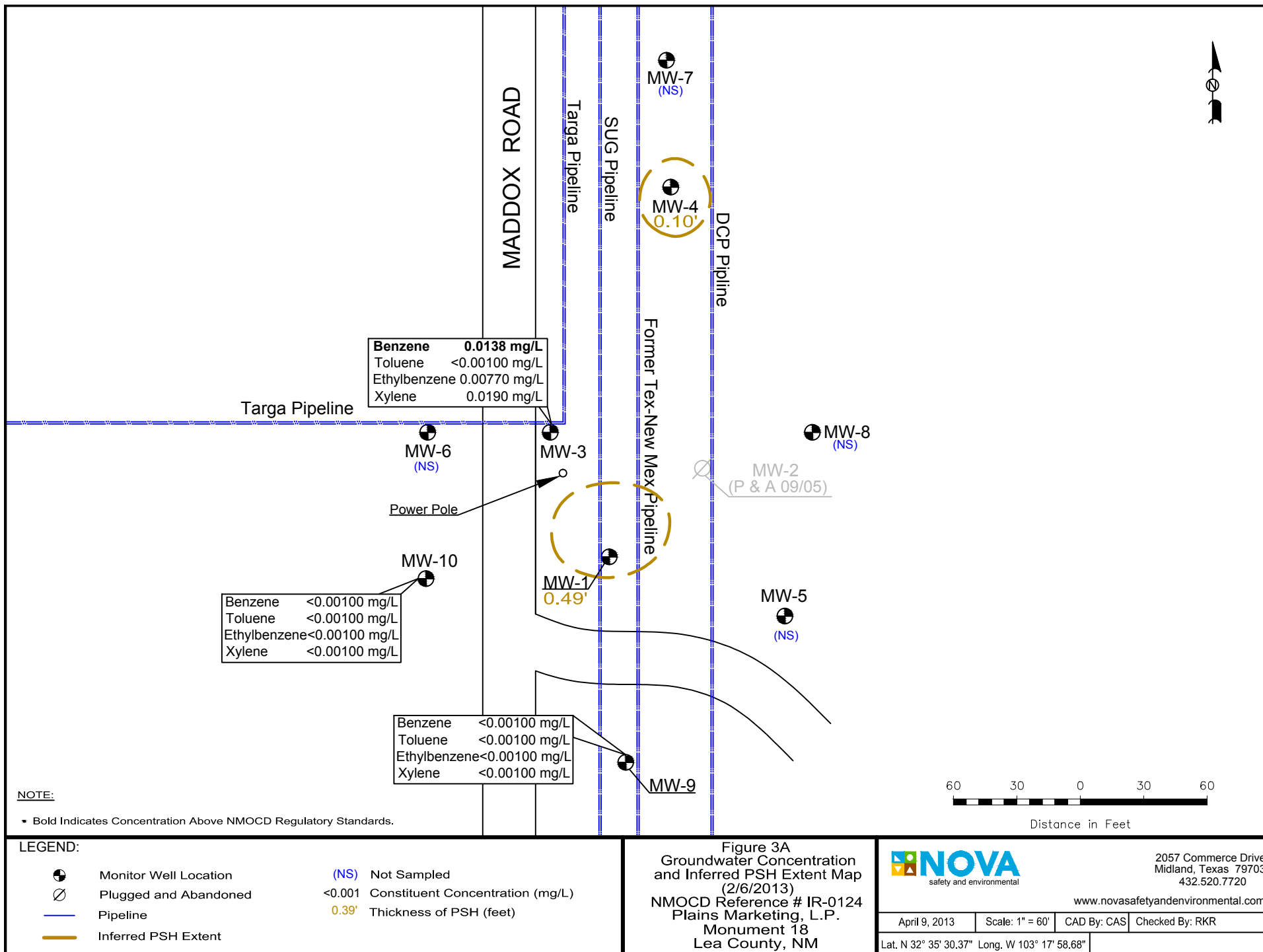
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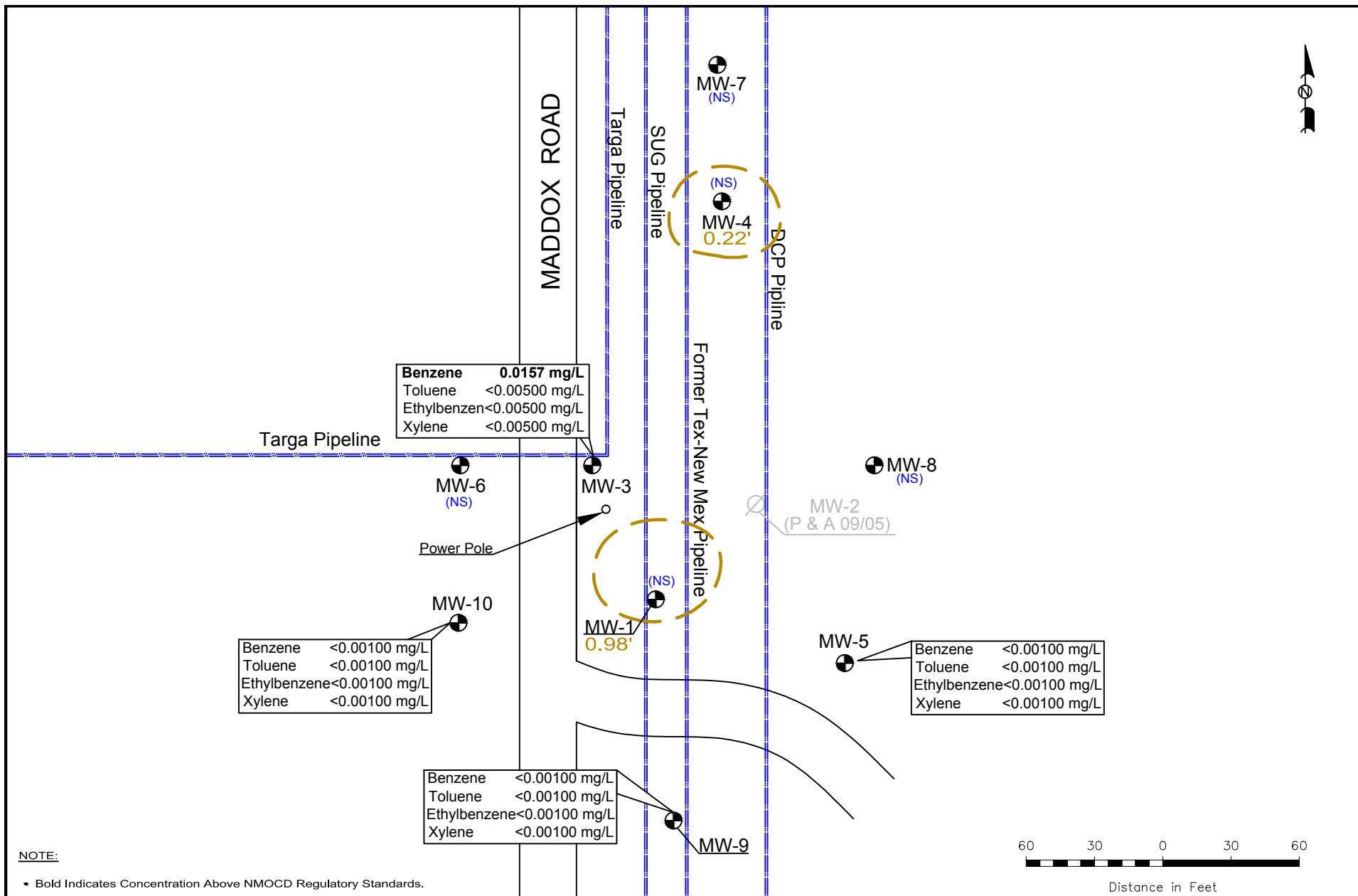
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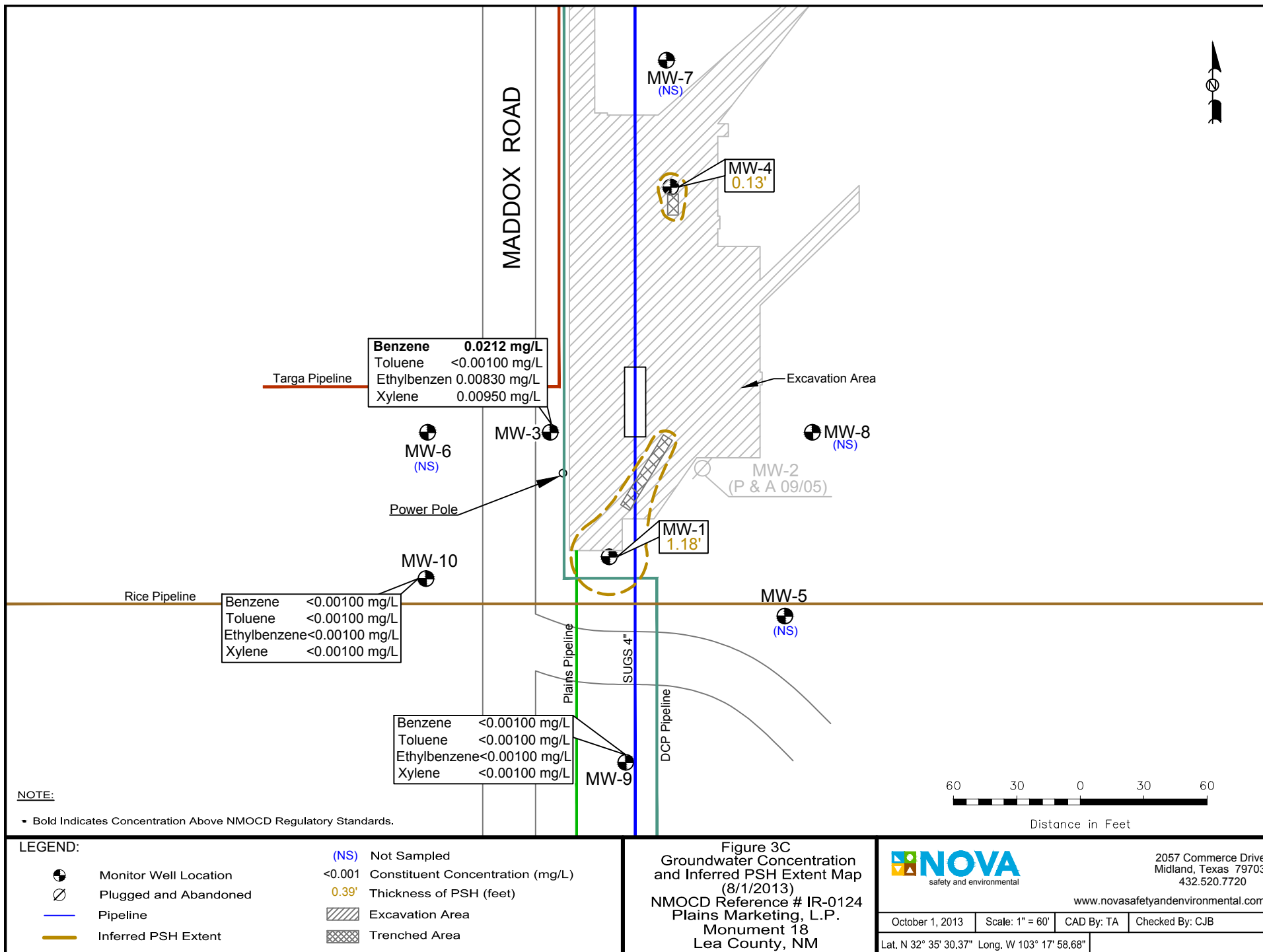












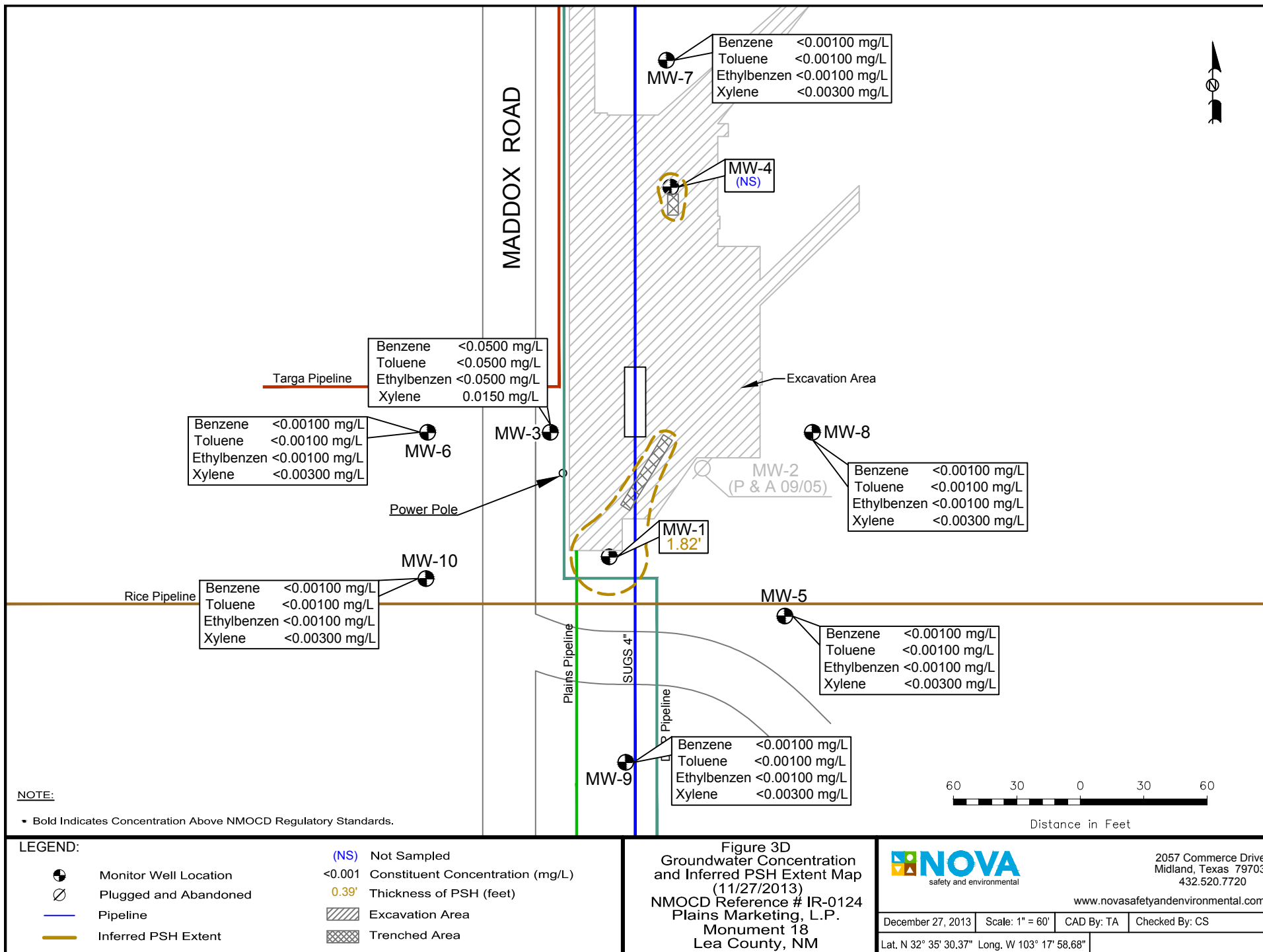


TABLE 1

2013 GROUNDWATER ELEVATION DATA

PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	01/14/13	3,558.71	32.92	33.54	0.62	3,525.70
MW - 1	02/04/13	3,558.71	32.90	33.67	0.77	3,525.69
MW - 1	02/06/13	3,558.71	32.93	33.42	0.49	3,525.71
MW - 1	03/04/13	3,558.71	32.80	33.88	1.08	3,525.75
MW - 1	04/10/13	3,558.71	32.89	33.94	1.05	3,525.66
MW - 1	04/22/13	3,558.71	32.62	33.75	1.13	3,525.92
MW - 1	05/23/13	3,558.71	32.85	33.83	0.98	3,525.71
MW - 1	05/30/13	3,558.71	32.88	33.41	0.53	3,525.75
MW - 1	06/06/13	3,558.71	32.91	33.70	0.79	3,525.68
MW - 1	06/20/13	3,558.71	32.93	33.75	0.82	3,525.66
MW - 1	07/02/13	3,558.71	32.99	33.76	0.77	3,525.60
MW - 1	08/01/13	3,558.71	32.99	34.17	1.18	3,525.54
MW - 1	11/12/13	3,558.71	33.06	34.86	1.80	3,525.38
MW - 1	11/12/13	3,558.71	33.15	35.03	1.88	3,525.28
MW - 1	11/19/13	3,558.71	33.02	34.84	1.82	3,525.42
MW - 1	11/19/13	3,558.71	33.12	35.04	1.92	3,525.30
MW - 1	11/27/13	3,558.71	33.02	34.84	1.82	3,525.42
MW - 1	12/17/13	3,558.71	33.06	34.95	1.89	3,525.37
MW - 3	01/14/13	3,558.53	-	32.74	0.00	3,525.79
MW - 3	02/04/13	3,558.53	-	32.74	0.00	3,525.79
MW - 3	02/06/13	3,558.53	-	32.73	0.00	3,525.80
MW - 3	03/04/13	3,558.53	-	32.73	0.00	3,525.80
MW - 3	04/05/13	3,558.53	-	32.73	0.00	3,525.80
MW - 3	04/08/13	3,558.53	-	32.70	0.00	3,525.83
MW - 3	04/10/13	3,558.53	-	32.75	0.00	3,525.78
MW - 3	04/22/13	3,558.53	-	32.74	0.00	3,525.79
MW - 3	05/23/13	3,558.53	-	32.70	0.00	3,525.83
MW - 3	05/30/13	3,558.53	-	32.74	0.00	3,525.79
MW - 3	06/06/13	3,558.53	-	32.75	0.00	3,525.78
MW - 3	06/20/13	3,558.53	-	32.76	0.00	3,525.77
MW - 3	07/02/13	3,558.53	-	32.79	0.00	3,525.74
MW - 3	08/01/13	3,558.53	-	32.86	0.00	3,525.67
MW - 3	11/27/13	3,558.53	-	32.97	0.00	3,525.56
MW - 4	01/14/13	3,558.14	32.35	32.41	0.06	3,525.78
MW - 4	02/04/13	3,558.14	32.24	32.41	0.17	3,525.87
MW - 4	02/06/13	3,558.14	32.26	32.36	0.10	3,525.87
MW - 4	03/04/13	3,558.14	-	32.62	0.00	3,525.52
MW - 4	04/10/13	3,558.14	32.24	32.64	0.40	3,525.84
MW - 4	04/22/13	3,558.14	32.26	32.46	0.20	3,525.85
MW - 4	05/23/13	3,558.14	32.23	32.45	0.22	3,525.88

TABLE 1

2013 GROUNDWATER ELEVATION DATA

PLAINS MAREKTING, L.P.
 MONUMENT 18
 LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	05/30/13	3,558.14	32.26	32.51	0.25	3,525.84
MW - 4	06/06/13	3,558.14	32.28	32.41	0.13	3,525.84
MW - 4	06/20/13	3,558.14	32.30	32.40	0.10	3,525.83
MW - 4	07/02/13	3,558.14	32.34	32.42	0.08	3,525.79
MW - 4	08/01/13	3,558.14	32.41	32.54	0.13	3,525.71
MW - 4	11/27/13	Unable to Gauge / Sample due to Excavation				
MW - 5	02/06/13	3,560.07	-	34.52	0.00	3,525.55
MW - 5	05/23/13	3,560.07	-	34.52	0.00	3,525.55
MW - 5	08/01/13	3,560.07	-	34.63	0.00	3,525.44
MW - 5	11/27/13	3,560.07	-	34.72	0.00	3,525.35
MW - 6	02/06/13	3,557.64	-	31.79	0.00	3,525.85
MW - 6	05/23/13	3,557.64	-	31.79	0.00	3,525.85
MW - 6	08/01/13	3,557.64	-	31.91	0.00	3,525.73
MW - 6	11/27/13	3,557.64	-	32.03	0.00	3,525.61
MW - 7	02/06/13	3,558.65	-	32.71	0.00	3,525.94
MW - 7	05/23/13	3,558.65	-	32.71	0.00	3,525.94
MW - 7	08/01/13	3,558.65	-	32.83	0.00	3,525.82
MW - 7	11/27/13	3,558.65	-	32.96	0.00	3,525.69
MW - 8	02/06/13	3,559.30	-	33.60	0.00	3,525.70
MW - 8	05/23/13	3,559.30	-	33.59	0.00	3,525.71
MW - 8	08/01/13	3,559.30	-	33.72	0.00	3,525.58
MW - 8	11/27/13	3,559.30	-	33.84	0.00	3,525.46
MW - 9	02/06/13	3,559.94	-	34.36	0.00	3,525.58
MW - 9	05/09/13	3,559.94	-	34.37	0.00	3,525.57
MW - 9	05/23/13	3,559.94	-	34.37	0.00	3,525.57
MW - 9	08/01/13	3,559.94	-	34.45	0.00	3,525.49
MW - 9	11/27/13	3,559.94	-	34.54	0.00	3,525.40
MW - 10	02/06/13	3558.06	-	32.31	0.00	3525.75
MW - 10	05/23/13	3558.06	-	32.32	0.00	3525.74
MW - 10	08/01/13	3558.06	-	32.44	0.00	3525.62
MW - 10	11/27/13	3558.06	-	32.55	0.00	3525.51

TABLE 2
2013 CONCENTRATIONS OF BTEX IN GROUNDWATER
PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOC D REFERENCE NUMBER 1R-0124

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOC D REGULATORY LIMIT		0.01	0.750	0.750	0.620	
MW - 1	02/06/13	Not Sampled due to PSH in Well				
MW - 1	05/23/13	Not Sampled due to PSH in Well				
MW - 1	08/01/13	Not Sampled due to PSH in Well				
MW - 1	11/27/13	Not Sampled due to PSH in Well				
MW - 3	02/06/13	0.0138	<0.00100	0.00770	0.0190	
MW - 3	05/23/13	0.0157	<0.00500	<0.00500	<0.00500	
MW - 3	08/01/13	0.0212	<0.00100	0.00830	0.00950	
MW - 3	11/27/13	<0.0500	<0.0500	<0.0500	<0.150	
MW - 4	02/06/13	Not Sampled due to PSH in Well				
MW - 4	05/23/13	Not Sampled due to PSH in Well				
MW - 4	08/01/13	Not Sampled due to PSH in Well				
MW - 4	11/27/13	Unable to Sample due to Excavation				
MW - 5	02/06/13	Not Sampled on Current Sample Schedule				
MW - 5	05/23/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	08/01/13	Not Sampled on Current Sample Schedule				
MW - 5	11/27/13	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 6	02/06/13	Not Sampled on Current Sample Schedule				
MW - 6	05/23/13	Not Sampled on Current Sample Schedule				
MW - 6	08/01/13	Not Sampled on Current Sample Schedule				
MW - 6	11/27/13	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 7	02/06/13	Not Sampled on Current Sample Schedule				
MW - 7	05/23/13	Not Sampled on Current Sample Schedule				
MW - 7	08/01/13	Not Sampled on Current Sample Schedule				
MW - 7	11/27/13	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 8	02/06/13	Not Sampled on Current Sample Schedule				
MW - 8	05/23/13	Not Sampled on Current Sample Schedule				
MW - 8	08/01/13	Not Sampled on Current Sample Schedule				
MW - 8	11/27/13	0.00100	<0.00100	<0.00100	<0.00300	
MW - 9	02/06/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 9	05/23/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 9	08/01/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 9	11/27/13	<0.00100	<0.00100	<0.00100	<0.00300	

TABLE 2
2013 CONCENTRATIONS OF BTEX IN GROUNDWATER
PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0124

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENE
NMOCD REGULATORY LIMIT		0.01	0.750	0.750	0.620	
MW - 10	02/06/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 10	05/23/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 10	08/01/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 10	11/27/13	<0.00100	<0.00100	<0.00100	<0.00300	

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOC REFERENCE NUMBER 1R-0124

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	11/05/08	<0.000917	<0.000917	0.00362	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.0169	<0.000917	0.01654	<0.000917	0.00796	0.0678	0.0197	0.0134
	11/04/09	<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	0.0019	<0.000184	0.000736	0.00928	0.00135	0.00276
	11/03/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	<0.00186	<0.00186	<0.00186	<0.00186	<0.00186	<0.00186	<0.00186	<0.00186	<0.00186	<0.00186	<0.00186	<0.00186	<0.00186	0.0095	<0.00186	<0.00186	0.0326	<0.00186	0.0104
	11/05/12	Not Sampled due to presence of PSH.																		
	11/27/13	Not Sampled due to presence of PSH.																		
MW-3	11/05/08	<0.000930	<0.000930	0.0018	<0.000930	<0.000930	<0.000930	<0.000930	<0.000930	<0.000930	<0.000930	<0.000930	0.0131	<0.000930	0.0187	<0.000930	0.0076	0.0563	0.0259	0.0122
	11/04/09	<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	0.0078	<0.000184	0.00188	0.0290	0.00342	0.00481
	11/03/10	Not Sampled due to presence of PSH.																		
	12/15/11	Not Sampled due to presence of PSH.																		
	11/05/12	Not Sampled due to presence of PSH.																		
	11/27/13	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.015	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-4	11/05/08	<0.000930	<0.000930	<0.000930	<0.000930	<0.000930	<0.000930	<0.000930	<0.000930	<0.000930	<0.000930	<0.000930	0.00648	<0.000930	0.0084	<0.000930	0.00378	0.0163	0.00778	0.00584
	11/04/09	<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	0.00174	<0.000184	0.00141	0.00559	0.00389	0.00118
	11/03/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	Not Sampled due to presence of PSH.																		
	11/05/12	Not Sampled due to presence of PSH.																		
	11/27/13	Not Sampled due to presence of PSH.																		
MW-5	11/05/08	<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	0.001	<0.000184	<0.000184	0.000825
	11/04/09	<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	0.000555
	11/03/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/05/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/27/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	11/05/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.000429
	11/04/09	<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
	11/03/10	Not Sampled as part of Quarterly Monitoring Event.																		

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0124

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	Dibenzo[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			--
	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/05/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/27/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/05/08	<0.000186	<0.000186	0.000538	0.000403	<0.000186	<0.000186	<0.000186	<0.000186	0.000371	<0.000186	0.000407	<0.000186	<0.000186	0.000577	0.000443	<0.000186	<0.000186	<0.000186	0.000774
	11/04/09	<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	0.000305	
	11/03/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	0.000443	
	11/05/12	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	<0.000189	
	11/27/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/05/08	<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	0.00067	
	11/04/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
	11/03/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/05/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/27/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	11/05/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	
	11/04/09	<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	
	11/03/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/05/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/27/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-10	11/05/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	
	11/04/09	<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	0.000511	
	11/03/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/05/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/27/13	Not Sampled as part of Quarterly Monitoring Event.																		

