

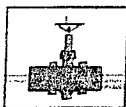
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# **Annual GW Mon. REPORTS**

**DATE:**

**2010**



PLAINS  
ALL AMERICAN

March 23, 2011

RECEIVED

MAR 29 2011

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

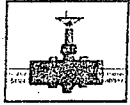
Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

Re: Plains All American – 2010 Annual Monitoring Reports  
20 Sites in Lea County, New Mexico

Dear Mr. Hansen:

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

34 Junc. to Lea Sta.	1R-0386 ✓	Section 21, Township 20 South, Range 37 East, Lea County
34 Junction South	1R-0456 ✓	Section 02, Township 17 South, Range 36 East, Lea County
Bob Durham	AP-0016 ✓	Section 32, Township 19 South, Range 37 East, Lea County
Darr Angell #1	AP-007 ✓	Section 11, Township 15 South, Range 37 East, Lea County
Darr Angell #2	AP-007 ✓	Section 11, Township 15 South, Range 37 East, Lea County
		Section 14, Township 15 South, Range 37 East, Lea County
Darr Angell #4	AP-007 ✓	Section 11, Township 15 South, Range 37 East, Lea County
		Section 02, Township 15 South, Range 37 East, Lea County
Denton Station	1R-0234 ✓	Section 14, Township 15 South, Range 37 East, Lea County
HDO-90-23	AP-009 ✓	Section 06, Township 20 South, Range 37 East, Lea County
LF-59	1R-0103	Section 32, Township 19 South, Range 37 East, Lea County
Monument 2	1R-0110	Section 06, Township 20 South, Range 37 East, Lea County
		Section 07, Township 20 South, Range 37 East, Lea County
Monument 10	1R-0119	Section 30, Township 19 South, Range 37 East, Lea County
Monument 17	1R-123	Section 29, Township 19 South, Range 37 East, Lea County
Monument 18	1R-0124	Section 07, Township 20 South, Range 37 East, Lea County
S. Mon. Gath. Sour	1R-951	Section 05, Township 20 South, Range 37 East, Lea County
SPS-11	GW-0140 ✓	Section 18, Township 18 South, Range 36 East, Lea County
Texaco Skelly F	1R-0420	Section 11, Township 21 South, Range 37 East, Lea County
TNM 97-04	GW-0294 ✓	Section 11, Township 16 South, Range 35 East, Lea County
TNM 97-17	AP-017 ✓	Section 21, Township 20 South, Range 37 East, Lea County
TNM 97-18	AP-0013 ✓	Section 28, Township 20 South, Range 37 East, Lea County
TNM 98-05A	AP-12	Section 26, Township 21 South, Range 37 East, Lea County



PLAINS  
ALL AMERICAN

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

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

Sincerely,

Jason Henry  
Remediation Coordinator  
Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM

Enclosures



**2010  
ANNUAL MONITORING REPORT**

**DENTON STATION**

*SE* **NW ¼, NE ¼ SECTION 14, TOWNSHIP 15 SOUTH, RANGE 37 EAST  
LEA COUNTY, NEW MEXICO  
PLAINS SRS NUMBER: 2003-00338  
NMOCD Reference 1R-0234**

PREPARED FOR:


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

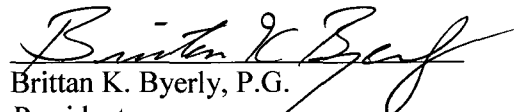


PREPARED BY:

**NOVA Safety and Environmental**  
2057 Commerce  
Midland, Texas 79703

**March 2011**

  
Ronald K. Rounsaville  
Senior Project Manager

  
Brittan K. Byerly, P.G.  
President

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### FIGURES

Figure 1 – Site Location Map

Figure 2A – Inferred Groundwater Gradient Map – February 15, 2010

2B – Inferred Groundwater Gradient Map – June 6, 2010

2C – Inferred Groundwater Gradient Map – August 25, 2010

2D – Inferred Groundwater Gradient Map – November 29, 2010

Figure 3A – Groundwater Concentration and Inferred PSH Extent Map – February 15, 2010

3B – Groundwater Concentration and Inferred PSH Extent Map – June 6, 2010

3C – Groundwater Concentration and Inferred PSH Extent Map – August 25, 2010

3D – Groundwater Concentrations and Inferred PSH Extent Map – November 29, 2010

### TABLES

Table 1 – 2010 Groundwater Elevation Data

Table 2 – 2010 Concentrations of BTEX and TPH in Groundwater

Table 3 – 2010 Concentrations of PAH in Groundwater

### ENCLOSED ON DATA DISK

2010 Annual Monitoring Report

2010 Tables 1, 2 and 3 – Groundwater Elevation, BTEX and PAH Concentration Data

2010 Figures 1, 2A-2D, and 3A-3D

Electronic Copies of Laboratory Reports

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

## **INTRODUCTION**

On behalf of Plains Marketing, L.P., (Plains), NOVA Safety and Environmental (NOVA) is pleased to submit this Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. Beginning on or about April 1, 2007, project management responsibilities for the Denton Station Release Site (the site) were assumed by NOVA. The source of the release was reportedly a former crude oil tank battery located in the northeastern quadrant of the fenced facility. The site, formerly the responsibility of Shell Pipeline Corporation (SPLC), is now the responsibility of Plains. This report is intended to be viewed as a complete document with text, figures, tables and appendices. This report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2010 only. However, historic data tables as well as 2010 laboratory analytical reports are provided on the enclosed disk. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2010 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbon (PSH). Each groundwater monitoring event consisted of measuring static water levels in monitor wells, checking for the presence of PSH on the water column and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing a thickness of PSH greater than 0.01 foot were not sampled.

## **SITE DESCRIPTION AND BACKGROUND INFORMATION**

The site is located approximately twelve miles east of the town of Lovington, New Mexico near State Highway 82 in the SE ¼ of the NE ¼ Section 14, Township 15 South, Range 37 East and the NW ¼ of the NE ¼ Section 14, Township 15 South, Range 37 East. The site coordinates are latitude 33° 01' 6.48" North, longitude 103° 09' 46.6" West. An out of service water well (WW-1) is located on site and is completed to a total depth of approximately ninety-seven feet (97') below ground surface (bgs). The water well has been converted to a recovery well.

Currently, there are seventeen monitor wells (MW-1 through MW-17) and one out of service water well (WW-1) onsite. The automated product recovery system was upgraded and operated on site during all four quarters the reporting period. Manual product recovery was performed on those wells not included in the automated recovery system.

## **FIELD ACTIVITIES**

### **Product Recovery Efforts**

A measurable thickness of PSH was present in three monitor wells (MW-3, MW-7 and MW-17) and the out of service water well (WW-1) during each quarter of the reporting period. The average thickness of PSH in monitor wells exhibiting PSH and the out of service water well is 1.18 feet. The maximum thickness of PSH in monitor or water well was 5.34 feet as recorded in monitor well MW-7 on July 21, 2010. PSH data for the 2010 gauging events can be found in Table 1. Approximately 210 gallons (5.0 barrels) of PSH were recovered from the site during

this reporting period. Approximately 8,069 gallons (192.1 barrels) of PSH have been recovered from the site utilizing manual and automated methods since project inception.

### Groundwater Monitoring

Quarterly monitoring events for the reporting period were performed according to the following sampling schedule.

NMOCD APPROVED SAMPLING SCHEDULE					
Location	Schedule	Location	Schedule	Location	Schedule
MW-1	Quarterly	MW-7	Quarterly	MW-13	Quarterly
MW-2	Quarterly	MW-8	Quarterly	MW-14	Quarterly
MW-3	Quarterly	MW-9	Quarterly	MW-15	Quarterly
MW-4	Quarterly	MW-10	Quarterly	MW-16	Quarterly
MW-5	Quarterly	MW-11	Quarterly	MW-17	Quarterly
MW-6	Quarterly	MW-12	Quarterly	WW-1	Quarterly

The site monitor wells were gauged and sampled on February 15, June 6, August 25, and November 29, 2010. During each sampling event the monitor wells were purged of a minimum of three well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were collected using disposable Teflon samplers. Water samples were placed in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of at a licensed disposal facility.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during each quarterly monitoring event, are depicted on Figures 2A through 2D, the Inferred Groundwater Gradient Maps. Groundwater elevation data for 2010 is provided as Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

The most recent Inferred Groundwater Gradient map, Figure 2D, indicates a general gradient of approximately 0.008 feet/foot to the southeast as measured between monitor well MW-7 and monitor well MW-15. This is consistent with data presented on Figures 2A through 2C from the earlier quarters.

### LABORATORY RESULTS

Groundwater samples obtained during the quarterly sampling events of 2010 were delivered to Trace Analysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method 8021B. Polynuclear Aromatic Hydrocarbons (PAH) analysis was conducted during the 2010 calendar year on monitor wells MW-5 and MW-6. Based upon historic PAH analytical data, only those wells exhibiting elevated constituent concentrations above WQCC standards were sampled, with the exclusion of those wells containing measurable PSH thicknesses. A listing of BTEX constituent concentrations for 2010 are summarized in Table 2 and the Historic PAH constituent concentrations are summarized in Table 3. Copies of the laboratory reports generated for 2010

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 monitored on a quarterly schedule. Analytical results indicate benzene concentrations ranged from 1.040 mg/L during the 3<sup>rd</sup> quarter to 1.500 mg/L during the 4<sup>th</sup> quarter. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standard during all four quarters of the reporting period. Ethyl-benzene concentrations ranged from 0.594 mg/L during the 3<sup>rd</sup> quarter to 0.190 mg/L during the 4<sup>th</sup> quarter of the reporting period. Ethyl-benzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from <0.050 mg/L during the 4<sup>th</sup> quarter to 0.181 mg/L during the 1<sup>st</sup> quarter of the reporting period. Xylene concentrations were below the NMOCD regulatory standard during all four quarterly sampling events. PAH analysis was not conducted due to an insufficient volume of groundwater to sample.

**Monitor well MW-2** is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during all four quarters of the reporting period. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-3** is monitored on a quarterly schedule. Monitor well MW-3 was not sampled during the four quarters of the reporting period, due to the presence of PSH in the monitor well. PSH thicknesses of 0.38 feet, 1.28 feet, 1.08 feet and 1.39 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters of 2010, respectively. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event, due to the presence of PSH.

**Monitor well MW-4** is sampled on a quarterly schedule. Analytical results indicate benzene concentrations ranged from 0.618 mg/L during the 2<sup>nd</sup> quarter to 0.714 mg/L during the 3<sup>rd</sup> quarter. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standard during all four quarters of the reporting period. Ethyl-benzene concentrations ranged from 0.0301 mg/L during the 3<sup>rd</sup> quarter to 0.0751 mg/L during the 1<sup>st</sup> quarter of the reporting period. Ethyl-benzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from 0.0285 mg/L during the 3<sup>rd</sup> quarter to 0.890 mg/L during the 1<sup>st</sup> quarter of the reporting period. Xylene concentrations were below the NMOCD regulatory standard during all four quarterly sampling events. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-5** is monitored on a quarterly schedule. Analytical results indicate benzene concentrations ranged from 0.569 mg/L during the 1<sup>st</sup> quarter to 0.755 mg/L during the 4<sup>th</sup> quarter. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations ranged from 0.100 mg/L during the 3<sup>rd</sup> quarter to 0.3040 mg/L during the 4<sup>th</sup> quarter. Toluene concentrations were below the NMOCD regulatory standard during the all four quarters of the reporting period. Ethyl-benzene



concentrations ranged from 0.370 mg/L during the 2<sup>nd</sup> quarter to 0.497 mg/L during the 4<sup>th</sup> quarter of the reporting period. Ethyl-benzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from 0.943 mg/L during the 3<sup>rd</sup> quarter to 1.360 mg/L during the 4<sup>th</sup> quarter of the reporting period. Xylene concentrations were above the NMOCD regulatory standard during all four quarterly sampling events. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.0484 mg/L), 1-methylnaphthalene (0.0498 mg/L) and 2-methylnaphthalene (0.0617 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.00476 mg/L), phenanthrene (0.00625 mg/L) and dibenzofuran (0.0029 mg/L), which are below WQCC standards.

**Monitor well MW-6** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0482 mg/L during the 4<sup>th</sup> quarter of the reporting period to 0.1440 mg/L during the 2<sup>nd</sup> quarter. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standard during all four quarters of the reporting period. Ethyl-benzene concentrations ranged from 0.0058 mg/L during the 3<sup>rd</sup> quarter to 0.0157 mg/L during the 2<sup>nd</sup> quarter of the reporting period. Ethyl-benzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 4<sup>th</sup> quarter to 0.0100 mg/L during the 1<sup>st</sup> quarter of the reporting period. Xylene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated elevated concentrations above MDLs for naphthalene (0.00213 mg/L), 1-methylnaphthalene (0.000871 mg/L), 2-methylnaphthalene (0.000671 mg/L), fluorene (0.0011 mg/L) and dibenzofuran (0.000781 mg/L), which are below WQCC standards.

