

AP - 9

ANNUAL MONITORING REPORT

YEAR(S):
2009



2009
ANNUAL MONITORING REPORT

RECEIVED

MAR 25 2010

Environmental Bureau
Oil Conservation Division

HDO-90-23

NE ¼, NW ¼, SECTION 6, TOWNSHIP 20 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
PLAINS SRS NUMBER: HDO-90-23
NMOCD REFERENCE AP-009

PREPARED FOR:


PLAINS MARKETING, L.P.
333 Clay Street, Suite 1600
Houston, Texas 77002

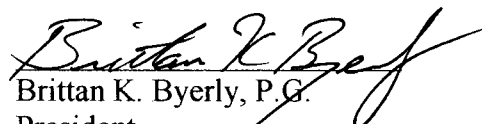


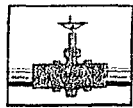
PREPARED BY:

NOVA Safety and Environmental
2057 Commerce Street
Midland, Texas 79703

March 2010


Ronald K. Rounsaville
Senior Project Manager


Brittan K. Byerly, P.G.
President



PLAINS ALL AMERICAN

March 22, 2010

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

RECEIVED

MAR 25 2010
Environmental Bureau
Oil Conservation Division

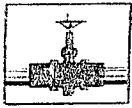
Re: Plains All American – 2009 Annual Monitoring Reports
12 Sites in Lea County, New Mexico

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
SPS-11	GW-0140	Section 18, Township 18 South, Range 36 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

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



PLAINS
ALL AMERICAN

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

Sincerely,

Jason Henry
Remediation Coordinator
Plains All American

RECEIVED

MAR 25 2000
Environmental Bureau
Oil Conservation Division

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

TABLE OF CONTENTS

INTRODUCTION.....	1
SITE DESCRIPTION AND BACKGROUND INFORMATION	1
FIELD ACTIVITIES.....	2
LABORATORY RESULTS.....	3
SUMMARY.....	7
ANTICIPATED ACTIONS	7
LIMITATIONS	7
DISTRIBUTION.....	9

FIGURES

Figure 1 – Site Location Map

Figure 2A – Inferred Groundwater Gradient Map – February 4-5, 2009

2B – Inferred Groundwater Gradient Map – May 8, 2009

2C – Inferred Groundwater Gradient Map – August 5, 2009

2D – Inferred Groundwater Gradient Map – November 16, 2009

Figure 3A – Groundwater Concentration and Inferred PSH Extent Map – February 4-5, 2009

3B – Groundwater Concentration and Inferred PSH Extent Map – May 8, 2009

3C – Groundwater Concentration and Inferred PSH Extent Map – August 5, 2009

3D – Groundwater Concentrations and Inferred PSH Extent Map – November 16, 2009

TABLES

Table 1 – 2009 Groundwater Elevation Data

Table 2 – 2009 Concentrations of BTEX and TPH in Groundwater

Table 3 – 2009 Concentrations of PAH in Groundwater

APPENDICES

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

ENCLOSED ON DATA DISK

2009 Annual Monitoring Report

2009 Tables 1, 2 and 3 – Groundwater Elevation, BTEX, TPH and PAH Concentration Data

2009 Figures 1, 2A-2D, and 3A-3D

Electronic Copies of Laboratory Reports

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

INTRODUCTION

On behalf of Plains Marketing, L.P. (Plains), NOVA Safety and Environmental (NOVA) is pleased to submit this Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. Beginning on May 29, 2004, project management responsibilities were assumed by NOVA. The HDO-90-23 Site, which was formally the responsibility of Texas New Mexico Pipeline Company (TNM), is now the responsibility of Plains. This report is intended to be viewed as a complete document with text, figures, tables and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2009 only. However, historic data tables as well as 2009 laboratory analytical reports are provided on the enclosed data disk. A Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2009 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbon (PSH). Each groundwater monitoring event consisted of measuring static water levels in monitor wells, checking for the presence of PSH on the water column and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing a thickness of PSH greater than 0.01 foot were sampled as per a NMOCD directive.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The site is located in the NE 1/4 of the NW 1/4 of Section 6, Township 20 South, Range 37 East in Lea County. The HDO 90-23 release was discovered by TNM personnel and reported on March 27, 1990. According to the release report, an estimated 750 barrels of crude oil were released and 550 barrels were recovered. The release occurred from a 14-inch Texas-New Mexico Pipeline Company (TNM) pipeline and was attributed to structural failure associated with internal pipeline corrosion. Limited excavation occurred around the release point to repair the pipeline. The Release Notification and Corrective Action (Form C-141) is provided as Appendix A.