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company	Plains Pipeline, LP	Contact:	Camille Reynolds
Address:	3705 E. Hwy 158, Midland, TX 79706	Telephone No.	505-441-0965
Facility Name	Monument # 18	Facility Type:	Pipeline

Surface Owner: Jim B Cooper	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter D	Section 7	Township 20S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude 32 degrees 35' 30.0" Longitude 103 degrees 17' 55.9"

NATURE OF RELEASE

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

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Describe Area Affected and Cleanup Action Taken.*

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

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

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

* Attach Additional Sheets If Necessary

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	01/24/00	3,558.71	32.20	35.57	3.37	3,526.00
MW - 1	06/07/00	3,558.71	32.22	35.13	2.91	3,526.05
MW - 1	09/06/00	3,558.71	HIGH H2S IN AREA-NOT GAUGED			-
MW - 1	09/14/00	3,558.71	32.51	35.68	3.17	3,525.72
MW - 1	12/06/00	3,558.71	32.70	35.78	3.08	3,525.55
MW - 1	03/09/01	3,558.71	32.77	35.50	2.73	3,525.53
MW - 1	06/21/01	3,558.71	32.80	35.52	2.72	3,525.50
MW - 1	09/22/01	3,558.71	32.34	34.62	2.28	3,526.03
MW - 1	10/12/01	3,558.71	33.13	35.60	2.47	3,525.21
MW - 1	03/18/02	3,558.71	33.25	36.28	3.03	3,525.01
MW - 1	03/27/02	3,558.71	33.27	36.00	2.73	3,525.03
MW - 1	03/28/02	3,558.71	33.28	36.04	2.76	3,525.02
MW - 1	04/03/02	3,558.71	33.26	35.94	2.68	3,525.05
MW - 1	04/12/03	3,558.71	33.27	36.00	2.73	3,525.03
MW - 1	04/16/02	3,558.71	33.32	35.60	2.28	3,525.05
MW - 1	05/03/02	3,558.71	33.25	35.93	2.68	3,525.06
MW - 1	05/10/02	3,558.71	33.31	35.66	2.35	3,525.05
MW - 1	05/16/02	3,558.71	33.29	35.74	2.45	3,525.05
MW - 1	05/24/02	3,558.71	33.31	36.02	2.71	3,524.99
MW - 1	06/10/02	3,558.71	33.31	36.18	2.87	3,524.97
MW - 1	06/19/02	3,558.71	33.37	35.91	2.54	3,524.96
MW - 1	07/03/02	3,558.71	33.40	35.94	2.54	3,524.93
MW - 1	07/11/02	3,558.71	33.37	36.06	2.69	3,524.94
MW - 1	07/16/02	3,558.71	33.42	35.51	2.09	3,524.98
MW - 1	08/21/02	3,558.71	33.40	36.21	2.81	3,524.89
MW - 1	08/27/02	3,558.71	33.40	36.26	2.86	3,524.88
MW - 1	09/05/02	3,558.71	33.46	36.04	2.58	3,524.86
MW - 1	09/16/02	3,558.71	33.54	35.86	2.32	3,524.82
MW - 1	10/03/02	3,558.71	33.51	36.28	2.77	3,524.78
MW - 1	10/08/02	3,558.71	33.61	35.71	2.10	3,524.79
MW - 1	10/15/02	3,558.71	33.63	35.78	2.15	3,524.76
MW - 1	12/19/02	3,558.71	33.58	36.44	2.86	3,524.70
MW - 1	03/03/03	3,558.71	NM	NM	NM	NM
MW - 1	06/17/03	3,558.71	33.66	36.42	2.76	3,524.64
MW - 1	09/05/03	3,558.71	33.85	36.70	2.85	3,524.43
MW - 1	12/16/03	3,558.71	34.02	36.74	2.72	3,524.28
MW - 1	03/08/04	3,558.71	34.05	36.78	2.73	3,524.25
MW - 1	05/25/04	3,558.71	33.79	36.34	2.55	3,524.54
MW - 1	08/31/04	3,558.71	34.00	36.70	2.70	3,524.31
MW - 1	09/14/04	3,558.71	34.05	36.80	2.75	3,524.25
MW - 1	09/21/04	3,558.71	34.14	36.22	2.08	3,524.26
MW - 1	10/14/04	3,558.71	33.23	34.10	0.87	3,525.35
MW - 1	10/21/04	3,558.71	33.30	34.15	0.85	3,525.28
MW - 1	10/28/04	3,558.71	33.44	34.05	0.61	3,525.18
MW - 1	11/04/04	3,558.71	33.40	34.40	1.00	3,525.16
MW - 1	11/11/04	3,558.71	33.44	33.94	0.50	3,525.20
MW - 1	11/17/04	3,558.71	33.43	34.55	1.12	3,525.11
MW - 1	11/30/04	3,558.71	32.98	33.60	0.62	3,525.64
MW - 1	12/07/04	3,558.71	32.91	33.60	0.69	3,525.70
MW - 1	12/15/04	3,558.71	32.90	33.50	0.60	3,525.72
MW - 1	12/13/04	3,558.71	32.90	33.50	0.60	3,525.72
MW - 1	12/28/04	3,558.71	32.97	33.78	0.81	3,525.62
MW - 1	01/12/05	3,558.71	32.96	33.51	0.55	3,525.67
MW - 1	01/19/05	3,558.71	32.97	33.40	0.43	3,525.68
MW - 1	01/26/05	3,558.71	33.00	33.67	0.67	3,525.61

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	02/01/05	3,558.71	33.01	33.61	0.60	3,525.61
MW - 1	02/09/05	3,558.71	33.21	33.69	0.48	3,525.43
MW - 1	02/16/05	3,558.71	32.99	33.60	0.61	3,525.63
MW - 1	02/23/05	3,558.71	33.00	33.49	0.49	3,525.64
MW - 1	03/02/05	3,558.71	33.00	33.41	0.41	3,525.65
MW - 1	03/09/05	3,558.71	32.98	33.39	0.41	3,525.67
MW - 1	03/11/05	3,558.71	32.98	33.37	0.39	3,525.67
MW - 1	03/17/05	3,558.71	33.04	33.54	0.50	3,525.60
MW - 1	03/23/05	3,558.71	32.96	33.49	0.53	3,525.67
MW - 1	03/30/05	3,558.71	32.92	33.32	0.40	3,525.73
MW - 1	04/06/05	3,558.71	32.90	33.34	0.44	3,525.74
MW - 1	04/14/05	3,558.71	32.89	33.25	0.36	3,525.77
MW - 1	05/24/05	3,558.71	32.69	32.99	0.30	3,525.98
MW - 1	06/08/05	3,558.71	32.61	33.25	0.64	3,526.00
MW - 1	06/14/05	3,558.71	32.59	33.04	0.45	3,526.05
MW - 1	06/22/05	3,558.71	32.59	33.00	0.41	3,526.06
MW - 1	07/13/05	3,558.71	32.54	33.05	0.51	3,526.09
MW - 1	07/28/05	3,558.71	32.54	32.90	0.36	3,526.12
MW - 1	08/11/05	3,558.71	32.50	32.75	0.25	3,526.17
MW - 1	08/24/05	3,558.71	32.66	33.02	0.36	3,526.00
MW - 1	09/13/05	3,558.71	32.78	33.01	0.23	3,525.90
MW - 1	09/13/05	3,558.71	32.33	33.10	0.77	3,526.26
MW - 1	09/30/05	3,558.71	32.36	33.12	0.76	3,526.24
MW - 1	10/11/05	3,558.71	32.36	33.11	0.75	3,526.24
MW - 1	10/28/05	3,558.71	32.34	33.10	0.76	3,526.26
MW - 1	11/17/05	3,558.71	32.27	33.04	0.77	3,526.32
MW - 1	12/02/05	3,558.71	32.22	32.80	0.58	3,526.40
MW - 1	12/07/05	3,558.71	32.31	32.75	0.44	3,526.33
MW - 1	12/19/05	3,558.71	32.23	32.75	0.52	3,526.40
MW - 1	12/30/05	3,558.71	32.20	32.80	0.60	3,526.42
MW - 1	01/11/06	3,558.71	32.11	32.70	0.59	3,526.51
MW - 1	01/27/06	3,558.71	32.14	32.63	0.49	3,526.50
MW - 1	02/09/06	3,558.71	32.14	32.54	0.40	3,526.51
MW - 1	02/16/06	3,558.71	32.13	32.63	0.50	3,526.51
MW - 1	02/24/06	3,558.71	32.15	32.36	0.21	3,526.53
MW - 1	03/08/06	3,558.71	32.10	32.33	0.23	3,526.58
MW - 1	03/08/06	3,558.71	32.10	32.26	0.16	3,526.59
MW - 1	03/24/06	3,558.71	32.11	32.24	0.13	3,526.58
MW - 1	03/31/06	3,558.71	32.06	32.21	0.15	3,526.63
MW - 1	04/19/06	3,558.71	32.03	32.24	0.21	3,526.65
MW - 1	05/04/06	3,558.71	32.02	32.22	0.20	3,526.66
MW - 1	06/02/06	3,558.71	32.01	32.20	0.19	3,526.67
MW - 1	06/07/06	3,558.71	32.03	32.16	0.13	3,526.66
MW - 1	06/15/06	3,558.71	32.02	32.15	0.13	3,526.67
MW - 1	06/29/06	3,558.71	32.10	32.30	0.20	3,526.58
MW - 1	07/06/06	3,558.71	32.14	32.33	0.19	3,526.54
MW - 1	07/18/06	3,558.71	32.14	32.33	0.19	3,526.54
MW - 1	07/26/06	3,558.71	31.15	32.36	1.21	3,527.38
MW - 1	07/31/06	3,558.71	32.16	32.33	0.17	3,526.52
MW - 1	08/08/06	3,558.71	32.19	32.35	0.16	3,526.50
MW - 1	08/18/06	3,558.71	32.19	32.36	0.17	3,526.49
MW - 1	08/22/06	3,558.71	32.21	32.37	0.16	3,526.48
MW - 1	09/05/06	3,558.71	32.14	32.29	0.15	3,526.55
MW - 1	09/16/06	3,558.71	32.05	32.21	0.16	3,526.64
MW - 1	11/13/06	3,558.71	31.94	32.15	0.21	3,526.74
MW - 1	11/14/06	3,558.71	31.95	32.14	0.19	3,526.73

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	01/10/07	3,558.71	sheen	31.71	0.00	3,527.00
MW - 1	01/25/07	3,558.71	31.86	32.13	0.27	3,526.81
MW - 1	02/06/07	3,558.71	31.81	32.12	0.31	3,526.85
MW - 1	02/12/07	3,558.71	31.79	32.04	0.25	3,526.88
MW - 1	02/13/07	3,558.71	31.81	32.09	0.28	3,526.86
MW - 1	02/20/07	3,558.71	31.81	32.01	0.20	3,526.87
MW - 1	03/07/07	3,558.71	31.77	31.99	0.22	3,526.91
MW - 1	03/27/07	3,558.71	31.75	31.90	0.15	3,526.94
MW - 1	04/11/07	3,558.71	31.76	31.87	0.11	3,526.93
MW - 1	04/25/07	3,558.71	31.74	31.87	0.13	3,526.95
MW - 1	05/01/07	3,558.71	31.72	31.81	0.09	3,526.98
MW - 1	05/07/07	3,558.71	31.71	31.88	0.17	3,526.97
MW - 1	05/17/07	3,558.71	31.70	31.76	0.06	3,527.00
MW - 1	05/25/07	3,558.71	31.68	31.73	0.05	3,527.02
MW - 1	06/07/07	3,558.71	31.65	31.69	0.04	3,527.05
MW - 1	06/12/07	3,558.71	31.66	31.70	0.04	3,527.04
MW - 1	06/20/07	3,558.71	sheen	31.67	0.00	3,527.04
MW - 1	06/28/07	3,558.71	sheen	31.66	0.00	3,527.05
MW - 1	07/02/07	3,558.71	sheen	31.66	0.00	3,527.05
MW - 1	07/11/07	3,558.71	-	31.68	0.00	3,527.03
MW - 1	07/18/07	3,558.71	-	31.68	0.00	3,527.03
MW - 1	07/24/07	3,558.71	sheen	31.77	0.00	3,526.94
MW - 1	08/01/07	3,558.71	sheen	31.71	0.00	3,527.00
MW - 1	08/08/07	3,558.71	sheen	31.71	0.00	3,527.00
MW - 1	08/16/07	3,558.71	sheen	31.74	0.00	3,526.97
MW - 1	09/14/07	3,558.71	sheen	31.80	0.00	3,526.91
MW - 1	09/18/07	3,558.71	sheen	31.79	0.00	3,526.92
MW - 1	09/25/07	3,558.71	sheen	31.79	0.00	3,526.92
MW - 1	10/03/07	3,558.71	sheen	31.74	0.00	3,526.97
MW - 1	10/10/07	3,558.71	sheen	31.74	0.00	3,526.97
MW - 1	10/16/07	3,558.71	sheen	31.71	0.00	3,527.00
MW - 1	10/29/07	3,558.71	sheen	31.73	0.00	3,526.98
MW - 1	11/02/07	3,558.71	sheen	31.72	0.00	3,526.99
MW - 1	11/07/07	3,558.71	sheen	31.72	0.00	3,526.99
MW - 1	11/30/07	3,558.71	sheen	31.71	0.00	3,527.00
MW - 1	12/07/07	3,558.71	sheen	31.69	0.00	3,527.02
MW - 1	12/18/07	3,558.71	sheen	31.69	0.00	3,527.02
MW - 1	01/11/08	3,558.71	-	31.64	0.00	3,527.07
MW - 1	01/17/08	3,558.71	-	31.66	0.00	3,527.05
MW - 1	01/22/08	3,558.71	-	31.66	0.00	3,527.05
MW - 1	02/07/08	3,558.71	-	31.65	0.00	3,527.06
MW - 1	02/13/08	3,558.71	-	31.64	0.00	3,527.07
MW - 1	02/21/08	3,558.71	-	33.65	0.00	3,525.06
MW - 1	02/29/08	3,558.71	-	31.68	0.00	3,527.03
MW - 1	03/14/08	3,558.71	-	31.63	0.00	3,527.08
MW - 1	03/20/08	3,558.71	-	31.66	0.00	3,527.05
MW - 1	04/03/08	3,558.71	-	31.68	0.00	3,527.03
MW - 1	04/10/08	3,558.71	-	31.64	0.00	3,527.07
MW - 1	04/17/08	3,558.71	-	31.69	0.00	3,527.02
MW - 1	04/24/08	3,558.71	-	31.67	0.00	3,527.04
MW - 1	05/01/08	3,558.71	-	31.69	0.00	3,527.02
MW - 1	05/06/08	3,558.71	-	31.68	0.00	3,527.03
MW - 1	05/08/08	3,558.71	-	31.66	0.00	3,527.05
MW - 1	05/15/08	3,558.71	-	31.69	0.00	3,527.02
MW - 1	05/20/08	3,558.71	-	31.70	0.00	3,527.01
MW - 1	05/30/08	3,558.71	-	31.74	0.00	3,526.97

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	06/04/08	3,558.71	-	31.73	0.00	3,526.98
MW - 1	06/12/08	3,558.71	-	31.80	0.00	3,526.91
MW - 1	06/17/08	3,558.71	-	31.86	0.00	3,526.85
MW - 1	06/24/08	3,558.71	-	31.88	0.00	3,526.83
MW - 1	07/03/08	3,558.71	-	31.92	0.00	3,526.79
MW - 1	07/09/08	3,558.71	-	31.92	0.00	3,526.79
MW - 1	07/14/08	3,558.71	-	31.91	0.00	3,526.80
MW - 1	07/23/08	3,558.71	-	31.89	0.00	3,526.82
MW - 1	08/05/08	3,558.71	-	31.92	0.00	3,526.79
MW - 1	08/06/08	3,558.71	-	31.88	0.00	3,526.83
MW - 1	08/11/08	3,558.71	-	31.94	0.00	3,526.77
MW - 1	08/28/08	3,558.71	-	32.02	0.00	3,526.69
MW - 1	09/25/08	3,558.71	-	32.02	0.00	3,526.69
MW - 1	09/30/08	3,558.71	-	32.01	0.00	3,526.70
MW - 1	10/07/08	3,558.71	-	32.01	0.00	3,526.70
MW - 1	10/15/08	3,558.71	-	32.08	0.00	3,526.63
MW - 1	10/22/08	3,558.71	-	32.06	0.00	3,526.65
MW - 1	10/30/08	3,558.71	-	32.11	0.00	3,526.60
MW - 1	11/05/08	3,558.71	-	32.00	0.00	3,526.71
MW - 1	11/07/08	3,558.71	-	32.02	0.00	3,526.69
MW - 1	11/14/08	3,558.71	-	32.01	0.00	3,526.70
MW - 1	11/21/08	3,558.71	-	31.89	0.00	3,526.82
MW - 1	11/24/08	3,558.71	-	32.01	0.00	3,526.70
MW - 1	12/05/08	3,558.71	-	31.96	0.00	3,526.75
MW - 1	12/16/08	3,558.71	-	31.98	0.00	3,526.73
MW - 1	01/07/09	3,558.71	sheen	31.96	0.00	3,526.75
MW - 1	01/16/09	3,558.71	sheen	31.93	0.00	3,526.78
MW - 1	01/29/09	3,558.71	sheen	31.93	0.00	3,526.78
MW - 1	02/03/09	3,558.71	sheen	31.91	0.00	3,526.80
MW - 1	02/09/09	3,558.71	sheen	31.93	0.00	3,526.78
MW - 1	02/17/09	3,558.71	sheen	31.88	0.00	3,526.83
MW - 1	02/26/09	3,558.71	sheen	31.95	0.00	3,526.76
MW - 1	03/02/09	3,558.71	-	31.89	0.00	3,526.82
MW - 1	03/05/09	3,558.71	sheen	32.00	0.00	3,526.71
MW - 1	03/09/09	3,558.71	sheen	32.03	0.00	3,526.68
MW - 1	03/16/09	3,558.71	-	31.91	0.00	3,526.80
MW - 1	03/18/09	3,558.71	sheen	32.05	0.00	3,526.66
MW - 1	03/25/09	3,558.71	sheen	32.04	0.00	3,526.67
MW - 1	03/26/09	3,558.71	-	31.87	0.00	3,526.84
MW - 1	03/27/09	3,558.71	-	31.92	0.00	3,526.79
MW - 1	03/30/09	3,558.71	-	31.93	0.00	3,526.78
MW - 1	04/06/09	3,558.71	-	31.94	0.00	3,526.77
MW - 1	04/15/09	3,558.71	-	31.93	0.00	3,526.78
MW - 1	04/16/09	3,558.71	-	31.89	0.00	3,526.82
MW - 1	04/20/09	3,558.71	-	31.92	0.00	3,526.79
MW - 1	04/23/09	3,558.71	-	31.92	0.00	3,526.79
MW - 1	04/27/09	3,558.71	-	31.92	0.00	3,526.79
MW - 1	04/30/09	3,558.71	-	31.91	0.00	3,526.80
MW - 1	05/06/09	3,558.71	-	31.90	0.00	3,526.81
MW - 1	05/21/09	3,558.71	-	31.91	0.00	3,526.80
MW - 1	05/27/09	3,558.71	-	31.95	0.00	3,526.76
MW - 1	06/08/09	3,558.71	-	31.98	0.00	3,526.73
MW - 1	06/11/09	3,558.71	-	32.02	0.00	3,526.69
MW - 1	06/16/09	3,558.71	-	32.02	0.00	3,526.69
MW - 1	06/22/09	3,558.71	sheen	32.03	0.00	3,526.68
MW - 1	06/29/09	3,558.71	-	32.03	0.00	3,526.68

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	07/02/09	3,558.71	-	32.08	0.00	3,526.63
MW - 1	07/10/09	3,558.71	sheen	32.10	0.00	3,526.61
MW - 1	07/15/09	3,558.71	-	32.08	0.00	3,526.63
MW - 1	07/21/09	3,558.71	-	32.17	0.00	3,526.54
MW - 1	07/29/09	3,558.71	-	32.08	0.00	3,526.63
MW - 1	07/30/09	3,558.71	sheen	32.15	0.00	3,526.56
MW - 1	08/03/09	3,558.71	-	32.19	0.00	3,526.52
MW - 1	08/05/09	3,558.71	sheen	32.15	0.00	3,526.56
MW - 1	08/07/09	3,558.71	-	32.19	0.00	3,526.52
MW - 1	08/10/09	3,558.71	sheen	32.20	0.00	3,526.51
MW - 1	08/19/09	3,558.71	sheen	32.20	0.00	3,526.51
MW - 1	08/27/09	3,558.71	-	32.24	0.00	3,526.47
MW - 1	08/31/09	3,558.71	-	32.25	0.00	3,526.46
MW - 1	09/11/09	3,558.71	sheen	32.30	0.00	3,526.41
MW - 1	09/17/09	3,558.71	sheen	32.31	0.00	3,526.40
MW - 1	09/24/09	3,558.71	sheen	32.35	0.00	3,526.36
MW - 1	09/29/09	3,558.71	-	32.38	0.00	3,526.33
MW - 1	09/30/09	3,558.71	sheen	32.33	0.00	3,526.38
MW - 1	10/06/09	3,558.71	-	32.41	0.00	3,526.30
MW - 1	10/20/09	3,558.71	-	-	0.00	
MW - 1	10/27/09	3,558.71	-	32.44	0.00	3,526.27
MW - 1	11/04/09	3,558.71	-	32.48	0.00	3,526.23
MW - 1	11/05/09	3,558.71	-	32.43	0.00	3,526.28
MW - 1	11/20/09	3,558.71	-	-	0.00	
MW - 1	12/04/09	3,558.71	-	-	0.00	
MW - 1	12/14/09	3,558.71	-	32.27	0.00	3,526.44
MW - 1	12/31/09	3,558.71	sheen	32.55	0.00	3,526.16
MW - 1	01/07/10	3,558.71	-	32.55	0.00	3,526.16
MW - 1	02/02/10	3,558.71	sheen	32.58	0.00	3,526.13
MW - 1	02/19/10	3,558.71	sheen	32.49	0.00	3,526.22
MW - 1	03/01/10	3,558.71	sheen	32.58	0.00	3,526.13
MW - 1	03/16/10	3,558.71	sheen	32.53	0.00	3,526.18
MW - 1	03/31/10	3,558.71	sheen	32.51	0.00	3,526.20
MW - 1	04/07/10	3,558.71	sheen	32.54	0.00	3,526.17
MW - 1	04/16/10	3,558.71	sheen	32.54	0.00	3,526.17
MW - 1	04/28/10	3,558.71	-	32.42	0.00	3,526.29
MW - 1	05/05/10	3,558.71	sheen	32.51	0.00	3,526.20
MW - 1	05/13/10	3,558.71	-	32.44	0.00	3,526.27
MW - 1	05/19/10	3,558.71	-	32.41	0.00	3,526.30
MW - 1	06/07/10	3,558.71	sheen	32.58	0.00	3,526.13
MW - 1	06/09/10	3,558.71	-	32.43	0.00	3,526.28
MW - 1	07/16/10	3,558.71	sheen	32.34	0.00	3,526.37
MW - 1	07/30/10	3,558.71	sheen	32.26	0.00	3,526.45
MW - 1	08/04/10	3,558.71	sheen	32.26	0.00	3,526.45
MW - 1	08/06/10	3,558.71	sheen	32.36	0.00	3,526.35
MW - 1	08/20/10	3,558.71	sheen	32.25	0.00	3,526.46
MW - 1	09/10/10	3,558.71	sheen	32.27	0.00	3,526.44
MW - 1	09/24/10	3,558.71	sheen	32.14	0.00	3,526.57
MW - 1	10/08/10	3,558.71	sheen	32.25	0.00	3,526.46
MW - 1	11/03/10	3,558.71	sheen	32.50	0.00	3,526.21
MW - 1	12/03/10	3,558.71	sheen	32.16	0.00	3,526.55
MW - 1	12/16/10	3,558.71	sheen	32.43	0.00	3,526.28
MW - 1	02/08/11	3,558.71	sheen	32.49	0.00	3,526.22
MW - 1	05/02/11	3,558.71	sheen	32.12	0.00	3,526.59
MW - 1	05/09/11	3,558.71	sheen	32.05	0.00	3,526.66
MW - 1	05/10/11	3,558.71	sheen	32.05	0.00	3,526.66

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	05/12/11	3,558.71	-	32.38	0.00	3,526.33
MW - 1	08/09/11	3,558.71	-	32.49	0.00	3,526.22
MW - 1	09/14/11	3,558.71	sheen	32.63	0.00	3,526.08
MW - 1	10/31/11	3,558.71	-	32.63	0.00	3,526.08
MW - 1	12/07/11	3,558.71	-	32.65	0.00	3,526.06
MW - 1	12/23/11	3,558.71	-	32.65	0.00	3,526.06
MW - 1	12/27/11	3,558.71	-	32.64	0.00	3,526.07
MW - 1	01/18/12	3,558.71	-	32.62	0.00	3,526.09
MW - 1	02/08/12	3,558.71	-	32.66	0.00	3,526.05
MW - 1	05/07/12	3,558.71	-	32.70	0.00	3,526.01
MW - 1	08/03/12	3,558.71	-	32.83	0.00	3,525.88
MW - 1	11/05/12	3,558.71	32.99	33.07	0.08	3,525.71
MW - 1	11/29/12	3,558.71	32.97	33.21	0.24	3,525.70
MW - 1	12/10/12	3,558.71	32.99	33.14	0.15	3,525.70
MW - 1	12/27/12	3,558.71	32.96	33.33	0.37	3,525.69
MW - 1	01/14/13	3,558.71	32.92	33.54	0.62	3,525.70
MW - 1	02/04/13	3,558.71	32.90	33.67	0.77	3,525.69
MW - 1	02/06/13	3,558.71	32.93	33.42	0.49	3,525.71
MW - 1	03/04/13	3,558.71	32.80	33.88	1.08	3,525.75
MW - 1	04/10/13	3,558.71	32.89	33.94	1.05	3,525.66
MW - 1	04/22/13	3,558.71	32.62	33.75	1.13	3,525.92
MW - 1	05/23/13	3,558.71	32.85	33.83	0.98	3,525.71
MW - 1	05/30/13	3,558.71	32.88	33.41	0.53	3,525.75
MW - 1	06/06/13	3,558.71	32.91	33.70	0.79	3,525.68
MW - 1	06/20/13	3,558.71	32.93	33.75	0.82	3,525.66
MW - 1	07/02/13	3,558.71	32.99	33.76	0.77	3,525.60
MW - 1	08/01/13	3,558.71	32.99	34.17	1.18	3,525.54
MW - 1	11/12/13	3,558.71	33.06	34.86	1.80	3,525.38
MW - 1	11/12/13	3,558.71	33.15	35.03	1.88	3,525.28
MW - 1	11/19/13	3,558.71	33.02	34.84	1.82	3,525.42
MW - 1	11/19/13	3,558.71	33.12	35.04	1.92	3,525.30
MW - 1	11/27/13	3,558.71	33.02	34.84	1.82	3,525.42
MW - 1	12/17/13	3,558.71	33.06	34.95	1.89	3,525.37
MW - 2	01/24/00	3,559.64	-	34.03	0.00	3,525.61
MW - 2	06/07/00	3,559.64	-	33.55	0.00	3,526.09
MW - 2	09/06/00	3,559.64	-	33.83	0.00	3,525.81
MW - 2	12/06/00	3,559.64	-	34.03	0.00	3,525.61
MW - 2	03/09/01	3,559.64	-	33.93	0.00	3,525.71
MW - 2	06/21/01	3,559.64	-	34.00	0.00	3,525.64
MW - 2	09/22/01	3,559.64	-	34.32	0.00	3,525.32
MW - 2	10/12/01	3,559.64	-	34.34	0.00	3,525.30
MW - 2	03/27/02	3,559.64	-	34.46	0.00	3,525.18
MW - 2	05/16/02	3,559.64	-	34.48	0.00	3,525.16
MW - 2	09/16/02	3,559.64	-	34.69	0.00	3,524.95
MW - 2	12/19/02	3,559.64	-	34.80	0.00	3,524.84
MW - 2	03/03/03	3,559.64	NM	NM	NM	NM
MW - 2	06/17/03	3,559.64	-	34.94	0.00	3,524.70
MW - 2	09/05/03	3,559.64	-	35.14	0.00	3,524.50
MW - 2	12/16/03	3,559.64	-	35.12	0.00	3,524.52
MW - 2	03/08/04	3,559.64	-	35.35	0.00	3,524.29
MW - 2	05/25/04	3,559.64	-	35.00	0.00	3,524.64
MW - 2	08/31/04	3,559.64	-	35.31	0.00	3,524.33
MW - 2	12/13/04	3,559.64	-	34.00	0.00	3,525.64
MW - 2	03/11/05	3,559.64	-	33.95	0.00	3,525.69
MW - 2	06/14/05	3,559.64	-	33.60	0.00	3,526.04

TABLE 1
GROUNDWATER ELEVATION DATA

PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	08/11/05	3,559.64	sheen	33.48	0.00	3,526.16
MW - 2	09/13/05	3,559.64	sheen	33.43	0.00	3,526.21
MW - 2	09/13/05	PLUGGED & ABANDONED				
MW - 3	01/24/00	3,558.53	31.99	34.52	2.53	3,526.16
MW - 3	06/07/00	3,558.53	32.05	34.38	2.33	3,526.13
MW - 3	09/06/00	3,558.53	HIGH H2S IN AREA-NOT GAUGED			-
MW - 3	09/14/00	3,558.53	32.32	34.84	2.52	3,525.83
MW - 3	12/06/00	3,558.53	32.48	34.80	2.32	3,525.70
MW - 3	03/09/01	3,558.53	32.61	34.32	1.71	3,525.66
MW - 3	06/21/01	3,558.53	32.65	34.30	1.65	3,525.63
MW - 3	09/22/01	3,558.53	32.64	34.74	2.10	3,525.58
MW - 3	10/12/01	3,558.53	33.06	34.06	1.00	3,525.32
MW - 3	03/18/02	3,558.53	33.30	33.48	0.18	3,525.20
MW - 3	03/27/02	3,558.53	33.30	33.53	0.23	3,525.20
MW - 3	03/28/02	3,558.53	33.29	33.46	0.17	3,525.21
MW - 3	04/03/02	3,558.53	33.30	33.43	0.13	3,525.21
MW - 3	04/12/02	3,558.53	33.31	33.40	0.09	3,525.21
MW - 3	04/16/02	3,558.53	33.31	33.39	0.08	3,525.21
MW - 3	05/03/02	3,558.53	33.31	33.36	0.05	3,525.21
MW - 3	05/10/02	3,558.53	33.30	33.38	0.08	3,525.22
MW - 3	05/16/02	3,558.53	33.32	33.39	0.07	3,525.20
MW - 3	05/24/02	3,558.53	33.30	33.40	0.10	3,525.22
MW - 3	06/10/02	3,558.53	33.39	33.47	0.08	3,525.13
MW - 3	06/19/02	3,558.53	33.40	33.49	0.09	3,525.12
MW - 3	07/03/02	3,558.53	33.42	33.50	0.08	3,525.10
MW - 3	07/11/02	3,558.53	33.42	33.52	0.10	3,525.10
MW - 3	07/16/02	3,558.53	33.39	33.49	0.10	3,525.13
MW - 3	08/21/02	3,558.53	33.46	33.59	0.13	3,525.05
MW - 3	08/27/02	3,558.53	33.47	33.61	0.14	3,525.04
MW - 3	09/05/02	3,558.53	33.50	33.57	0.07	3,525.02
MW - 3	09/16/02	3,558.53	33.55	33.58	0.03	3,524.98
MW - 3	10/03/02	3,558.53	33.59	33.63	0.04	3,524.93
MW - 3	10/08/02	3,558.53	33.59	33.65	0.06	3,524.93
MW - 3	10/15/02	3,558.53	33.62	33.67	0.05	3,524.90
MW - 3	12/19/02	3,558.53	33.66	33.76	0.10	3,524.86
MW - 3	03/03/03	3,558.53	NM	NM	NM	NM
MW - 3	06/17/03	3,558.53	33.70	33.94	0.24	3,524.79
MW - 3	09/05/03	3,558.53	33.91	34.15	0.24	3,524.58
MW - 3	12/16/03	3,558.53	34.05	34.38	0.33	3,524.43
MW - 3	03/08/04	3,558.53	34.10	34.47	0.37	3,524.37
MW - 3	05/25/04	3,558.53	33.80	34.00	0.20	3,524.70
MW - 3	08/31/04	3,558.53	34.04	34.40	0.36	3,524.44
MW - 3	09/14/04	3,558.53	34.07	34.33	0.26	3,524.42
MW - 3	09/21/04	3,558.53	34.07	34.42	0.35	3,524.41
MW - 3	10/14/04	3,558.53	sheen	33.04	0.00	3,525.49
MW - 3	10/21/04	3,558.53	sheen	33.15	0.00	3,525.38
MW - 3	10/28/04	3,558.53	sheen	33.16	0.00	3,525.37
MW - 3	11/04/04	3,558.53	sheen	33.30	0.00	3,525.23
MW - 3	11/11/04	3,558.53	sheen	33.30	0.00	3,525.23
MW - 3	11/17/04	3,558.53	sheen	33.32	0.00	3,525.21
MW - 3	11/30/04	3,558.53	sheen	32.75	0.00	3,525.78
MW - 3	12/07/04	3,558.53	sheen	32.70	0.00	3,525.83
MW - 3	12/15/04	3,558.53	sheen	32.60	0.00	3,525.93
MW - 3	12/28/04	3,558.53	sheen	32.72	0.00	3,525.81
MW - 3	01/12/05	3,558.53	sheen	32.76	0.00	3,525.77