**Monitor well MW-7** is monitored on a quarterly schedule. Monitor well MW-7 was not sampled during each of the four quarterly sampling events of the reporting period, due to the presence of PSH. PSH thicknesses of 2.61 feet, 3.66 feet, 0.36 feet and 0.78 feet were reported during each of the four quarters of 2010, respectively. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event, due to the presence of PSH.

**Monitor well MW-8** is sampled on a quarterly schedule and analytical results indicate benzene, toluene and ethyl-benzene concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters to 0.005 mg/L during the 1<sup>st</sup> quarter of the reporting period. Xylene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-9** is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during all four quarters of the reporting period. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-10** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.210 mg/L during the 4<sup>th</sup> quarter of the reporting period to 0.519 mg/L during the 1<sup>st</sup> quarter. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from <0.010 mg/L during the 4<sup>th</sup> quarter to 0.0542 mg/L during the 1<sup>st</sup> quarter of the reporting period. Ethylbenzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations were below the MDL and NMOCD regulatory standard during all four quarters of the reporting period. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-11** is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during all four quarters of the reporting period. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-12** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters to 0.002 mg/L during the 1<sup>st</sup> quarter of 2010. Benzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Toluene, ethylbenzene and xylene concentrations were below the MDL and the NMOCD regulatory standard during all four quarters of the reporting period. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-13** is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during all four quarters of the reporting period. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-14** is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during all four quarters of the reporting period. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-15** is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during all four quarters of the reporting period. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-16** is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during all four quarters of the reporting period. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event.

**Monitor well MW-17** is monitored on a quarterly schedule. Monitor well MW-17 was not sampled during each of the four quarters of the reporting period, due to the presence of PSH.

PSH thicknesses of 0.23 feet, 3.72 feet, 0.38 feet and 0.83 feet were reported during each of the four quarters of 2010, respectively. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event, due to the presence of PSH.

**Water Well WW-1** is monitored on a quarterly schedule. Water well WW-1 was not sampled during each of the four quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.49 feet, 0.50 feet, 0.02 feet and 0.05 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters of 2010, respectively. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event, due to the presence of PSH.

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

## **SUMMARY**

This report presents the results of monitoring activities for the 2010 annual monitoring period. Currently, there are seventeen monitor wells (MW-1 through 17) and one out of service water well (WW-1) onsite. A measurable thickness of PSH was present in three monitor wells (MW-3, MW-7 and MW-17) and the out of service water well (WW-1) during each quarter of the reporting period. The average thickness of PSH in monitor wells exhibiting PSH and the out of service water well is 1.18 feet. The maximum thickness of PSH in monitor or water well was 5.34 feet as recorded in monitor well MW-7 on July 21, 2010.

Approximately 210 gallons (5.00 barrels) of PSH were recovered from the site during this reporting period. Approximately 8,069 gallons (192.1 barrels) of PSH have been recovered from the site utilizing manual and automated methods since project inception. The most recent Inferred Groundwater Gradient map, Figure 2D, indicates a general gradient of approximately 0.008 feet/foot to the southeast as measured between recovery well MW-7 and monitor well MW-15.

Review of laboratory analytical results of the groundwater samples obtained during the 2010 monitoring period indicates the BTEX constituent concentrations are below applicable NMOCD standards in nine of the seventeen monitor wells. Monitor wells MW-3, MW-7, MW-17 and water well WW-1 consistently exhibited measurable thicknesses of PSH during gauging events. Dissolved phase and phase separated hydrocarbon impact appears to be limited to monitor wells MW-1, MW-4 through MW-7, MW-10, MW-17 and water well WW-1. Review of PAH analysis indicates a decreasing trend in constituent concentrations in monitor well MW-6 and an increasing trend in MW-5.

## **ANTICIPATED ACTIONS**

Quarterly groundwater monitoring and sampling will continue in 2011. Plains respectfully requests NMOCD approval to modify the sampling schedule for the following monitor wells:

- Monitor wells MW-14, MW-15 and MW-16 are currently sampled on a quarterly schedule. Plains proposes to modify the schedule to a semi-annual schedule. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last fourteen consecutive quarters.

An Annual Monitoring Report will be submitted to the NMOCD by April 1, 2012. The automated recovery system will be upgraded with new skimmer pumps and adjusted to maximize the efficiency of product removal and gradient control.

Based on the results of the PAH analysis over the past several years, further PAH analysis be conducted only on monitor wells MW-1, MW-5 and MW-6, which have historically exhibited elevated constituents near or above the WQCC standards.

## **LIMITATIONS**

NOVA has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended. NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

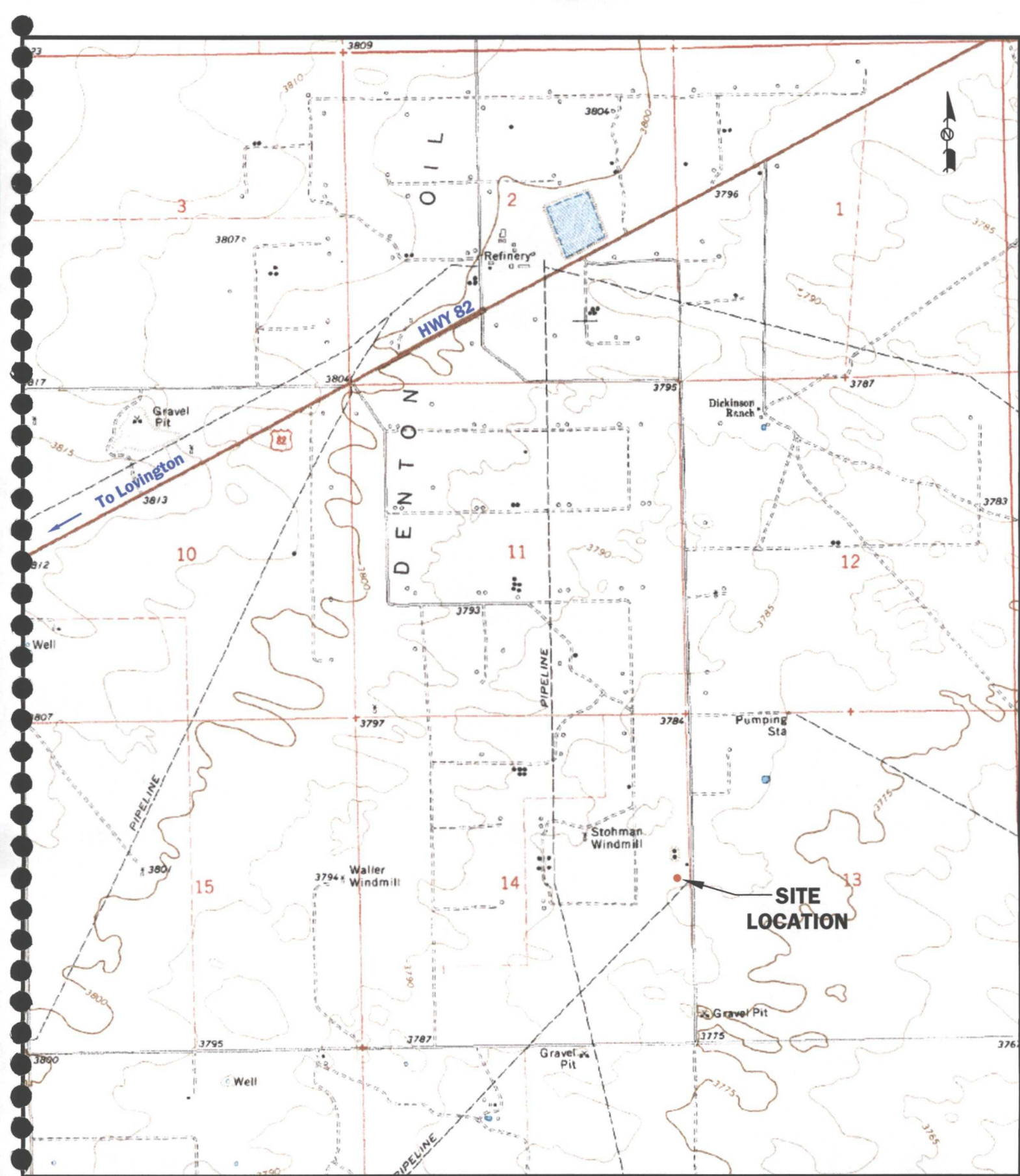
This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA and/or Plains.

## DISTRIBUTION

- Copy 1      Ed Hansen  
New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505
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New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division, District 1  
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- Copy 5:      NOVA Safety and Environmental  
2057 Commerce Street  
Midland, TX 79703  
rrounsaville@novatraining.cc



## Figures



LEGEND:



Figure 1  
 Site Location Map  
 Plains Marketing, L.P.  
 NMOCD Ref# 1R-0234  
 Denton Station  
 Lea County, NM

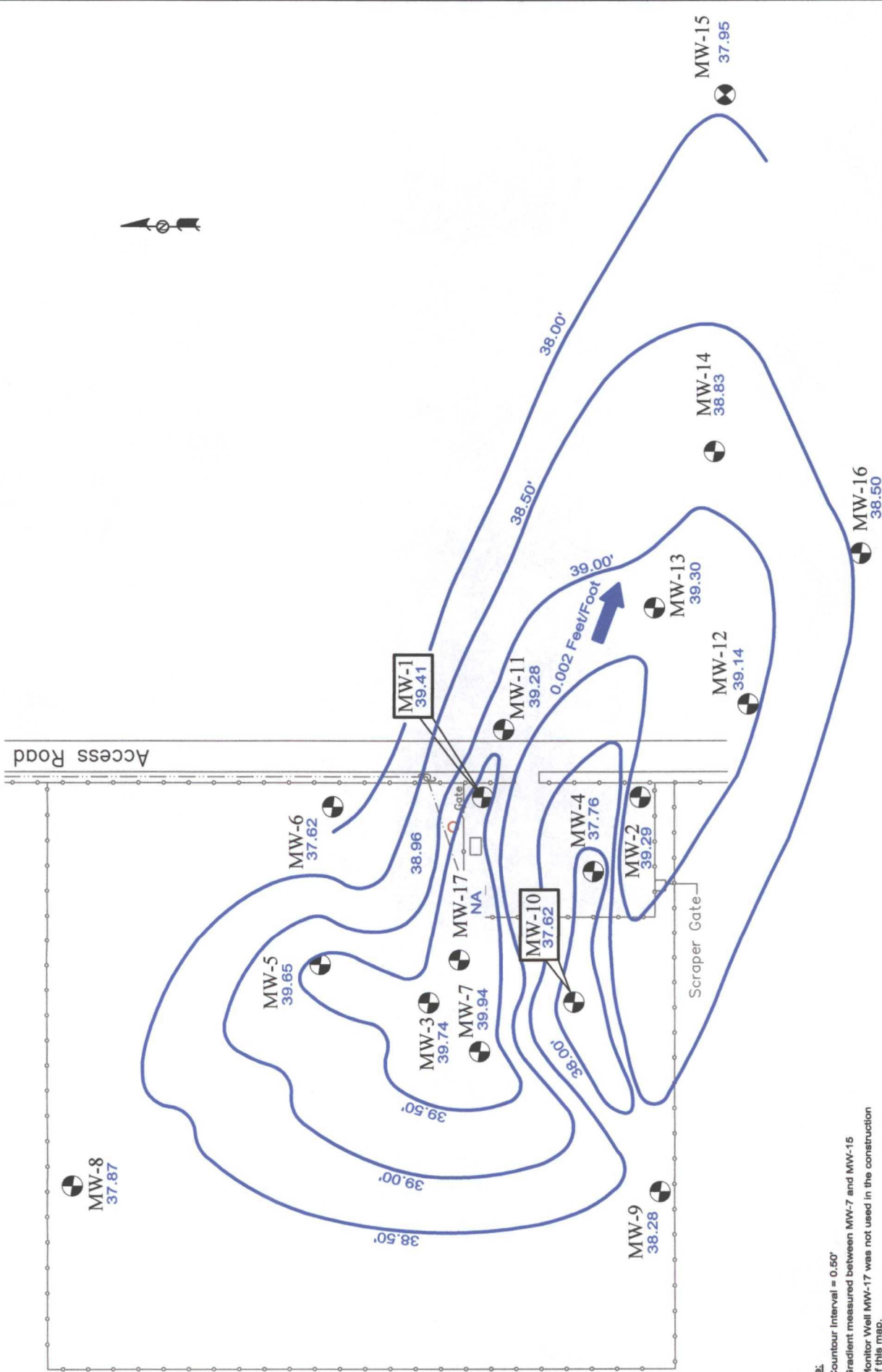


2057 Commerce Drive  
 Midland, Texas 79703  
 432.520.7720

[www.novasafetyandenvironmental.com](http://www.novasafetyandenvironmental.com)

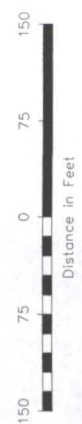
February 4, 2011	Scale: 1" = 2000'	CAD By: TA	Checked By: RKR
Lat. N 33° 1' 3.45" Long. W 103° 9' 46.46"			





**Note:**

- Contour Interval = 0.50'
- Gradient measured between MW-7 and MW-15
- Monitor Well MW-17 was not used in the construction of this map.