In February 1998, nine soil borings were advanced and five monitoring wells were installed by a previous contractor to assess the subsurface conditions. In September 1999, three additional monitor wells were installed. In the fall of 2002, monitor wells MW-9 through MW-15 were installed. In November 2004, NOVA installed two additional monitor wells (MW-16 and MW-17) to further delineate the southeast extent of the dissolved phase plume.

On August 9, 2005, NOVA personnel discovered and documented a leaking produced water pipeline approximately 100 feet north of monitor well MW-3. The leaking pipeline was reported to NMOCD, Hobbs District Office on the same day. The pipeline was identified as a Mar Oil and Gas (MAR) Pipeline. A MAR employee was successful in closing an off site valve to stop the produced water flow. On August 12, 2005, MAR employees began limited excavation surrounding monitor well MW-3, stockpiling the soil on site. Since the activities of August 2005, the excavated soil has been stockpiled on site.

In February 2007, NOVA personnel discovered and documented a crude oil release approximately 500 feet northwest of monitor well MW-15. The release was associated with a production pump jack operated by MAR and to date this release has not been remediated.

On November 12, 2009, NOVA personnel advanced five soil borings in the vicinity of monitor wells MW-6, MW-2 and RW-1 and RW-2 to determine current soil concentration conditions. A report documenting the Soil Investigation Activities will be submitted to the NMOCD under separate cover in the 1st quarter of 2010.

Currently, thirteen groundwater monitor wells (MW-2 through MW-6, MW-8, MW-9 and MW-12 through MW-17) and two product recovery wells (RW-1 and RW-2) are onsite.

FIELD ACTIVITIES

Product Recovery Efforts

A measurable thickness of PSH was detected in monitor well MW-6 during the 2009 annual reporting period. A maximum PSH thickness of 1.43 feet in monitor well MW-6 was recorded on September 25, 2009 and is shown on Table 1. The average thickness of PSH in monitor well MW-6 during 2009 was 1.10 feet. Approximately twenty gallons of PSH were recovered from the site during the 2009 reporting period. Approximately 823 gallons (19.6 barrels) of PSH have been recovered through automated and manual recovery methods since project inception.

Groundwater Monitoring

Quarterly monitoring events for the reporting period were performed according to the following sampling schedule, which was approved by the NMOCD in correspondence dated April 28, 2004 and amended by NMOCD correspondence dated June 21, 2005.

NMOCD Approved Sampling Schedule	
MW-1	Plugged and Abandoned
MW-2	Quarterly
MW-3	Quarterly
MW-4	Semi-Annually
MW-5	Semi-Annually
MW-6	Quarterly
MW-7	Plugged and Abandoned
MW-8	Annually
MW-9	Quarterly
MW-10	Plugged and Abandoned
MW-11	Plugged and Abandoned
MW-12	Quarterly
MW-13	Quarterly
MW-14	Quarterly
MW-15	Quarterly
MW-16	Quarterly
MW-17	Quarterly

The site monitor wells were gauged and sampled on February 4-5, May 8, August 5, and November 16, 2009. During each sampling event, sampled monitor wells were purged 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 utilizing measurements collected during the four quarterly monitoring events, are depicted on Figures 2A through 2D. Groundwater elevation data for 2009 is provided as Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.003 feet/foot to the southeast as measured between monitor wells MW-4 and MW-9. This is consistent with data presented on Figures 2A through 2C from earlier in the year. The corrected groundwater elevation has ranged between 3,418.96 and 3,423.49 feet above mean sea level, in monitor well MW-17 on November 16, 2009 and recovery well RW-2 on October 2, 2009.