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	01/19/05	3,558.53	sheen	32.79	0.00	3,525.74
MW - 3	01/26/05	3,558.53	sheen	32.79	0.00	3,525.74
MW - 3	02/01/05	3,558.53	sheen	32.80	0.00	3,525.73
MW - 3	02/09/05	3,558.53	sheen	32.80	0.00	3,525.73
MW - 3	02/16/05	3,558.53	sheen	32.79	0.00	3,525.74
MW - 3	02/23/05	3,558.53	sheen	32.78	0.00	3,525.75
MW - 3	03/02/05	3,558.53	sheen	32.76	0.00	3,525.77
MW - 3	03/09/05	3,558.53	sheen	32.70	0.00	3,525.83
MW - 3	03/11/05	3,558.53	sheen	32.70	0.00	3,525.83
MW - 3	03/17/05	3,558.53	sheen	32.81	0.00	3,525.72
MW - 3	03/23/05	3,558.53	sheen	32.70	0.00	3,525.83
MW - 3	03/30/05	3,558.53	sheen	32.69	0.00	3,525.84
MW - 3	04/06/05	3,558.53	sheen	32.68	0.00	3,525.85
MW - 3	04/14/05	3,558.53	sheen	32.81	0.00	3,525.72
MW - 3	05/24/05	3,558.53	sheen	32.47	0.00	3,526.06
MW - 3	06/08/05	3,558.53	sheen	32.41	0.00	3,526.12
MW - 3	06/14/05	3,558.53	-	32.36	0.00	3,526.17
MW - 3	06/22/05	3,558.53	sheen	32.36	0.00	3,526.17
MW - 3	07/13/05	3,558.53	sheen	32.33	0.00	3,526.20
MW - 3	07/28/05	3,558.53	sheen	32.33	0.00	3,526.20
MW - 3	08/24/05	3,558.53	32.25	32.33	0.08	3,526.27
MW - 3	09/13/05	3,558.53	32.18	32.45	0.27	3,526.31
MW - 3	09/13/05	3,558.53	32.16	32.47	0.31	3,526.32
MW - 3	09/30/05	3,558.53	32.11	32.65	0.54	3,526.34
MW - 3	10/11/05	3,558.53	32.11	32.70	0.59	3,526.33
MW - 3	10/28/05	3,558.53	32.10	32.70	0.60	3,526.34
MW - 3	11/17/05	3,558.53	32.05	32.66	0.61	3,526.39
MW - 3	12/02/05	3,558.53	32.00	32.21	0.21	3,526.50
MW - 3	12/07/05	3,558.53	32.02	32.30	0.28	3,526.47
MW - 3	12/19/05	3,558.53	31.97	32.36	0.39	3,526.50
MW - 3	12/30/05	3,558.53	31.95	32.29	0.34	3,526.53
MW - 3	01/11/06	3,558.53	31.90	32.25	0.35	3,526.58
MW - 3	01/27/06	3,558.53	31.90	32.40	0.50	3,526.56
MW - 3	02/09/06	3,558.53	31.87	32.20	0.33	3,526.61
MW - 3	02/16/06	3,558.53	31.86	32.13	0.27	3,526.63
MW - 3	02/24/06	3,558.53	31.86	32.07	0.21	3,526.64
MW - 3	03/08/06	3,558.53	31.82	32.03	0.21	3,526.68
MW - 3	03/08/06	3,558.53	31.81	32.00	0.19	3,526.69
MW - 3	03/24/06	3,558.53	31.84	31.96	0.12	3,526.67
MW - 3	03/31/06	3,558.53	31.80	31.90	0.10	3,526.72
MW - 3	04/19/06	3,558.53	32.78	32.85	0.07	3,525.74
MW - 3	05/04/06	3,558.53	31.75	31.81	0.06	3,526.77
MW - 3	06/02/06	3,558.53	31.75	31.80	0.05	3,526.77
MW - 3	06/07/06	3,558.53	sheen	31.78	0.00	3,526.75
MW - 3	06/15/06	3,558.53	sheen	31.79	0.00	3,526.74
MW - 3	06/29/06	3,558.53	31.85	31.87	0.02	3,526.68
MW - 3	07/06/06	3,558.53	31.89	31.91	0.02	3,526.64
MW - 3	07/18/06	3,558.53	31.89	31.90	0.01	3,526.64
MW - 3	07/26/06	3,558.53	sheen	31.91	0.00	3,526.62
MW - 3	07/31/06	3,558.53	sheen	31.92	0.00	3,526.61
MW - 3	08/08/06	3,558.53	31.94	31.95	0.01	3,526.59
MW - 3	08/18/06	3,558.53	31.95	31.96	0.01	3,526.58
MW - 3	08/22/06	3,558.53	32.03	32.04	0.01	3,526.50
MW - 3	09/05/06	3,558.53	sheen	32.89	0.00	3,525.64
MW - 3	09/16/06	3,558.53	sheen	31.80	0.00	3,526.73
MW - 3	11/13/06	3,558.53	sheen	31.72	0.00	3,526.81

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	11/14/06	3,558.53	sheen	31.71	0.00	3,526.82
MW - 3	01/25/07	3,558.53	sheen	31.60	0.00	3,526.93
MW - 3	02/12/07	3,558.53	sheen	31.47	0.00	3,527.06
MW - 3	05/07/07	3,558.53	sheen	31.38	0.00	3,527.15
MW - 3	08/08/07	3,558.53	sheen	31.41	0.00	3,527.12
MW - 3	09/18/07	3,558.53	sheen	32.53	0.00	3,526.00
MW - 3	09/25/07	3,558.53	sheen	31.52	0.00	3,527.01
MW - 3	10/03/07	3,558.53	sheen	31.48	0.00	3,527.05
MW - 3	10/16/07	3,558.53	sheen	31.45	0.00	3,527.08
MW - 3	11/02/07	3,558.53	sheen	31.46	0.00	3,527.07
MW - 3	01/11/08	3,558.53	-	31.38	0.00	3,527.15
MW - 3	01/17/08	3,558.53	-	31.39	0.00	3,527.14
MW - 3	01/22/08	3,558.53	-	30.91	0.00	3,527.62
MW - 3	02/07/08	3,558.53	-	31.38	0.00	3,527.15
MW - 3	02/21/08	3,558.53	-	31.37	0.00	3,527.16
MW - 3	02/29/08	3,558.53	-	31.39	0.00	3,527.14
MW - 3	03/14/08	3,558.53	-	31.34	0.00	3,527.19
MW - 3	03/20/08	3,558.53	-	31.34	0.00	3,527.19
MW - 3	04/03/08	3,558.53	-	31.38	0.00	3,527.15
MW - 3	04/10/08	3,558.53	-	31.36	0.00	3,527.17
MW - 3	04/17/08	3,558.53	-	31.40	0.00	3,527.13
MW - 3	04/24/08	3,558.53	-	31.41	0.00	3,527.12
MW - 3	05/01/08	3,558.53	-	31.39	0.00	3,527.14
MW - 3	05/06/08	3,558.53	-	31.39	0.00	3,527.14
MW - 3	05/08/08	3,558.53	-	31.39	0.00	3,527.14
MW - 3	05/15/08	3,558.53	-	31.42	0.00	3,527.11
MW - 3	05/30/08	3,558.53	-	31.45	0.00	3,527.08
MW - 3	06/04/08	3,558.53	-	31.46	0.00	3,527.07
MW - 3	06/24/08	3,558.53	-	31.59	0.00	3,526.94
MW - 3	07/03/08	3,558.53	-	31.63	0.00	3,526.90
MW - 3	07/09/08	3,558.53	-	31.64	0.00	3,526.89
MW - 3	07/14/08	3,558.53	-	31.64	0.00	3,526.89
MW - 3	07/23/08	3,558.53	-	31.63	0.00	3,526.90
MW - 3	08/06/08	3,558.53	-	31.64	0.00	3,526.89
MW - 3	09/09/09	3,558.53	-	31.74	0.00	3,526.79
MW - 3	09/25/08	3,558.53	-	31.73	0.00	3,526.80
MW - 3	09/30/08	3,558.53	-	31.75	0.00	3,526.78
MW - 3	10/07/08	3,558.53	-	31.76	0.00	3,526.77
MW - 3	10/15/08	3,558.53	-	31.85	0.00	3,526.68
MW - 3	10/22/08	3,558.53	-	31.79	0.00	3,526.74
MW - 3	11/03/08	3,558.53	-	31.26	0.00	3,527.27
MW - 3	11/05/08	3,558.53	-	31.70	0.00	3,526.83
MW - 3	11/07/08	3,558.53	-	31.75	0.00	3,526.78
MW - 3	11/14/08	3,558.53	-	31.74	0.00	3,526.79
MW - 3	11/21/08	3,558.53	-	31.81	0.00	3,526.72
MW - 3	11/24/08	3,558.53	-	31.48	0.00	3,527.05
MW - 3	12/05/08	3,558.53	-	31.38	0.00	3,527.15
MW - 3	12/16/08	3,558.53	-	31.65	0.00	3,526.88
MW - 3	01/07/09	3,558.53	-	31.26	0.00	3,527.27
MW - 3	01/16/09	3,558.53	-	31.14	0.00	3,527.39
MW - 3	01/29/09	3,558.53	-	31.66	0.00	3,526.87
MW - 3	02/03/09	3,558.53	-	31.66	0.00	3,526.87
MW - 3	02/09/09	3,558.53	-	31.65	0.00	3,526.88
MW - 3	02/17/09	3,558.53	-	31.60	0.00	3,526.93
MW - 3	02/26/09	3,558.53	-	31.63	0.00	3,526.90
MW - 3	03/02/09	3,558.53	-	31.62	0.00	3,526.91

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	03/05/09	3,558.53	-	31.67	0.00	3,526.86
MW - 3	03/09/09	3,558.53	-	36.69	0.00	3,521.84
MW - 3	03/16/09	3,558.53	-	31.62	0.00	3,526.91
MW - 3	03/18/09	3,558.53	-	36.70	0.00	3,521.83
MW - 3	03/25/09	3,558.53	-	36.72	0.00	3,521.81
MW - 3	03/26/09	3,558.53	-	31.60	0.00	3,526.93
MW - 3	03/27/09	3,558.53	-	31.57	0.00	3,526.96
MW - 3	03/30/09	3,558.53	-	31.62	0.00	3,526.91
MW - 3	04/06/09	3,558.53	-	31.71	0.00	3,526.82
MW - 3	04/15/09	3,558.53	-	31.56	0.00	3,526.97
MW - 3	04/16/09	3,558.53	-	31.63	0.00	3,526.90
MW - 3	04/20/09	3,558.53	-	31.63	0.00	3,526.90
MW - 3	04/23/09	3,558.53	-	31.56	0.00	3,526.97
MW - 3	04/27/09	3,558.53	-	31.55	0.00	3,526.98
MW - 3	04/30/09	3,558.53	-	31.66	0.00	3,526.87
MW - 3	05/06/09	3,558.53	-	31.63	0.00	3,526.90
MW - 3	05/21/09	3,558.53	-	31.64	0.00	3,526.89
MW - 3	05/27/09	3,558.53	-	31.67	0.00	3,526.86
MW - 3	06/08/09	3,558.53	-	31.72	0.00	3,526.81
MW - 3	06/11/09	3,558.53	-	31.75	0.00	3,526.78
MW - 3	06/16/09	3,558.53	-	31.72	0.00	3,526.81
MW - 3	06/22/09	3,558.53	-	31.76	0.00	3,526.77
MW - 3	06/29/09	3,558.53	-	31.73	0.00	3,526.80
MW - 3	07/02/09	3,558.53	-	31.79	0.00	3,526.74
MW - 3	07/10/09	3,558.53	-	31.85	0.00	3,526.68
MW - 3	07/15/09	3,558.53	-	31.76	0.00	3,526.77
MW - 3	07/21/09	3,558.53	-	31.85	0.00	3,526.68
MW - 3	07/29/09	3,558.53	-	31.77	0.00	3,526.76
MW - 3	07/30/09	3,558.53	-	31.78	0.00	3,526.75
MW - 3	08/03/09	3,558.53	-	31.92	0.00	3,526.61
MW - 3	08/05/09	3,558.53	-	31.89	0.00	3,526.64
MW - 3	08/07/09	3,558.53	-	31.94	0.00	3,526.59
MW - 3	08/10/09	3,558.53	-	31.92	0.00	3,526.61
MW - 3	08/19/09	3,558.53	-	31.94	0.00	3,526.59
MW - 3	08/27/09	3,558.53	-	31.98	0.00	3,526.55
MW - 3	08/31/09	3,558.53	-	32.00	0.00	3,526.53
MW - 3	09/11/09	3,558.53	-	32.04	0.00	3,526.49
MW - 3	09/17/09	3,558.53	-	32.04	0.00	3,526.49
MW - 3	09/24/09	3,558.53	-	32.04	0.00	3,526.49
MW - 3	09/29/09	3,558.53	-	32.13	0.00	3,526.40
MW - 3	09/30/09	3,558.53	-	32.05	0.00	3,526.48
MW - 3	10/06/09	3,558.53	-	32.05	0.00	3,526.48
MW - 3	10/20/09	3,558.53	-	-	0.00	-
MW - 3	10/27/09	3,558.53	-	32.16	0.00	3,526.37
MW - 3	11/04/09	3,558.53	-	32.22	0.00	3,526.31
MW - 3	11/05/09	3,558.53	sheen	32.15	0.00	3,526.38
MW - 3	11/20/09	3,558.53	sheen	32.17	0.00	3,526.36
MW - 3	12/04/09	3,558.53	sheen	32.15	0.00	3,526.38
MW - 3	12/14/09	3,558.53	-	32.03	0.00	3,526.50
MW - 3	12/31/09	3,558.53	sheen	32.28	0.00	3,526.25
MW - 3	01/07/10	3,558.53	sheen	32.29	0.00	3,526.24
MW - 3	01/21/10	3,558.53	sheen	32.17	0.00	3,526.36
MW - 3	02/02/10	3,558.53	sheen	32.29	0.00	3,526.24
MW - 3	02/19/10	3,558.53	sheen	32.23	0.00	3,526.30
MW - 3	03/01/10	3,558.53	32.27	32.51	0.24	3,526.22
MW - 3	03/16/10	3,558.53	32.20	32.51	0.31	3,526.28

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	03/31/10	3,558.53	32.19	32.52	0.33	3,526.29
MW - 3	04/07/10	3,558.53	32.23	32.46	0.23	3,526.27
MW - 3	04/16/10	3,558.53	32.22	32.44	0.22	3,526.28
MW - 3	04/28/10	3,558.53	32.12	32.29	0.17	3,526.38
MW - 3	05/05/10	3,558.53	32.18	32.49	0.31	3,526.30
MW - 3	05/13/10	3,558.53	32.13	32.28	0.15	3,526.38
MW - 3	05/19/10	3,558.53	32.15	32.26	0.11	3,526.36
MW - 3	05/26/10	3,558.53	32.10	32.46	0.36	3,526.38
MW - 3	06/07/10	3,558.53	32.23	32.62	0.39	3,526.24
MW - 3	06/09/10	3,558.53	32.15	32.27	0.12	3,526.36
MW - 3	07/16/10	3,558.53	31.98	32.46	0.48	3,526.48
MW - 3	07/30/10	3,558.53	31.95	32.38	0.43	3,526.52
MW - 3	08/04/10	3,558.53	31.95	32.38	0.43	3,526.52
MW - 3	08/06/10	3,558.53	31.96	32.35	0.39	3,526.51
MW - 3	08/21/10	3,558.53	31.95	32.24	0.29	3,526.54
MW - 3	09/10/10	3,558.53	31.97	32.36	0.39	3,526.50
MW - 3	09/24/10	3,558.53	31.92	32.29	0.37	3,526.55
MW - 3	10/08/10	3,558.53	31.92	32.22	0.30	3,526.57
MW - 3	11/03/10	3,558.53	32.21	32.54	0.33	3,526.27
MW - 3	12/03/10	3,558.53	31.86	32.07	0.21	3,526.64
MW - 3	12/16/10	3,558.53	31.91	32.46	0.55	3,526.54
MW - 3	02/08/11	3,558.53	32.20	32.57	0.37	3,526.27
MW - 3	05/02/11	3,558.53	31.77	31.97	0.20	3,526.73
MW - 3	05/09/11	3,558.53	31.82	31.87	0.05	3,526.70
MW - 3	05/10/11	3,558.53	31.82	31.87	0.05	3,526.70
MW - 3	05/19/11	3,558.53	sheen	31.82	0.00	3,526.71
MW - 3	05/27/11	3,558.53	sheen	31.82	0.00	3,526.71
MW - 3	06/10/11	3,558.53	sheen	31.86	0.00	3,526.67
MW - 3	06/24/11	3,558.53	sheen	31.86	0.00	3,526.67
MW - 3	07/01/11	3,558.53	sheen	31.90	0.00	3,526.63
MW - 3	07/12/11	3,558.53	sheen	31.94	0.00	3,526.59
MW - 3	08/09/11	3,558.53	32.15	32.65	0.50	3,526.31
MW - 3	09/07/11	3,558.53	32.23	33.06	0.83	3,526.18
MW - 3	09/14/11	3,558.53	32.34	32.49	0.15	3,526.17
MW - 3	10/31/11	3,558.53	32.30	32.71	0.41	3,526.17
MW - 3	12/07/11	3,558.53	32.24	33.22	0.98	3,526.14
MW - 3	12/23/11	3,558.53	32.26	33.20	0.94	3,526.13
MW - 3	12/27/11	3,558.53	32.28	32.94	0.66	3,526.15
MW - 3	01/18/12	3,558.53	32.24	33.30	1.06	3,526.13
MW - 3	01/23/12	3,558.53	32.27	33.07	0.80	3,526.14
MW - 3	02/08/12	3,558.53	32.26	34.02	1.76	3,526.01
MW - 3	03/02/12	3,558.53	32.20	33.46	1.26	3,526.14
MW - 3	03/19/12	3,558.53	32.24	33.16	0.92	3,526.15
MW - 3	04/02/12	3,558.53	32.23	33.32	1.09	3,526.14
MW - 3	04/19/12	3,558.53	32.22	33.42	1.20	3,526.13
MW - 3	05/07/12	3,558.53	32.29	33.38	1.09	3,526.08
MW - 3	05/21/12	3,558.53	32.29	33.50	1.21	3,526.06
MW - 3	06/06/12	3,558.53	31.84	32.88	1.04	3,526.53
MW - 3	06/18/12	3,558.53	32.34	33.02	0.68	3,526.09
MW - 3	07/02/12	3,558.53	32.35	37.03	4.68	3,525.48
MW - 3	07/16/12	3,558.53	32.35	37.01	4.66	3,525.48
MW - 3	08/03/12	3,558.53	32.53	32.62	0.09	3,525.99
MW - 3	08/15/12	3,558.53	32.56	32.20	-0.36	3,526.02
MW - 3	10/01/12	3,558.53	32.73	32.90	0.17	3,525.77
MW - 3	10/15/12	3,558.53	32.75	32.82	0.07	3,525.77
MW - 3	10/29/12	3,558.53	32.72	32.75	0.03	3,525.81

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	11/05/12	3,558.53	32.73	32.74	0.01	3,525.80
MW - 3	11/29/12	3,558.53	32.73	32.77	0.04	3,525.79
MW - 3	12/10/12	3,558.53	32.73	32.75	0.02	3,525.80
MW - 3	12/27/12	3,558.53	32.72	32.73	0.01	3,525.81
MW - 3	01/14/13	3,558.53	-	32.74	0.00	3,525.79
MW - 3	02/04/13	3,558.53	-	32.74	0.00	3,525.79
MW - 3	02/06/13	3,558.53	-	32.73	0.00	3,525.80
MW - 3	03/04/13	3,558.53	-	32.73	0.00	3,525.80
MW - 3	04/05/13	3,558.53	-	32.73	0.00	3,525.80
MW - 3	04/08/13	3,558.53	-	32.70	0.00	3,525.83
MW - 3	04/10/13	3,558.53	-	32.75	0.00	3,525.78
MW - 3	04/22/13	3,558.53	-	32.74	0.00	3,525.79
MW - 3	05/23/13	3,558.53	-	32.70	0.00	3,525.83
MW - 3	05/30/13	3,558.53	-	32.74	0.00	3,525.79
MW - 3	06/06/13	3,558.53	-	32.75	0.00	3,525.78
MW - 3	06/20/13	3,558.53	-	32.76	0.00	3,525.77
MW - 3	07/02/13	3,558.53	-	32.79	0.00	3,525.74
MW - 3	08/01/13	3,558.53	-	32.86	0.00	3,525.67
MW - 3	11/27/13	3,558.53	-	32.97	0.00	3,525.56
MW - 4	01/24/00	3,558.14	31.73	32.96	1.23	3,526.23
MW - 4	06/07/00	3,558.14	31.75	33.30	1.55	3,526.16
MW - 4	09/06/00	3,558.14	HIGH H2S IN AREA-NOT GAUGED			-
MW - 4	09/14/00	3,558.14	32.03	33.67	1.64	3,525.86
MW - 4	12/06/00	3,558.14	32.26	33.16	0.90	3,525.75
MW - 4	03/09/01	3,558.14	32.32	32.81	0.49	3,525.75
MW - 4	06/21/01	3,558.14	32.37	32.80	0.43	3,525.71
MW - 4	09/22/01	3,558.14	32.91	34.86	1.95	3,524.94
MW - 4	10/12/01	3,558.14	32.20	32.91	0.71	3,525.83
MW - 4	03/18/02	3,558.14	32.89	33.00	0.11	3,525.23
MW - 4	03/27/02	3,558.14	32.88	33.02	0.14	3,525.24
MW - 4	03/28/02	3,558.14	32.89	32.98	0.09	3,525.24
MW - 4	04/03/02	3,558.14	32.88	33.01	0.13	3,525.24
MW - 4	04/12/02	3,558.14	32.89	32.93	0.04	3,525.24
MW - 4	04/16/02	3,558.14	32.89	32.93	0.04	3,525.24
MW - 4	05/03/02	3,558.14	32.87	32.90	0.03	3,525.27
MW - 4	05/10/02	3,558.14	32.89	32.91	0.02	3,525.25
MW - 4	05/16/02	3,558.14	32.90	32.93	0.03	3,525.24
MW - 4	05/24/02	3,558.14	32.93	32.98	0.05	3,525.20
MW - 4	06/10/02	3,558.14	32.96	33.01	0.05	3,525.17
MW - 4	06/19/02	3,558.14	32.98	33.03	0.05	3,525.15
MW - 4	07/03/02	3,558.14	33.00	33.06	0.06	3,525.13
MW - 4	07/11/02	3,558.14	33.00	33.07	0.07	3,525.13
MW - 4	07/16/02	3,558.14	32.98	33.04	0.06	3,525.15
MW - 4	08/21/02	3,558.14	33.40	36.21	2.81	3,524.32
MW - 4	08/27/02	3,558.14	33.05	33.16	0.11	3,525.07
MW - 4	09/05/02	3,558.14	33.08	33.15	0.07	3,525.05
MW - 4	09/16/02	3,558.14	33.11	33.15	0.04	3,525.02
MW - 4	10/15/02	3,558.14	33.19	33.24	0.05	3,524.94
MW - 4	12/19/02	3,558.14	33.22	33.34	0.12	3,524.90
MW - 4	03/03/03	3,558.14	NM	NM	NM	NM
MW - 4	06/17/03	3,558.14	33.29	33.45	0.16	3,524.83
MW - 4	09/05/03	3,558.14	33.48	33.62	0.14	3,524.64
MW - 4	12/16/03	3,558.14	33.64	33.79	0.15	3,524.48
MW - 4	03/08/04	3,558.14	33.69	33.72	0.03	3,524.45
MW - 4	05/25/04	3,558.14	33.42	33.45	0.03	3,524.72

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	08/31/04	3,558.14	33.64	33.80	0.16	3,524.48
MW - 4	09/14/04	3,558.14	33.66	33.85	0.19	3,524.45
MW - 4	09/21/04	3,558.14	33.66	33.87	0.21	3,524.45
MW - 4	10/14/04	3,558.14	sheen	32.80	0.00	3,525.34
MW - 4	10/21/04	3,558.14	sheen	32.80	0.00	3,525.34
MW - 4	10/28/04	3,558.14	sheen	32.83	0.00	3,525.31
MW - 4	11/04/04	3,558.14	sheen	32.87	0.00	3,525.27
MW - 4	11/11/04	3,558.14	sheen	32.87	0.00	3,525.27
MW - 4	11/17/04	3,558.14	sheen	32.91	0.00	3,525.23
MW - 4	11/30/04	3,558.14	sheen	32.47	0.00	3,525.67
MW - 4	12/07/04	3,558.14	sheen	32.41	0.00	3,525.73
MW - 4	12/13/04	3,558.14	-	32.36	0.00	3,525.78
MW - 4	12/15/04	3,558.14	sheen	32.36	0.00	3,525.78
MW - 4	12/28/04	3,558.14	sheen	32.40	0.00	3,525.74
MW - 4	01/12/05	3,558.14	sheen	32.38	0.00	3,525.76
MW - 4	01/19/05	3,558.14	sheen	32.39	0.00	3,525.75
MW - 4	01/26/05	3,558.14	sheen	32.40	0.00	3,525.74
MW - 4	02/01/05	3,558.14	sheen	32.43	0.00	3,525.71
MW - 4	02/09/05	3,558.14	sheen	32.39	0.00	3,525.75
MW - 4	02/16/05	3,558.14	sheen	32.84	0.00	3,525.30
MW - 4	02/23/05	3,558.14	sheen	32.36	0.00	3,525.78
MW - 4	03/02/05	3,558.14	sheen	32.34	0.00	3,525.80
MW - 4	03/09/05	3,558.14	sheen	32.31	0.00	3,525.83
MW - 4	03/11/05	3,558.14	sheen	32.35	0.00	3,525.79
MW - 4	03/17/05	3,558.14	sheen	32.39	0.00	3,525.75
MW - 4	03/23/05	3,558.14	sheen	32.32	0.00	3,525.82
MW - 4	03/30/05	3,558.14	sheen	32.28	0.00	3,525.86
MW - 4	04/06/05	3,558.14	sheen	32.27	0.00	3,525.87
MW - 4	04/14/05	3,558.14	sheen	32.23	0.00	3,525.91
MW - 4	05/24/05	3,558.14	sheen	32.20	0.00	3,525.94
MW - 4	06/08/05	3,558.14	sheen	31.97	0.00	3,526.17
MW - 4	06/14/05	3,558.14	31.93	31.94	0.01	3,526.21
MW - 4	06/22/05	3,558.14	sheen	31.94	0.00	3,526.20
MW - 4	07/13/05	3,558.14	sheen	32.00	0.00	3,526.14
MW - 4	07/28/05	3,558.14	sheen	31.88	0.00	3,526.26
MW - 4	08/24/05	3,558.14	sheen	31.55	0.00	3,526.59
MW - 4	09/13/05	3,558.14	31.76	31.77	0.01	3,526.38
MW - 4	09/30/05	3,558.14	31.73	31.76	0.03	3,526.41
MW - 4	10/11/05	3,558.14	31.73	31.76	0.03	3,526.41
MW - 4	10/28/05	3,558.14	31.71	31.78	0.07	3,526.42
MW - 4	11/17/05	3,558.14	31.69	31.71	0.02	3,526.45
MW - 4	12/07/05	3,558.14	31.59	31.69	0.10	3,526.54
MW - 4	12/19/05	3,558.14	31.56	31.63	0.07	3,526.57
MW - 4	12/30/05	3,558.14	31.55	31.65	0.10	3,526.58
MW - 4	01/11/06	3,558.14	31.50	31.55	0.05	3,526.63
MW - 4	01/27/06	3,558.14	31.50	31.51	0.01	3,526.64
MW - 4	02/09/06	3,558.14	31.45	31.55	0.10	3,526.68
MW - 4	02/24/06	3,558.14	31.43	31.56	0.13	3,526.69
MW - 4	03/08/06	3,558.14	31.40	31.49	0.09	3,526.73
MW - 4	03/08/06	3,558.14	31.38	31.43	0.05	3,526.75
MW - 4	03/24/06	3,558.14	31.37	31.59	0.22	3,526.74
MW - 4	03/31/06	3,558.14	31.35	31.40	0.05	3,526.78
MW - 4	05/04/06	3,558.14	31.28	31.48	0.20	3,526.83
MW - 4	06/02/06	3,558.14	31.30	31.47	0.17	3,526.81
MW - 4	06/07/06	3,558.14	31.31	31.41	0.10	3,526.82
MW - 4	06/15/06	3,558.14	31.31	31.48	0.17	3,526.80