**Legend:**

- Monitor Well Location
- Electric Line
- Pipeline
- Groundwater Elevation (Feet) (91.69)
- Groundwater Direction and Magnitude
- Groundwater Elevation Contour Line

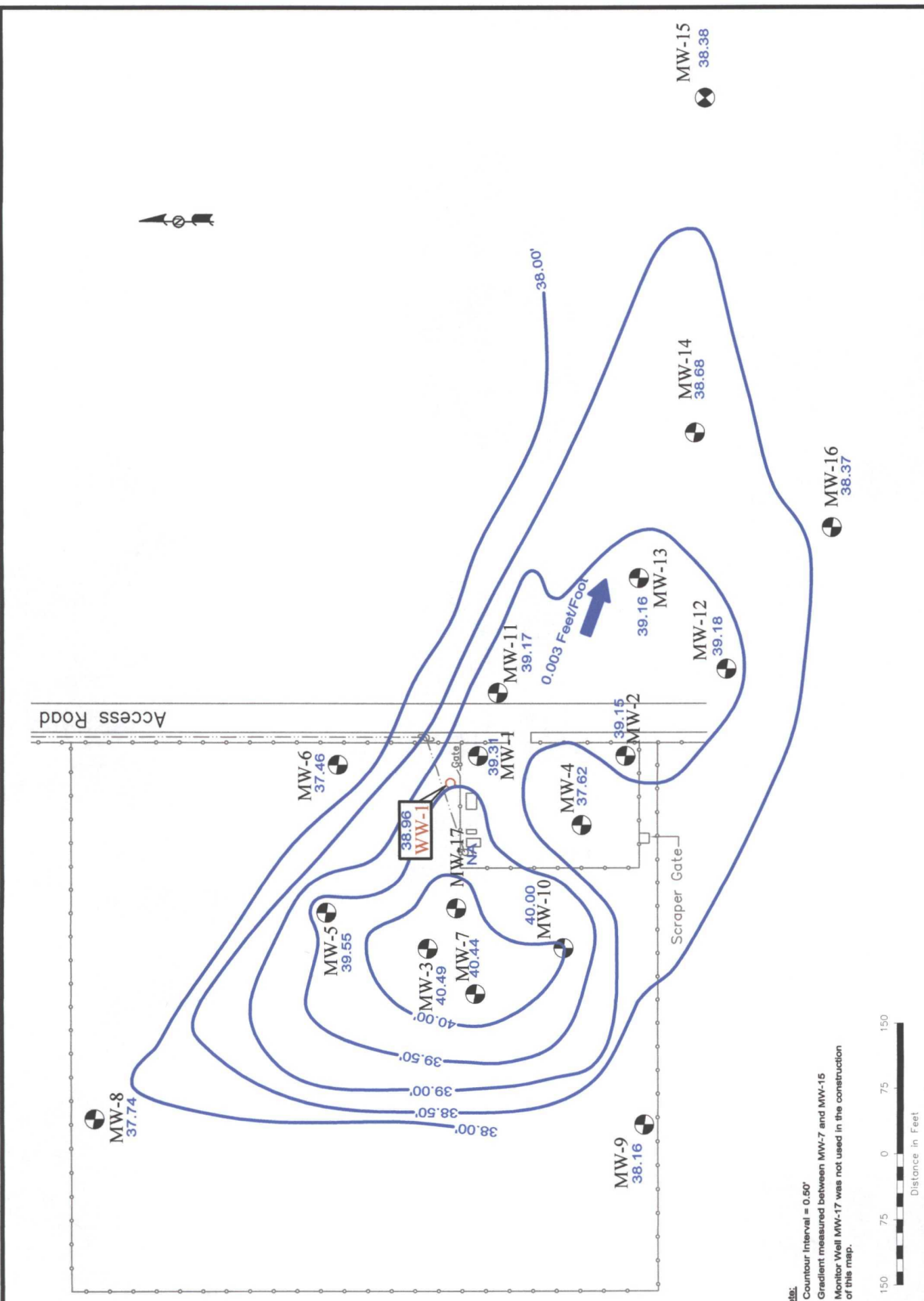
**NOVA Safety and Environmental**

**Figure 2A**  
Inferred Groundwater  
Gradient  
Map  
(02/16/10)  
Pleins Consulting, L.P.  
Denton Station  
Lea County, NM

NMOC Ref# 1R-0234

Scale: 1" = 150'	CAD By: SAT	Checked By: RNR
April 28, 2010	N 35° 01' 6.48" W 102° 08' 46.8"	





**Note:**

- Contour Interval = 0.50'
- Gradient measured between MW-7 and MW-15
- Monitor Well MW-17 was not used in the construction of this map.



**Legend:**

- Monitor Well Location
- Electric Line
- Pipeline

**Groundwater Elevation (Feet)**

(91.69)

Groundwater Elevation Contour Line

**Groundwater Direction and Magnitude**

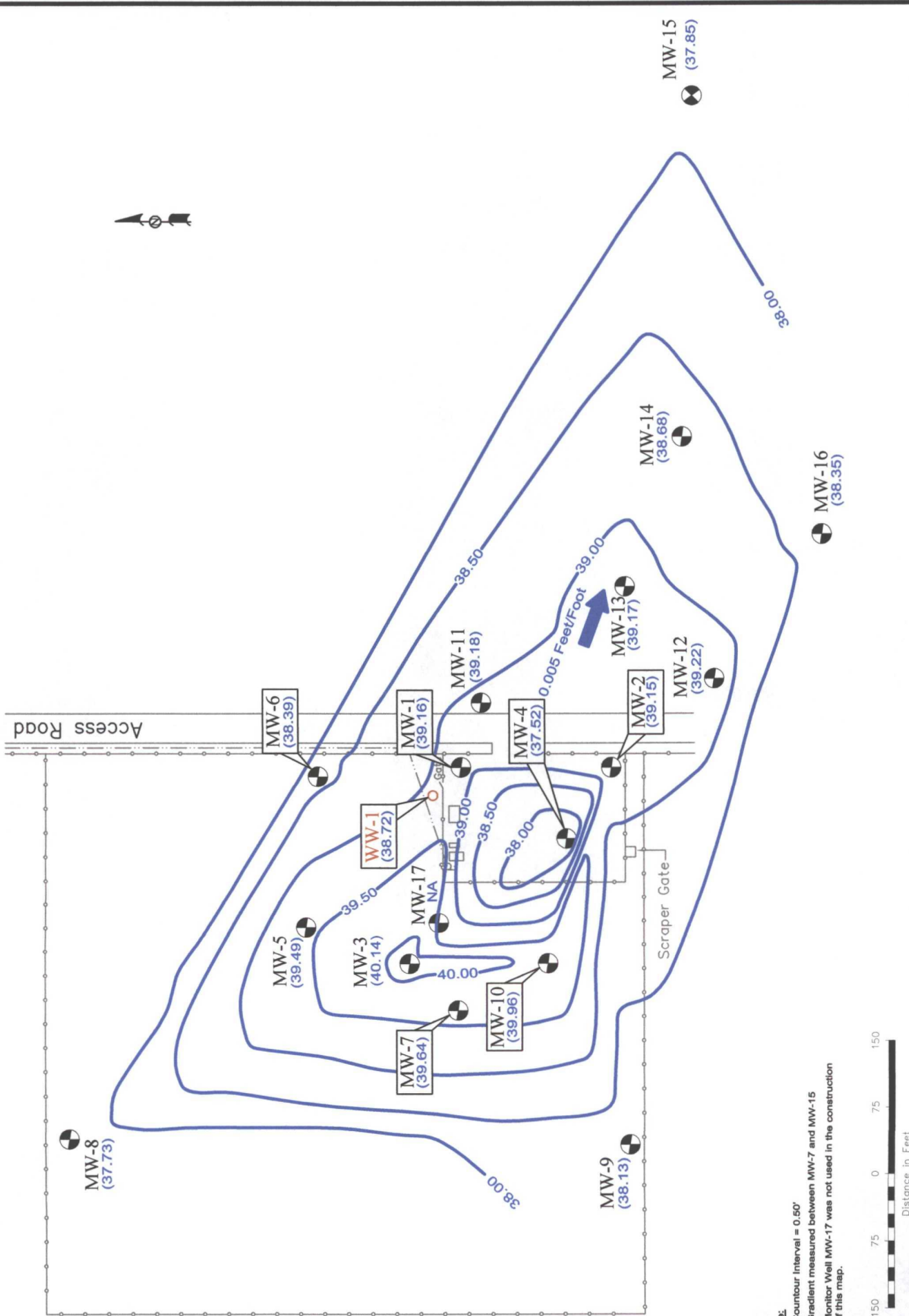
0.003 Feet/foot

**Figure 2B**  
Inferred Groundwater  
Gradient  
Map  
(09/02/10)  
Pilius M. ... L.P.  
Denton Station  
Lea County, NM

**NOVA Safety and Environmental**

Scale: 1" = 150'  
June 19, 2010  
CAD By: DOC  
Checked By: RGR  
N 33° 01' 5.48" W 103° 09' 46.5"

NMOC Ref# 1R-0234



- Note:**
- Contour Interval = 0.50'
  - Gradient measured between MW-7 and MW-15
  - Monitor Well MW-17 was not used in the construction of this map.



**Legend:**

- Monitor Well Location
- Electric Line
- Pipeline

Groundwater Elevation (Feet)