LABORATORY RESULTS

Groundwater samples obtained during the quarterly sampling events of 2009 were delivered to TraceAnalysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethyl-benzene and Xylene (BTEX) constituent concentrations by EPA Method 8021B, and Polynuclear Aromatic Hydrocarbons (PAH) concentrations by EPA Method 8270C. Monitoring wells containing measurable amounts of PSH were analyzed for Total Petroleum Hydrocarbons (TPH) concentrations by EPA Method 8015M. A listing of BTEX and TPH constituent concentrations for 2009 are summarized in Table 2 and the PAH constituent concentrations for 2009 are summarized in Table 3. Copies of the laboratory reports generated for 2009 are provided on the enclosed data disk. The quarterly groundwater sample results for BTEX constituent concentrations are depicted on Figures 3A through 3D. Plains, at the request of the NMOCD, collected groundwater samples below PSH levels in all monitor wells containing PSH.

Monitor well MW-2 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 1.66 mg/L during the 3rd quarter to 1.98 mg/L during the 2nd and 4th quarters of 2009. Benzene concentrations were above the NMOCD regulatory standard of 0.01 mg/L during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards of 0.75 mg/L during all four quarters of 2009. Ethyl-benzene concentrations ranged from 0.446 mg/L during the 3rd quarter to 0.745 mg/L during the 1st quarter of 2009. Ethyl-benzene concentrations were below the NMOCD regulatory standards of 0.75 mg/L during all four quarters of the reporting period. Xylene concentrations ranged from <0.100 mg/L during the 4th quarter to 0.2010 mg/L during the 2nd quarter of the reporting period. Xylene concentrations were below the NMOCD regulatory standards of 0.62 mg/L during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.0480 mg/L), 1-methylnaphthalene (0.123 mg/L) and 2-methylnaphthalene (0.0744 mg/L). Additional PAH constituents detected above MDLs include fluorine (0.0112 mg/L), phenanthrene (0.0182 mg/L) and dibenzofuran (0.0128 mg/L), which are below WQCC standards.

Monitor well MW-3 is sampled on a quarterly schedule and was not sampled during the 3rd quarter sampling event due to pooling rainwater surrounding the well. Analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 4th quarter to 0.0084 mg/L during the 2nd quarter of 2009. Benzene concentrations were below NMOCD regulatory standards during the 1st, 2nd and 4th quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during the 1st, 2nd and 4th quarters of the reporting period. Ethyl-benzene concentrations ranged from <0.001 mg/L during the 1st and 4th quarters to 0.0676 mg/L during the 2nd quarter of 2009. Ethyl-benzene concentrations were below NMOCD regulatory standards during the 1st, 2nd and 4th quarters of the reporting period. Xylene concentrations were below the MDL and NMOCD regulatory standards during the 1st, 2nd and 4th quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above MDLs for dibenzofuran (0.00209 mg/L) and phenanthrene (0.000825 mg/L), which are below WQCC standards.

Monitor well MW-4 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 2nd and 4th quarter sampling events. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-nine consecutive quarters. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-5 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each BTEX constituent during the 2nd and 4th quarter sampling events. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last eighteen consecutive quarters. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-6 is monitored on a quarterly schedule. Monitor well MW-6 was not sampled during the 1st, 2nd and 3rd quarters of the reporting period, due to the presence of PSH in the monitor well. PSH thicknesses of 1.30 feet, 0.76 feet and 1.12 feet were reported during the 1st, 2nd and 3rd quarters of 2009, respectively. Benzene concentrations were above the NMOCD regulatory standards during the 4th quarter of the reporting period with a concentration of 1.560 mg/L. Toluene concentrations were below the NMOCD regulatory standards during the 4th quarter of the reporting period with a concentration of 0.497 mg/L. Ethyl-benzene concentrations were above the NMOCD regulatory standards during the 4th quarter of the reporting period with a concentration of 0.891 mg/L. Xylene concentrations were above the NMOCD regulatory standards during the 4th quarter of the reporting period with a concentration of 1.35 mg/L. Analytical results indicated a total TPH result of 510.0 mg/L. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.0599 mg/L), 1-methylnaphthalene (0.118 mg/L) and 2-methylnaphthalene (0.0957 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.0083 mg/L), phenanthrene (0.0124 mg/L) and dibenzofuran (0.0102 mg/L), which are below WQCC standards.