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	06/29/06	3,558.14	31.32	31.79	0.47	3,526.75
MW - 4	07/06/06	3,558.14	31.38	31.86	0.48	3,526.69
MW - 4	07/18/06	3,558.14	31.41	31.74	0.33	3,526.68
MW - 4	07/26/06	3,558.14	31.42	31.83	0.41	3,526.66
MW - 4	07/31/06	3,558.14	31.42	31.74	0.32	3,526.67
MW - 4	08/08/06	3,558.14	31.44	31.85	0.41	3,526.64
MW - 4	08/18/06	3,558.14	31.44	31.85	0.41	3,526.64
MW - 4	08/22/06	3,558.14	31.74	31.86	0.12	3,526.38
MW - 4	09/05/06	3,558.14	31.59	31.62	0.03	3,526.55
MW - 4	09/16/06	3,558.14	31.32	31.47	0.15	3,526.80
MW - 4	11/13/06	3,558.14	31.20	31.49	0.29	3,526.90
MW - 4	11/14/06	3,558.14	31.20	31.50	0.30	3,526.90
MW - 4	01/10/07	3,558.14	sheen	31.99	0.00	3,526.15
MW - 4	01/25/07	3,558.14	31.10	31.68	0.58	3,526.95
MW - 4	02/06/07	3,558.14	31.07	31.46	0.39	3,527.01
MW - 4	02/12/07	3,558.14	31.09	31.30	0.21	3,527.02
MW - 4	02/13/07	3,558.14	31.08	31.34	0.26	3,527.02
MW - 4	02/20/07	3,558.14	31.06	31.23	0.17	3,527.05
MW - 4	03/07/07	3,558.14	31.06	31.23	0.17	3,527.05
MW - 4	03/27/07	3,558.14	31.03	31.12	0.09	3,527.10
MW - 4	04/11/07	3,558.14	31.03	31.11	0.08	3,527.10
MW - 4	04/25/07	3,558.14	31.01	31.30	0.29	3,527.09
MW - 4	05/01/07	3,558.14	30.99	31.06	0.07	3,527.14
MW - 4	05/07/07	3,558.14	30.99	31.14	0.15	3,527.13
MW - 4	05/17/07	3,558.14	30.96	31.02	0.06	3,527.17
MW - 4	05/25/07	3,558.14	30.95	31.01	0.06	3,527.18
MW - 4	06/07/07	3,558.14	30.92	30.96	0.04	3,527.21
MW - 4	06/12/07	3,558.14	30.91	30.96	0.05	3,527.22
MW - 4	06/20/07	3,558.14	sheen	30.96	0.00	3,527.18
MW - 4	06/28/07	3,558.14	sheen	30.93	0.00	3,527.21
MW - 4	07/02/07	3,558.14	sheen	30.94	0.00	3,527.20
MW - 4	07/11/07	3,558.14	-	30.95	0.00	3,527.19
MW - 4	07/18/07	3,558.14	-	30.96	0.00	3,527.18
MW - 4	07/24/07	3,558.14	sheen	30.96	0.00	3,527.18
MW - 4	08/01/07	3,558.14	sheen	30.96	0.00	3,527.18
MW - 4	08/08/07	3,558.14	sheen	30.96	0.00	3,527.18
MW - 4	08/16/07	3,558.14	sheen	30.99	0.00	3,527.15
MW - 4	09/14/07	3,558.14	sheen	31.05	0.00	3,527.09
MW - 4	09/18/07	3,558.14	sheen	31.07	0.00	3,527.07
MW - 4	09/25/07	3,558.14	sheen	31.06	0.00	3,527.08
MW - 4	10/03/07	3,558.14	sheen	31.03	0.00	3,527.11
MW - 4	10/10/07	3,558.14	sheen	31.00	0.00	3,527.14
MW - 4	10/16/07	3,558.14	sheen	30.99	0.00	3,527.15
MW - 4	10/29/07	3,558.14	sheen	32.03	0.00	3,526.11
MW - 4	11/02/07	3,558.14	sheen	31.01	0.00	3,527.13
MW - 4	11/07/07	3,558.14	sheen	30.98	0.00	3,527.16
MW - 4	11/30/07	3,558.14	sheen	30.95	0.00	3,527.19
MW - 4	12/07/07	3,558.14	sheen	30.96	0.00	3,527.18
MW - 4	12/17/07	3,558.14	sheen	25.81	0.00	3,532.33
MW - 4	12/18/07	3,558.14	sheen	30.95	0.00	3,527.19
MW - 4	01/11/08	3,558.14	sheen	30.91	0.00	3,527.23
MW - 4	01/17/08	3,558.14	sheen	30.93	0.00	3,527.21
MW - 4	01/22/08	3,558.14	sheen	30.92	0.00	3,527.22
MW - 4	02/07/08	3,558.14	sheen	30.94	0.00	3,527.20
MW - 4	02/13/08	3,558.14	sheen	30.90	0.00	3,527.24
MW - 4	02/21/08	3,558.14	sheen	30.92	0.00	3,527.22

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	02/29/08	3,558.14	sheen	30.93	0.00	3,527.21
MW - 4	03/14/08	3,558.14	sheen	30.89	0.00	3,527.25
MW - 4	03/20/08	3,558.14	sheen	30.93	0.00	3,527.21
MW - 4	04/03/08	3,558.14	sheen	30.92	0.00	3,527.22
MW - 4	04/10/08	3,558.14	sheen	30.91	0.00	3,527.23
MW - 4	04/17/08	3,558.14	sheen	30.95	0.00	3,527.19
MW - 4	04/24/08	3,558.14	sheen	30.94	0.00	3,527.20
MW - 4	05/01/08	3,558.14	sheen	30.93	0.00	3,527.21
MW - 4	05/06/08	3,558.14	-	30.95	0.00	3,527.19
MW - 4	05/08/08	3,558.14	sheen	30.95	0.00	3,527.19
MW - 4	05/15/08	3,558.14	sheen	30.95	0.00	3,527.19
MW - 4	05/20/08	3,558.14	sheen	30.97	0.00	3,527.17
MW - 4	05/30/08	3,558.14	sheen	31.00	0.00	3,527.14
MW - 4	06/04/08	3,558.14	sheen	30.99	0.00	3,527.15
MW - 4	06/12/08	3,558.14	sheen	31.08	0.00	3,527.06
MW - 4	06/17/08	3,558.14	sheen	31.12	0.00	3,527.02
MW - 4	06/24/08	3,558.14	sheen	31.14	0.00	3,527.00
MW - 4	07/03/08	3,558.14	sheen	31.18	0.00	3,526.96
MW - 4	07/09/08	3,558.14	sheen	31.18	0.00	3,526.96
MW - 4	07/14/08	3,558.14	sheen	31.18	0.00	3,526.96
MW - 4	07/23/08	3,558.14	sheen	31.16	0.00	3,526.98
MW - 4	08/05/08	3,558.14	sheen	31.20	0.00	3,526.94
MW - 4	08/06/08	3,558.14	sheen	31.20	0.00	3,526.94
MW - 4	08/11/08	3,558.14	sheen	31.21	0.00	3,526.93
MW - 4	08/28/08	3,558.14	sheen	31.24	0.00	3,526.90
MW - 4	09/09/08	3,558.14	sheen	31.27	0.00	3,526.87
MW - 4	09/25/08	3,558.14	31.28	31.38	0.10	3,526.85
MW - 4	09/30/08	3,558.14	31.29	31.38	0.09	3,526.84
MW - 4	10/07/08	3,558.14	31.26	31.43	0.17	3,526.85
MW - 4	10/15/08	3,558.14	31.29	31.49	0.20	3,526.82
MW - 4	10/22/08	3,558.14	31.27	31.30	0.03	3,526.87
MW - 4	10/30/08	3,558.14	sheen	31.77	0.00	3,526.37
MW - 4	11/05/08	3,558.14	31.20	31.58	0.38	3,526.88
MW - 4	11/07/08	3,558.14	31.34	31.98	0.64	3,526.70
MW - 4	11/14/08	3,558.14	31.23	31.64	0.41	3,526.85
MW - 4	11/21/08	3,558.14	31.11	31.68	0.57	3,526.94
MW - 4	11/24/08	3,558.14	31.14	31.60	0.46	3,526.93
MW - 4	11/24/08	3,558.14	31.09	31.20	0.11	3,527.03
MW - 4	12/05/08	3,558.14	31.34	31.68	0.34	3,526.75
MW - 4	12/16/08	3,558.14	31.16	31.57	0.41	3,526.92
MW - 4	01/07/09	3,558.14	31.16	31.82	0.66	3,526.88
MW - 4	01/16/09	3,558.14	31.01	31.44	0.43	3,527.07
MW - 4	01/29/09	3,558.14	31.15	31.43	0.28	3,526.95
MW - 4	02/03/09	3,558.14	31.16	31.31	0.15	3,526.96
MW - 4	02/09/09	3,558.14	31.15	31.28	0.13	3,526.97
MW - 4	02/17/09	3558.14	30.15	30.36	0.21	3527.96
MW - 4	02/26/09	3,558.14	31.22	31.36	0.14	3,526.90
MW - 4	03/02/09	3,558.14	31.13	31.21	0.08	3,527.00
MW - 4	03/05/09	3,558.14	31.28	31.39	0.11	3,526.84
MW - 4	03/09/09	3,558.14	31.30	31.42	0.12	3,526.82
MW - 4	03/16/09	3,558.14	31.14	31.29	0.15	3,526.98
MW - 4	03/18/09	3,558.14	31.32	31.44	0.12	3,526.80
MW - 4	03/25/09	3,558.14	31.34	31.45	0.11	3,526.78
MW - 4	03/26/09	3,558.14	31.11	31.25	0.14	3,527.01
MW - 4	03/27/09	3,558.14	31.18	31.20	0.02	3,526.96
MW - 4	03/30/09	3,558.14	-	31.26	0.00	3,526.88

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	04/06/09	3,558.14	-	31.22	0.00	3,526.92
MW - 4	04/14/09	3,558.14	31.19	31.22	0.03	3,526.95
MW - 4	04/16/09	3,558.14	-	31.18	0.00	3,526.96
MW - 4	04/20/09	3,558.14	-	31.20	0.00	3,526.94
MW - 4	04/23/09	3,558.14	-	31.20	0.00	3,526.94
MW - 4	04/27/09	3,558.14	-	31.21	0.00	3,526.93
MW - 4	04/30/09	3,558.14	-	31.21	0.00	3,526.93
MW - 4	05/06/09	3,558.14	-	31.19	0.00	3,526.95
MW - 4	05/21/09	3,558.14	-	31.21	0.00	3,526.93
MW - 4	05/27/09	3,558.14	-	31.21	0.00	3,526.93
MW - 4	06/08/09	3,558.14	-	31.27	0.00	3,526.87
MW - 4	06/11/09	3,558.14	sheen	31.43	0.00	3,526.71
MW - 4	06/16/09	3,558.14	sheen	31.78	0.00	3,526.36
MW - 4	06/22/09	3,558.14	sheen	31.30	0.00	3,526.84
MW - 4	06/29/09	3,558.14	sheen	31.27	0.00	3,526.87
MW - 4	07/02/09	3,558.14	-	31.34	0.00	3,526.80
MW - 4	07/10/09	3,558.14	sheen	31.37	0.00	3,526.77
MW - 4	07/15/09	3,558.14	sheen	31.30	0.00	3,526.84
MW - 4	07/21/09	3,558.14	sheen	31.43	0.00	3,526.71
MW - 4	07/29/09	3,558.14	sheen	31.31	0.00	3,526.83
MW - 4	07/30/09	3,558.14	31.40	31.48	0.08	3,526.73
MW - 4	08/03/09	3,558.14	sheen	31.44	0.00	3,526.70
MW - 4	08/05/09	3,558.14	sheen	31.43	0.00	3,526.71
MW - 4	08/07/09	3,558.14	sheen	31.48	0.00	3,526.66
MW - 4	08/10/09	3,558.14	sheen	31.45	0.00	3,526.69
MW - 4	08/19/09	3,558.14	31.45	31.68	0.23	3,526.66
MW - 4	08/27/09	3,558.14	sheen	31.76	0.00	3,526.38
MW - 4	08/31/09	3,558.14	sheen	31.78	0.00	3,526.36
MW - 4	09/11/09	3,558.14	31.50	32.10	0.60	3,526.55
MW - 4	09/17/09	3,558.14	31.56	31.73	0.17	3,526.55
MW - 4	09/24/09	3,558.14	31.58	31.77	0.19	3,526.53
MW - 4	09/29/09	3,558.14	sheen	31.68	0.00	3,526.46
MW - 4	09/30/09	3,558.14	sheen	31.60	0.00	3,526.54
MW - 4	10/06/09	3,558.14	sheen	31.69	0.00	3,526.45
MW - 4	10/20/09	3,558.14	-	-	0.00	-
MW - 4	10/27/09	3,558.14	sheen	32.14	0.00	3,526.00
MW - 4	11/04/09	3,558.14	31.71	32.13	0.42	3,526.37
MW - 4	11/05/09	3,558.14	31.65	32.07	0.42	3,526.43
MW - 4	11/20/09	3,558.14	31.55	32.95	1.40	3,526.38
MW - 4	12/04/09	3,558.14	31.54	32.92	1.38	3,526.39
MW - 4	12/14/09	3,558.14	31.21	32.08	0.87	3,526.80
MW - 4	12/31/09	3,558.14	31.58	33.72	2.14	3,526.24
MW - 4	01/07/10	3,558.14	31.64	33.74	2.10	3,526.19
MW - 4	01/21/10	3,558.14	31.56	33.20	1.64	3,526.33
MW - 4	02/02/10	3,558.14	31.68	33.00	1.32	3,526.26
MW - 4	02/19/10	3,558.14	31.55	33.56	2.01	3,526.29
MW - 4	03/01/10	3,558.14	31.76	33.04	1.28	3,526.19
MW - 4	03/16/10	3,558.14	31.63	33.00	1.37	3,526.30
MW - 4	03/31/10	3,558.14	31.66	33.00	1.34	3,526.28
MW - 4	04/07/10	3,558.14	31.69	32.73	1.04	3,526.29
MW - 4	04/16/10	3,558.14	31.69	32.68	0.99	3,526.30
MW - 4	04/28/10	3,558.14	31.61	32.49	0.88	3,526.40
MW - 4	05/05/10	3,558.14	31.62	33.11	1.49	3,526.30
MW - 4	05/13/10	3,558.14	31.62	32.50	0.88	3,526.39
MW - 4	05/19/10	3,558.14	31.65	32.51	0.86	3,526.36
MW - 4	05/26/10	3,558.14	31.57	32.80	1.23	3,526.39

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	06/07/10	3,558.14	31.69	32.92	1.23	3,526.27
MW - 4	06/09/10	3,558.14	31.68	32.53	0.85	3,526.33
MW - 4	07/16/10	3,558.14	31.42	33.24	1.82	3,526.45
MW - 4	07/30/10	3,558.14	31.42	32.65	1.23	3,526.54
MW - 4	08/04/10	3,558.14	31.42	32.65	1.23	3,526.54
MW - 4	08/06/10	3,558.14	31.37	32.40	1.03	3,526.62
MW - 4	08/21/10	3,558.14	31.43	32.42	0.99	3,526.56
MW - 4	09/10/10	3,558.14	31.43	32.66	1.23	3,526.53
MW - 4	09/24/10	3,558.14	31.47	32.40	0.93	3,526.53
MW - 4	10/08/10	3,558.14	31.32	33.14	1.82	3,526.55
MW - 4	11/03/10	3,558.14	31.64	33.15	1.51	3,526.27
MW - 4	12/03/10	3,558.14	31.23	33.14	1.91	3,526.62
MW - 4	12/16/10	3,558.14	31.42	32.36	0.94	3,526.58
MW - 4	02/08/11	3,558.14	31.62	33.18	1.56	3,526.29
MW - 4	05/02/11	3,558.14	31.13	33.12	1.99	3,526.71
MW - 4	05/09/11	3,558.14	31.15	32.93	1.78	3,526.72
MW - 4	05/10/11	3,558.14	31.15	32.93	1.78	3,526.72
MW - 4	05/19/11	3,558.14	31.28	32.01	0.73	3,526.75
MW - 4	05/27/11	3,558.14	31.31	31.91	0.60	3,526.74
MW - 4	06/10/11	3,558.14	31.35	32.26	0.91	3,526.65
MW - 4	06/24/11	3,558.14	31.37	32.11	0.74	3,526.66
MW - 4	07/01/11	3,558.14	31.45	32.39	0.94	3,526.55
MW - 4	07/12/11	3,558.14	31.51	32.53	1.02	3,526.48
MW - 4	08/09/11	3,558.14	31.55	33.45	1.90	3,526.31
MW - 4	09/07/11	3,558.14	31.67	33.63	1.96	3,526.18
MW - 4	09/14/11	3,558.14	31.83	32.57	0.74	3,526.20
MW - 4	10/31/11	3,558.14	31.80	32.66	0.86	3,526.21
MW - 4	12/07/11	3,558.14	31.72	33.24	1.52	3,526.19
MW - 4	12/23/11	3,558.14	31.78	32.96	1.18	3,526.18
MW - 4	12/27/11	3,558.14	31.83	32.55	0.72	3,526.20
MW - 4	01/18/12	3,558.14	31.76	33.01	1.25	3,526.19
MW - 4	01/23/12	3,558.14	31.81	32.59	0.78	3,526.21
MW - 4	02/08/12	3,558.14	31.82	31.99	0.17	3,526.29
MW - 4	03/02/12	3,558.14	31.76	33.01	1.25	3,526.19
MW - 4	03/19/12	3,558.14	31.80	32.66	0.86	3,526.21
MW - 4	04/02/12	3,558.14	31.78	32.72	0.94	3,526.22
MW - 4	04/19/12	3,558.14	31.79	32.75	0.96	3,526.21
MW - 4	05/07/12	3,558.14	31.83	32.88	1.05	3,526.15
MW - 4	05/21/12	3,558.14	31.82	33.15	1.33	3,526.12
MW - 4	06/06/12	3,558.14	31.84	32.58	0.74	3,526.19
MW - 4	06/18/12	3,558.14	31.86	32.71	0.85	3,526.15
MW - 4	07/02/12	3,558.14	31.87	32.72	0.85	3,526.14
MW - 4	07/16/12	3,558.14	31.86	32.70	0.84	3,526.15
MW - 4	08/03/12	3,558.14	32.02	32.55	0.53	3,526.04
MW - 4	08/15/12	3,558.14	32.04	32.93	0.89	3,525.97
MW - 4	10/01/12	3,558.14	32.20	33.10	0.90	3,525.81
MW - 4	10/15/12	3,558.14	32.24	32.80	0.56	3,525.82
MW - 4	10/29/12	3,558.14	32.25	32.63	0.38	3,525.83
MW - 4	11/05/12	3,558.14	32.26	32.47	0.21	3,525.85
MW - 4	11/29/12	3,558.14	32.21	32.75	0.54	3,525.85
MW - 4	12/10/12	3,558.14	32.25	32.48	0.23	3,525.86
MW - 4	12/27/12	3,558.14	32.24	32.46	0.22	3,525.87
MW - 4	01/14/13	3,558.14	32.35	32.41	0.06	3,525.78
MW - 4	02/04/13	3,558.14	32.24	32.41	0.17	3,525.87
MW - 4	02/06/13	3,558.14	32.26	32.36	0.10	3,525.87
MW - 4	03/04/13	3,558.14	-	32.62	0.00	3,525.52

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	04/10/13	3,558.14	32.24	32.64	0.40	3,525.84
MW - 4	04/22/13	3,558.14	32.26	32.46	0.20	3,525.85
MW - 4	05/23/13	3,558.14	32.23	32.45	0.22	3,525.88
MW - 4	05/30/13	3,558.14	32.26	32.51	0.25	3,525.84
MW - 4	06/06/13	3,558.14	32.28	32.41	0.13	3,525.84
MW - 4	06/20/13	3,558.14	32.30	32.40	0.10	3,525.83
MW - 4	07/02/13	3,558.14	32.34	32.42	0.08	3,525.79
MW - 4	08/01/13	3,558.14	32.41	32.54	0.13	3,525.71
MW - 4	11/27/13	Unable to Gauge / Sample due to Excavation				
MW - 5	01/24/00	3,560.07	-	34.10	0.00	3,525.97
MW - 5	06/07/00	3,560.07	-	34.12	0.00	3,525.95
MW - 5	09/06/00	3,560.07	-	34.41	0.00	3,525.66
MW - 5	12/06/00	3,560.07	-	34.61	0.00	3,525.46
MW - 5	03/09/01	3,560.07	-	34.53	0.00	3,525.54
MW - 5	06/21/01	3,560.07	-	34.59	0.00	3,525.48
MW - 5	09/22/01	3,560.07	-	34.85	0.00	3,525.22
MW - 5	10/12/01	3,560.07	-	34.88	0.00	3,525.19
MW - 5	03/27/02	3,560.07	-	35.05	0.00	3,525.02
MW - 5	05/16/02	3,560.07	-	35.05	0.00	3,525.02
MW - 5	09/16/02	3,560.07	-	35.29	0.00	3,524.78
MW - 5	12/19/02	3,560.07	-	35.39	0.00	3,524.68
MW - 5	03/03/03	3,560.07	NM	NM	NM	NM
MW - 5	06/17/03	3,560.07	-	35.53	0.00	3,524.54
MW - 5	09/05/03	3,560.07	-	35.72	0.00	3,524.35
MW - 5	12/16/03	3,560.07	-	35.70	0.00	3,524.37
MW - 5	03/08/04	3,560.07	-	35.92	0.00	3,524.15
MW - 5	05/25/04	3,560.07	-	35.57	0.00	3,524.50
MW - 5	08/31/04	3,560.07	-	35.90	0.00	3,524.17
MW - 5	12/13/04	3,560.07	-	34.60	0.00	3,525.47
MW - 5	03/11/05	3,560.07	-	34.56	0.00	3,525.51
MW - 5	06/14/05	3,560.07	-	34.20	0.00	3,525.87
MW - 5	09/13/05	3,560.07	-	34.02	0.00	3,526.05
MW - 5	12/07/05	3,560.07	-	33.85	0.00	3,526.22
MW - 5	12/19/05	3,560.07	-	33.81	0.00	3,526.26
MW - 5	03/08/06	3,560.07	-	33.64	0.00	3,526.43
MW - 5	06/07/06	3,560.07	-	33.58	0.00	3,526.49
MW - 5	09/05/06	3,560.07	-	33.68	0.00	3,526.39
MW - 5	11/13/06	3,560.07	-	33.49	0.00	3,526.58
MW - 5	02/12/07	3,560.07	-	33.29	0.00	3,526.78
MW - 5	05/07/07	3,560.07	-	33.26	0.00	3,526.81
MW - 5	08/08/07	3,560.07	-	33.22	0.00	3,526.85
MW - 5	11/02/07	3,560.07	-	33.24	0.00	3,526.83
MW - 5	12/17/07	3,560.07	sheen	25.21	0.00	3,534.86
MW - 5	02/07/08	3,560.07	-	33.21	0.00	3,526.86
MW - 5	05/06/08	3,560.07	-	33.12	0.00	3,526.95
MW - 5	08/06/08	3,560.07	-	33.44	0.00	3,526.63
MW - 5	11/05/08	3,560.07	-	33.48	0.00	3,526.59
MW - 5	02/03/09	3,560.07	-	33.42	0.00	3,526.65
MW - 5	05/06/09	3,560.07	-	33.42	0.00	3,526.65
MW - 5	08/03/09	3,560.07	-	33.68	0.00	3,526.39
MW - 5	11/04/09	3,560.07	-	33.94	0.00	3,526.13
MW - 5	01/07/10	3,560.07	-	33.98	0.00	3,526.09
MW - 5	02/02/10	3,560.07	-	34.02	0.00	3,526.05
MW - 5	05/05/10	3,560.07	-	33.94	0.00	3,526.13
MW - 5	08/04/10	3,560.07	-	33.94	0.00	3,526.13

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	11/03/10	3,560.07	-	33.93	0.00	3,526.14
MW - 5	02/08/11	3,560.07	-	33.93	0.00	3,526.14
MW - 5	05/02/11	3,560.07	-	33.60	0.00	3,526.47
MW - 5	05/09/11	3,560.07	-	33.98	0.00	3,526.09
MW - 5	05/10/11	3,560.07	-	33.98	0.00	3,526.09
MW - 5	08/09/11	3,560.07	-	34.00	0.00	3,526.07
MW - 5	09/14/11	3,560.07	-	34.13	0.00	3,525.94
MW - 5	10/31/11	3,560.07	-	34.15	0.00	3,525.92
MW - 5	02/08/12	3,560.07	-	34.06	0.00	3,526.01
MW - 5	05/07/12	3,560.07	-	34.18	0.00	3,525.89
MW - 5	08/03/12	3,560.07	-	34.33	0.00	3,525.74
MW - 5	11/05/12	3,560.07	-	34.50	0.00	3,525.57
MW - 5	02/06/13	3,560.07	-	34.52	0.00	3,525.55
MW - 5	05/23/13	3,560.07	-	34.52	0.00	3,525.55
MW - 5	08/01/13	3,560.07	-	34.63	0.00	3,525.44
MW - 5	11/27/13	3,560.07	-	34.72	0.00	3,525.35
MW - 6	01/24/00	3,557.64	-	31.34	0.00	3,526.30
MW - 6	06/07/00	3,557.64	-	31.35	0.00	3,526.29
MW - 6	09/06/00	3,557.64	-	31.65	0.00	3,525.99
MW - 6	12/06/00	3,557.64	-	31.86	0.00	3,525.78
MW - 6	03/09/01	3,557.64	-	31.77	0.00	3,525.87
MW - 6	06/21/01	3,557.64	-	31.85	0.00	3,525.79
MW - 6	09/22/01	3,557.64	-	32.15	0.00	3,525.49
MW - 6	10/12/01	3,557.64	-	32.13	0.00	3,525.51
MW - 6	03/27/02	3,557.64	-	32.29	0.00	3,525.35
MW - 6	05/16/02	3,557.64	-	32.28	0.00	3,525.36
MW - 6	09/16/02	3,557.64	-	32.52	0.00	3,525.12
MW - 6	12/19/02	3,557.64	-	32.63	0.00	3,525.01
MW - 6	03/03/03	3,557.64	NM	NM	NM	NM
MW - 6	06/17/03	3,557.64	NM	NM	NM	NM
MW - 6	09/05/03	3,557.64	NM	NM	NM	NM
MW - 6	12/16/03	3,557.64	-	33.11	0.00	3,524.53
MW - 6	03/08/04	3,557.64	-	33.17	0.00	3,524.47
MW - 6	05/25/04	3,557.64	-	32.87	0.00	3,524.77
MW - 6	08/31/04	3,557.64	-	33.12	0.00	3,524.52
MW - 6	12/13/04	3,557.64	-	31.65	0.00	3,525.99
MW - 6	03/11/05	3,557.64	-	31.71	0.00	3,525.93
MW - 6	06/14/05	3,557.64	-	31.37	0.00	3,526.27
MW - 6	09/13/05	3,557.64	-	31.23	0.00	3,526.41
MW - 6	12/07/05	3,557.64	-	31.07	0.00	3,526.57
MW - 6	12/19/05	3,557.64	-	31.01	0.00	3,526.63
MW - 6	03/08/06	3,557.64	-	30.85	0.00	3,526.79
MW - 6	06/07/06	3,557.64	-	30.82	0.00	3,526.82
MW - 6	09/05/06	3,557.64	-	30.91	0.00	3,526.73
MW - 6	11/13/06	3,557.64	-	30.71	0.00	3,526.93
MW - 6	02/12/07	3,557.64	-	30.59	0.00	3,527.05
MW - 6	05/07/07	3,557.64	-	30.42	0.00	3,527.22
MW - 6	08/08/07	3,557.64	-	30.47	0.00	3,527.17
MW - 6	11/02/07	3,557.64	-	30.51	0.00	3,527.13
MW - 6	02/07/08	3,557.64	-	30.44	0.00	3,527.20
MW - 6	05/06/08	3,557.64	-	30.43	0.00	3,527.21
MW - 6	08/06/08	3,557.64	-	30.74	0.00	3,526.90
MW - 6	11/05/08	3,557.64	-	30.77	0.00	3,526.87
MW - 6	02/03/09	3,557.64	-	30.71	0.00	3,526.93
MW - 6	05/06/09	3,557.64	-	30.69	0.00	3,526.95