91.69

Groundwater Direction and Magnitude

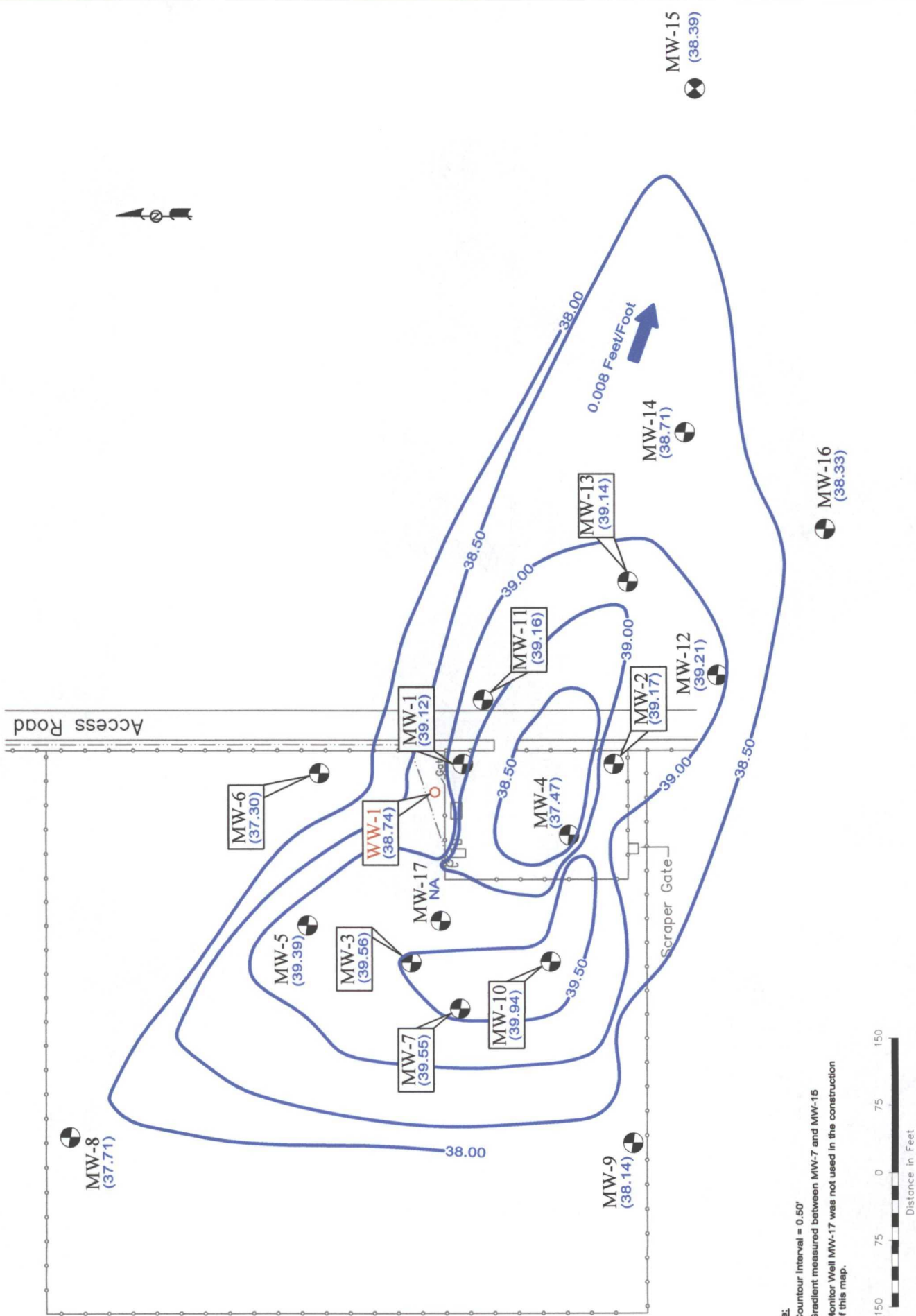
0.005 Feet/Foot

**Figure 2C**  
Inferred Groundwater  
Gradient  
Map  
(08/25/10)  
Plainfield, L.P.  
Denton Station  
Lea County, NM

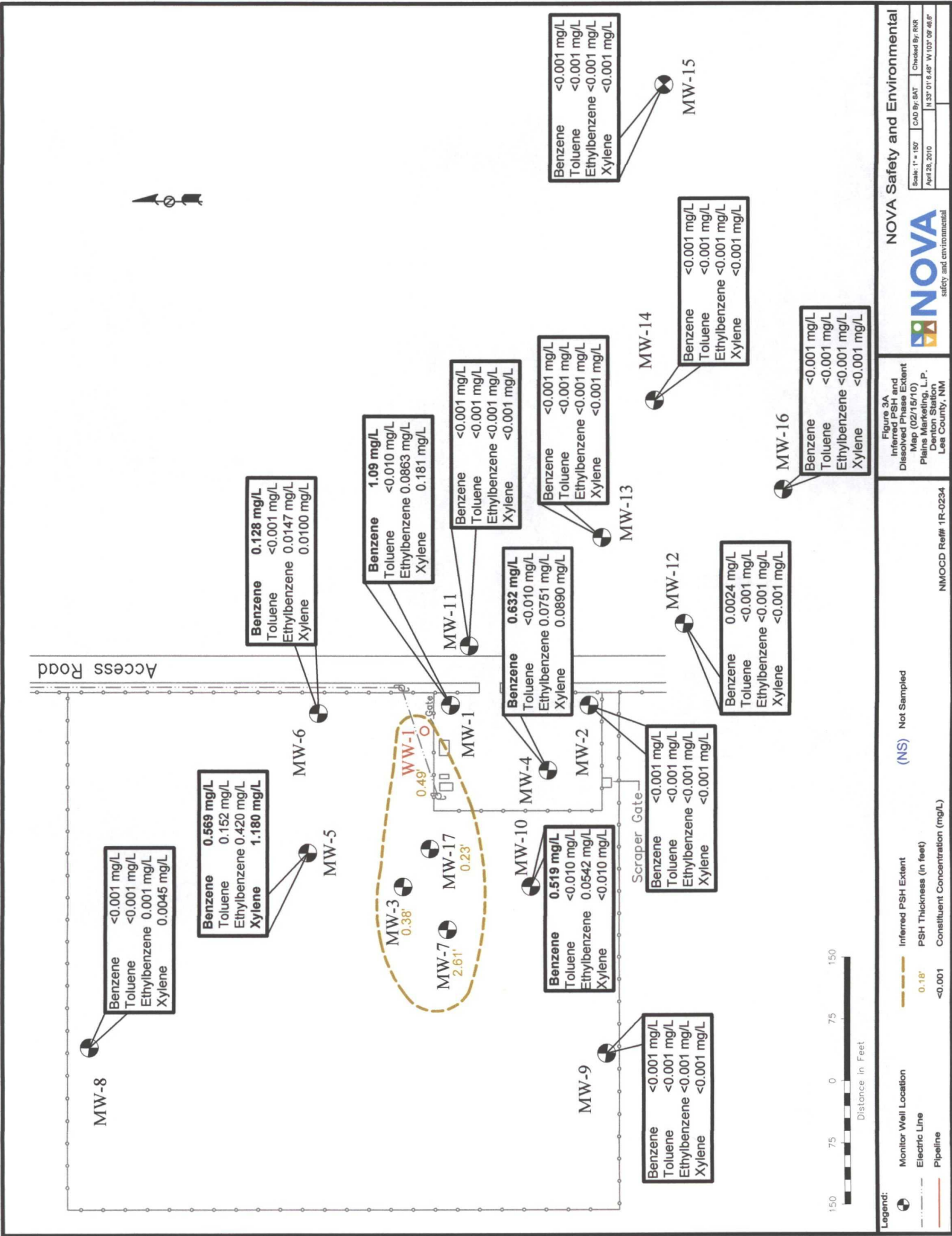
NMOCB Ref# 1R-0234

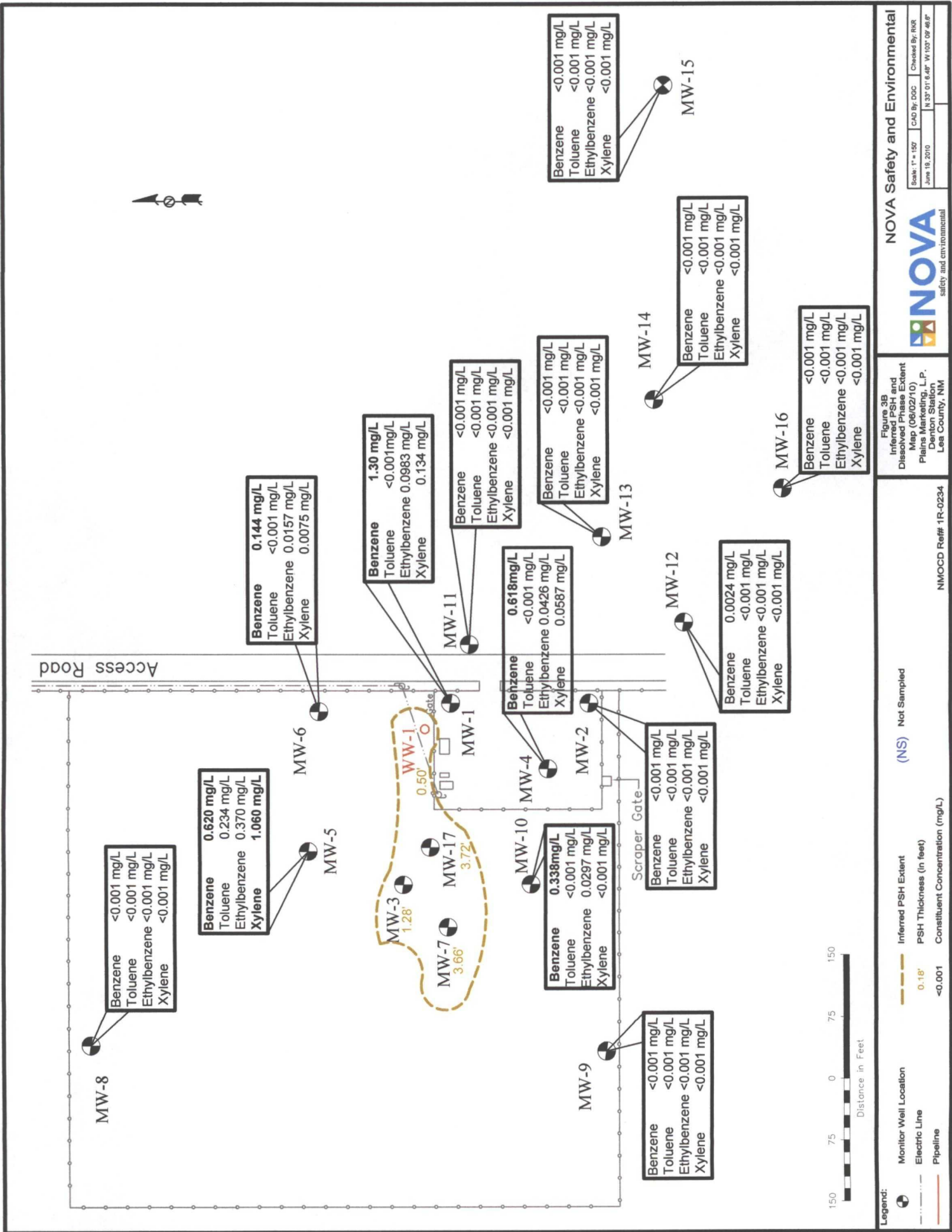
**NOVA Safety and Environmental**

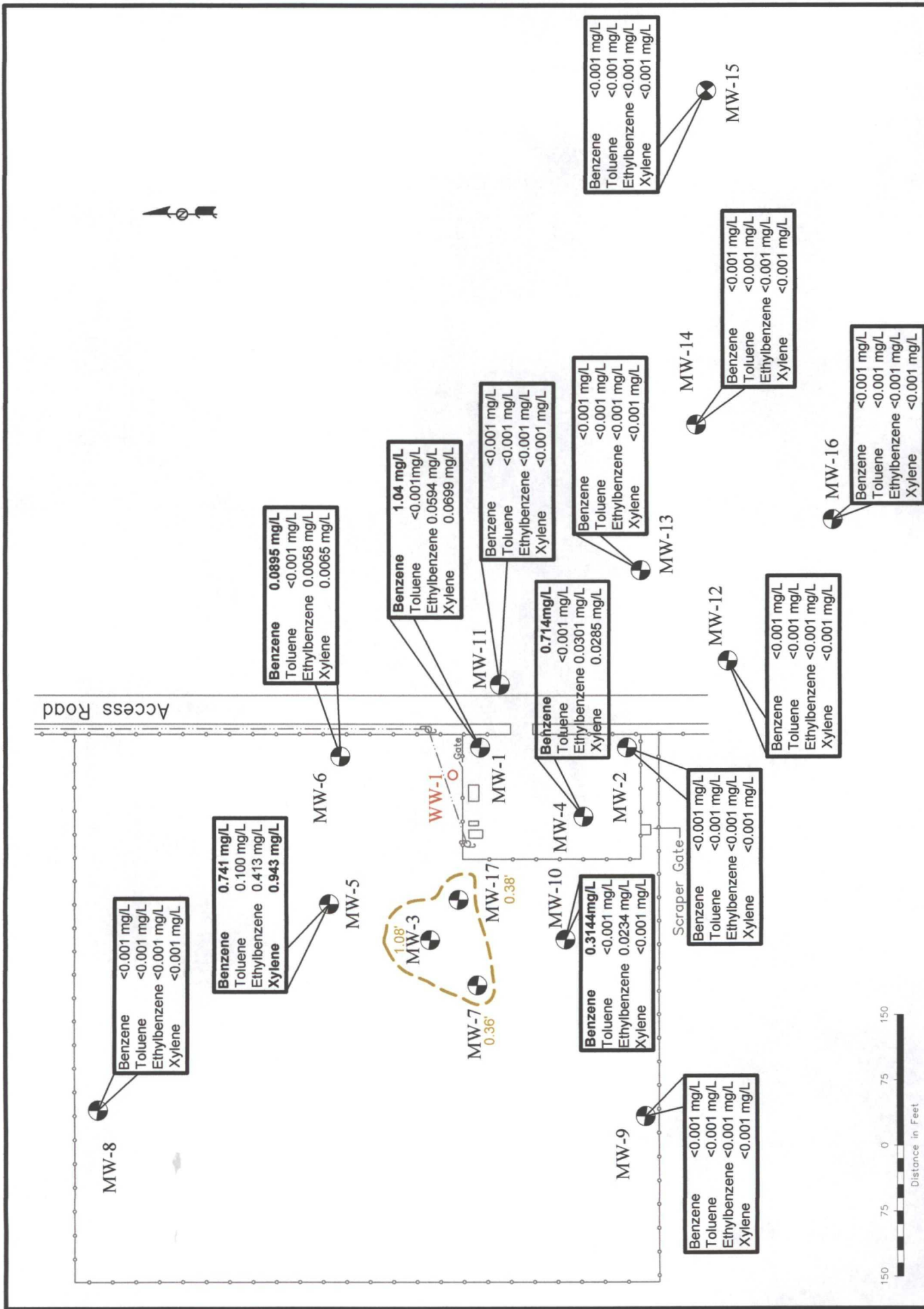
Scale: 1" = 150'  
CAD By: TA  
Checked By: RNS  
September 8, 2010 N 32° 01' 6.48" W 102° 02' 46.8"