Monitor well MW-8 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each

BTEX constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last thirty-six consecutive quarters. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

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 2009. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-nine consecutive quarters. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-12 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 2009. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-nine consecutive quarters. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

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 2009. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last nineteen consecutive quarters. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-14 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0017 mg/L during the 4th quarter to 0.0065 mg/L during the 2nd quarter of 2009. Benzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations ranged from <0.001 mg/L during the 2nd, 3rd and 4th quarters to 0.0015 mg/L during the 1st quarter of 2009. Toluene concentrations were below the NMOCD regulatory standards during all four quarters of 2009. Ethyl-benzene concentrations ranged from 0.0092 mg/L during the 3rd quarter to 0.1260 mg/L during the 1st quarter of 2009. Ethyl-benzene concentrations were below the NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 2nd, 3rd and 4th quarters to 0.0183 mg/L during the 1st quarter of the reporting period. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-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 2009. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above MDLs for fluorene (0.000553 mg/L), phenanthrene (0.000870 mg/L) and dibenzofuran (0.00176 mg/L), which are below WQCC standards, which are below WQCC standards.

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 2009. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-one consecutive quarters. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-17 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 2009. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty consecutive quarters. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Recovery well RW-1 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.505 mg/L during the 1st quarter to 0.823 mg/L during the 2nd quarter of 2009. Benzene concentrations were above NMOCD regulatory standards all four quarters of the reporting period. Toluene concentrations ranged from <0.005 mg/L during the 2nd and 4th quarters to 0.0190 mg/L during the 3rd quarter of 2009. Toluene concentrations were below the NMOCD regulatory standards during all four quarters of the reporting period. Ethyl-benzene concentrations ranged from 0.0176 mg/L during the 4th quarter to 0.416 mg/L during the 2nd quarter of 2009. Ethyl-benzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.005 mg/L during the 4th quarter to 0.120 mg/L during the 2nd quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above MDLs for naphthalene (0.00607 mg/L), 1-methylnaphthalene (0.00394 mg/L), 2-methylnaphthalene (0.00125 mg/L) and dibenzofuran (0.000618 mg/L), which are below WQCC standards.

Recovery well RW-2 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0472 mg/L during the 1st quarter to 0.368 mg/L during the 3rd quarter of 2009. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory standards during all four quarters of the reporting period. Ethyl-benzene concentrations ranged from 0.0035 mg/L during the 1st quarter to 0.0449 mg/L during the 2nd quarter of 2009. Ethyl-benzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 1st quarter to 0.0424 mg/L during the 2nd quarter of 2009. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

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 annual monitoring period of 2009. Currently, there are thirteen groundwater monitor wells (MW-2 through MW-6, MW-8, MW-9 and MW-12 through MW-17) and two recovery wells (RW-1 and RW-2) on-site. The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.003 feet/foot to the southeast.

Monitor well MW-6 contained PSH and was not sampled during the 1st, 2nd and 3rd quarters of the reporting period. The average thickness of PSH in monitor and recovery wells containing PSH during 2009 was 1.10 feet.

Approximately twenty gallons of PSH were recovered from the site during the 2009 reporting period. Approximately 803 gallons (19.6 barrels) of PSH have been recovered through automated and manual recovery methods since project inception.

Review of laboratory analytical results generated from analysis of the groundwater samples obtained during the 2009 monitoring period indicates BTEX constituent concentrations are below NMOCD regulatory standards in eleven of the thirteen monitor wells and two recovery wells. Groundwater samples from monitor well MW-6 exhibited elevated TPH concentrations for GRO and DRO. Review of PAH analysis indicates a slight increasing trend in constituent concentrations in monitor well MW-15 and a decreasing trend in monitor wells MW-2, MW-3, MW-6 and MW-14 and recovery wells RW-1 and RW-2.

ANTICIPATED ACTIONS

Quarterly groundwater monitoring, sampling and manual bi-weekly PSH recovery will continue in 2010. An Annual Monitoring Report will be submitted to the NMOCD by April 1, 2011. Plains received approval from the NMOCD to modify the sampling schedule for monitor wells MW-9 to be sampled on a semi-annual schedule and for MW-16 to be sampled on an annual schedule.