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 6	08/03/09	3,557.64	-	30.97	0.00	3,526.67
MW - 6	11/04/09	3,557.64	-	31.23	0.00	3,526.41
MW - 6	01/07/10	3,557.64	-	31.28	0.00	3,526.36
MW - 6	02/02/10	3,557.64	-	31.31	0.00	3,526.33
MW - 6	05/05/10	3,557.64	-	31.40	0.00	3,526.24
MW - 6	08/04/10	3,557.64	-	31.40	0.00	3,526.24
MW - 6	11/03/10	3,557.64	-	31.42	0.00	3,526.22
MW - 6	02/08/11	3,557.64	-	31.40	0.00	3,526.24
MW - 6	05/02/11	3,557.64	-	30.89	0.00	3,526.75
MW - 6	05/09/11	3,557.64	-	30.85	0.00	3,526.79
MW - 6	05/10/11	3,557.64	-	30.85	0.00	3,526.79
MW - 6	08/09/11	3,557.64	-	30.82	0.00	3,526.82
MW - 6	09/14/11	3,557.64	-	31.40	0.00	3,526.24
MW - 6	10/31/11	3,557.64	-	31.45	0.00	3,526.19
MW - 6	02/08/12	3,557.64	-	31.45	0.00	3,526.19
MW - 6	05/07/12	3,557.64	-	31.47	0.00	3,526.17
MW - 6	08/03/12	3,557.64	-	31.62	0.00	3,526.02
MW - 6	11/05/12	3,557.64	-	31.79	0.00	3,525.85
MW - 6	02/06/13	3,557.64	-	31.79	0.00	3,525.85
MW - 6	05/23/13	3,557.64	-	31.79	0.00	3,525.85
MW - 6	08/01/13	3,557.64	-	31.91	0.00	3,525.73
MW - 6	11/27/13	3,557.64	-	32.03	0.00	3,525.61
MW - 7	01/24/00	3,558.65	-	32.30	0.00	3,526.35
MW - 7	06/07/00	3,558.65	-	32.38	0.00	3,526.27
MW - 7	09/06/00	3,558.65	HIGH H2S IN AREA-NOT GAUGED			-
MW - 7	12/06/00	3,558.65	-	32.81	0.00	3,525.84
MW - 7	03/09/01	3,558.65	-	32.71	0.00	3,525.94
MW - 7	06/21/01	3,558.65	-	32.79	0.00	3,525.86
MW - 7	09/22/01	3,558.65	-	33.05	0.00	3,525.60
MW - 7	10/12/01	3,558.65	-	33.08	0.00	3,525.57
MW - 7	03/27/02	3,558.65	-	34.15	0.00	3,524.50
MW - 7	05/16/02	3,558.65	-	33.25	0.00	3,525.40
MW - 7	09/16/02	3,558.65	-	33.48	0.00	3,525.17
MW - 7	12/19/02	3,558.65	-	33.65	0.00	3,525.00
MW - 7	03/03/03	3,558.65	NM	NM	NM	NM
MW - 7	06/17/03	3,558.65	-	33.67	0.00	3,524.98
MW - 7	09/05/03	3,558.65	NM	33.86	0.00	3,524.79
MW - 7	12/16/03	3,558.65	-	33.83	0.00	3,524.82
MW - 7	03/08/04	3,558.65	-	34.13	0.00	3,524.52
MW - 7	05/25/04	3,558.65	-	33.90	0.00	3,524.75
MW - 7	08/31/04	3,558.65	-	34.11	0.00	3,524.54
MW - 7	12/13/04	3,558.65	-	32.82	0.00	3,525.83
MW - 7	03/11/05	3,558.65	-	32.65	0.00	3,526.00
MW - 7	06/14/05	3,558.65	-	32.42	0.00	3,526.23
MW - 7	09/13/05	3,558.65	-	32.22	0.00	3,526.43
MW - 7	12/07/05	3,558.65	-	32.04	0.00	3,526.61
MW - 7	12/19/05	3,558.65	-	32.01	0.00	3,526.64
MW - 7	03/08/06	3,558.65	-	31.83	0.00	3,526.82
MW - 7	06/07/06	3,558.65	-	31.76	0.00	3,526.89
MW - 7	09/05/06	3,558.65	-	31.82	0.00	3,526.83
MW - 7	11/13/06	3,558.65	-	31.68	0.00	3,526.97
MW - 7	02/12/07	3,558.65	-	31.46	0.00	3,527.19
MW - 7	05/07/07	3,558.65	-	31.39	0.00	3,527.26
MW - 7	08/08/07	3,558.65	-	31.39	0.00	3,527.26
MW - 7	11/02/07	3,558.65	-	31.43	0.00	3,527.22

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	12/17/07	3,558.65	sheen	23.56	0.00	3,535.09
MW - 7	02/07/08	3,558.65	-	31.36	0.00	3,527.29
MW - 7	05/06/08	3,558.65	-	31.36	0.00	3,527.29
MW - 7	08/06/08	3,558.65	-	31.65	0.00	3,527.00
MW - 7	11/05/08	3,558.65	-	31.68	0.00	3,526.97
MW - 7	02/03/09	3,558.65	-	31.62	0.00	3,527.03
MW - 7	05/06/09	3,558.65	-	31.61	0.00	3,527.04
MW - 7	08/03/09	3,558.65	-	31.85	0.00	3,526.80
MW - 7	11/04/09	3,558.65	-	32.14	0.00	3,526.51
MW - 7	01/07/10	3,558.65	-	32.19	0.00	3,526.46
MW - 7	02/02/10	3,558.65	-	32.24	0.00	3,526.41
MW - 7	05/05/10	3,558.65	-	32.14	0.00	3,526.51
MW - 7	08/04/10	3,558.65	-	32.15	0.00	3,526.50
MW - 7	11/03/10	3,558.65	-	32.14	0.00	3,526.51
MW - 7	02/08/11	3,558.65	-	33.07	0.00	3,525.58
MW - 7	05/02/11	3,558.65	-	31.79	0.00	3,526.86
MW - 7	05/09/11	3,558.65	-	31.78	0.00	3,526.87
MW - 7	05/10/11	3,558.65	-	31.78	0.00	3,526.87
MW - 7	08/09/11	3,558.65	-	31.81	0.00	3,526.84
MW - 7	09/14/11	3,558.65	-	32.34	0.00	3,526.31
MW - 7	10/31/11	3,558.65	-	32.36	0.00	3,526.29
MW - 7	02/08/12	3,558.65	-	32.37	0.00	3,526.28
MW - 7	05/07/12	3,558.65	-	32.39	0.00	3,526.26
MW - 7	08/03/12	3,558.65	-	32.54	0.00	3,526.11
MW - 7	11/05/12	3,558.65	-	32.71	0.00	3,525.94
MW - 7	02/06/13	3,558.65	-	32.71	0.00	3,525.94
MW - 7	05/23/13	3,558.65	-	32.71	0.00	3,525.94
MW - 7	08/01/13	3,558.65	-	32.83	0.00	3,525.82
MW - 7	11/27/13	3,558.65	-	32.96	0.00	3,525.69
MW - 8	01/24/00	3,559.30	-	33.21	0.00	3,526.09
MW - 8	09/06/00	3,559.30	-	33.51	0.00	3,525.79
MW - 8	12/06/00	3,559.30	-	33.71	0.00	3,525.59
MW - 8	03/09/01	3,559.30	-	33.62	0.00	3,525.68
MW - 8	06/21/01	3,559.30	-	33.70	0.00	3,525.60
MW - 8	09/22/01	3,559.30	-	33.95	0.00	3,525.35
MW - 8	10/12/01	3,559.30	-	33.98	0.00	3,525.32
MW - 8	03/27/02	3,559.30	-	34.15	0.00	3,525.15
MW - 8	05/16/02	3,559.30	-	34.16	0.00	3,525.14
MW - 8	09/16/02	3,559.30	-	34.40	0.00	3,524.90
MW - 8	12/19/02	3,559.30	-	34.49	0.00	3,524.81
MW - 8	03/03/03	3,559.30	NM	NM	NM	NM
MW - 8	06/17/03	3,559.30	-	34.63	0.00	3,524.67
MW - 8	09/05/03	3,559.30	-	34.76	0.00	3,524.54
MW - 8	12/16/03	3,559.30	-	34.74	0.00	3,524.56
MW - 8	03/08/04	3,559.30	-	35.02	0.00	3,524.28
MW - 8	05/25/04	3,559.30	-	34.75	0.00	3,524.55
MW - 8	08/31/04	3,559.30	-	35.00	0.00	3,524.30
MW - 8	12/13/04	3,559.30	-	33.70	0.00	3,525.60
MW - 8	03/11/05	3,559.30	-	33.67	0.00	3,525.63
MW - 8	06/14/05	3,559.30	-	33.31	0.00	3,525.99
MW - 8	09/13/05	3,559.30	-	33.12	0.00	3,526.18
MW - 8	12/07/05	3,559.30	-	32.95	0.00	3,526.35
MW - 8	12/19/05	3,559.30	-	32.91	0.00	3,526.39
MW - 8	03/08/06	3,559.30	-	32.73	0.00	3,526.57
MW - 8	06/07/06	3,559.30	-	32.68	0.00	3,526.62

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 8	09/05/06	3,559.30	-	32.78	0.00	3,526.52
MW - 8	11/13/06	3,559.30	-	32.60	0.00	3,526.70
MW - 8	02/12/07	3,559.30	-	32.37	0.00	3,526.93
MW - 8	05/07/07	3,559.30	-	32.28	0.00	3,527.02
MW - 8	08/08/07	3,559.30	-	32.31	0.00	3,526.99
MW - 8	11/02/07	3,559.30	-	32.31	0.00	3,526.99
MW - 8	02/07/08	3,559.30	-	32.26	0.00	3,527.04
MW - 8	05/06/08	3,559.30	-	32.28	0.00	3,527.02
MW - 8	08/06/08	3,559.30	-	32.54	0.00	3,526.76
MW - 8	11/05/08	3,559.30	-	32.60	0.00	3,526.70
MW - 8	02/03/09	3,559.30	-	32.53	0.00	3,526.77
MW - 8	05/06/09	3,559.30	-	32.51	0.00	3,526.79
MW - 8	08/03/09	3,559.30	-	32.76	0.00	3,526.54
MW - 8	11/04/09	3,559.30	-	33.04	0.00	3,526.26
MW - 8	01/07/10	3,559.30	-	33.10	0.00	3,526.20
MW - 8	02/02/10	3,559.30	-	33.11	0.00	3,526.19
MW - 8	05/05/10	3,559.30	-	33.07	0.00	3,526.23
MW - 8	08/04/10	3,559.30	-	33.06	0.00	3,526.24
MW - 8	11/03/10	3,559.30	-	33.06	0.00	3,526.24
MW - 8	02/08/11	3,559.30	-	32.16	0.00	3,527.14
MW - 8	05/02/11	3,559.30	-	32.70	0.00	3,526.60
MW - 8	05/09/11	3,559.30	-	32.67	0.00	3,526.63
MW - 8	05/10/11	3,559.30	-	32.67	0.00	3,526.63
MW - 8	08/09/11	3,559.30	-	32.66	0.00	3,526.64
MW - 8	09/14/11	3,559.30	-	33.24	0.00	3,526.06
MW - 8	10/31/11	3,559.30	-	33.25	0.00	3,526.05
MW - 8	02/08/12	3,559.30	-	33.25	0.00	3,526.05
MW - 8	05/07/12	3,559.30	-	33.28	0.00	3,526.02
MW - 8	08/03/12	3,559.30	-	33.43	0.00	3,525.87
MW - 8	11/05/12	3,559.30	-	33.60	0.00	3,525.70
MW - 8	02/06/13	3,559.30	-	33.60	0.00	3,525.70
MW - 8	05/23/13	3,559.30	-	33.59	0.00	3,525.71
MW - 8	08/01/13	3,559.30	-	33.72	0.00	3,525.58
MW - 8	11/27/13	3,559.30	-	33.84	0.00	3,525.46
MW - 9	11/08/04	3,559.94	-	34.87	0.00	3,525.07
MW - 9	11/10/04	3,559.94	-	34.87	0.00	3,525.07
MW - 9	03/11/05	3,559.94	-	34.36	0.00	3,525.58
MW - 9	06/14/05	3,559.94	-	34.01	0.00	3,525.93
MW - 9	09/13/05	3,559.94	-	33.84	0.00	3,526.10
MW - 9	12/07/05	3,559.94	-	33.68	0.00	3,526.26
MW - 9	12/19/05	3,559.94	-	33.64	0.00	3,526.30
MW - 9	03/08/06	3,559.94	-	33.47	0.00	3,526.47
MW - 9	06/07/06	3,559.94	-	33.43	0.00	3,526.51
MW - 9	09/05/06	3,559.94	-	33.54	0.00	3,526.40
MW - 9	11/13/06	3,559.94	-	33.34	0.00	3,526.60
MW - 9	02/12/07	3,559.94	-	33.13	0.00	3,526.81
MW - 9	05/07/07	3,559.94	-	33.11	0.00	3,526.83
MW - 9	08/08/07	3,559.94	-	33.08	0.00	3,526.86
MW - 9	11/02/07	3,559.94	-	33.09	0.00	3,526.85
MW - 9	02/07/08	3,559.94	-	33.02	0.00	3,526.92
MW - 9	05/06/08	3,559.94	-	33.03	0.00	3,526.91
MW - 9	08/06/08	3,559.94	-	33.30	0.00	3,526.64
MW - 9	11/05/08	3,559.94	-	33.33	0.00	3,526.61
MW - 9	02/03/09	3,559.94	-	33.29	0.00	3,526.65
MW - 9	05/06/09	3,559.94	-	33.27	0.00	3,526.67

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	08/03/09	3,559.94	-	33.55	0.00	3,526.39
MW - 9	11/04/09	3,559.94	-	33.81	0.00	3,526.13
MW - 9	01/07/10	3,559.94	-	33.85	0.00	3,526.09
MW - 9	02/02/10	3,559.94	-	33.87	0.00	3,526.07
MW - 9	05/05/10	3,559.94	-	33.82	0.00	3,526.12
MW - 9	08/04/10	3,559.94	-	33.83	0.00	3,526.11
MW - 9	11/03/10	3,559.94	-	33.82	0.00	3,526.12
MW - 9	02/08/11	3,559.94	-	33.85	0.00	3,526.09
MW - 9	05/02/11	3,559.94	-	33.45	0.00	3,526.49
MW - 9	05/09/11	3,559.94	-	33.45	0.00	3,526.49
MW - 9	05/10/11	3,559.94	-	33.45	0.00	3,526.49
MW - 9	08/09/11	3,559.94	-	33.46	0.00	3,526.48
MW - 9	09/14/11	3,559.94	-	33.99	0.00	3,525.95
MW - 9	10/31/11	3,559.94	-	34.03	0.00	3,525.91
MW - 9	02/08/12	3,559.94	-	34.02	0.00	3,525.92
MW - 9	05/07/12	3,559.94	-	34.05	0.00	3,525.89
MW - 9	08/03/12	3,559.94	-	34.2	0.00	3,525.74
MW - 9	11/05/12	3,559.94	-	34.36	0.00	3,525.58
MW - 9	02/06/13	3,559.94	-	34.36	0.00	3,525.58
MW - 9	05/09/13	3,559.94	-	34.37	0.00	3,525.57
MW - 9	05/23/13	3,559.94	-	34.37	0.00	3,525.57
MW - 9	08/01/13	3,559.94	-	34.45	0.00	3,525.49
MW - 9	11/27/13	3,559.94	-	34.54	0.00	3,525.40
MW - 10	11/08/04	3,558.06	-	32.75	0.00	3,525.31
MW - 10	11/10/04	3,558.06	-	32.77	0.00	3,525.29
MW - 10	03/11/05	3,558.06	-	32.25	0.00	3,525.81
MW - 10	06/14/05	3,558.06	-	31.93	0.00	3,526.13
MW - 10	09/13/05	3,558.06	-	31.77	0.00	3526.29
MW - 10	12/07/05	3,558.06	-	31.62	0.00	3526.44
MW - 10	12/19/05	3,558.06	-	31.59	0.00	3526.47
MW - 10	03/08/06	3,558.06	-	31.41	0.00	3526.65
MW - 10	06/07/06	3,558.06	-	31.37	0.00	3526.69
MW - 10	09/05/06	3,558.06	-	32.47	0.00	3525.59
MW - 10	11/13/06	3,558.06	-	31.28	0.00	3526.78
MW - 10	02/12/07	3,558.06	-	31.06	0.00	3527.00
MW - 10	05/07/07	3,558.06	-	31.04	0.00	3527.02
MW - 10	08/08/07	3,558.06	-	31.02	0.00	3527.04
MW - 10	11/02/07	3,558.06	-	31.04	0.00	3527.02
MW - 10	12/17/07	3,558.06	sheen	25.54	0.00	3532.52
MW - 10	02/07/08	3,558.06	-	30.99	0.00	3527.07
MW - 10	05/06/08	3,558.06	-	31.00	0.00	3527.06
MW - 10	08/06/08	3,558.06	-	31.26	0.00	3526.8
MW - 10	11/05/08	3,558.06	-	31.30	0.00	3526.76
MW - 10	02/03/09	3,558.06	-	31.25	0.00	3526.81
MW - 10	05/06/09	3,558.06	-	31.23	0.00	3526.83
MW - 10	08/03/09	3,558.06	-	31.49	0.00	3526.57
MW - 10	11/04/09	3,558.06	-	31.77	0.00	3526.29
MW - 10	01/07/10	3,558.06	-	31.82	0.00	3526.24
MW - 10	02/02/10	3,558.06	-	31.84	0.00	3526.22
MW - 10	05/05/10	3558.06	-	31.79	0.00	3526.27
MW - 10	08/04/10	3558.06	-	31.78	0.00	3526.28
MW - 10	11/03/10	3558.06	-	31.81	0.00	3526.25
MW - 10	02/08/11	3558.06	-	31.82	0.00	3526.24
MW - 10	05/02/11	3558.06	-	31.41	0.00	3526.65
MW - 10	05/09/11	3558.06	-	31.38	0.00	3526.68

TABLE 1
GROUNDWATER ELEVATION DATA
PLAINS MAREKTING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 10	05/10/11	3558.06	-	31.38	0.00	3526.68
MW - 10	08/09/11	3558.06	-	31.36	0.00	3526.70
MW - 10	09/14/11	3558.06	-	31.95	0.00	3526.11
MW - 10	10/31/11	3558.06	-	31.97	0.00	3526.09
MW - 10	02/08/12	3558.06	-	31.99	0.00	3526.07
MW - 10	05/07/12	3558.06	-	31.99	0.00	3526.07
MW - 10	08/03/12	3558.06	-	32.14	0.00	3525.92
MW - 10	11/05/12	3558.06	-	32.32	0.00	3525.74
MW - 10	02/06/13	3558.06	-	32.31	0.00	3525.75
MW - 10	05/23/13	3558.06	-	32.32	0.00	3525.74
MW - 10	08/01/13	3558.06	-	32.44	0.00	3525.62
MW - 10	11/27/13	3558.06	-	32.55	0.00	3525.51

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOC D REFERENCE NUMBER 1R-0124

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOC D REGULATORY LIMIT		0.01	0.750	0.750	0.620	
MW - 1	03/11/05	Not Sampled due to PSH in Well				
MW - 1	06/14/05	Not Sampled due to PSH in Well				
MW - 1	09/13/05	Not Sampled due to PSH in Well				
MW - 1	12/19/05	Not Sampled due to PSH in Well				
MW - 1	03/08/06	Not Sampled due to PSH in Well				
MW - 1	06/07/06	Not Sampled due to PSH in Well				
MW - 1	09/05/06	Not Sampled due to PSH in Well				
MW - 1	11/13/06	Not Sampled due to PSH in Well				
MW - 1	02/12/07	Not Sampled due to PSH in Well				
MW - 1	05/07/07	Not Sampled due to PSH in Well				
MW - 1	08/08/07	0.0036	<0.001	0.0064	0.0292	
MW - 1	11/02/07	<0.001	<0.001	0.0017	0.0440	
MW - 1	02/07/08	Not Sampled				
MW - 1	05/06/08	0.0203	<0.005	0.0107	0.0356	
MW - 1	08/06/08	<0.005	<0.005	<0.005	0.0243	
MW - 1	11/05/08	0.0104	0.004	0.0116	0.0337	
MW - 1	02/03/09	0.0028	<0.001	0.0046	0.0239	
MW - 1	05/06/09	<0.001	<0.001	0.0033	0.0131	
MW - 1	08/03/09	0.0073	<0.001	0.0081	0.0216	
MW - 1	11/04/09	0.0052	<0.001	0.0074	0.0199	
MW - 1	02/02/10	0.0086	<0.001	0.0062	0.0157	
MW - 1	05/05/10	0.0050	<0.00100	<0.00100	0.0098	
MW - 1	08/04/10	<0.001	0.0054	<0.001	0.0114	
MW - 1	11/03/10	0.0071	<0.001	0.0057	0.0170	
MW - 1	02/08/11	0.0112	<0.001	0.0098	0.0304	
MW - 1	05/10/11	0.0139	<0.001	0.0105	0.0409	
MW - 1	08/09/11	<0.001	<0.001	<0.001	0.0111	
MW - 1	10/31/11	0.0030	<0.001	0.0027	0.0102	
MW - 1	02/08/12	0.0082	<0.001	0.0089	0.0194	
MW - 1	05/07/12	0.0097	<0.001	0.0097	0.0236	
MW - 1	08/03/12	<0.001	<0.001	0.0088	0.0141	
MW - 1	11/05/12	Not Sampled due to PSH in Well				
MW - 1	02/06/13	Not Sampled due to PSH in Well				
MW - 1	05/23/13	Not Sampled due to PSH in Well				
MW - 1	08/01/13	Not Sampled due to PSH in Well				
MW - 1	11/27/13	Not Sampled due to PSH in Well				
MW - 2	09/08/99	0.0030	<0.001	0.0020	<0.001	0.001
MW - 2	11/10/99	0.0020	0.001	0.0010	0.0010	0.002

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOC D REFERENCE NUMBER 1R-0124

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p -XYLENES	o -XYLENE
NMOC D REGULATORY LIMIT		0.01	0.750	0.750	0.620	
MW - 2	01/24/00	0.0020	<0.001	0.0010	<0.001	0.001
MW - 2	06/07/00	0.0020	<0.001	<0.001	<0.001	<0.001
MW - 2	09/06/00	0.0020	<0.001	<0.001	<0.001	<0.001
MW - 2	12/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 2	03/09/01	0.0010	<0.001	<0.001	<0.001	<0.001
MW - 2	06/21/01	<0.005	<0.005	<0.005	<0.005	
MW - 2	09/27/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 2	10/12/01	0.0010	<0.001	<0.001	<0.001	<0.001
MW - 2	03/27/02	0.0020	<0.001	<0.001	<0.001	<0.001
MW - 2	05/16/02	0.0010	<0.001	<0.001	<0.001	<0.001
MW - 2	09/16/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 2	12/19/02	0.0030	0.003	0.0020	0.0040	0.002
MW - 2	03/03/03	NA	NA	NA	NA	NA
MW - 2	06/17/03	0.0010	<0.001	<0.001	<0.001	<0.001
MW - 2	09/05/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 2	12/16/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 2	03/08/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 2	12/13/04	0.0030	<0.001	<0.001	<0.001	
MW - 2	03/08/05	Not Sampled on Current Sample Schedule				
MW - 2	06/14/05	Not Sampled on Current Sample Schedule				
MW - 2	09/13/05	Plugged and Abandoned				
MW - 3	03/11/05	0.0430	0.007	0.0052	0.0180	
MW - 3	06/14/05	0.0682	<0.005	0.0072	0.0326	
MW - 3	09/13/05	Not Sampled due to PSH in Well				
MW - 3	12/19/05	Not Sampled due to PSH in Well				
MW - 3	03/08/06	Not Sampled due to PSH in Well				
MW - 3	06/07/06	0.0678	0.002	0.0204	0.1040	
MW - 3	09/05/06	0.0215	<0.001	0.0088	0.0357	
MW - 3	11/13/06	0.0087	<0.001	0.0041	0.0155	
MW - 3	02/12/07	0.0517	0.00450	0.0175	0.0901	
MW - 3	05/07/07	0.0390	0.00530	0.0135	0.0721	
MW - 3	08/08/07	0.0358	0.00360	0.0119	0.0512	
MW - 3	11/02/07	0.0680	0.00300	0.0247	0.1140	
MW - 3	02/07/08	Not Sampled due to PSH in Well				
MW - 3	05/06/08	0.1150	0.08680	0.0413	0.1270	
MW - 3	08/06/08	0.0285	<0.005	0.0091	0.0324	
MW - 3	11/05/08	0.0464	<0.005	0.0161	0.0501	
MW - 3	02/03/09	0.0269	0.00220	0.0163	0.0530	

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOC D REFERENCE NUMBER 1R-0124

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOC D REGULATORY LIMIT		0.01	0.750	0.750	0.620	
MW - 3	05/06/09	0.0247	<0.001	0.0096	0.0362	
MW - 3	08/03/09	0.0210	<0.001	0.0093	0.0316	
MW - 3	11/04/09	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/02/10	0.03920	0.00400	0.01030	0.0366	
MW - 3	05/05/10	Not Sampled due to PSH in Well				
MW - 3	08/04/10	Not Sampled due to PSH in Well				
MW - 3	11/03/10	Not Sampled due to PSH in Well				
MW - 3	02/08/11	Not Sampled due to PSH in Well				
MW - 3	05/10/11	Not Sampled due to PSH in Well				
MW - 3	08/09/11	Not Sampled due to PSH in Well				
MW - 3	10/31/11	Not Sampled due to PSH in Well				
MW - 3	02/08/12	Not Sampled due to PSH in Well				
MW - 3	05/07/12	Not Sampled due to PSH in Well				
MW - 3	08/03/12	Not Sampled due to PSH in Well				
MW - 3	11/08/12	Not Sampled due to PSH in Well				
MW - 3	04/08/13	0.0138	<0.00100	0.00770	0.0190	
MW - 3	05/23/13	0.0157	<0.00500	<0.00500	<0.00500	
MW - 3	08/01/13	0.0212	<0.00100	0.00830	0.00950	
MW - 3	11/27/13	<0.0500	<0.0500	<0.0500	<0.150	
MW - 4	12/13/04	<0.005	<0.005	<0.005	<0.005	
MW - 4	03/11/05	0.0468	<0.005	0.0491	0.0310	
MW - 4	06/14/05	Not sampled due to PSH in well				
MW - 4	09/13/05	Not sampled due to PSH in well				
MW - 4	12/19/05	Not sampled due to PSH in well				
MW - 4	03/08/06	0.0384	<0.001	0.0693	0.1020	
MW - 4	06/07/06	Not sampled due to PSH in well				
MW - 4	09/05/06	Not sampled due to PSH in well				
MW - 4	11/13/06	Not sampled due to PSH in well				
MW - 4	02/12/07	Not sampled due to PSH in well				
MW - 4	05/07/07	Not sampled due to PSH in well				
MW - 4	08/08/07	0.0754	<0.001	0.0924	0.0939	
MW - 4	11/02/07	0.1180	<0.001	0.0728	0.1410	
MW - 4	02/07/08	0.0744	<0.005	0.1370	0.1260	
MW - 4	05/06/08	0.0541	<0.001	0.0773	0.0622	
MW - 4	08/06/08	0.0135	<0.001	0.0252	0.0185	
MW - 4	11/05/08	0.0409	<0.005	0.0792	0.1100	
MW - 4	02/03/09	Not Sampled				
MW - 4	05/06/09	0.0318	<0.005	0.0720	0.1010	

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0124

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD REGULATORY LIMIT		0.01	0.750	0.750	0.620	
MW - 4	08/03/09	0.0847	<0.001	0.1520	0.1930	
MW - 4	11/04/09	0.1120	<0.001	0.1540	0.2170	
MW - 4	02/02/10	Not Sampled due to PSH in Well				
MW - 4	05/05/10	Not Sampled due to PSH in Well				
MW - 4	08/04/10	Not Sampled due to PSH in Well				
MW - 4	11/03/10	Not Sampled due to PSH in Well				
MW - 4	02/08/11	Not Sampled due to PSH in Well				
MW - 4	05/10/11	Not Sampled due to PSH in Well				
MW - 4	08/09/11	Not Sampled due to PSH in Well				
MW - 4	10/31/11	Not Sampled due to PSH in Well				
MW - 4	02/08/12	Not Sampled due to PSH in Well				
MW - 4	05/07/12	Not Sampled due to PSH in Well				
MW - 4	08/03/12	Not Sampled due to PSH in Well				
MW - 4	11/08/12	Not Sampled due to PSH in Well				
MW - 4	02/06/13	Not Sampled due to PSH in Well				
MW - 4	05/23/13	Not Sampled due to PSH in Well				
MW - 4	08/01/13	Not Sampled due to PSH in Well				
MW - 4	11/27/13	Not Sampled due to PSH in Well				
MW - 5	09/08/99	0.0020	0.001	<0.001	<0.001	<0.001
MW - 5	11/10/99	0.0020	0.001	<0.001	<0.001	0.001
MW - 5	01/24/00	0.0020	0.002	0.0020	<0.001	<0.001
MW - 5	06/07/00	0.0030	0.002	<0.001	<0.001	0.001
MW - 5	09/06/00	0.0040	0.001	0.0020	<0.001	0.001
MW - 5	12/06/00	<0.001	0.002	<0.001	<0.001	<0.001
MW - 5	03/09/01	<0.001	0.002	<0.001	<0.001	<0.001
MW - 5	06/21/01	<0.005	<0.005	<0.005	<0.005	
MW - 5	09/27/01	0.0010	<0.001	<0.001	<0.001	<0.001
MW - 5	10/12/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	03/27/02	0.0010	<0.001	<0.001	<0.001	<0.001
MW - 5	05/16/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	09/16/02	0.0010	<0.001	<0.001	<0.001	<0.001
MW - 5	12/19/02	0.0020	0.001	<0.001	0.0010	<0.001
MW - 5	03/03/03	NA	NA	NA	NA	NA
MW - 5	06/17/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	09/05/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	12/16/03	0.0010	<0.001	<0.001	<0.002	<0.001
MW - 5	03/08/04	0.0020	<0.001	<0.001	<0.002	<0.001
MW - 5	05/25/04	<0.001	<0.001	<0.001	<0.002	<0.001