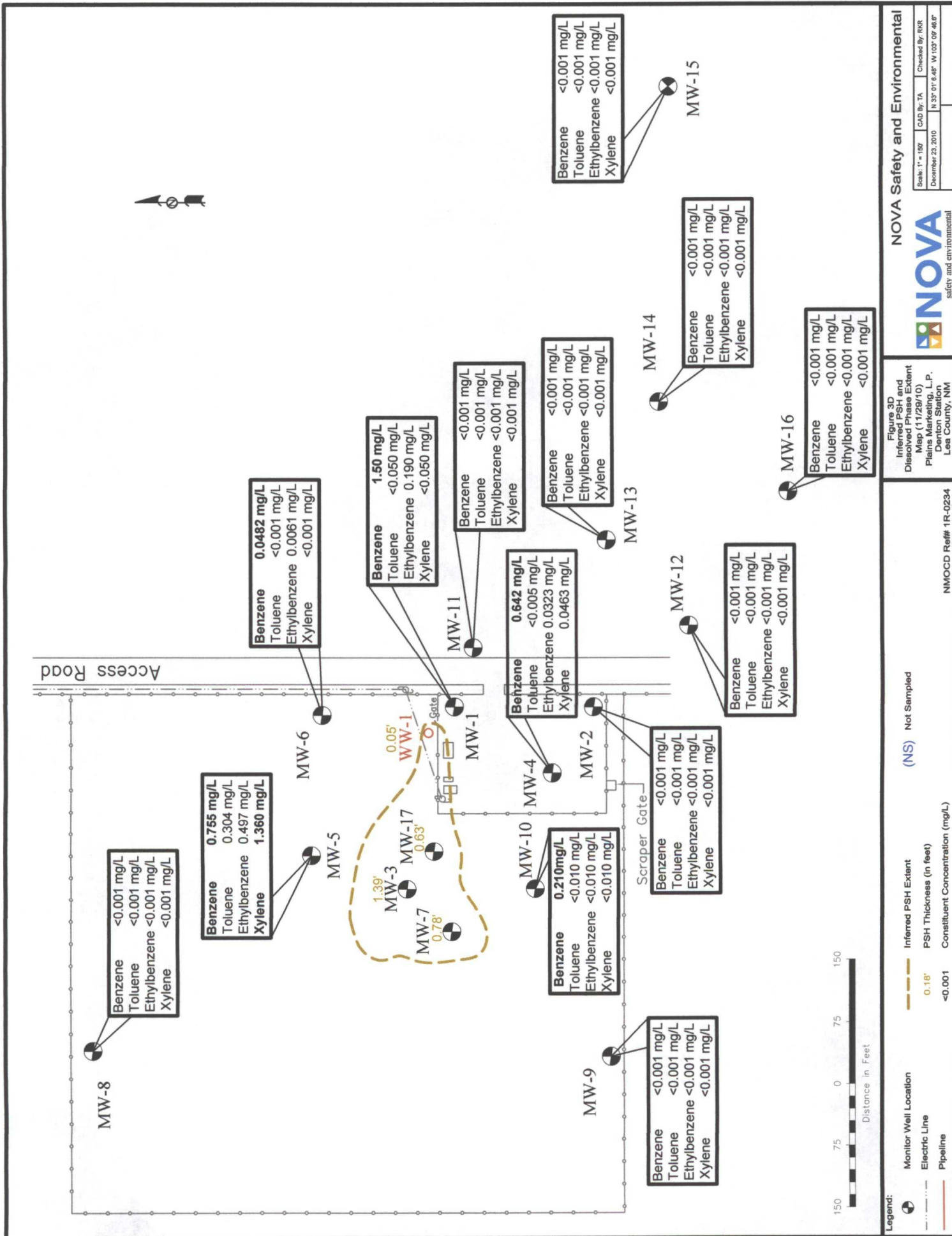














## Tables



**TABLE 1**  
**GROUNDWATER ELEVATION DATA - 2010**

**PLAINS MARKETING, L.P.**  
**DENTON STATION**  
**LEA COUNTY, NM**  
**NMOCD REFERENCE #1R-0234**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>TOP OF CASING ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
MW - 1	01/05/10	101.96	-	62.50	0.00	39.46
MW - 1	01/14/10	101.96	-	60.52	0.00	41.44
MW - 1	01/19/10	101.96	-	62.50	0.00	39.46
MW - 1	01/26/10	101.96	-	62.51	0.00	39.45
MW - 1	02/12/10	101.96	-	62.53	0.00	39.43
MW - 1	02/15/10	101.96	-	62.55	0.00	39.41
MW - 1	02/18/10	101.96	-	62.58	0.00	39.38
MW - 1	02/24/10	101.96	-	62.57	0.00	39.39
MW - 1	03/03/10	101.96	-	62.58	0.00	39.38
MW - 1	03/09/10	101.96	-	62.57	0.00	39.39
MW - 1	03/18/10	101.96	-	62.59	0.00	39.37
MW - 1	03/24/10	101.96	-	62.61	0.00	39.35
MW - 1	04/07/10	101.96	-	62.58	0.00	39.38
MW - 1	04/20/10	101.96	-	62.63	0.00	39.33
MW - 1	04/27/10	101.96	-	62.63	0.00	39.33
MW - 1	04/30/10	101.96	-	62.64	0.00	39.32
MW - 1	05/04/10	101.96	-	62.62	0.00	39.34
MW - 1	05/11/10	101.96	-	62.63	0.00	39.33
MW - 1	05/18/10	101.96	-	62.62	0.00	39.34
MW - 1	05/28/10	101.96	-	62.65	0.00	39.31
MW - 1	06/02/10	101.96	-	62.65	0.00	39.31
MW - 1	06/03/10	101.96	-	62.66	0.00	39.30
MW - 1	06/08/10	101.96	-	62.68	0.00	39.28
MW - 1	06/15/10	101.96	-	62.67	0.00	39.29
MW - 1	07/08/10	101.96	-	62.69	0.00	39.27
MW - 1	07/21/10	101.96	-	62.70	0.00	39.26
MW - 1	07/27/10	101.96	-	62.75	0.00	39.21
MW - 1	08/02/10	101.96	-	62.80	0.00	39.16
MW - 1	08/10/10	101.96	-	62.81	0.00	39.15
MW - 1	08/17/10	101.96	-	62.84	0.00	39.12
MW - 1	08/24/10	101.96	-	62.80	0.00	39.16
MW - 1	08/25/10	101.96	-	62.80	0.00	39.16
MW - 1	08/31/10	101.96	-	62.84	0.00	39.12
MW - 1	09/08/10	101.96	-	62.81	0.00	39.15
MW - 1	09/15/10	101.96	-	62.84	0.00	39.12
MW - 1	09/21/10	101.96	-	62.26	0.00	39.70
MW - 1	09/28/10	101.96	-	62.53	0.00	39.43
MW - 1	10/05/10	101.96	-	62.41	0.00	39.55
MW - 1	10/12/10	101.96	-	62.85	0.00	39.11
MW - 1	10/19/10	101.96	-	62.90	0.00	39.06
MW - 1	10/27/10	101.96	-	62.86	0.00	39.10
MW - 1	11/02/10	101.96	-	62.82	0.00	39.14
MW - 1	11/09/10	101.96	-	62.83	0.00	39.13
MW - 1	11/16/10	101.96	-	62.69	0.00	39.27
MW - 1	11/23/10	101.96	-	62.84	0.00	39.12
MW - 1	11/29/10	101.96	-	62.84	0.00	39.12

**TABLE 1**  
**GROUNDWATER ELEVATION DATA - 2010**

**PLAINS MARKETING, L.P.**  
**DENTON STATION**  
**LEA COUNTY, NM**  
**NMOCD REFERENCE #1R-0234**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>TOP OF CASING ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
MW - 1	12/02/10	101.96	-	62.81	0.00	39.15
MW - 1	12/07/10	101.96	-	62.76	0.00	39.20
MW - 1	12/15/10	101.96	-	62.67	0.00	39.29
MW - 1	12/21/10	101.96	-	62.91	0.00	39.05
MW - 1	12/29/10	101.96	-	62.81	0.00	39.15
MW - 2	01/14/10	99.83	-	60.48	0.00	39.35
MW - 2	02/15/10	99.83	-	60.54	0.00	39.29
MW - 2	06/02/10	99.83	-	60.68	0.00	39.15
MW - 2	08/25/10	99.83	-	60.68	0.00	39.15
MW - 2	11/29/10	99.83	-	60.66	0.00	39.17
MW - 3	01/05/10	99.51	59.53	60.20	0.67	39.88
MW - 3	01/14/10	99.51	59.60	60.20	0.60	39.82
MW - 3	01/19/10	99.51	59.99	60.22	0.23	39.49
MW - 3	01/26/10	99.51	59.53	60.20	0.67	39.88
MW - 3	02/12/10	99.51	59.29	60.12	0.83	40.10
MW - 3	02/15/10	99.51	59.71	60.09	0.38	39.74
MW - 3	02/18/10	99.51	59.63	60.14	0.51	39.80
MW - 3	02/24/10	99.51	59.61	60.13	0.52	39.82
MW - 3	03/03/10	99.51	59.63	60.11	0.48	39.81
MW - 3	03/09/10	99.51	59.62	60.09	0.47	39.82
MW - 3	03/18/10	99.51	59.64	60.11	0.47	39.80
MW - 3	03/24/10	99.51	59.63	60.09	0.46	39.81
MW - 3	04/07/10	99.51	59.63	60.08	0.45	39.81
MW - 3	04/20/10	99.51	58.78	60.17	1.39	40.52
MW - 3	04/27/10	99.51	58.79	60.15	1.36	40.52
MW - 3	04/30/10	99.51	58.81	60.13	1.32	40.50
MW - 3	05/04/10	99.51	58.77	60.17	1.40	40.53
MW - 3	05/11/10	99.51	58.79	60.15	1.36	40.52
MW - 3	05/18/10	99.51	58.81	60.13	1.32	40.50
MW - 3	05/28/10	99.51	58.83	60.11	1.28	40.49
MW - 3	06/02/10	99.51	58.83	60.11	1.28	40.49
MW - 3	06/03/10	99.51	58.82	60.10	1.28	40.50
MW - 3	06/08/10	99.51	58.85	60.11	1.26	40.47
MW - 3	06/15/10	99.51	58.83	60.10	1.27	40.49
MW - 3	07/08/10	99.51	58.82	60.08	1.26	40.50
MW - 3	07/21/10	99.51	58.81	60.13	1.32	40.50
MW - 3	07/27/10	99.51	59.01	60.15	1.14	40.33
MW - 3	08/02/10	99.51	59.27	60.23	0.96	40.10
MW - 3	08/10/10	99.51	59.02	60.24	1.22	40.31
MW - 3	08/17/10	99.51	59.13	60.27	1.14	40.21
MW - 3	08/25/10	99.51	59.21	60.29	1.08	40.14
MW - 3	08/31/10	99.51	59.31	60.36	1.05	40.04
MW - 3	09/08/10	99.51	59.38	ND	#VALUE!	#VALUE!

**TABLE 1**  
**GROUNDWATER ELEVATION DATA - 2010**

**PLAINS MARKETING, L.P.**  
**DENTON STATION**  
**LEA COUNTY, NM**  
**NMOCD REFERENCE #1R-0234**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>TOP OF CASING ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
MW - 3	09/15/10	99.51	59.12	ND	#VALUE!	#VALUE!
MW - 3	09/21/10	99.51	59.00	ND	#VALUE!	#VALUE!
MW - 3	09/28/10	99.51	59.01	ND	#VALUE!	#VALUE!
MW - 3	10/05/10	99.51	58.95	ND	#VALUE!	#VALUE!
MW - 3	10/12/10	99.51	58.94	ND	#VALUE!	#VALUE!
MW - 3	10/19/10	99.51	58.99	ND	#VALUE!	#VALUE!
MW - 3	10/27/10	99.51	59.01	ND	#VALUE!	#VALUE!
MW - 3	11/02/10	99.51	59.21	ND	#VALUE!	#VALUE!
MW - 3	11/09/10	99.51	59.51	ND	#VALUE!	#VALUE!
MW - 3	11/16/10	99.51	59.61	ND	#VALUE!	#VALUE!
MW - 3	11/23/10	99.51	59.74	61.13	1.39	39.56
MW - 3	11/29/10	99.51	59.74	61.13	1.39	39.56
MW - 3	12/02/10	99.51	59.51	ND	#VALUE!	#VALUE!
MW - 3	12/07/10	99.51	59.57	ND	#VALUE!	#VALUE!
MW - 3	12/15/10	99.51	60.03	ND	#VALUE!	#VALUE!
MW - 3	12/21/10	99.51	59.01	ND	#VALUE!	#VALUE!
MW - 3	12/29/10	99.51	58.96	ND	#VALUE!	#VALUE!
MW - 4	01/05/10	98.25	-	60.45	0.00	37.80
MW - 4	01/14/10	98.25	-	60.46	0.00	37.79
MW - 4	01/19/10	98.25	-	60.45	0.00	37.80
MW - 4	01/26/10	98.25	-	60.49	0.00	37.76
MW - 4	02/12/10	98.25	-	60.49	0.00	37.76
MW - 4	02/15/10	98.25	-	60.49	0.00	37.76
MW - 4	02/18/10	98.25	-	60.52	0.00	37.73
MW - 4	02/24/10	98.25	-	60.53	0.00	37.72
MW - 4	03/03/10	98.25	-	60.51	0.00	37.74
MW - 4	03/09/10	98.25	-	60.49	0.00	37.76
MW - 4	03/18/10	98.25	-	60.47	0.00	37.78
MW - 4	03/24/10	98.25	-	60.45	0.00	37.80
MW - 4	04/07/10	98.25	-	60.43	0.00	37.82
MW - 4	04/20/10	98.25	-	60.60	0.00	37.65
MW - 4	04/27/10	98.25	-	60.61	0.00	37.64
MW - 4	04/30/10	98.25	-	60.62	0.00	37.63
MW - 4	05/04/10	98.25	-	60.60	0.00	37.65
MW - 4	05/11/10	98.25	-	60.63	0.00	37.62
MW - 4	05/18/10	98.25	-	60.61	0.00	37.64
MW - 4	05/28/10	98.25	-	60.63	0.00	37.62
MW - 4	06/02/10	98.25	-	60.63	0.00	37.62
MW - 4	06/03/10	98.25	-	60.65	0.00	37.60
MW - 4	06/08/10	98.25	-	60.63	0.00	37.62
MW - 4	06/15/10	98.25	-	60.65	0.00	37.60
MW - 4	07/08/10	98.25	-	60.68	0.00	37.57
MW - 4	07/21/10	98.25	-	60.69	0.00	37.56
MW - 4	07/27/10	98.25	-	59.67	0.00	38.58

**TABLE 1**  
**GROUNDWATER ELEVATION DATA - 2010**

**PLAINS MARKETING, L.P.**  
**DENTON STATION**  
**LEA COUNTY, NM**  
**NMOCD REFERENCE #1R-0234**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>TOP OF CASING ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
MW - 4	08/02/10	98.25	-	60.68	0.00	37.57
MW - 4	08/10/10	98.25	-	60.71	0.00	37.54
MW - 4	08/17/10	98.25	-	60.71	0.00	37.54
MW - 4	08/25/10	98.25	-	60.73	0.00	37.52
MW - 4	08/31/10	98.25	-	60.75	0.00	37.50
MW - 4	09/08/10	98.25	-	60.75	0.00	37.50
MW - 4	09/15/10	98.25	-	60.76	0.00	37.49
MW - 4	09/21/10	98.25	-	60.75	0.00	37.50
MW - 4	09/28/10	98.25	-	60.78	0.00	37.47
MW - 4	10/05/10	98.25	-	60.76	0.00	37.49
MW - 4	10/12/10	98.25	-	60.79	0.00	37.46
MW - 4	10/19/10	98.25	-	60.81	0.00	37.44
MW - 4	10/27/10	98.25	-	60.84	0.00	37.41
MW - 4	11/02/10	98.25	-	60.72	0.00	37.53
MW - 4	11/09/10	98.25	-	60.74	0.00	37.51
MW - 4	11/16/10	98.25	-	59.81	0.00	38.44
MW - 4	11/23/10	98.25	-	60.78	0.00	37.47
MW - 4	11/29/10	98.25	-	60.78	0.00	37.47
MW - 4	12/02/10	98.25	-	60.79	0.00	37.46
MW - 4	12/07/10	98.25	-	60.68	0.00	37.57
MW - 4	12/15/10	98.25	-	60.72	0.00	37.53
MW - 4	12/21/10	98.25	-	60.88	0.00	37.37
MW - 4	12/29/10	98.25	-	60.79	0.00	37.46
MW - 5	01/05/10	100.21	-	60.43	0.00	39.78
MW - 5	01/14/10	100.21	-	60.45	0.00	39.76
MW - 5	01/19/10	100.21	-	60.43	0.00	39.78
MW - 5	01/26/10	100.21	-	60.47	0.00	39.74
MW - 5	02/12/10	100.21	-	60.51	0.00	39.70
MW - 5	02/15/10	100.21	-	60.56	0.00	39.65
MW - 5	02/18/10	100.21	-	60.46	0.00	39.75
MW - 5	02/24/10	100.21	-	60.44	0.00	39.77
MW - 5	03/03/10	100.21	-	60.44	0.00	39.77
MW - 5	03/09/10	100.21	-	60.42	0.00	39.79
MW - 5	03/18/10	100.21	-	60.42	0.00	39.79
MW - 5	03/24/10	100.21	-	60.43	0.00	39.78
MW - 5	04/07/10	100.21	-	60.43	0.00	39.78
MW - 5	04/20/10	100.21	-	60.70	0.00	39.51
MW - 5	04/27/10	100.21	-	60.69	0.00	39.52
MW - 5	04/30/10	100.21	-	60.67	0.00	39.54
MW - 5	05/04/10	100.21	-	60.70	0.00	39.51
MW - 5	05/11/10	100.21	-	60.68	0.00	39.53
MW - 5	05/18/10	100.21	-	60.66	0.00	39.55
MW - 5	05/28/10	100.21	-	60.66	0.00	39.55
MW - 5	06/02/10	100.21	-	60.66	0.00	39.55

**TABLE 1**  
**GROUNDWATER ELEVATION DATA - 2010**

**PLAINS MARKETING, L.P.**  
**DENTON STATION**  
**LEA COUNTY, NM**  
**NMOCD REFERENCE #1R-0234**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>TOP OF CASING ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
MW - 5	06/03/10	100.21	-	60.70	0.00	39.51
MW - 5	06/08/10	100.21	-	60.69	0.00	39.52
MW - 5	06/15/10	100.21	-	60.67	0.00	39.54
MW - 5	07/08/10	100.21	-	60.66	0.00	39.55
MW - 5	07/21/10	100.21	-	60.88	0.00	39.33
MW - 5	07/27/10	100.21	-	60.65	0.00	39.56
MW - 5	08/02/10	100.21	-	60.78	0.00	39.43
MW - 5	08/10/10	100.21	-	60.78	0.00	39.43
MW - 5	08/17/10	100.21	-	60.73	0.00	39.48
MW - 5	08/25/10	100.21	-	60.72	0.00	39.49
MW - 5	08/31/10	100.21	-	60.78	0.00	39.43
MW - 5	09/08/10	100.21	-	60.80	0.00	39.41
MW - 5	09/15/10	100.21	-	60.78	0.00	39.43
MW - 5	09/21/10	100.21	-	59.72	0.00	40.49
MW - 5	09/28/10	100.21	-	60.12	0.00	40.09
MW - 5	10/05/10	100.21	-	60.94	0.00	39.27
MW - 5	10/12/10	100.21	-	60.81	0.00	39.40
MW - 5	10/19/10	100.21	-	60.77	0.00	39.44
MW - 5	10/27/10	100.21	-	60.69	0.00	39.52
MW - 5	11/02/10	100.21	-	60.76	0.00	39.45
MW - 5	11/09/10	100.21	-	62.41	0.00	37.80
MW - 5	11/16/10	100.21	-	60.82	0.00	39.39
MW - 5	11/23/10	100.21	-	60.82	0.00	39.39
MW - 5	11/29/10	100.21	-	60.82	0.00	39.39
MW - 5	12/02/10	100.21	-	60.81	0.00	39.40
MW - 5	12/07/10	100.21	-	60.82	0.00	39.39
MW - 5	12/15/10	100.21	-	60.82	0.00	39.39
MW - 5	12/21/10	100.21	-	59.61	0.00	40.60
MW - 5	12/29/10	100.21	-	60.76	0.00	39.45
MW - 6	01/05/10	99.81	-	62.12	0.00	37.69
MW - 6	01/14/10	99.81	-	62.13	0.00	37.68
MW - 6	01/19/10	99.81	-	62.12	0.00	37.69
MW - 6	01/26/10	99.81	-	62.15	0.00	37.66
MW - 6	02/12/10	99.81	-	62.17	0.00	37.64
MW - 6	02/15/10	99.81	-	62.19	0.00	37.62
MW - 6	02/18/10	99.81	-	62.15	0.00	37.66
MW - 6	02/24/10	99.81	-	62.16	0.00	37.65
MW - 6	03/03/10	99.81	-	61.14	0.00	38.67
MW - 6	03/09/10	99.81	-	61.15	0.00	38.66
MW - 6	03/18/10	99.81	-	61.18	0.00	38.63
MW - 6	03/24/10	99.81	-	61.20	0.00	38.61
MW - 6	04/07/10	99.81	-	61.24	0.00	38.57
MW - 6	04/20/10	99.81	-	62.27	0.00	37.54
MW - 6	04/27/10	99.81	-	62.29	0.00	37.52

**TABLE 1**  
**GROUNDWATER ELEVATION DATA - 2010**

**PLAINS MARKETING, L.P.**  
**DENTON STATION**  
**LEA COUNTY, NM**  
**NMOCD REFERENCE #1R-0234**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>TOP OF CASING ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
MW - 6	04/30/10	99.81	-	62.29	0.00	37.52
MW - 6	05/04/10	99.81	-	62.31	0.00	37.50
MW - 6	05/11/10	99.81	-	62.35	0.00	37.46
MW - 6	05/18/10	99.81	-	62.36	0.00	37.45
MW - 6	05/28/10	99.81	-	62.35	0.00	37.46
MW - 6	06/02/10	99.81	-	62.35	0.00	37.46
MW - 6	06/03/10	99.81	-	62.31	0.00	37.50
MW - 6	06/08/10	99.81	-	62.33	0.00	37.48
MW - 6	06/15/10	99.81	-	62.36	0.00	37.45
MW - 6	07/08/10	99.81	-	62.38	0.00	37.43
MW - 6	07/21/10	99.81	-	62.36	0.00	37.45
MW - 6	07/27/10	99.81	-	62.37	0.00	37.44
MW - 6	08/02/10	99.81	-	62.39	0.00	37.42
MW - 6	08/10/10	99.81	-	62.40	0.00	37.41
MW - 6	08/17/10	99.81	-	62.42	0.00	37.39
MW - 6	08/25/10	99.81	-	61.42	0.00	38.39
MW - 6	08/31/10	99.81	-	62.44	0.00	37.37
MW - 6	09/08/10	99.81	-	62.44	0.00	37.37
MW - 6	09/15/10	99.81	-	61.65	0.00	38.16
MW - 6	09/21/10	99.81	-	62.43	0.00	37.38
MW - 6	09/28/10	99.81	-	61.98	0.00	37.83
MW - 6	10/05/10	99.81	-	62.45	0.00	37.36
MW - 6	10/12/10	99.81	-	62.44	0.00	37.37
MW - 6	10/19/10	99.81	-	62.46	0.00	37.35
MW - 6	10/27/10	99.81	-	62.51	0.00	37.30
MW - 6	11/02/10	99.81	-	62.41	0.00	37.40
MW - 6	11/09/10	99.81	-	60.78	0.00	39.03
MW - 6	11/16/10	99.81	-	62.45	0.00	37.36
MW - 6	11/23/10	99.81	-	62.51	0.00	37.30
MW - 6	11/29/10	99.81	-	62.51	0.00	37.30
MW - 6	12/02/10	99.81	-	61.64	0.00	38.17
MW - 6	12/07/10	99.81	-	62.37	0.00	37.44
MW - 6	12/15/10	99.81	-	62.59	0.00	37.22
MW - 6	12/21/10	99.81	-	62.63	0.00	37.18
MW - 6	12/29/10	99.81	-	62.47	0.00	37.34
MW - 7	01/14/10	99.24	59.05	60.70	1.65	39.94
MW - 7	02/15/10	99.24	58.91	61.52	2.61	39.94
MW - 7	04/20/10	99.24	58.21	62.00	3.79	40.46
MW - 7	04/27/10	99.24	58.21	61.99	3.78	40.46
MW - 7	04/30/10	99.24	58.21	61.97	3.76	40.47
MW - 7	05/04/10	99.24	58.20	61.95	3.75	40.48
MW - 7	05/11/10	99.24	58.23	61.92	3.69	40.46
MW - 7	05/18/10	99.24	58.26	61.90	3.64	40.43
MW - 7	05/28/10	99.24	58.25	61.91	3.66	40.44