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0124

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD REGULATORY LIMIT		0.01	0.750	0.750	0.620	
MW - 5	12/13/04	<0.001	<0.001	<0.001	<0.001	
MW - 5	03/11/05	Not Sampled on Current Sample Schedule				
MW - 5	06/14/05	0.0018	<0.001	<0.001	<0.001	
MW - 5	09/13/05	Not Sampled on Current Sample Schedule				
MW - 5	12/19/05	0.0018	<0.001	<0.001	<0.001	
MW - 5	03/08/06	Not Sampled on Current Sample Schedule				
MW - 5	06/07/06	<0.005	<0.005	<0.005	<0.005	
MW - 5	09/05/06	Not Sampled on Current Sample Schedule				
MW - 5	11/13/06	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/12/07	Not Sampled on Current Sample Schedule				
MW - 5	05/07/07	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/08/07	Not Sampled on Current Sample Schedule				
MW - 5	11/02/07	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/07/08	<0.001	<0.001	<0.001	<0.001	
MW - 5	05/06/08	Not Sampled on Current Sample Schedule				
MW - 5	08/06/08	Not Sampled on Current Sample Schedule				
MW - 5	11/05/08	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/03/09	Not Sampled on Current Sample Schedule				
MW - 5	05/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/03/09	Not Sampled on Current Sample Schedule				
MW - 5	11/04/09	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/02/10	Not Sampled on Current Sample Schedule				
MW - 5	05/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/04/10	Not Sampled on Current Sample Schedule				
MW - 5	11/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/08/11	Not Sampled on Current Sample Schedule				
MW - 5	05/10/11	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/09/11	Not Sampled on Current Sample Schedule				
MW - 5	10/31/11	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/08/12	Not Sampled on Current Sample Schedule				
MW - 5	05/07/12	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/03/12	Not Sampled on Current Sample Schedule				
MW - 5	11/05/12	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/06/13	Not Sampled on Current Sample Schedule				
MW - 5	05/23/13	<0.001	<0.001	<0.001	<0.001	
MW - 5	08/01/13	Not Sampled on Current Sample Schedule				
MW - 5	11/27/13	<0.001	<0.001	<0.001	<0.00300	
MW - 6	09/08/99	<0.001	<0.001	<0.001	<0.001	<0.001

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOC D REFERENCE NUMBER 1R-0124

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030					
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	
NMOC D REGULATORY LIMIT		0.01	0.750	0.750	0.620		
MW - 6	11/10/99	<0.001	<0.001	<0.001	<0.001	<0.001	
MW - 6	01/24/00	0.0020	0.001	<0.001	0.0020	<0.001	
MW - 6	06/07/00	0.0020	0.001	<0.001	0.0020	0.002	
MW - 6	09/06/00	0.0020	<0.001	<0.001	<0.001	<0.001	
MW - 6	12/06/00	0.0010	<0.001	<0.001	<0.001	<0.001	
MW - 6	03/09/01	0.0020	<0.001	<0.001	<0.001	<0.001	
MW - 6	06/21/01	<0.005	<0.005	<0.005	0.0080		
MW - 6	09/27/01	0.0030	<0.001	<0.001	<0.001	<0.001	
MW - 6	10/12/01	0.0010	<0.001	<0.001	<0.001	<0.001	
MW - 6	03/27/02	0.0030	<0.001	<0.001	<0.001	<0.001	
MW - 6	05/16/02	0.0030	<0.001	<0.001	<0.001	<0.001	
MW - 6	09/16/02	0.0030	<0.001	<0.001	<0.001	<0.001	
MW - 6	12/19/02	0.0080	0.007	0.0020	0.0040	0.001	
MW - 6	03/03/03	NA	NA	NA	NA	NA	
MW - 6	06/17/03	NA	NA	NA	NA	NA	
MW - 6	12/16/03	0.0090	<0.001	<0.001	<0.002	<0.001	
MW - 6	03/08/04	<0.001	<0.001	<0.001	<0.002	<0.001	
MW - 6	12/13/04	<0.001	<0.001	<0.001	<0.001		
MW - 6	03/11/05	Not Sampled on Current Sample Schedule					
MW - 6	06/14/05	Not Sampled on Current Sample Schedule					
MW - 6	09/13/05	Not Sampled on Current Sample Schedule					
MW - 6	12/19/05	<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	09/05/06	Not Sampled on Current Sample Schedule					
MW - 6	11/13/06	<0.001	<0.001	<0.001	<0.001		
MW - 6	02/12/07	Not Sampled on Current Sample Schedule					
MW - 6	05/07/07	Not Sampled on Current Sample Schedule					
MW - 6	08/08/07	Not Sampled on Current Sample Schedule					
MW - 6	11/02/07	<0.001	<0.001	<0.001	<0.001		
MW - 6	02/07/08	<0.001	<0.001	<0.001	<0.001		
MW - 6	05/06/08	Not Sampled on Current Sample Schedule					
MW - 6	08/06/08	Not Sampled on Current Sample Schedule					
MW - 6	11/05/08	<0.001	<0.001	<0.001	0.0014		
MW - 6	02/03/09	Not Sampled on Current Sample Schedule					
MW - 6	05/06/09	Not Sampled on Current Sample Schedule					
MW - 6	08/03/09	Not Sampled on Current Sample Schedule					
MW - 6	11/04/09	<0.001	<0.001	<0.001	<0.001		
MW - 6	02/02/10	Not Sampled on Current Sample Schedule					

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0124

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD REGULATORY LIMIT		0.01	0.750	0.750	0.620	
MW - 6	05/05/10	Not Sampled on Current Sample Schedule				
MW - 6	08/04/10	Not Sampled on Current Sample Schedule				
MW - 6	11/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/08/11	Not Sampled on Current Sample Schedule				
MW - 6	05/10/11	Not Sampled on Current Sample Schedule				
MW - 6	08/09/11	Not Sampled on Current Sample Schedule				
MW - 6	10/31/11	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/08/12	Not Sampled on Current Sample Schedule				
MW - 6	05/07/12	Not Sampled on Current Sample Schedule				
MW - 6	08/03/12	Not Sampled on Current Sample Schedule				
MW - 6	11/05/12	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/06/13	Not Sampled on Current Sample Schedule				
MW - 6	05/23/13	Not Sampled on Current Sample Schedule				
MW - 6	08/01/13	Not Sampled on Current Sample Schedule				
MW - 6	11/27/13	<0.001	<0.001	<0.001	<0.00300	
MW - 7	09/08/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	11/10/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	01/24/00	0.0020	0.001	0.0020	<0.001	0.001
MW - 7	06/07/00	0.0010	0.002	<0.001	<0.001	<0.001
MW - 7	12/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	03/09/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	06/21/01	<0.005	<0.005	<0.005	<0.005	
MW - 7	09/27/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	10/12/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	03/27/02	0.0020	<0.001	<0.001	<0.001	<0.001
MW - 7	05/16/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	09/16/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	12/19/02	0.0050	0.004	0.0020	0.0030	0.001
MW - 7	03/03/03	NA	NA	NA	NA	NA
MW - 7	06/17/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	09/05/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	12/16/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 7	03/08/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 7	12/13/04	<0.001	<0.001	<0.001	<0.001	
MW - 7	03/11/05	Not Sampled on Current Sample Schedule				
MW - 7	06/14/05	Not Sampled on Current Sample Schedule				
MW - 7	09/13/05	Not Sampled on Current Sample Schedule				
MW - 7	12/19/05	<0.001	<0.001	<0.001	<0.001	

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0124

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD REGULATORY LIMIT		0.01	0.750	0.750	0.620	
MW - 7	03/08/06	Not Sampled on Current Sample Schedule				
MW - 7	06/07/06	Not Sampled on Current Sample Schedule				
MW - 7	09/05/06	Not Sampled on Current Sample Schedule				
MW - 7	11/13/06	<0.001	<0.001	0.0012	<0.001	
MW - 7	02/12/07	Not Sampled on Current Sample Schedule				
MW - 7	05/07/07	Not Sampled on Current Sample Schedule				
MW - 7	08/08/07	Not Sampled on Current Sample Schedule				
MW - 7	11/02/07	<0.001	<0.001	0.0027	<0.001	
MW - 7	02/07/08	Not Sampled on Current Sample Schedule				
MW - 7	05/06/08	Not Sampled on Current Sample Schedule				
MW - 7	08/06/08	Not Sampled on Current Sample Schedule				
MW - 7	11/05/08	0.0027	<0.001	0.0026	0.0167	
MW - 7	02/03/09	Not Sampled on Current Sample Schedule				
MW - 7	05/06/09	Not Sampled on Current Sample Schedule				
MW - 7	08/03/09	Not Sampled on Current Sample Schedule				
MW - 7	11/04/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/02/10	Not Sampled on Current Sample Schedule				
MW - 7	05/05/10	Not Sampled on Current Sample Schedule				
MW - 7	08/04/10	Not Sampled on Current Sample Schedule				
MW - 7	11/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/08/11	Not Sampled on Current Sample Schedule				
MW - 7	05/10/11	Not Sampled on Current Sample Schedule				
MW - 7	08/09/11	Not Sampled on Current Sample Schedule				
MW - 7	10/31/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/08/12	Not Sampled on Current Sample Schedule				
MW - 7	05/07/12	Not Sampled on Current Sample Schedule				
MW - 7	08/03/12	Not Sampled on Current Sample Schedule				
MW - 7	11/08/12	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/06/13	Not Sampled on Current Sample Schedule				
MW - 7	05/23/13	Not Sampled on Current Sample Schedule				
MW - 7	08/01/13	Not Sampled on Current Sample Schedule				
MW - 7	11/27/13	<0.001	<0.001	<0.001	<0.00300	
MW - 8	09/08/99	0.0010	<0.001	<0.001	<0.001	0.001
MW - 8	11/10/99	0.0020	<0.001	<0.001	<0.001	0.001
MW - 8	01/24/00	0.0020	<0.001	0.0020	<0.001	0.001
MW - 8	09/06/00	0.0020	<0.001	<0.001	<0.001	<0.001
MW - 8	12/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	03/09/01	<0.001	<0.001	<0.001	<0.001	<0.001

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOCDF REFERENCE NUMBER 1R-0124

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCDF REGULATORY LIMIT		0.01	0.750	0.750	0.620	
MW - 8	06/21/01	<0.005	<0.005	<0.005	<0.005	
MW - 8	09/27/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	10/12/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	03/27/02	0.0020	<0.001	<0.001	<0.001	<0.001
MW - 8	05/16/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	09/16/02	0.0010	<0.001	<0.001	<0.001	<0.001
MW - 8	12/19/02	0.0020	0.001	<0.001	0.0010	<0.001
MW - 8	03/03/03	NA	NA	NA	NA	NA
MW - 8	06/17/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	09/05/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	12/16/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 8	03/08/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 8	12/13/04	<0.001	<0.001	<0.001	<0.001	
MW - 8	03/11/05	Not Sampled on Current Sample Schedule				
MW - 8	06/14/05	Not Sampled on Current Sample Schedule				
MW - 8	09/13/05	Not Sampled on Current Sample Schedule				
MW - 8	12/19/05	<0.001	<0.001	<0.001	<0.001	
MW - 8	03/08/06	Not Sampled on Current Sample Schedule				
MW - 8	06/07/06	Not Sampled on Current Sample Schedule				
MW - 8	09/05/06	Not Sampled on Current Sample Schedule				
MW - 8	11/13/06	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/12/07	Not Sampled on Current Sample Schedule				
MW - 8	05/07/07	Not Sampled on Current Sample Schedule				
MW - 8	08/08/07	Not Sampled on Current Sample Schedule				
MW - 8	11/02/07	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/07/08	Not Sampled on Current Sample Schedule				
MW - 8	05/06/08	Not Sampled on Current Sample Schedule				
MW - 8	08/06/08	Not Sampled on Current Sample Schedule				
MW - 8	11/05/08	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/03/09	Not Sampled on Current Sample Schedule				
MW - 8	05/06/09	Not Sampled on Current Sample Schedule				
MW - 8	08/03/09	Not Sampled on Current Sample Schedule				
MW - 8	11/04/09	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/02/10	Not Sampled on Current Sample Schedule				
MW - 8	05/05/10	Not Sampled on Current Sample Schedule				
MW - 8	08/04/10	Not Sampled on Current Sample Schedule				
MW - 8	11/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/08/11	Not Sampled on Current Sample Schedule				
MW - 8	05/10/11	Not Sampled on Current Sample Schedule				

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOC D REFERENCE NUMBER 1R-0124

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOC D REGULATORY LIMIT		0.01	0.750	0.750	0.620	
MW - 8	08/09/11	Not Sampled on Current Sample Schedule				
MW - 8	10/31/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/08/12	Not Sampled on Current Sample Schedule				
MW - 8	05/07/12	Not Sampled on Current Sample Schedule				
MW - 8	08/03/12	Not Sampled on Current Sample Schedule				
MW - 8	11/08/12	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/06/13	Not Sampled on Current Sample Schedule				
MW - 8	05/23/13	Not Sampled on Current Sample Schedule				
MW - 8	08/01/13	Not Sampled on Current Sample Schedule				
MW - 8	11/27/13	0.00100	<0.001	<0.001	<0.00300	
MW - 9	11/10/04	<0.001	<0.001	<0.001	<0.001	
MW - 9	03/11/05	<0.001	<0.001	<0.001	<0.001	
MW - 9	06/14/05	<0.001	<0.001	<0.001	<0.001	
MW - 9	09/13/05	<0.001	<0.001	<0.001	<0.001	
MW - 9	12/19/05	<0.001	<0.001	<0.001	<0.001	
MW - 9	03/08/06	0.0010	<0.001	<0.001	<0.001	
MW - 9	06/07/06	<0.005	<0.005	<0.005	<0.005	
MW - 9	09/05/06	Not Sampled				
MW - 9	11/13/06	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/12/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/07/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/08/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/02/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/07/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/06/08	<0.001	<0.001	<0.001	0.0039	
MW - 9	08/06/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/05/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/03/09	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/07/09	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/03/09	0.0040	<0.001	0.0087	0.0174	
MW - 9	11/04/09	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/02/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/08/11	<0.001	<0.001	0.0078	0.0218	
MW - 9	05/10/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/09/11	<0.001	<0.001	<0.001	<0.001	

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOC D REFERENCE NUMBER 1R-0124

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOC D REGULATORY LIMIT		0.01	0.750	0.750	0.620	
MW - 9	10/31/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/08/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/07/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/03/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/08/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/06/13	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/23/13	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/01/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 9	11/27/13	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 10	11/10/04	0.0036	<0.001	<0.001	<0.001	
MW - 10	03/11/05	0.0022	<0.001	<0.001	<0.001	
MW - 10	06/14/05	0.0023	<0.001	<0.001	<0.001	
MW - 10	09/13/05	0.0023	<0.001	<0.001	<0.001	
MW - 10	12/19/05	0.0025	<0.001	<0.001	<0.001	
MW - 10	03/08/06	0.0019	<0.001	<0.001	<0.001	
MW - 10	06/07/06	<0.005	<0.005	<0.005	<0.005	
MW - 10	09/05/06	0.0020	<0.001	<0.001	<0.001	
MW - 10	11/13/06	<0.001	<0.001	<0.001	<0.001	
MW - 10	02/12/07	<0.001	<0.001	<0.001	<0.001	
MW - 10	05/07/07	<0.001	<0.001	<0.001	<0.001	
MW - 10	08/08/07	<0.001	<0.001	<0.001	<0.001	
MW - 10	11/02/07	0.0012	<0.001	<0.001	<0.001	
MW - 10	02/07/08	<0.001	<0.001	<0.001	<0.001	
MW - 10	05/06/08	<0.001	<0.001	<0.001	<0.001	
MW - 10	08/06/08	<0.001	<0.001	<0.001	<0.001	
MW - 10	11/05/08	<0.001	<0.001	<0.001	<0.001	
MW - 10	02/03/09	<0.001	<0.001	<0.001	<0.001	
MW - 10	05/07/09	0.0022	<0.001	<0.001	<0.001	
MW - 10	08/03/09	<0.001	<0.001	<0.001	<0.001	
MW - 10	11/04/09	<0.001	<0.001	<0.001	<0.001	
MW - 10	02/02/10	<0.001	<0.001	<0.001	<0.001	
MW - 10	05/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 10	08/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 10	11/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 10	02/08/11	<0.001	<0.001	<0.001	<0.001	
MW - 10	05/10/11	<0.001	<0.001	<0.001	<0.001	
MW - 10	08/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 10	10/31/11	<0.001	<0.001	<0.001	<0.001	

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER
PLAINS MARKETING, L.P.
MONUMENT 18
LEA COUNTY, NEW MEXICO
NMOC D REFERENCE NUMBER 1R-0124

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8012B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD REGULATORY LIMIT		0.01	0.750	0.750	0.620	
MW - 10	02/08/12	<0.001	<0.001	<0.001	<0.001	
MW - 10	05/07/12	<0.001	<0.001	<0.001	<0.001	
MW - 10	08/03/12	<0.001	<0.001	<0.001	<0.001	
MW - 10	11/08/12	<0.001	<0.001	<0.001	<0.001	
MW - 10	02/06/13	<0.001	<0.001	<0.001	<0.001	
MW - 10	05/23/13	<0.001	<0.001	<0.001	<0.001	
MW - 10	08/01/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 10	11/27/13	<0.00100	<0.00100	<0.00100	<0.00300	
EB - 1	12/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
	10/12/01	<0.001	<0.001	<0.001	<0.001	<0.001
	05/16/02	<0.001	<0.001	<0.001	<0.001	<0.001
	09/16/02	<0.001	<0.001	<0.001	<0.001	<0.001
	12/19/02	<0.001	<0.001	<0.001	<0.001	<0.001

Note: NA indicates well not sampled due to access limitations imposed by landowner.

Summary Report

Camille Bryant
Nova Safety & Environmental
2057 Commerce St.
Midland, TX 79703

Report Date: February 12, 2013

Work Order: 13020701



Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #18
SRS#: Monument #18

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
320428	MW-9	water	2013-02-06	12:11	2013-02-07
320429	MW-10	water	2013-02-06	12:30	2013-02-07

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
320428 - MW-9	<0.00100 ¹	<0.00100	<0.00100	<0.00100
320429 - MW-10	<0.00100	<0.00100	<0.00100	<0.00100

¹pH >2 per client.



6701 Aberdeen Avenue, Suite 9
200 East Sunset Road, Suite E
5002 Basin Street, Suite A1
(BioAquatic) 2501 Mayes Rd., Suite 100

Lubbock, Texas 79424
El Paso, Texas 79922
Midland, Texas 79703
Carrollton, Texas 75006

800-378-1296

806-794-1296

FAX 806-794-1298

915-585-3443

FAX 915-585-4944

432-689-6301

FAX 432-689-6313

972-242-7750

E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Camille Bryant
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: February 12, 2013

Work Order: 13020701



Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #18
Project Number: TNM Monument #18
SRS#: Monument #18

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
320428	MW-9	water	2013-02-06	12:11	2013-02-07
320429	MW-10	water	2013-02-06	12:30	2013-02-07

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

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

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

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Case Narrative

Samples for project TNM Monument #18 were received by TraceAnalysis, Inc. on 2013-02-07 and assigned to work order 13020701. Samples for work order 13020701 were received intact without headspace and at a temperature of 2.6 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	83768	2013-02-11 at 12:00	98865	2013-02-11 at 12:00

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 13020701 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: February 12, 2013
TNM Monument #18

Work Order: 13020701
TNM Monument #18

Page Number: 4 of 10
Monument, Lea Co., NM

Analytical Report

Sample: 320428 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 98865
Prep Batch: 83768

Analytical Method: S 8021B
Date Analyzed: 2013-02-11
Sample Preparation: 2013-02-11

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

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)	Qsr	Qsr	0.115	mg/L	1	0.100	115	75.7 - 109
4-Bromofluorobenzene (4-BFB)			0.0997	mg/L	1	0.100	100	68.1 - 109

Sample: 320429 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 98865
Prep Batch: 83768

Analytical Method: S 8021B
Date Analyzed: 2013-02-11
Sample Preparation: 2013-02-11

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

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)	Qsr	Qsr	0.116	mg/L	1	0.100	116	75.7 - 109
4-Bromofluorobenzene (4-BFB)			0.0994	mg/L	1	0.100	99	68.1 - 109

Method Blanks

Method Blank (1) QC Batch: 98865

QC Batch: 98865
Prep Batch: 83768

Date Analyzed: 2013-02-11
QC Preparation: 2013-02-11

Analyzed By: YG
Prepared By: YG

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000200	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000400	mg/L	0.001
Xylene		1	<0.00120	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Q _{sr}	Q _{sr}	0.116	mg/L	1	0.100	116	75.7 - 109
4-Bromofluorobenzene (4-BFB)			0.101	mg/L	1	0.100	101	68.1 - 109

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 98865
Prep Batch: 83768

Date Analyzed: 2013-02-11
QC Preparation: 2013-02-11

Analyzed By: YG
Prepared By: YG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.106	mg/L	1	0.100	<0.000200	106	80 - 120
Toluene		1	0.107	mg/L	1	0.100	<0.000300	107	80 - 120
Ethylbenzene		1	0.111	mg/L	1	0.100	<0.000400	111	70.6 - 120
Xylene		1	0.345	mg/L	1	0.300	<0.00120	115	79.2 - 120

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	0.102	mg/L	1	0.100	<0.000200	102	80 - 120	4	20
Toluene		1	0.104	mg/L	1	0.100	<0.000300	104	80 - 120	3	20
Ethylbenzene		1	0.108	mg/L	1	0.100	<0.000400	108	70.6 - 120	3	20
Xylene		1	0.335	mg/L	1	0.300	<0.00120	112	79.2 - 120	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)	Q _{sr}	Q _{sr}	0.116	0.115	mg/L	1	0.100	116	115	75.7 - 109
4-Bromofluorobenzene (4-BFB)			0.103	0.102	mg/L	1	0.100	103	102	68.1 - 109

Matrix Spike (MS-1) Spiked Sample: 320428

QC Batch: 98865
Prep Batch: 83768

Date Analyzed: 2013-02-11
QC Preparation: 2013-02-11

Analyzed By: YG
Prepared By: YG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2	1	0.104	mg/L	1	0.100	<0.000200	104	25.7 - 139
Toluene		1	0.105	mg/L	1	0.100	<0.000300	105	32.7 - 134
Ethylbenzene		1	0.108	mg/L	1	0.100	<0.000400	108	45.9 - 120
Xylene		1	0.334	mg/L	1	0.300	<0.00120	111	34.9 - 128

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

Report Date: February 12, 2013
TNM Monument #18

Work Order: 13020701
TNM Monument #18

Page Number: 7 of 10
Monument, Lea Co., NM

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.106	mg/L	1	0.100	<0.000200	106	25.7 - 139	2	20
Toluene		1	0.108	mg/L	1	0.100	<0.000300	108	32.7 - 134	3	20
Ethylbenzene		1	0.112	mg/L	1	0.100	<0.000400	112	45.9 - 120	4	20
Xylene		1	0.341	mg/L	1	0.300	<0.00120	114	34.9 - 128	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)	Q _{sr}	Q _{sr}	0.113	0.114	mg/L	1	0.1	113	114	75.7 - 109
4-Bromofluorobenzene (4-BFB)			0.100	0.102	mg/L	1	0.1	100	102	68.1 - 109

Calibration Standards

Standard (CCV-1)

QC Batch: 98865

Date Analyzed: 2013-02-11

Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.104	104	80 - 120	2013-02-11
Toluene		1	mg/L	0.100	0.105	105	80 - 120	2013-02-11
Ethylbenzene		1	mg/L	0.100	0.110	110	80 - 120	2013-02-11
Xylene		1	mg/L	0.300	0.340	113	80 - 120	2013-02-11

Standard (CCV-2)

QC Batch: 98865

Date Analyzed: 2013-02-11

Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.104	104	80 - 120	2013-02-11
Toluene		1	mg/L	0.100	0.105	105	80 - 120	2013-02-11
Ethylbenzene		1	mg/L	0.100	0.110	110	80 - 120	2013-02-11
Xylene		1	mg/L	0.300	0.340	113	80 - 120	2013-02-11

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	T104704392-12-4	Midland

Standard Flags

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

Result Comments

- 1 pH >2 per client.
- 2 pH >2 per client.

Attachments

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

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
Address: (Street, City, Zip)
2057 Commerce Midland TX 79705
Contact Person: Camille Bryant
Invoice to:
(If different from above)
Project #: TNM Monument 18
Project Location (including state): NM
Phone #: (432) 520-7720
Fax #:
E-mail:
Project Name: Monument 18
Sampler Signature: 

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

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

ORIGINAL COPY

Summary Report

Camille Bryant
Nova Safety & Environmental
2057 Commerce St.
Midland, TX 79703

Report Date: April 16, 2013

Work Order: 13040915



Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #18
SRS#: Monument #18

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
325642	MW-3	water	2013-04-08	16:30	2013-04-09

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
325642 - MW-3	0.0138	<0.00100	0.00770	0.0190



6701 Aberdeen Avenue, Suite 9
200 East Sunset Road, Suite E
5002 Basin Street, Suite A1
(BioAquatic) 2501 Mayes Rd., Suite 100

Lubbock, Texas 79424
El Paso, Texas 79922
Midland, Texas 79703
Carrollton, Texas 75006

800-378-1296 806-794-1296 FAX 806-794-1298
915-585-3443 FAX 915-585-4944
432-689-6301 FAX 432-689-6313
972-242-7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Camille Bryant
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: April 16, 2013

Work Order: 13040915



Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #18
Project Number: TNM Monument #18
SRS#: Monument #18

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

Sample	Description	Matrix	Date	Time	Date
			Taken	Taken	Received
325642	MW-3	water	2013-04-08	16:30	2013-04-09

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

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

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

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Case Narrative

Samples for project TNM Monument #18 were received by TraceAnalysis, Inc. on 2013-04-09 and assigned to work order 13040915. Samples for work order 13040915 were received intact without headspace and at a temperature of 4.8 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	85126	2013-04-15 at 09:08	100463	2013-04-15 at 09:09

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 13040915 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: April 16, 2013
TNM Monument #18

Work Order: 13040915
TNM Monument #18

Page Number: 4 of 10
Monument, Lea Co., NM

Analytical Report

Sample: 325642 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 100463
Prep Batch: 85126

Analytical Method: S 8021B
Date Analyzed: 2013-04-15
Sample Preparation: 2013-04-12

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.0138	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	0.00770	mg/L	1	0.00100
Xylene		1	0.0190	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0848	mg/L	1	0.100	85	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0909	mg/L	1	0.100	91	70 - 130

Method Blanks

Method Blank (1) QC Batch: 100463

QC Batch: 100463
Prep Batch: 85126

Date Analyzed: 2013-04-15
QC Preparation: 2013-04-15

Analyzed By: AH
Prepared By: AH

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000200	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000400	mg/L	0.001
Xylene		1	<0.00120	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0885	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0807	mg/L	1	0.100	81	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 100463
Prep Batch: 85126

Date Analyzed: 2013-04-15
QC Preparation: 2013-04-15

Analyzed By: AH
Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0979	mg/L	1	0.100	<0.000200	98	70 - 130
Toluene		1	0.0958	mg/L	1	0.100	<0.000300	96	70 - 130
Ethylbenzene		1	0.0953	mg/L	1	0.100	<0.000400	95	70 - 130
Xylene		1	0.283	mg/L	1	0.300	<0.00120	94	70 - 130

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0985	mg/L	1	0.100	<0.000200	98	70 - 130	1	20
Toluene		1	0.0952	mg/L	1	0.100	<0.000300	95	70 - 130	1	20
Ethylbenzene		1	0.0956	mg/L	1	0.100	<0.000400	96	70 - 130	0	20
Xylene		1	0.285	mg/L	1	0.300	<0.00120	95	70 - 130	1	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0892	0.0880	mg/L	1	0.100	89	88	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0834	0.0814	mg/L	1	0.100	83	81	70 - 130

Matrix Spike (MS-1) Spiked Sample: 326094

QC Batch: 100463
Prep Batch: 85126

Date Analyzed: 2013-04-15
QC Preparation: 2013-04-15

Analyzed By: AH
Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0957	mg/L	1	0.100	<0.000200	96	70 - 130
Toluene		1	0.0927	mg/L	1	0.100	<0.000300	93	70 - 130
Ethylbenzene		1	0.0910	mg/L	1	0.100	<0.000400	91	70 - 130
Xylene		1	0.270	mg/L	1	0.300	<0.00120	90	70 - 130

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

Report Date: April 16, 2013
TNM Monument #18

Work Order: 13040915
TNM Monument #18

Page Number: 7 of 10
Monument, Lea Co., NM

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0925	mg/L	1	0.100	<0.000200	92	70 - 130	3	20
Toluene		1	0.0895	mg/L	1	0.100	<0.000300	90	70 - 130	4	20
Ethylbenzene		1	0.0886	mg/L	1	0.100	<0.000400	89	70 - 130	3	20
Xylene		1	0.263	mg/L	1	0.300	<0.00120	88	70 - 130	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0880	0.0870	mg/L	1	0.1	88	87	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0805	0.0806	mg/L	1	0.1	80	81	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 100463

Date Analyzed: 2013-04-15

Analyzed By: AH

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0939	94	80 - 120	2013-04-15
Toluene		1	mg/L	0.100	0.0921	92	80 - 120	2013-04-15
Ethylbenzene		1	mg/L	0.100	0.0925	92	80 - 120	2013-04-15
Xylene		1	mg/L	0.300	0.274	91	80 - 120	2013-04-15

Standard (CCV-2)

QC Batch: 100463

Date Analyzed: 2013-04-15

Analyzed By: AH

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0975	98	80 - 120	2013-04-15
Toluene		1	mg/L	0.100	0.0953	95	80 - 120	2013-04-15
Ethylbenzene		1	mg/L	0.100	0.0940	94	80 - 120	2013-04-15
Xylene		1	mg/L	0.300	0.279	93	80 - 120	2013-04-15

Standard (CCV-3)

QC Batch: 100463

Date Analyzed: 2013-04-15

Analyzed By: AH

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	2013-04-15
Toluene		1	mg/L	0.100	0.0992	99	80 - 120	2013-04-15
Ethylbenzene		1	mg/L	0.100	0.0980	98	80 - 120	2013-04-15
Xylene		1	mg/L	0.300	0.290	97	80 - 120	2013-04-15

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	T104704392-12-4	Midland

Standard Flags

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

Attachments

Report Date: April 16, 2013
TNM Monument #18

Work Order: 13040915
TNM Monument #18

Page Number: 10 of 10
Monument, Lea Co., NM

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

TraceAnalysis, Inc.

email: lab@traceanalysis.com

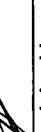
6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

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:	NO VA	Phone #:	(432) 520-7720
Address:	(Street, City, Zip) 2057 Commerce Dr	Fax #:	
Contact Person:	Camille Bryant	E-mail:	
Invoice to:			
(If different from above)	Plains		
Project #:	TJM - Monument 18	Project Name:	Monument 18
Project Location (including state):	NM	Sampler Signature:	

[illegible]

Relinquished by: 	Company: Nova	Date: 4-9-13	Time: 1005	Received by: 	Company: TA	Date: 4/9/13	Time: 0548	INST: 127	OBS: 48	COR: 48
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST:	OBS:	COR:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST:	OBS:	COR:

ANALYSIS REQUEST (Circle or Specify Method No.)		LAB USE ONLY		REMARKS:
MTBE	8021 / 602 / 8260 / 624	4.8	4.8	Midland 24
BTX	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	Volatiles			
TCLP	Semi Volatiles			
TCLP	Pesticides			
RCI				
GC/MS	Vol. 8260 / 624			
GC/MS	Seml. Vol. 8270 / 625			
PCB's	8082 / 608			
Pesticides	8081 / 608			
BOD, TSS, pH				
Moisture Content				
Cl, F, SO ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity				
Na, Ca, Mg, K, TDS, EC				
Turn Around Time if different from standard				
Hold				

Inject ☒ Y ☐ N

Headspace ☒ Y ☐ N / NA

Log-In/Review ☐

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.