**TABLE 1**  
**GROUNDWATER ELEVATION DATA - 2010**

**PLAINS MARKETING, L.P.**  
**DENTON STATION**  
**LEA COUNTY, NM**  
**NMOC D REFERENCE #1R-0234**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>TOP OF CASING ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
MW - 7	06/02/10	99.24	58.25	61.91	3.66	40.44
MW - 7	06/03/10	99.24	58.28	61.91	3.63	40.42
MW - 7	06/08/10	99.24	58.30	61.93	3.63	40.40
MW - 7	06/15/10	99.24	58.29	61.94	3.65	40.40
MW - 7	07/08/10	99.24	58.29	61.92	3.63	40.41
MW - 7	07/21/10	99.24	58.62	63.96	5.34	39.82
MW - 7	07/27/10	99.24	59.47	59.97	0.50	39.70
MW - 7	08/02/10	99.24	59.49	59.83	0.34	39.70
MW - 7	08/10/10	99.24	59.46	59.95	0.49	39.71
MW - 7	08/17/10	99.24	59.50	59.91	0.41	39.68
MW - 7	08/25/10	99.24	59.55	59.91	0.36	39.64
MW - 7	08/31/10	99.24	59.55	59.96	0.41	39.63
MW - 7	09/08/10	99.24	59.51	59.86	0.35	39.68
MW - 7	09/15/10	99.24	59.51	60.16	0.65	39.63
MW - 7	09/21/10	99.24	59.50	60.24	0.74	39.63
MW - 7	09/28/10	99.24	59.48	60.21	0.73	39.65
MW - 7	10/05/10	99.24	59.45	60.48	1.03	39.64
MW - 7	10/12/10	99.24	59.43	60.71	1.28	39.62
MW - 7	10/19/10	99.24	59.47	60.82	1.35	39.57
MW - 7	10/27/10	99.24	59.52	60.86	1.34	39.52
MW - 7	11/02/10	99.24	59.47	60.22	0.75	39.66
MW - 7	11/09/10	99.24	61.03	61.51	0.48	38.14
MW - 7	11/16/10	99.24	59.84	60.55	0.71	39.29
MW - 7	11/23/10	99.24	59.57	60.35	0.78	39.55
MW - 7	11/29/10	99.24	59.57	60.35	0.78	39.55
MW - 7	12/02/10	99.24	59.48	60.22	0.74	39.65
MW - 7	12/07/10	99.24	59.52	60.06	0.54	39.64
MW - 7	12/15/10	99.24	58.57	60.73	2.16	40.35
MW - 7	12/21/10	99.24	59.58	60.41	0.83	39.54
MW - 7	12/29/10	99.24	59.45	60.65	1.20	39.61
MW - 8	01/14/10	99.24	-	61.34	0.00	37.90
MW - 8	02/15/10	99.24	-	61.37	0.00	37.87
MW - 8	06/02/10	99.24	-	61.50	0.00	37.74
MW - 8	08/25/10	99.24	-	61.51	0.00	37.73
MW - 8	11/29/10	99.24	-	61.53	0.00	37.71
MW - 9	01/14/10	98.66	-	60.34	0.00	38.32
MW - 9	02/15/10	98.66	-	60.38	0.00	38.28
MW - 9	06/02/10	98.66	-	60.50	0.00	38.16
MW - 9	08/25/10	98.66	-	60.53	0.00	38.13
MW - 9	11/29/10	98.66	-	60.52	0.00	38.14
MW - 10	01/14/10	98.20	-	58.59	0.00	39.61
MW - 10	02/15/10	98.20	-	60.58	0.00	37.62

**TABLE 1**  
**GROUNDWATER ELEVATION DATA - 2010**

**PLAINS MARKETING, L.P.**  
**DENTON STATION**  
**LEA COUNTY, NM**  
**NMOCD REFERENCE #1R-0234**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>TOP OF CASING ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
MW - 10	04/20/10	98.20	-	58.13	0.00	40.07
MW - 10	04/27/10	98.20	-	58.14	0.00	40.06
MW - 10	04/30/10	98.20	-	58.16	0.00	40.04
MW - 10	05/04/10	98.20	-	58.15	0.00	40.05
MW - 10	05/11/10	98.20	-	58.18	0.00	40.02
MW - 10	05/18/10	98.20	-	58.17	0.00	40.03
MW - 10	05/28/10	98.20	-	58.20	0.00	40.00
MW - 10	06/02/10	98.20	-	58.20	0.00	40.00
MW - 10	06/03/10	98.20	-	58.22	0.00	39.98
MW - 10	06/08/10	98.20	-	58.25	0.00	39.95
MW - 10	06/15/10	98.20	-	58.27	0.00	39.93
MW - 10	07/08/10	98.20	-	58.29	0.00	39.91
MW - 10	08/25/10	98.20	-	58.24	0.00	39.96
MW - 10	11/29/10	98.20	-	58.26	0.00	39.94
MW - 11	01/14/10	99.45	-	60.13	0.00	39.32
MW - 11	02/15/10	99.45	-	60.17	0.00	39.28
MW - 11	06/02/10	99.45	-	60.28	0.00	39.17
MW - 11	08/25/10	99.45	-	60.27	0.00	39.18
MW - 11	11/29/10	99.45	-	60.29	0.00	39.16
MW - 12	01/14/10	96.96	-	57.81	0.00	39.15
MW - 12	02/15/10	96.96	-	57.82	0.00	39.14
MW - 12	06/02/10	96.96	-	57.78	0.00	39.18
MW - 12	08/25/10	96.96	-	57.74	0.00	39.22
MW - 12	11/29/10	96.96	-	57.75	0.00	39.21
MW - 13	01/14/10	97.52	-	58.19	0.00	39.33
MW - 13	02/15/10	97.52	-	58.22	0.00	39.30
MW - 13	06/02/10	97.52	-	58.36	0.00	39.16
MW - 13	08/25/10	97.52	-	58.35	0.00	39.17
MW - 13	11/29/10	97.52	-	58.38	0.00	39.14
MW - 14	01/14/10	97.41	-	58.57	0.00	38.84
MW - 14	02/15/10	97.41	-	58.58	0.00	38.83
MW - 14	06/02/10	97.41	-	58.73	0.00	38.68
MW - 14	08/25/10	97.41	-	58.73	0.00	38.68
MW - 14	11/29/10	97.41	-	58.70	0.00	38.71
MW - 15	01/14/10	98.28	-	60.28	0.00	38.00
MW - 15	02/15/10	98.28	-	60.33	0.00	37.95
MW - 15	06/02/10	98.82	-	60.44	0.00	38.38
MW - 15	08/25/10	98.82	-	60.43	0.00	38.39
MW - 15	11/29/10	98.82	-	60.43	0.00	38.39



**TABLE 1**  
**GROUNDWATER ELEVATION DATA - 2010**

**PLAINS MARKETING, L.P.**  
**DENTON STATION**  
**LEA COUNTY, NM**  
**NMOCD REFERENCE #1R-0234**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>TOP OF CASING ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
MW - 16	01/14/10	96.04	-	57.53	0.00	38.51
MW - 16	02/15/10	96.04	-	57.54	0.00	38.50
MW - 16	06/02/10	96.04	-	57.67	0.00	38.37
MW - 16	08/25/10	96.04	-	57.69	0.00	38.35
MW - 16	11/29/10	96.04	-	57.71	0.00	38.33
MW - 17	01/05/10	-	60.75	61.09	0.34	-60.80
MW - 17	01/14/10	-	60.74	61.26	0.52	-60.82
MW - 17	01/19/10	-	60.70	61.28	0.58	-60.79
MW - 17	01/26/10	-	60.79	61.15	0.36	-60.84
MW - 17	02/12/10	-	60.73	61.50	0.77	-60.85
MW - 17	02/12/10	-	62.31	62.82	0.51	-62.39
MW - 17	02/15/10	-	60.83	61.06	0.23	-60.86
MW - 17	02/18/10	-	60.81	61.15	0.34	-60.86
MW - 17	02/24/10	-	60.80	61.16	0.36	-60.85
MW - 17	03/03/10	-	60.82	61.15	0.33	-60.87
MW - 17	03/09/10	-	60.83	61.14	0.31	-60.88
MW - 17	03/18/10	-	60.81	61.15	0.34	-60.86
MW - 17	03/24/10	-	60.83	61.14	0.31	-60.88
MW - 17	04/07/10	-	60.82	61.17	0.35	-60.87
MW - 17	04/20/10	-	58.84	62.71	3.87	-59.42
MW - 17	04/27/10	-	58.82	62.68	3.86	-59.40
MW - 17	04/30/10	-	58.84	62.66	3.82	-59.41
MW - 17	05/04/10	-	58.81	62.66	3.85	-59.39
MW - 17	05/11/10	-	58.85	62.64	3.79	-59.42
MW - 17	05/18/10	-	58.87	62.64	3.77	-59.44
MW - 17	05/28/10	-	58.90	62.62	3.72	-59.46
MW - 17	06/02/10	-	58.90	62.62	3.72	-59.46
MW - 17	06/03/10	-	58.92	62.64	3.72	-59.48
MW - 17	06/08/10	-	58.94	62.62	3.68	-59.49
MW - 17	06/15/10	-	58.93	62.64	3.71	-59.49
MW - 17	07/08/10	-	58.96	62.63	3.67	-59.51
MW - 17	07/21/10	-	60.55	63.40	2.85	-60.98
MW - 17	07/27/10	-	60.99	61.55	0.56	-61.07
MW - 17	08/02/10	-	61.01	61.32	0.31	-61.06
MW - 17	08/10/10	-	61.01	61.51	0.50	-61.09
MW - 17	08/17/10	-	61.04	61.39	0.35	-61.09
MW - 17	08/25/10	-	61.05	61.43	0.38	-61.11
MW - 17	08/31/10	-	61.07	61.41	0.34	-61.12
MW - 17	09/08/10	-	61.04	61.47	0.43	-61.10
MW - 17	09/15/10	-	61.00	61.55	0.55	-61.08
MW - 17	09/21/10	-	60.98	61.82	0.84	-61.11
MW - 17	09/28/10	-	61.01	61.64	0.63	-61.10
MW - 17	10/05/10	-	61.01	61.75	0.74	-61.12
MW - 17	10/12/10	-	60.99	61.92	0.93	-61.13

**TABLE 1**  
**GROUNDWATER ELEVATION DATA - 2010**

**PLAINS MARKETING, L.P.**  
**DENTON STATION**  
**LEA COUNTY, NM**  
**NMOCD REFERENCE #1R-0234**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>TOP OF CASING ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
MW - 17	10/19/10	-	61.00	62.03	1.03	-61.15
MW - 17	10/27/10	-	60.98	62.07	1.09	-61.14
MW - 17	11/02/10	-	61.05	61.63	0.58	-61.14
MW - 17	11/09/10	-	59.49	59.95	0.46	-59.56
MW - 17	11/16/10	-	60.93	61.59	0.66	-61.03
MW - 17	11/23/10	-	61.05	61.88	0.83	-61.17
MW - 17	11/29/10	-	61.05	61.88	0.83	-61.17
MW - 17	12/02/10	-	61.01	61.64	0.63	-61.10
MW - 17	12/07/10	-	61.07	61.63	0.56	-61.15
MW - 17	12/15/10	-	60.50	62.96	2.46	-60.87
MW - 17	12/21/10	-	61.06	61.99	0.93	-61.20
MW - 17	12/29/10	-	60.93	61.87	0.94	-61.07
WW - 1	01/14/10	100.16	61.15	61.52	0.37	38.95
WW - 1	02/15/10	100.16	61.13	61.62	0.49	38.96
WW - 1	03/03/10	100.16	61.19	61.55	0.36	38.92
WW - 1	03/09/10	100.16	61.22	61.57	0.35	38.89
WW - 1	03/18/10	100.16	61.20	61.62	0.42	38.90
WW - 1	03/24/10	100.16	61.18	61.65	0.47	38.91
WW - 1	04/07/10	100.16	61.15	61.66	0.51	38.93
WW - 1	04/20/10	100.16	61.22	61.65	0.43	38.88
WW - 1	04/27/10	100.16	61.24	61.68	0.44	38.85
WW - 1	04/30/10	100.16	61.25	61.67	0.42	38.85
WW - 1	05/04/10	100.16	61.26	61.70	0.44	38.83
WW - 1	05/11/10	100.16	61.24	61.71	0.47	38.85
WW - 1	05/18/10	100.16	61.26	61.73	0.47	38.83
WW - 1	05/28/10	100.16	61.29	61.79	0.50	38.80
WW - 1	06/02/10	100.16	61.29	61.79	0.50	38.80
WW - 1	06/03/10	100.16	61.28	61.80	0.52	38.80
WW - 1	06/08/10	100.16	61.31	61.82	0.51	38.77
WW - 1	06/15/10	100.16	61.28	61.84	0.56	38.80
WW - 1	07/08/10	100.16	61.29	61.82	0.53	38.79
WW - 1	07/21/10	100.16	61.28	61.99	0.71	38.77
WW - 1	07/27/10	100.16	61.39	61.42	0.03	38.77
WW - 1	08/02/10	100.16	61.39	61.41	0.02	38.77
WW - 1	08/10/10	100.16	62.42	62.43	0.01	37.74
WW - 1	08/17/10	100.16	-	61.41	0.00	38.75
WW - 1	08/25/10	100.16	61.42	61.44	0.02	38.74
WW - 1	08/31/10	100.16	-	61.45	0.00	38.71
WW - 1	09/08/10	100.16	-	61.45	0.00	38.71
WW - 1	09/15/10	100.16	-	61.44	0.00	38.72
WW - 1	09/21/10	100.16	-	61.45	0.00	38.71
WW - 1	09/28/10	100.16	-	61.42	0.00	38.74
WW - 1	10/05/10	100.16	62.45	62.67	0.22	37.68
WW - 1	10/12/10	100.16	61.46	61.68	0.22	38.67

**TABLE 1**  
**GROUNDWATER ELEVATION DATA - 2010**

**PLAINS MARKETING, L.P.**  
**DENTON STATION**  
**LEA COUNTY, NM**  
**NMOCD REFERENCE #1R-0234**

<b>WELL NUMBER</b>	<b>DATE MEASURED</b>	<b>TOP OF CASING ELEVATION</b>	<b>DEPTH TO PRODUCT</b>	<b>DEPTH TO WATER</b>	<b>PSH THICKNESS</b>	<b>CORRECTED GROUNDWATER ELEVATION</b>
WW - 1	10/19/10	100.16	61.41	61.67	0.26	38.71
WW - 1	10/27/10	100.16	61.40	61.63	0.23	38.73
WW - 1	11/02/10	100.16	61.46	61.54	0.08	38.69
WW - 1	11/09/10	100.16	61.38	61.43	0.05	38.77
WW - 1	11/16/10	100.16	61.62	61.68	0.06	38.53
WW - 1	11/23/10	100.16	61.41	61.46	0.05	38.74
WW - 1	11/29/10	100.16	61.41	61.46	0.05	38.74
WW - 1	12/02/10	100.16	61.47	61.49	0.02	38.69
WW - 1	12/07/10	100.16	62.46	62.49	0.03	37.70
WW - 1	12/15/10	100.16	61.36	61.45	0.09	38.79
WW - 1	12/21/10	100.16	61.56	61.60	0.04	38.59
WW - 1	12/29/10	100.16	61.52	61.57	0.05	38.63

\* Complete Historical data Tables are presented on the attached CD.

\*\* ND - Depth to water not detected

TABLE 2

## CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
DENTON STATION  
LEA COUNTY, NM  
NMOCD REFERENCE #1R-0234

All concentrations are reported in mg/L

		METHODS: SW 846-8260b				
SAMPLE LOCATION	SAMPLE DATE			ETHYL-	m, p -	o -
		BENZENE	TOLUENE	BENZENE	XYLENES	XYLENE
NMOCD Regulatory Limit		0.01	0.75	0.75	0.62	
MW - 1	02/15/10	1.090	<0.010	0.086	0.181	
MW - 1	06/02/10	1.300	<0.010	0.098	0.134	
MW - 1	08/25/10	1.040	<0.050	0.0594	0.0699	
MW - 1	11/29/10	1.500	<0.050	0.1900	<0.050	
MW - 2	02/15/10	<0.001	<0.001	<0.001	<0.001	
MW - 2	06/02/10	<0.001	<0.001	<0.001	<0.001	
MW - 2	08/25/10	<0.001	<0.001	<0.001	<0.001	
MW - 2	11/29/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/15/10	Not Sampled Due to PSH in Well				
MW - 3	06/02/10	Not Sampled Due to PSH in Well				
MW - 3	08/25/10	Not Sampled Due to PSH in Well				
MW - 3	11/29/10	Not Sampled Due to PSH in Well				
MW - 4	02/15/10	0.632	<0.010	0.0751	0.890	
MW - 4	06/02/10	0.618	<0.010	0.0426	0.0587	
MW - 4	08/25/10	0.714	<0.005	0.0301	0.0285	
MW - 4	11/29/10	0.642	<0.005	0.0323	0.0463	
MW - 5	02/15/10	0.569	0.1520	0.420	1.180	
MW - 5	06/02/10	0.620	0.2340	0.370	1.060	
MW - 5	08/25/10	0.741	0.1000	0.413	0.943	
MW - 5	11/29/10	0.755	0.3040	0.497	1.360	
MW - 6	02/15/10	0.1280	<0.001	0.0147	0.0100	
MW - 6	06/02/10	0.1440	<0.001	0.0157	0.0075	
MW - 6	08/25/10	0.0895	<0.001	0.0058	0.0065	
MW - 6	11/29/10	0.0482	<0.001	0.0061	<0.001	
MW - 7	02/15/10	Not Sampled Due to PSH in Well				
MW - 7	06/02/10	Not Sampled Due to PSH in Well				
MW - 7	08/25/10	Not Sampled Due to PSH in Well				
MW - 7	11/29/10	Not Sampled Due to PSH in Well				
MW - 8	02/15/10	<0.001	<0.001	<0.001	0.005	
MW - 8	06/02/10	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/25/10	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/29/10	<0.001	<0.001	<0.001	<0.001	

TABLE 2

## CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
DENTON STATION  
LEA COUNTY, NM  
NMOCD REFERENCE #1R-0234

*All concentrations are reported in mg/L*

		METHODS: SW 846-8260b				
SAMPLE LOCATION	SAMPLE DATE			ETHYL-	m, p -	o -
		BENZENE	TOLUENE	BENZENE	XYLENES	XYLENE
NMOCD Regulatory Limit		0.01	0.75	0.75	0.62	
MW - 9	02/15/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	06/02/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/25/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/29/10	<0.001	<0.001	<0.001	<0.001	
MW - 10	02/15/10	0.519	<0.010	0.0542	<0.010	
MW - 10	06/02/10	0.338	<0.010	0.0279	<0.010	
MW - 10	08/25/10	0.344	<0.010	0.0234	<0.010	
MW - 10	11/29/10	0.210	<0.010	<0.010	<0.010	
MW - 11	02/15/10	<0.001	<0.001	<0.001	<0.001	
MW - 11	06/02/10	<0.001	<0.001	<0.001	<0.001	
MW - 11	08/25/10	<0.001	<0.001	<0.001	<0.001	
MW - 11	11/29/10	<0.001	<0.001	<0.001	<0.001	
MW - 12	02/15/10	0.002	<0.001	<0.001	<0.001	
MW - 12	06/02/10	<0.001	<0.001	<0.001	<0.001	
MW - 12	08/25/10	<0.001	<0.001	<0.001	<0.001	
MW - 12	11/29/10	<0.001	<0.001	<0.001	<0.001	
MW - 13	02/15/10	<0.001	<0.001	<0.001	<0.001	
MW - 13	06/02/10	<0.001	<0.001	<0.001	<0.001	
MW - 13	08/25/10	<0.001	<0.001	<0.001	<0.001	
MW - 13	11/29/10	<0.001	<0.001	<0.001	<0.001	
MW - 14	02/15/10	<0.001	<0.001	<0.001	<0.001	
MW - 14	06/02/10	<0.001	<0.001	<0.001	<0.001	
MW - 14	08/25/10	<0.001	<0.001	<0.001	<0.001	
MW - 14	11/29/10	<0.001	<0.001	<0.001	<0.001	
MW - 15	02/15/10	<0.001	<0.001	<0.001	<0.001	
MW - 15	06/02/10	<0.001	<0.001	<0.001	<0.001	
MW - 15	08/25/10	<0.001	<0.001	<0.001	<0.001	
MW - 15	11/29/10	<0.001	<0.001	<0.001	<0.001	
MW - 16	02/15/10	<0.001	<0.001	<0.001	<0.001	
MW - 16	06/02/10	<0.001	<0.001	<0.001	<0.001	
MW - 16	08/25/10	<0.001	<0.001	<0.001	<0.001	
MW - 16	11/29/10	<0.001	<0.001	<0.001	<0.001	

TABLE 2

## CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
DENTON STATION  
LEA COUNTY, NM  
NMOCD REFERENCE #1R-0234

*All concentrations are reported in mg/L*

		METHODS: SW 846-8260b				
SAMPLE LOCATION	SAMPLE DATE			ETHYL-	m, p -	o -
		BENZENE	TOLUENE	BENZENE	XYLENES	XYLENE
NMOCD Regulatory Limit		0.01	0.75	0.75	0.62	
MW - 17	02/15/10	Not Sampled Due to PSH in Well				
MW - 17	06/02/10	Not Sampled Due to PSH in Well				
MW - 17	08/25/10	Not Sampled Due to PSH in Well				
MW - 17	11/29/10	Not Sampled Due to PSH in Well				
WW - 1	02/15/10	Not Sampled Due to PSH in Well				
WW - 1	06/02/10	Not Sampled Due to PSH in Well				
WW - 1	08/25/10	Not Sampled Due to PSH in Well				
WW - 1	11/29/10	Not Sampled Due to PSH in Well				

\* Complete Historical data Tables are presented on the attached CD.

# POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
DENTON STATION  
LEA COUNTY, NEW MEXICO  
NMOCID REFERENCE NUMBER #IR-0234

*All water concentrations are reported in mg/L*

EPA SW846-8270C, 3510																						
SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benzol[a]anthracene	Benzol[a]pyrene	Benzol[b]fluoranthene	Benzol[g,h,i]perylene	Benzol[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	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.		—	—	—	0.0001 mg/L	0.0007 mg/L	0.0002 mg/L	—	0.0002 mg/L	0.0002 mg/L	0.0003 mg/L	—	0.0004 mg/L	—	—	0.03 mg/L	—	—	—			
	MW-1	12/11/08	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	0.0849	<0.000922	0.135	0.397	0.529	0.024			
		12/03/09	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.0356	<0.000917	0.0776	0.204	0.286	0.00956			
		11/29/10	INSUFFICIENT WATER VOLUME TO SAMPLE																			
	MW-2	12/11/08	<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			
	12/03/09	<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				
	11/29/10	Not Sampled as part of Quarterly Monitoring Event.																				
MW-3	12/11/08	INSUFFICIENT WATER VOLUME TO SAMPLE																				
	12/03/09	INSUFFICIENT WATER VOLUME TO SAMPLE																				
	11/29/10	Not Sampled as part of Quarterly Monitoring Event.																				
MW-4	12/11/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.001	<0.000185	0.00565	0.00523	0.00331	0.00141			
	12/03/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000405	<0.000184	0.00532	0.00272	0.00179	0.000877			
	11/29/10	Not Sampled as part of Quarterly Monitoring Event.																				
MW-5	12/11/08	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.115	<0.000917	0.376	0.949	1.26	0.041			
	12/03/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00328	<0.000184	0.0305	0.0414	0.0374	0.00208			
	11/29/10	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	0.00625	<0.000186	0.0484	0.0498	0.0617	0.0029			
MW-6	12/11/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.0006	<0.000184	0.00187	0.00275	0.00193	0.00128			
	12/03/09	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.00871	<0.000183	0.0102	0.0428	0.0553	0.00305			
	11/29/10	<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	0.00213	0.000871	0.000671	0.000781			
MW-7	12/11/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.0367	<0.000183	0.147	0.265	0.339	0.0153			
	12/03/09	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.149	<0.000917	0.416	1.04	1.43	0.0663			
	11/29/10	Not Sampled as part of Quarterly Monitoring Event.																				

TABLE 3

## POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
DENTON STATION  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER #1R-0234

All water concentrations are reported in mg/L

SAMPLE LOCATION		SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[ghi]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	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.			—	—	—	0.0001 mg/L	0.0007 mg/L	0.0002 mg/L	—	0.0002 mg/L	0.0002 mg/L	0.0003 mg/L	—	0.0004 mg/L	—	—	—	0.03 mg/L			—
MW-8	12/11/08		<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
	12/03/09		<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	
	11/29/10		Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	12/11/08		<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	
	12/03/09		<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	
	11/29/10		Not Sampled as part of Quarterly Monitoring Event.																		
MW-10	12/11/08		<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
	12/03/09		<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	
	11/29/10		Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	12/11/08		<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	
	12/03/09		<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	
	11/29/10		Not Sampled as part of Quarterly Monitoring Event.																		
MW-12	12/11/08		<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	
	12/03/09		<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	
	11/29/10		Not Sampled as part of Quarterly Monitoring Event.																		
MW-13	12/11/08		<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	
	12/03/09		<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	
	11/29/10		Not Sampled as part of Quarterly Monitoring Event.																		

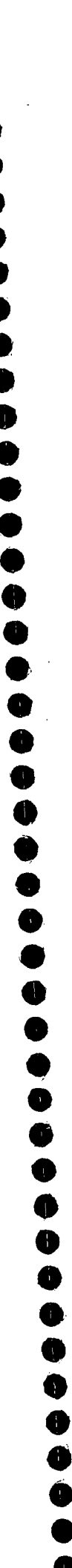


POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
DENTON STATION  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER #1R-0234

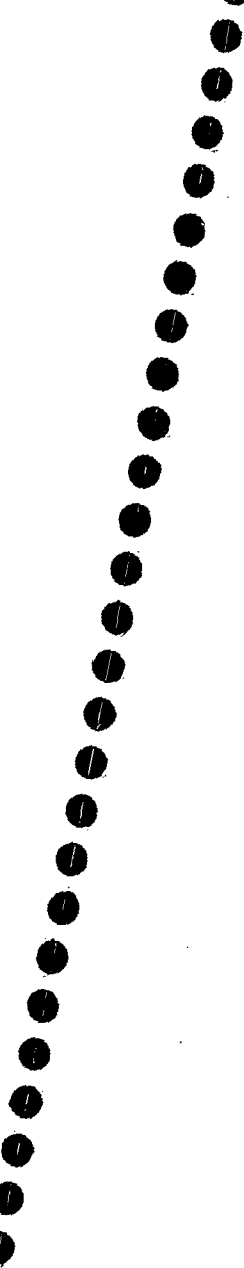
*All water concentrations are reported in mg/L*

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## Appendices

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



**Form C-141**  
**Not Available for this Site**