ORIGINAL COPY

Summary Report

Camille Bryant
Nova Safety & Environmental
2057 Commerce St.
Midland, TX 79703

Report Date: June 3, 2013

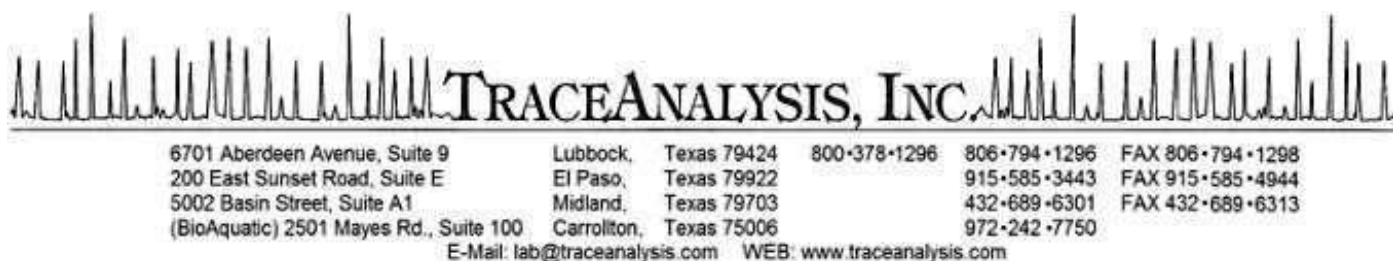
Work Order: 13052403



Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #18
SRS#: Monument #18

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
330160	MW-5	water	2013-05-23	16:00	2013-05-24
330161	MW-9	water	2013-05-23	16:15	2013-05-24
330162	MW-10	water	2013-05-23	16:30	2013-05-24
330163	MW-3	water	2013-05-23	17:00	2013-05-24

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
330160 - MW-5	<0.00100 Qs	<0.00100 Qs	<0.00100 Qs	<0.00100 Qs
330161 - MW-9	<0.00100 Qs	<0.00100 Qs	<0.00100 Qs	<0.00100 Qs
330162 - MW-10	<0.00100 Qs	<0.00100 Qs	<0.00100 Qs	<0.00100 Qs
330163 - MW-3	0.0157 Qs	<0.00500 Qs	<0.00500 Qs	<0.00500 Qs



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Camille Bryant
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: June 3, 2013

Work Order: 13052403



Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #18
Project Number: TNM Monument #18
SRS#: Monument #18

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
330160	MW-5	water	2013-05-23	16:00	2013-05-24
330161	MW-9	water	2013-05-23	16:15	2013-05-24
330162	MW-10	water	2013-05-23	16:30	2013-05-24
330163	MW-3	water	2013-05-23	17:00	2013-05-24

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

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

A handwritten signature in black ink that reads "Michael Abel". The script is fluid and cursive, with the first name "Michael" and last name "Abel" clearly distinguishable.

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

Report Contents

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Sample 330161 (MW-9)	5
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Case Narrative

Samples for project TNM Monument #18 were received by TraceAnalysis, Inc. on 2013-05-24 and assigned to work order 13052403. Samples for work order 13052403 were received intact without headspace and at a temperature of 4.0 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	86338	2013-05-30 at 12:00	101900	2013-05-31 at 12:26

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 13052403 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: June 3, 2013
TNM Monument #18

Work Order: 13052403
TNM Monument #18

Page Number: 5 of 12
Monument, Lea Co., NM

Analytical Report

Sample: 330160 - MW-5

Laboratory: Midland
Analysis: BTEX
QC Batch: 101900
Prep Batch: 86338

Analytical Method: S 8021B
Date Analyzed: 2013-05-31
Sample Preparation: 2013-05-30

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

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0834	mg/L	1	0.100	83	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0824	mg/L	1	0.100	82	70 - 130

Sample: 330161 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 101900
Prep Batch: 86338

Analytical Method: S 8021B
Date Analyzed: 2013-05-31
Sample Preparation: 2013-05-30

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

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0880	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0872	mg/L	1	0.100	87	70 - 130

Report Date: June 3, 2013
TNM Monument #18

Work Order: 13052403
TNM Monument #18

Page Number: 6 of 12
Monument, Lea Co., NM

Sample: 330162 - MW-10

Laboratory: Midland

Analysis: BTEX

QC Batch: 101900

Prep Batch: 86338

Analytical Method: S 8021B

Date Analyzed: 2013-05-31

Sample Preparation: 2013-05-30

Prep Method: S 5030B

Analyzed By: KC

Prepared By: KC

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0884	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0877	mg/L	1	0.100	88	70 - 130

Sample: 330163 - MW-3

Laboratory: Midland

Analysis: BTEX

QC Batch: 101900

Prep Batch: 86338

Analytical Method: S 8021B

Date Analyzed: 2013-05-31

Sample Preparation: 2013-05-30

Prep Method: S 5030B

Analyzed By: KC

Prepared By: KC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qs	1	0.0157	mg/L	5	0.00100
Toluene	Qs, U	1	<0.00500	mg/L	5	0.00100
Ethylbenzene	Qs, U	1	<0.00500	mg/L	5	0.00100
Xylene	Qs, U	1	<0.00500	mg/L	5	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.440	mg/L	5	0.500	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.475	mg/L	5	0.500	95	70 - 130

Method Blanks

Method Blank (1) QC Batch: 101900

QC Batch: 101900
Prep Batch: 86338

Date Analyzed: 2013-05-31
QC Preparation: 2013-05-30

Analyzed By: KC
Prepared By: KC

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000200	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000400	mg/L	0.001
Xylene		1	<0.00120	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0908	mg/L	1	0.100	91	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0876	mg/L	1	0.100	88	70 - 130

Report Date: June 3, 2013
TNM Monument #18

Work Order: 13052403
TNM Monument #18

Page Number: 8 of 12
Monument, Lea Co., NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 101900
Prep Batch: 86338

Date Analyzed: 2013-05-31
QC Preparation: 2013-05-30

Analyzed By: KC
Prepared By: KC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0740	mg/L	1	0.100	<0.000200	74	70 - 130
Toluene		1	0.0769	mg/L	1	0.100	<0.000300	77	70 - 130
Ethylbenzene		1	0.0776	mg/L	1	0.100	<0.000400	78	70 - 130
Xylene		1	0.227	mg/L	1	0.300	<0.00120	76	70 - 130

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

Param				LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
	F	C	Result	Units								
Benzene	Q _s	Q _s	1	0.0676	mg/L	1	0.100	<0.000200	68	70 - 130	9	20
Toluene	Q _s	Q _s	1	0.0695	mg/L	1	0.100	<0.000300	70	70 - 130	10	20
Ethylbenzene	Q _s	Q _s	1	0.0687	mg/L	1	0.100	<0.000400	69	70 - 130	12	20
Xylene	Q _s	Q _s	1	0.204	mg/L	1	0.300	<0.00120	68	70 - 130	11	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0848	0.0896	mg/L	1	0.100	85	90	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0879	0.0924	mg/L	1	0.100	88	92	70 - 130

Matrix Spike (MS-1) Spiked Sample: 330161

QC Batch: 101900
Prep Batch: 86338

Date Analyzed: 2013-05-31
QC Preparation: 2013-05-30

Analyzed By: KC
Prepared By: KC

Param				MS	Units	Dil.	Spike	Matrix	Rec.	Rec.
	F	C	Result	Amount			Result	Limit		
Benzene	Q _s	Q _s	1	0.0362	mg/L	1	0.100	<0.000200	36	70 - 130
Toluene	Q _s	Q _s	1	0.0377	mg/L	1	0.100	<0.000300	38	70 - 130
Ethylbenzene	Q _s	Q _s	1	0.0398	mg/L	1	0.100	<0.000400	40	70 - 130
Xylene	Q _s	Q _s	1	0.116	mg/L	1	0.300	<0.00120	39	70 - 130

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

Report Date: June 3, 2013
TNM Monument #18

Work Order: 13052403
TNM Monument #18

Page Number: 9 of 12
Monument, Lea Co., NM

Param				MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
	F	C		Result	Units							
Benzene	Q _s	Q _s	1	0.0383	mg/L	1	0.100	<0.000200	38	70 - 130	6	20
Toluene	Q _s	Q _s	1	0.0389	mg/L	1	0.100	<0.000300	39	70 - 130	3	20
Ethylbenzene	Q _s	Q _s	1	0.0389	mg/L	1	0.100	<0.000400	39	70 - 130	2	20
Xylene	Q _s	Q _s	1	0.113	mg/L	1	0.300	<0.00120	38	70 - 130	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0882	0.0831	mg/L	1	0.1	88	83	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0899	0.0841	mg/L	1	0.1	90	84	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 101900

Date Analyzed: 2013-05-31

Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0867	87	80 - 120	2013-05-31
Toluene		1	mg/L	0.100	0.0897	90	80 - 120	2013-05-31
Ethylbenzene		1	mg/L	0.100	0.0900	90	80 - 120	2013-05-31
Xylene		1	mg/L	0.300	0.263	88	80 - 120	2013-05-31

Standard (CCV-2)

QC Batch: 101900

Date Analyzed: 2013-05-31

Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0962	96	80 - 120	2013-05-31
Toluene		1	mg/L	0.100	0.0991	99	80 - 120	2013-05-31
Ethylbenzene		1	mg/L	0.100	0.0985	98	80 - 120	2013-05-31
Xylene		1	mg/L	0.300	0.287	96	80 - 120	2013-05-31

Standard (CCV-3)

QC Batch: 101900

Date Analyzed: 2013-05-31

Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0950	95	80 - 120	2013-05-31
Toluene		1	mg/L	0.100	0.0982	98	80 - 120	2013-05-31
Ethylbenzene		1	mg/L	0.100	0.0976	98	80 - 120	2013-05-31
Xylene		1	mg/L	0.300	0.284	95	80 - 120	2013-05-31

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	T104704392-12-4	Midland

Standard Flags

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

Attachments

Report Date: June 3, 2013
TNM Monument #18

Work Order: 13052403
TNM Monument #18

Page Number: 12 of 12
Monument, Lea Co., NM

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

TraceAnalysis, Inc.

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

email: lab@traceanalysis.com

Company Name:	Novus	Phone #:	432 520 7720
Address:	(Street, City, Zip) 2057 Commerce Drive	Fax #:	
Contact Person:	Camille Bryant	E-mail:	
Invoice to:			
(If different from above)			
Project #:	TMM - Monument 18	Project Name:	Monument 18
Project Location (including state):	AM	Sampler Signature:	[Signature]

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

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

ORIGINAL COPY

Summary Report

Camille Bryant
Nova Safety & Environmental
2057 Commerce St.
Midland, TX 79703

Report Date: August 13, 2013

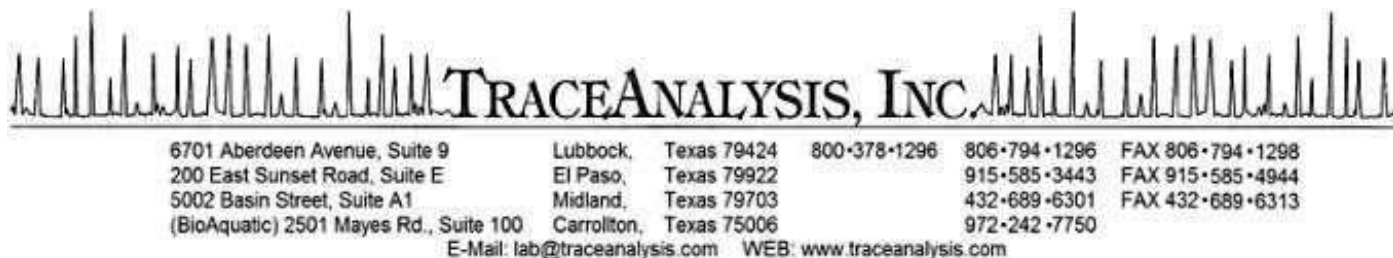
Work Order: 13080205



Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #18
SRS#: Monument #18

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
337354	MW-9	water	2013-08-01	11:06	2013-08-02
337355	MW-10	water	2013-08-01	11:30	2013-08-02
337356	MW-3	water	2013-08-01	11:45	2013-08-02

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
337354 - MW-9	<0.00100 Q _r , Q _s	<0.00100 Q _r , Q _s	<0.00100 Q _r , Q _s	<0.00100 Q _r , Q _s
337355 - MW-10	<0.00100	<0.00100	<0.00100	<0.00100
337356 - MW-3	0.0212	<0.00100	0.00830	0.00950



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Camille Bryant
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: August 13, 2013

Work Order: 13080205



Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #18
Project Number: TNM Monument #18
SRS#: Monument #18

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
337354	MW-9	water	2013-08-01	11:06	2013-08-02
337355	MW-10	water	2013-08-01	11:30	2013-08-02
337356	MW-3	water	2013-08-01	11:45	2013-08-02

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

This report consists of a total of 16 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel".

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

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Case Narrative

Samples for project TNM Monument #18 were received by TraceAnalysis, Inc. on 2013-08-02 and assigned to work order 13080205. Samples for work order 13080205 were received intact without headspace and at a temperature of 4.3 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	87929	2013-08-06 at 08:00	103777	2013-08-07 at 12:45
BTEX	S 8021B	87952	2013-08-07 at 16:30	103804	2013-08-08 at 09:39
BTEX	S 8021B	88082	2013-08-12 at 08:00	103957	2013-08-13 at 08:56

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 13080205 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: August 13, 2013
TNM Monument #18

Work Order: 13080205
TNM Monument #18

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Analytical Report

Sample: 337354 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 103777
Prep Batch: 87929

Analytical Method: S 8021B
Date Analyzed: 2013-08-07
Sample Preparation: 2013-08-06

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

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.104	mg/L	1	0.100	104	70 - 130
4-Bromofluorobenzene (4-BFB)			0.100	mg/L	1	0.100	100	70 - 130

Sample: 337355 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 103804
Prep Batch: 87952

Analytical Method: S 8021B
Date Analyzed: 2013-08-08
Sample Preparation: 2013-08-07

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

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)			0.0951	mg/L	1	0.100	95	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0965	mg/L	1	0.100	96	70 - 130

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Sample: 337356 - MW-3

Laboratory: Midland

Analysis: BTEX

QC Batch: 103957

Prep Batch: 88082

Analytical Method: S 8021B

Date Analyzed: 2013-08-13

Sample Preparation: 2013-08-12

Prep Method: S 5030B

Analyzed By: KC

Prepared By: KC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.0212	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	0.00830	mg/L	1	0.00100
Xylene		1	0.00950	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0941	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.121	mg/L	1	0.100	121	70 - 130

Method Blanks

Method Blank (1) QC Batch: 103777

QC Batch: 103777 Date Analyzed: 2013-08-07 Analyzed By: KC
Prep Batch: 87929 QC Preparation: 2013-08-06 Prepared By: KC

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000200	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000400	mg/L	0.001
Xylene		1	<0.00120	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.106	mg/L	1	0.100	106	70 - 130
4-Bromofluorobenzene (4-BFB)			0.101	mg/L	1	0.100	101	70 - 130

Method Blank (1) QC Batch: 103804

QC Batch: 103804 Date Analyzed: 2013-08-08 Analyzed By: KC
Prep Batch: 87952 QC Preparation: 2013-08-07 Prepared By: KC

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000200	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000400	mg/L	0.001
Xylene		1	<0.00120	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0967	mg/L	1	0.100	97	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0964	mg/L	1	0.100	96	70 - 130

Method Blank (1) QC Batch: 103957

QC Batch: 103957 Date Analyzed: 2013-08-13 Analyzed By: KC
Prep Batch: 88082 QC Preparation: 2013-08-12 Prepared By: KC

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Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000200	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000400	mg/L	0.001
Xylene		1	<0.00120	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.102	mg/L	1	0.100	102	70 - 130
4-Bromofluorobenzene (4-BFB)			0.100	mg/L	1	0.100	100	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 103777
Prep Batch: 87929

Date Analyzed: 2013-08-07
QC Preparation: 2013-08-06

Analyzed By: KC
Prepared By: KC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.107	mg/L	1	0.100	<0.000200	107	70 - 130
Toluene		1	0.108	mg/L	1	0.100	<0.000300	108	70 - 130
Ethylbenzene		1	0.104	mg/L	1	0.100	<0.000400	104	70 - 130
Xylene		1	0.314	mg/L	1	0.300	<0.00120	105	70 - 130

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.110	mg/L	1	0.100	<0.000200	110	70 - 130	3	20
Toluene		1	0.110	mg/L	1	0.100	<0.000300	110	70 - 130	2	20
Ethylbenzene		1	0.108	mg/L	1	0.100	<0.000400	108	70 - 130	4	20
Xylene		1	0.324	mg/L	1	0.300	<0.00120	108	70 - 130	3	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.102	0.102	mg/L	1	0.100	102	102	70 - 130
4-Bromofluorobenzene (4-BFB)	0.108	0.107	mg/L	1	0.100	108	107	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 103804
Prep Batch: 87952

Date Analyzed: 2013-08-08
QC Preparation: 2013-08-07

Analyzed By: KC
Prepared By: KC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.115	mg/L	1	0.100	<0.000200	115	70 - 130
Toluene		1	0.113	mg/L	1	0.100	<0.000300	113	70 - 130
Ethylbenzene		1	0.113	mg/L	1	0.100	<0.000400	113	70 - 130
Xylene		1	0.341	mg/L	1	0.300	<0.00120	114	70 - 130

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

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Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.116	mg/L	1	0.100	<0.000200	116	70 - 130	1	20
Toluene		1	0.115	mg/L	1	0.100	<0.000300	115	70 - 130	2	20
Ethylbenzene		1	0.114	mg/L	1	0.100	<0.000400	114	70 - 130	1	20
Xylene		1	0.344	mg/L	1	0.300	<0.00120	115	70 - 130	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0963	0.0989	mg/L	1	0.100	96	99	70 - 130
4-Bromofluorobenzene (4-BFB)	0.103	0.105	mg/L	1	0.100	103	105	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 103957
Prep Batch: 88082

Date Analyzed: 2013-08-13
QC Preparation: 2013-08-12

Analyzed By: KC
Prepared By: KC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.112	mg/L	1	0.100	<0.000200	112	70 - 130
Toluene		1	0.112	mg/L	1	0.100	<0.000300	112	70 - 130
Ethylbenzene		1	0.111	mg/L	1	0.100	<0.000400	111	70 - 130
Xylene		1	0.333	mg/L	1	0.300	<0.00120	111	70 - 130

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.112	mg/L	1	0.100	<0.000200	112	70 - 130	0	20
Toluene		1	0.110	mg/L	1	0.100	<0.000300	110	70 - 130	2	20
Ethylbenzene		1	0.110	mg/L	1	0.100	<0.000400	110	70 - 130	1	20
Xylene		1	0.330	mg/L	1	0.300	<0.00120	110	70 - 130	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0979	0.102	mg/L	1	0.100	98	102	70 - 130
4-Bromofluorobenzene (4-BFB)	0.105	0.108	mg/L	1	0.100	105	108	70 - 130

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Matrix Spike (MS-1) Spiked Sample: 337354

QC Batch: 103777
Prep Batch: 87929

Date Analyzed: 2013-08-07
QC Preparation: 2013-08-06

Analyzed By: KC
Prepared By: KC

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	Qs	Qs	1	0.0267	mg/L	1	0.100	<0.000200	27 70 - 130
Toluene	Qs	Qs	1	0.0247	mg/L	1	0.100	<0.000300	25 70 - 130
Ethylbenzene	Qs	Qs	1	0.0228	mg/L	1	0.100	<0.000400	23 70 - 130
Xylene	Qs	Qs	1	0.0660	mg/L	1	0.300	<0.00120	22 70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	¹ Qr, Qs	Qr, Qs	1	0.0144	mg/L	1	0.100	<0.000200	14 70 - 130	60	20
Toluene	Qr, Qs	Qr, Qs	1	0.0134	mg/L	1	0.100	<0.000300	13 70 - 130	59	20
Ethylbenzene	Qr, Qs	Qr, Qs	1	0.0143	mg/L	1	0.100	<0.000400	14 70 - 130	46	20
Xylene	Qr, Qs	Qr, Qs	1	0.0417	mg/L	1	0.300	<0.00120	14 70 - 130	45	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	0.0977	mg/L	1	0.1	96	98	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0958	0.0962	mg/L	1	0.1	96	96	70 - 130

Matrix Spike (MS-1) Spiked Sample: 337375

QC Batch: 103804
Prep Batch: 87952

Date Analyzed: 2013-08-08
QC Preparation: 2013-08-07

Analyzed By: KC
Prepared By: KC

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.113	mg/L	1	0.100	<0.000200	113	70 - 130
Toluene		1	0.112	mg/L	1	0.100	<0.000300	112	70 - 130
Ethylbenzene		1	0.111	mg/L	1	0.100	<0.000400	111	70 - 130
Xylene		1	0.331	mg/L	1	0.300	<0.00120	110	70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.113	mg/L	1	0.100	<0.000200	113	70 - 130	0	20
Toluene		1	0.113	mg/L	1	0.100	<0.000300	113	70 - 130	1	20

continued ...

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matrix spikes continued ...

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Ethylbenzene		1	0.112	mg/L	1	0.100	<0.000400	112	70 - 130	1	20
Xylene		1	0.333	mg/L	1	0.300	<0.00120	111	70 - 130	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0941	0.0936	mg/L	1	0.1	94	94	70 - 130
4-Bromofluorobenzene (4-BFB)	0.101	0.100	mg/L	1	0.1	101	100	70 - 130

Matrix Spike (MS-1) Spiked Sample: 337801

QC Batch: 103957
Prep Batch: 88082

Date Analyzed: 2013-08-13
QC Preparation: 2013-08-12

Analyzed By: KC
Prepared By: KC

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.117	mg/L	1	0.100	<0.000200	117	70 - 130
Toluene		1	0.122	mg/L	1	0.100	<0.000300	122	70 - 130
Ethylbenzene		1	0.112	mg/L	1	0.100	<0.000400	112	70 - 130
Xylene		1	0.337	mg/L	1	0.300	<0.00120	112	70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.118	mg/L	1	0.100	<0.000200	118	70 - 130	1	20
Toluene		1	0.121	mg/L	1	0.100	<0.000300	121	70 - 130	1	20
Ethylbenzene		1	0.112	mg/L	1	0.100	<0.000400	112	70 - 130	0	20
Xylene		1	0.336	mg/L	1	0.300	<0.00120	112	70 - 130	0	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0944	0.0918	mg/L	1	0.1	94	92	70 - 130
4-Bromofluorobenzene (4-BFB)	0.103	0.100	mg/L	1	0.1	103	100	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 103777

Date Analyzed: 2013-08-07

Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.106	106	80 - 120	2013-08-07
Toluene		1	mg/L	0.100	0.106	106	80 - 120	2013-08-07
Ethylbenzene		1	mg/L	0.100	0.105	105	80 - 120	2013-08-07
Xylene		1	mg/L	0.300	0.314	105	80 - 120	2013-08-07

Standard (CCV-2)

QC Batch: 103777

Date Analyzed: 2013-08-07

Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.112	112	80 - 120	2013-08-07
Toluene		1	mg/L	0.100	0.110	110	80 - 120	2013-08-07
Ethylbenzene		1	mg/L	0.100	0.109	109	80 - 120	2013-08-07
Xylene		1	mg/L	0.300	0.326	109	80 - 120	2013-08-07

Standard (CCV-1)

QC Batch: 103804

Date Analyzed: 2013-08-08

Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.116	116	80 - 120	2013-08-08
Toluene		1	mg/L	0.100	0.114	114	80 - 120	2013-08-08
Ethylbenzene		1	mg/L	0.100	0.114	114	80 - 120	2013-08-08
Xylene		1	mg/L	0.300	0.343	114	80 - 120	2013-08-08

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Standard (CCV-2)

QC Batch: 103804

Date Analyzed: 2013-08-08

Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.112	112	80 - 120	2013-08-08
Toluene		1	mg/L	0.100	0.111	111	80 - 120	2013-08-08
Ethylbenzene		1	mg/L	0.100	0.111	111	80 - 120	2013-08-08
Xylene		1	mg/L	0.300	0.332	111	80 - 120	2013-08-08

Standard (CCV-3)

QC Batch: 103804

Date Analyzed: 2013-08-08

Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.112	112	80 - 120	2013-08-08
Toluene		1	mg/L	0.100	0.111	111	80 - 120	2013-08-08
Ethylbenzene		1	mg/L	0.100	0.110	110	80 - 120	2013-08-08
Xylene		1	mg/L	0.300	0.330	110	80 - 120	2013-08-08

Standard (CCV-1)

QC Batch: 103957

Date Analyzed: 2013-08-13

Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.112	112	80 - 120	2013-08-13
Toluene		1	mg/L	0.100	0.112	112	80 - 120	2013-08-13
Ethylbenzene		1	mg/L	0.100	0.110	110	80 - 120	2013-08-13
Xylene		1	mg/L	0.300	0.330	110	80 - 120	2013-08-13

Standard (CCV-2)

QC Batch: 103957

Date Analyzed: 2013-08-13

Analyzed By: KC

Report Date: August 13, 2013
TNM Monument #18

Work Order: 13080205
TNM Monument #18

Page Number: 14 of 16
Monument, Lea Co., NM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.115	115	80 - 120	2013-08-13
Toluene		1	mg/L	0.100	0.115	115	80 - 120	2013-08-13
Ethylbenzene		1	mg/L	0.100	0.114	114	80 - 120	2013-08-13
Xylene		1	mg/L	0.300	0.341	114	80 - 120	2013-08-13

Standard (CCV-3)

QC Batch: 103957

Date Analyzed: 2013-08-13

Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.110	110	80 - 120	2013-08-13
Toluene		1	mg/L	0.100	0.111	111	80 - 120	2013-08-13
Ethylbenzene		1	mg/L	0.100	0.110	110	80 - 120	2013-08-13
Xylene		1	mg/L	0.300	0.329	110	80 - 120	2013-08-13

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	T104704392-12-4	Midland

Standard Flags

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

Result Comments

- 1 RPD failing due to prep error. LCS/LCSD show recovery for batch to be under control.

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

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:	Nov4	Phone #:	432-520-7720
Address:	(Street, City, Zip) 2057 Commerce Drive	Fax #:	
Contact Person:	Camille Bryant	E-mail:	
Invoice to:			
(If different from above)			
Project #:	TNM monument 18	Project Name:	mon 18
Project Location (including state):	new mexico	Sampler Signature:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible][illegible]

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

ORIGINAL COPY

Summary Report

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

Report Date: December 6, 2013

Work Order: 13112726



Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #18
SRS#: Monument #18

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
347666	MW-6	water	2013-11-27	11:14	2013-11-27
347667	MW-8	water	2013-11-27	11:33	2013-11-27
347668	MW-7	water	2013-11-27	11:44	2013-11-27
347669	MW-5	water	2013-11-27	12:02	2013-11-27
347670	MW-9	water	2013-11-27	12:15	2013-11-27
347671	MW-10	water	2013-11-27	12:27	2013-11-27
347672	MW-3	water	2013-11-27	12:40	2013-11-27

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
347666 - MW-6	<0.00100	<0.00100	<0.00100	<0.00300
347667 - MW-8	0.00100	<0.00100	<0.00100	<0.00300
347668 - MW-7	<0.00100	<0.00100	<0.00100	<0.00300
347669 - MW-5	<0.00100	<0.00100	<0.00100	<0.00300
347670 - MW-9	<0.00100	<0.00100	<0.00100	<0.00300
347671 - MW-10	<0.00100	<0.00100	<0.00100	<0.00300
347672 - MW-3	<0.0500	<0.0500	<0.0500	<0.150

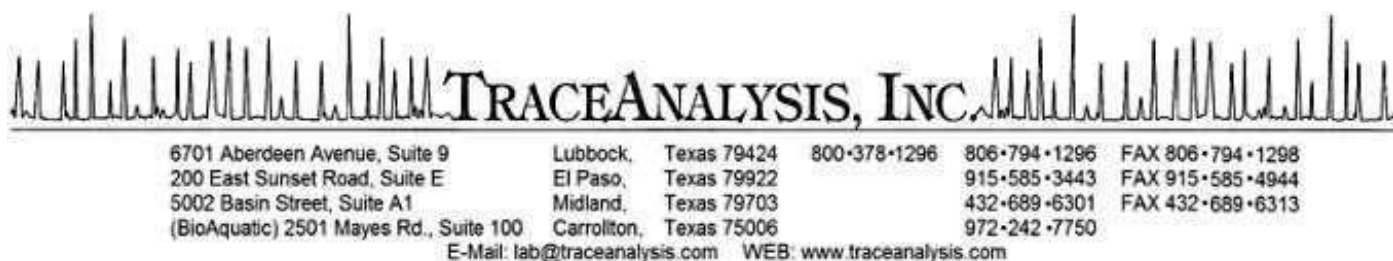
Sample: 347672 - MW-3

Param	Flag	Result	Units	RL
Naphthalene		<0.000200	mg/L	0.0002
2-Methylnaphthalene	Qr, Qs	<0.000200	mg/L	0.0002
1-Methylnaphthalene	Qr	<0.000200	mg/L	0.0002
Acenaphthylene		<0.000200	mg/L	0.0002
Acenaphthene	Qr, Qs	<0.000200	mg/L	0.0002
Dibenzofuran	Qr, Qs	<0.000200	mg/L	0.0002

continued ...

sample 347672 continued ...

Param	Flag	Result	Units	RL
Fluorene	Qc, Qr, Qs	<0.000200	mg/L	0.0002
Anthracene	Qr, Qs	<0.000200	mg/L	0.0002
Phenanthrene	Qr, Qs	0.0150	mg/L	0.0002
Fluoranthene	Qr, Qs	<0.000200	mg/L	0.0002
Pyrene	Qc, Qr, Qs	<0.000200	mg/L	0.0002
Benzo(a)anthracene	Qr	<0.000200	mg/L	0.0002
Chrysene	Qr, Qs	<0.000200	mg/L	0.0002
Benzo(b)fluoranthene	Qr	<0.000200	mg/L	0.0002
Benzo(k)fluoranthene	Qc, Qr	<0.000200	mg/L	0.0002
Benzo(a)pyrene	Qr	<0.000200	mg/L	0.0002
Indeno(1,2,3-cd)pyrene	Qc, Qr, Qs	<0.000200	mg/L	0.0002
Dibenzo(a,h)anthracene	Qr, Qs	<0.000200	mg/L	0.0002
Benzo(g,h,i)perylene	Qc, Qr, Qs	<0.000200	mg/L	0.0002



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: December 6, 2013

Work Order: 13112726



Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #18
Project Number: TNM Monument #18
SRS#: Monument #18

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
347666	MW-6	water	2013-11-27	11:14	2013-11-27
347667	MW-8	water	2013-11-27	11:33	2013-11-27
347668	MW-7	water	2013-11-27	11:44	2013-11-27
347669	MW-5	water	2013-11-27	12:02	2013-11-27
347670	MW-9	water	2013-11-27	12:15	2013-11-27
347671	MW-10	water	2013-11-27	12:27	2013-11-27
347672	MW-3	water	2013-11-27	12:40	2013-11-27

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

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive style with a large, stylized 'M' and 'A'.

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

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Case Narrative

Samples for project TNM Monument #18 were received by TraceAnalysis, Inc. on 2013-11-27 and assigned to work order 13112726. Samples for work order 13112726 were received intact without headspace and at a temperature of 3.7 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	90739	2013-12-02 at 08:56	107203	2013-12-03 at 09:06
PAH	S 8270D	90876	2013-11-27 at 15:00	107323	2013-12-05 at 15:10

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 13112726 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: December 6, 2013
TNM Monument #18

Work Order: 13112726
TNM Monument #18

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Monument, Lea Co., NM

Analytical Report

Sample: 347666 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 107203
Prep Batch: 90739

Analytical Method: S 8021B
Date Analyzed: 2013-12-03
Sample Preparation: 2013-12-02

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.00100	mg/L	1	0.00100
Toluene	U	2	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	2	<0.00100	mg/L	1	0.00100
Xylene	U	2	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0934	mg/L	1	0.100	93	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0831	mg/L	1	0.100	83	70 - 130

Sample: 347667 - MW-8

Laboratory: Midland
Analysis: BTEX
QC Batch: 107203
Prep Batch: 90739

Analytical Method: S 8021B
Date Analyzed: 2013-12-03
Sample Preparation: 2013-12-02

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		2	0.00100	mg/L	1	0.00100
Toluene	U	2	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	2	<0.00100	mg/L	1	0.00100
Xylene	U	2	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0982	mg/L	1	0.100	98	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0848	mg/L	1	0.100	85	70 - 130

Report Date: December 6, 2013
TNM Monument #18

Work Order: 13112726
TNM Monument #18

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Monument, Lea Co., NM

Sample: 347668 - MW-7

Laboratory: Midland

Analysis: BTEX

QC Batch: 107203

Prep Batch: 90739

Analytical Method: S 8021B

Date Analyzed: 2013-12-03

Sample Preparation: 2013-12-02

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.00100	mg/L	1	0.00100
Toluene	U	2	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	2	<0.00100	mg/L	1	0.00100
Xylene	U	2	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0949	mg/L	1	0.100	95	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0791	mg/L	1	0.100	79	70 - 130

Sample: 347669 - MW-5

Laboratory: Midland

Analysis: BTEX

QC Batch: 107203

Prep Batch: 90739

Analytical Method: S 8021B

Date Analyzed: 2013-12-03

Sample Preparation: 2013-12-02

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		2	<0.00100	mg/L	1	0.00100
Toluene	U	2	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	2	<0.00100	mg/L	1	0.00100
Xylene	U	2	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0980	mg/L	1	0.100	98	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0830	mg/L	1	0.100	83	70 - 130

Report Date: December 6, 2013
TNM Monument #18

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Monument, Lea Co., NM

Sample: 347670 - MW-9

Laboratory: Midland

Analysis: BTEX

QC Batch: 107203

Prep Batch: 90739

Analytical Method: S 8021B

Date Analyzed: 2013-12-03

Sample Preparation: 2013-12-02

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.00100	mg/L	1	0.00100
Toluene	U	2	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	2	<0.00100	mg/L	1	0.00100
Xylene	U	2	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0965	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0806	mg/L	1	0.100	81	70 - 130

Sample: 347671 - MW-10

Laboratory: Midland

Analysis: BTEX

QC Batch: 107203

Prep Batch: 90739

Analytical Method: S 8021B

Date Analyzed: 2013-12-03

Sample Preparation: 2013-12-02

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.00100	mg/L	1	0.00100
Toluene	U	2	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	2	<0.00100	mg/L	1	0.00100
Xylene	U	2	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0933	mg/L	1	0.100	93	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0807	mg/L	1	0.100	81	70 - 130

Report Date: December 6, 2013
TNM Monument #18

Work Order: 13112726
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Monument, Lea Co., NM

Sample: 347672 - MW-3

Laboratory: Midland

Analysis: BTEX

QC Batch: 107203

Prep Batch: 90739

Analytical Method: S 8021B

Date Analyzed: 2013-12-03

Sample Preparation: 2013-12-02

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		2	<0.0500	mg/L	50	0.00100
Toluene		2	<0.0500	mg/L	50	0.00100
Ethylbenzene	U	2	<0.0500	mg/L	50	0.00100
Xylene		2	<0.150	mg/L	50	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.90	mg/L	50	5.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			4.05	mg/L	50	5.00	81	70 - 130

Sample: 347672 - MW-3

Laboratory: Lubbock

Analysis: PAH

QC Batch: 107323

Prep Batch: 90876

Analytical Method: S 8270D

Date Analyzed: 2013-12-05

Sample Preparation: 2013-11-27

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene	U	1	<0.000200	mg/L	1	0.000200
2-Methylnaphthalene	Qr,Qs,U	1	<0.000200	mg/L	1	0.000200
1-Methylnaphthalene	Qr,U		<0.000200	mg/L	1	0.000200
Acenaphthylene	U	1	<0.000200	mg/L	1	0.000200
Acenaphthene	Qr,Qs,U	1	<0.000200	mg/L	1	0.000200
Dibenzofuran	Qr,Qs,U	1	<0.000200	mg/L	1	0.000200
Fluorene	Qc,Qr,Qs,U	1	<0.000200	mg/L	1	0.000200
Anthracene	Qr,Qs,U	1	<0.000200	mg/L	1	0.000200
Phenanthrene	Qr,Qs	1	0.0150	mg/L	1	0.000200
Fluoranthene	Qr,Qs,U	1	<0.000200	mg/L	1	0.000200
Pyrene	Qc,Qr,Qs,U	1	<0.000200	mg/L	1	0.000200
Benzo(a)anthracene	Qr,U	1	<0.000200	mg/L	1	0.000200
Chrysene	Qr,Qs,U	1	<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene	Qr,U	1	<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene	Qc,Qr,U	1	<0.000200	mg/L	1	0.000200
Benzo(a)pyrene	Qr,U	1	<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene	Qc,Qr,Qs,U	1	<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene	Qr,Qs,U	1	<0.000200	mg/L	1	0.000200

continued ...

Report Date: December 6, 2013
TNM Monument #18

Work Order: 13112726
TNM Monument #18

Page Number: 9 of 19
Monument, Lea Co., NM

sample 347672 continued ...

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene	Qc,Qr,Qs,U	1	<0.000200	mg/L	1	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			4.02	mg/L	1	8.00	50	40 - 110
2-Fluorobiphenyl			5.72	mg/L	1	8.00	72	50 - 110
Terphenyl-d14	Qsr	Qsr	3.09	mg/L	1	8.00	39	50 - 135

Report Date: December 6, 2013
TNM Monument #18

Work Order: 13112726
TNM Monument #18

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Monument, Lea Co., NM

Method Blanks

Method Blank (1) QC Batch: 107203

QC Batch: 107203 Date Analyzed: 2013-12-03 Analyzed By: AK
Prep Batch: 90739 QC Preparation: 2013-12-02 Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		2	<0.000238	mg/L	0.001
Toluene		2	<0.000181	mg/L	0.001
Ethylbenzene		2	<0.000247	mg/L	0.001
Xylene		2	<0.000189	mg/L	0.003

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0943	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0815	mg/L	1	0.100	82	70 - 130

Method Blank (1) QC Batch: 107323

QC Batch: 107323 Date Analyzed: 2013-12-05 Analyzed By: MN
Prep Batch: 90876 QC Preparation: 2013-11-27 Prepared By: MN

Parameter	Flag	Cert	MDL Result	Units	RL
Naphthalene		1	<0.000121	mg/L	0.0002
2-Methylnaphthalene		1	<0.0000913	mg/L	0.0002
1-Methylnaphthalene			<0.000109	mg/L	0.0002
Acenaphthylene		1	<0.000100	mg/L	0.0002
Acenaphthene		1	<0.000122	mg/L	0.0002
Dibenzofuran		1	<0.000108	mg/L	0.0002
Fluorene		1	<0.000100	mg/L	0.0002
Anthracene		1	<0.0000791	mg/L	0.0002
Phenanthrene		1	<0.0000824	mg/L	0.0002
Fluoranthene		1	<0.000124	mg/L	0.0002
Pyrene		1	0.00733	mg/L	0.0002
Benzo(a)anthracene		1	<0.000101	mg/L	0.0002
Chrysene		1	<0.0000769	mg/L	0.0002
Benzo(b)fluoranthene		1	<0.0000813	mg/L	0.0002
Benzo(k)fluoranthene		1	<0.0000790	mg/L	0.0002
Benzo(a)pyrene		1	<0.0000701	mg/L	0.0002

continued ...

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method blank continued ...

Parameter	Flag	Cert	MDL Result	Units	RL
Indeno(1,2,3-cd)pyrene		1	0.0250	mg/L	0.0002
Dibenzo(a,h)anthracene		1	<0.0000851	mg/L	0.0002
Benzo(g,h,i)perylene		1	0.0305	mg/L	0.0002

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	Q _{sr}	Q _{sr}	12.5	mg/L	1	8.00	156	40 - 110
2-Fluorobiphenyl	Q _{sr}	Q _{sr}	9.21	mg/L	1	8.00	115	50 - 110
Terphenyl-d14			5.34	mg/L	1	8.00	67	50 - 135

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 107203
Prep Batch: 90739

Date Analyzed: 2013-12-03
QC Preparation: 2013-12-02

Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	0.0958	mg/L	1	0.100	<0.000238	96	70 - 130
Toluene		2	0.0943	mg/L	1	0.100	<0.000181	94	70 - 130
Ethylbenzene		2	0.102	mg/L	1	0.100	<0.000247	102	70 - 130
Xylene		2	0.309	mg/L	1	0.300	<0.000189	103	70 - 130

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		2	0.0973	mg/L	1	0.100	<0.000238	97	70 - 130	2	20
Toluene		2	0.0958	mg/L	1	0.100	<0.000181	96	70 - 130	2	20
Ethylbenzene		2	0.104	mg/L	1	0.100	<0.000247	104	70 - 130	2	20
Xylene		2	0.314	mg/L	1	0.300	<0.000189	105	70 - 130	2	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0969	0.0989	mg/L	1	0.100	97	99	70 - 130
4-Bromofluorobenzene (4-BFB)	0.101	0.102	mg/L	1	0.100	101	102	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 107323
Prep Batch: 90876

Date Analyzed: 2013-12-05
QC Preparation: 2013-11-27

Analyzed By: MN
Prepared By: MN

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene		1	6.36	mg/L	1	8.00	<0.000121	80	40 - 100
2-Methylnaphthalene		1	5.52	mg/L	1	8.00	<0.0000913	69	45 - 105
1-Methylnaphthalene			4.94	mg/L	1	8.00	<0.000109	62	34.3 - 120
Acenaphthylene		1	6.41	mg/L	1	8.00	<0.000100	80	55 - 105
Acenaphthene	Q _s	Q _s	1.78	mg/L	1	8.00	<0.000122	22	45 - 110

continued ...

control spikes continued ...

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dibenzofuran		1	5.05	mg/L	1	8.00	<0.000108	63	55 - 105
Fluorene		1	6.78	mg/L	1	8.00	<0.000100	85	50 - 110
Anthracene		1	5.41	mg/L	1	8.00	<0.0000791	68	55 - 110
Phenanthrene		1	5.67	mg/L	1	8.00	<0.0000824	71	50 - 115
Fluoranthene		1	5.21	mg/L	1	8.00	<0.000124	65	55 - 115
Pyrene		1	9.33	mg/L	1	8.00	0.00733	116	50 - 130
Benzo(a)anthracene		1	7.10	mg/L	1	8.00	<0.000101	89	55 - 110
Chrysene		1	4.68	mg/L	1	8.00	<0.0000769	58	55 - 110
Benzo(b)fluoranthene		1	6.16	mg/L	1	8.00	<0.0000813	77	45 - 120
Benzo(k)fluoranthene		1	6.23	mg/L	1	8.00	<0.0000790	78	45 - 125
Benzo(a)pyrene		1	6.82	mg/L	1	8.00	<0.0000701	85	55 - 110
Indeno(1,2,3-cd)pyrene		1	6.00	mg/L	1	8.00	0.025	75	45 - 125
Dibenzo(a,h)anthracene		1	3.21	mg/L	1	8.00	<0.0000851	40	40 - 125
Benzo(g,h,i)perylene		1	9.02	mg/L	1	8.00	0.0305	112	40 - 125

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	5.77	mg/L	1	8.00	<0.000121	72	40 - 100	10	20
2-Methylnaphthalene	Q _r	Q _r	7.16	mg/L	1	8.00	<0.0000913	90	45 - 105	26	20
1-Methylnaphthalene	Q _r	Q _r	6.99	mg/L	1	8.00	<0.000109	87	34.3 - 120	34	20
Acenaphthylene		1	6.31	mg/L	1	8.00	<0.000100	79	55 - 105	2	20
Acenaphthene	Q _r , Q _s	Q _r , Q _s	1.26	mg/L	1	8.00	<0.000122	16	45 - 110	34	20
Dibenzofuran		1	4.95	mg/L	1	8.00	<0.000108	62	55 - 105	2	20
Fluorene	Q _r , Q _s	Q _r , Q _s	11.3	mg/L	1	8.00	<0.000100	141	50 - 110	50	20
Anthracene		1	6.08	mg/L	1	8.00	<0.0000791	76	55 - 110	12	20
Phenanthrene		1	5.11	mg/L	1	8.00	<0.0000824	64	50 - 115	10	20
Fluoranthene		1	5.66	mg/L	1	8.00	<0.000124	71	55 - 115	8	20
Pyrene	Q _r	Q _r	6.41	mg/L	1	8.00	0.00733	80	50 - 130	37	20
Benzo(a)anthracene		1	6.55	mg/L	1	8.00	<0.000101	82	55 - 110	8	20
Chrysene		1	4.42	mg/L	1	8.00	<0.0000769	55	55 - 110	6	20
Benzo(b)fluoranthene		1	6.00	mg/L	1	8.00	<0.0000813	75	45 - 120	3	20
Benzo(k)fluoranthene		1	6.65	mg/L	1	8.00	<0.0000790	83	45 - 125	6	20
Benzo(a)pyrene		1	6.18	mg/L	1	8.00	<0.0000701	77	55 - 110	10	20
Indeno(1,2,3-cd)pyrene	Q _r	Q _r	4.49	mg/L	1	8.00	0.025	56	45 - 125	29	20
Dibenzo(a,h)anthracene	Q _s	Q _s	2.84	mg/L	1	8.00	<0.0000851	36	40 - 125	12	20
Benzo(g,h,i)perylene	Q _r	Q _r	4.88	mg/L	1	8.00	0.0305	61	40 - 125	60	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	6.20	7.15	mg/L	1	8.00	78	89	40 - 110
2-Fluorobiphenyl	5.40	7.50	mg/L	1	8.00	68	94	50 - 110
Terphenyl-d14	5.70	3.74	mg/L	1	8.00	71	47	50 - 135

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Matrix Spike (MS-1) Spiked Sample: 347323

QC Batch: 107203
Prep Batch: 90739

Date Analyzed: 2013-12-03
QC Preparation: 2013-12-02

Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	5.44	mg/L	50	5.00	0.65	96	70 - 130
Toluene		2	5.06	mg/L	50	5.00	0.291	95	70 - 130
Ethylbenzene		2	5.12	mg/L	50	5.00	0.0215	102	70 - 130
Xylene		2	15.6	mg/L	50	15.0	0.0723	104	70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		2	5.56	mg/L	50	5.00	0.65	98	70 - 130	2	20
Toluene		2	5.21	mg/L	50	5.00	0.291	98	70 - 130	3	20
Ethylbenzene		2	5.26	mg/L	50	5.00	0.0215	105	70 - 130	3	20
Xylene		2	15.9	mg/L	50	15.0	0.0723	106	70 - 130	2	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	4.86	4.88	mg/L	50	5	97	98	70 - 130
4-Bromofluorobenzene (4-BFB)	5.03	5.07	mg/L	50	5	101	101	70 - 130

Matrix Spike (MS-1) Spiked Sample: 347145

QC Batch: 107323
Prep Batch: 90876

Date Analyzed: 2013-12-05
QC Preparation: 2013-11-27

Analyzed By: MN
Prepared By: MN

Param			F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene				1	5.39	mg/L	1	8.00	<0.000121	67	40 - 100
2-Methylnaphthalene				1	4.77	mg/L	1	8.00	0.124	58	45 - 105
1-Methylnaphthalene					4.79	mg/L	1	8.00	0.22	57	34.3 - 120
Acenaphthylene				1	6.38	mg/L	1	8.00	<0.000100	80	55 - 105
Acenaphthene	Qs	Qs		1	1.62	mg/L	1	8.00	<0.000122	20	45 - 110
Dibenzofuran	Qs	Qs		1	20.6	mg/L	1	8.00	<0.000108	258	55 - 105
Fluorene				1	5.83	mg/L	1	8.00	<0.000100	73	50 - 110
Anthracene	Qs	Qs		1	1.78	mg/L	1	8.00	<0.0000791	22	55 - 110
Phenanthrene	Qs	Qs		1	1.90	mg/L	1	8.00	0.0326	23	50 - 115
Fluoranthene	Qs	Qs		1	3.64	mg/L	1	8.00	<0.000124	46	55 - 115

continued ...

matrix spikes continued ...

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Pyrene	Qs	Qs	1	3.58	mg/L	1	8.00	<0.0000691	45 50 - 130
Benzo(a)anthracene			1	5.13	mg/L	1	8.00	<0.000101	64 55 - 110
Chrysene	Qs	Qs	1	3.76	mg/L	1	8.00	<0.0000769	47 55 - 110
Benzo(b)fluoranthene			1	4.47	mg/L	1	8.00	<0.0000813	56 45 - 120
Benzo(k)fluoranthene			1	4.74	mg/L	1	8.00	<0.0000790	59 45 - 125
Benzo(a)pyrene			1	4.41	mg/L	1	8.00	<0.0000701	55 55 - 110
Indeno(1,2,3-cd)pyrene	Qs	Qs	1	3.02	mg/L	1	8.00	<0.0000770	38 45 - 125
Dibenzo(a,h)anthracene	Qs	Qs	1	1.63	mg/L	1	8.00	<0.0000851	20 40 - 125
Benzo(g,h,i)perylene	Qs	Qs	1	3.17	mg/L	1	8.00	<0.0000798	40 40 - 125

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene			1	6.00	mg/L	1	8.00	<0.000121	75 40 - 100	11	20
2-Methylnaphthalene	Qr,Qs	Qr,Qs	1	9.66	mg/L	1	8.00	0.124	121 45 - 105	68	20
1-Methylnaphthalene	Qr	Qr		9.60	mg/L	1	8.00	0.22	120 34.3 - 120	67	20
Acenaphthylene			1	5.22	mg/L	1	8.00	<0.000100	65 55 - 105	20	20
Acenaphthene	Qs	Qs	1	1.56	mg/L	1	8.00	<0.000122	20 45 - 110	4	20
Dibenzofuran	Qr,Qs	Qr,Qs	1	26.7	mg/L	1	8.00	<0.000108	334 55 - 105	26	20
Fluorene			1	6.42	mg/L	1	8.00	<0.000100	80 50 - 110	10	20
Anthracene	Qr	Qr	1	4.82	mg/L	1	8.00	<0.0000791	60 55 - 110	92	20
Phenanthrene	Qr	Qr	1	4.94	mg/L	1	8.00	0.0326	62 50 - 115	89	20
Fluoranthene	Qr,Qs	Qr,Qs	1	2.53	mg/L	1	8.00	<0.000124	32 55 - 115	36	20
Pyrene	Qr	Qr	1	7.47	mg/L	1	8.00	<0.0000691	93 50 - 130	70	20
Benzo(a)anthracene	Qr	Qr	1	6.88	mg/L	1	8.00	<0.000101	86 55 - 110	29	20
Chrysene	Qr	Qr	1	5.18	mg/L	1	8.00	<0.0000769	65 55 - 110	32	20
Benzo(b)fluoranthene	Qr	Qr	1	5.98	mg/L	1	8.00	<0.0000813	75 45 - 120	29	20
Benzo(k)fluoranthene	Qr	Qr	1	6.17	mg/L	1	8.00	<0.0000790	77 45 - 125	26	20
Benzo(a)pyrene	Qr	Qr	1	6.48	mg/L	1	8.00	<0.0000701	81 55 - 110	38	20
Indeno(1,2,3-cd)pyrene			1	3.66	mg/L	1	8.00	<0.0000770	46 45 - 125	19	20
Dibenzo(a,h)anthracene	Qr	Qr	1	3.81	mg/L	1	8.00	<0.0000851	48 40 - 125	80	20
Benzo(g,h,i)perylene			1	3.84	mg/L	1	8.00	<0.0000798	48 40 - 125	19	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
Nitrobenzene-d5	4.52	4.78	mg/L	1	8	56	60	40 - 110
2-Fluorobiphenyl	4.23	3.70	mg/L	1	8	53	46	50 - 110
Terphenyl-d14	Qsr	Qsr	2.48	4.00	mg/L	1	8	31 50 - 135

Calibration Standards

Standard (CCV-1)

QC Batch: 107203

Date Analyzed: 2013-12-03

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/L	0.100	0.0986	99	80 - 120	2013-12-03
Toluene		2	mg/L	0.100	0.0973	97	80 - 120	2013-12-03
Ethylbenzene		2	mg/L	0.100	0.105	105	80 - 120	2013-12-03
Xylene		2	mg/L	0.300	0.318	106	80 - 120	2013-12-03

Standard (CCV-2)

QC Batch: 107203

Date Analyzed: 2013-12-03

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/L	0.100	0.0948	95	80 - 120	2013-12-03
Toluene		2	mg/L	0.100	0.0931	93	80 - 120	2013-12-03
Ethylbenzene		2	mg/L	0.100	0.0998	100	80 - 120	2013-12-03
Xylene		2	mg/L	0.300	0.302	101	80 - 120	2013-12-03

Standard (CCV-3)

QC Batch: 107203

Date Analyzed: 2013-12-03

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/L	0.100	0.0960	96	80 - 120	2013-12-03
Toluene		2	mg/L	0.100	0.0941	94	80 - 120	2013-12-03
Ethylbenzene		2	mg/L	0.100	0.101	101	80 - 120	2013-12-03
Xylene		2	mg/L	0.300	0.306	102	80 - 120	2013-12-03

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Standard (CCV-2)

QC Batch: 107323

Date Analyzed: 2013-12-05

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	64.1	107	80 - 120	2013-12-05
2-Methylnaphthalene		1	mg/L	60.0	68.6	114	80 - 120	2013-12-05
1-Methylnaphthalene			mg/L	60.0	52.4	87	80 - 120	2013-12-05
Acenaphthylene		1	mg/L	60.0	59.1	98	80 - 120	2013-12-05
Acenaphthene		1	mg/L	60.0	63.1	105	80 - 120	2013-12-05
Dibenzofuran		1	mg/L	60.0	55.8	93	80 - 120	2013-12-05
Fluorene	Qc	Qc	1	mg/L	60.0	76.8	128	80 - 120
Anthracene		1	mg/L	60.0	61.2	102	80 - 120	2013-12-05
Phenanthrene		1	mg/L	60.0	66.7	111	80 - 120	2013-12-05
Fluoranthene		1	mg/L	60.0	56.2	94	80 - 120	2013-12-05
Pyrene	Qc	Qc	1	mg/L	60.0	94.2	157	80 - 120
Benzo(a)anthracene		1	mg/L	60.0	60.4	101	80 - 120	2013-12-05
Chrysene		1	mg/L	60.0	51.6	86	80 - 120	2013-12-05
Benzo(b)fluoranthene		1	mg/L	60.0	49.0	82	80 - 120	2013-12-05
Benzo(k)fluoranthene	Qc	Qc	1	mg/L	60.0	36.2	60	80 - 120
Benzo(a)pyrene		1	mg/L	60.0	69.9	116	80 - 120	2013-12-05
Indeno(1,2,3-cd)pyrene	Qc	Qc	1	mg/L	60.0	46.2	77	80 - 120
Dibenzo(a,h)anthracene		1	mg/L	60.0	50.4	84	80 - 120	2013-12-05
Benzo(g,h,i)perylene	Qc	Qc	1	mg/L	60.0	46.9	78	80 - 120

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			88.8	mg/L	1	60.0	148	-
2-Fluorobiphenyl			65.3	mg/L	1	60.0	109	-
Terphenyl-d14			91.1	mg/L	1	60.0	152	-

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	T104704219-13-9	Lubbock
2	NELAP	T104704392-13-7	Midland

Standard Flags

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

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Attachments

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

Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

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