Based on the results of the PAH analysis over the past several years, NOVA recommends that further PAH analysis be conducted only on those monitor wells (MW-2, MW-6, MW-15 and recovery well RW-1) 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
- Copy 2: Larry Johnson
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1625 French Drive
Hobbs, NM 88240
- Copy 3: Jason Henry
Plains Marketing, L.P.
2530 State Highway 214
Denver City, TX 79323
jhenry@paalp.com
- Copy 4: Jeff Dann
Plains Marketing, L.P.
333 Clay Street
Suite 1600
Houston, TX 77002
jpdann@paalp.com
- Copy 5: NOVA Safety and Environmental
2057 Commerce Street
Midland, TX 79703
rrounsaville@novatraining.cc

Figures

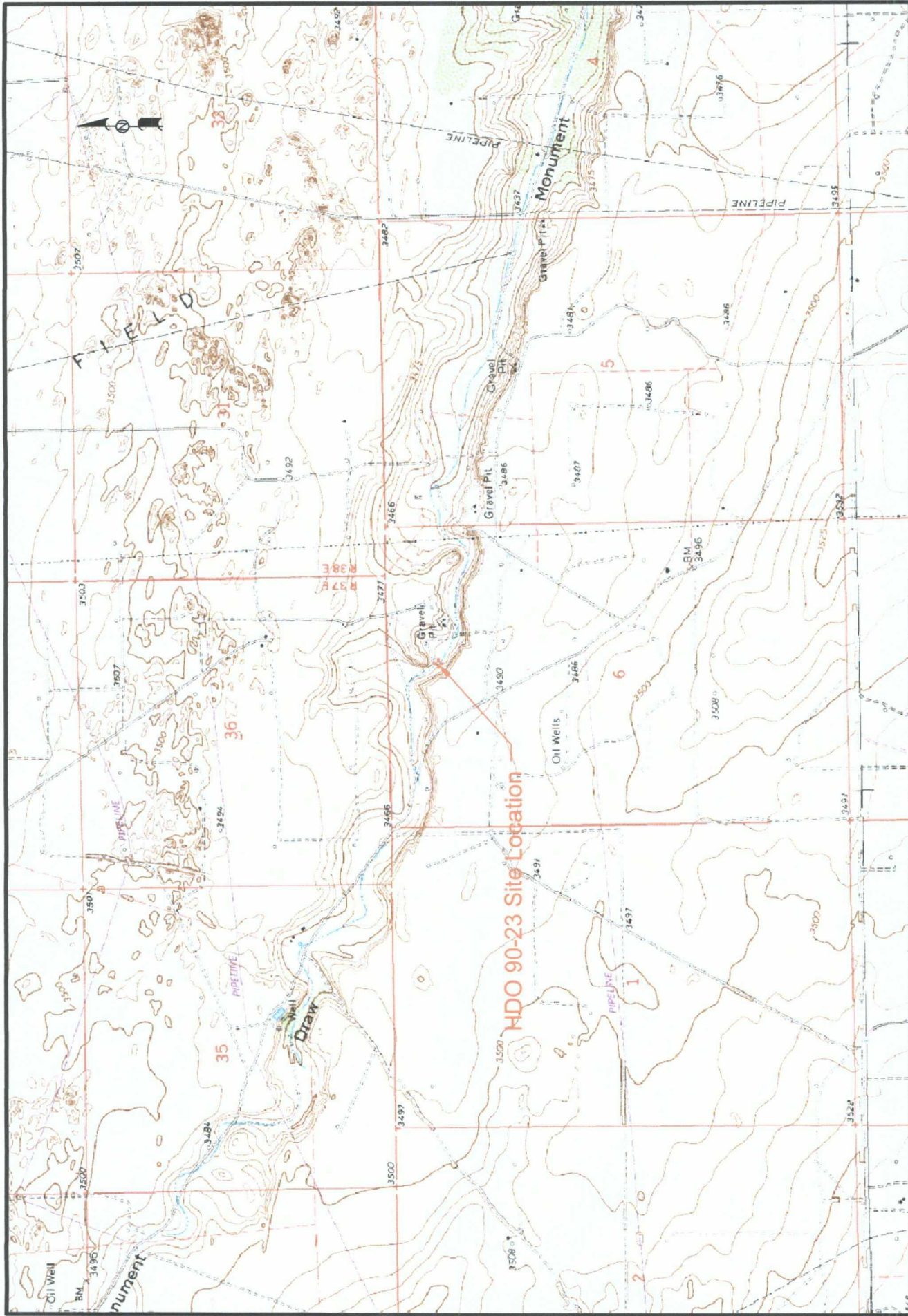


Figure 1
Site Location Map

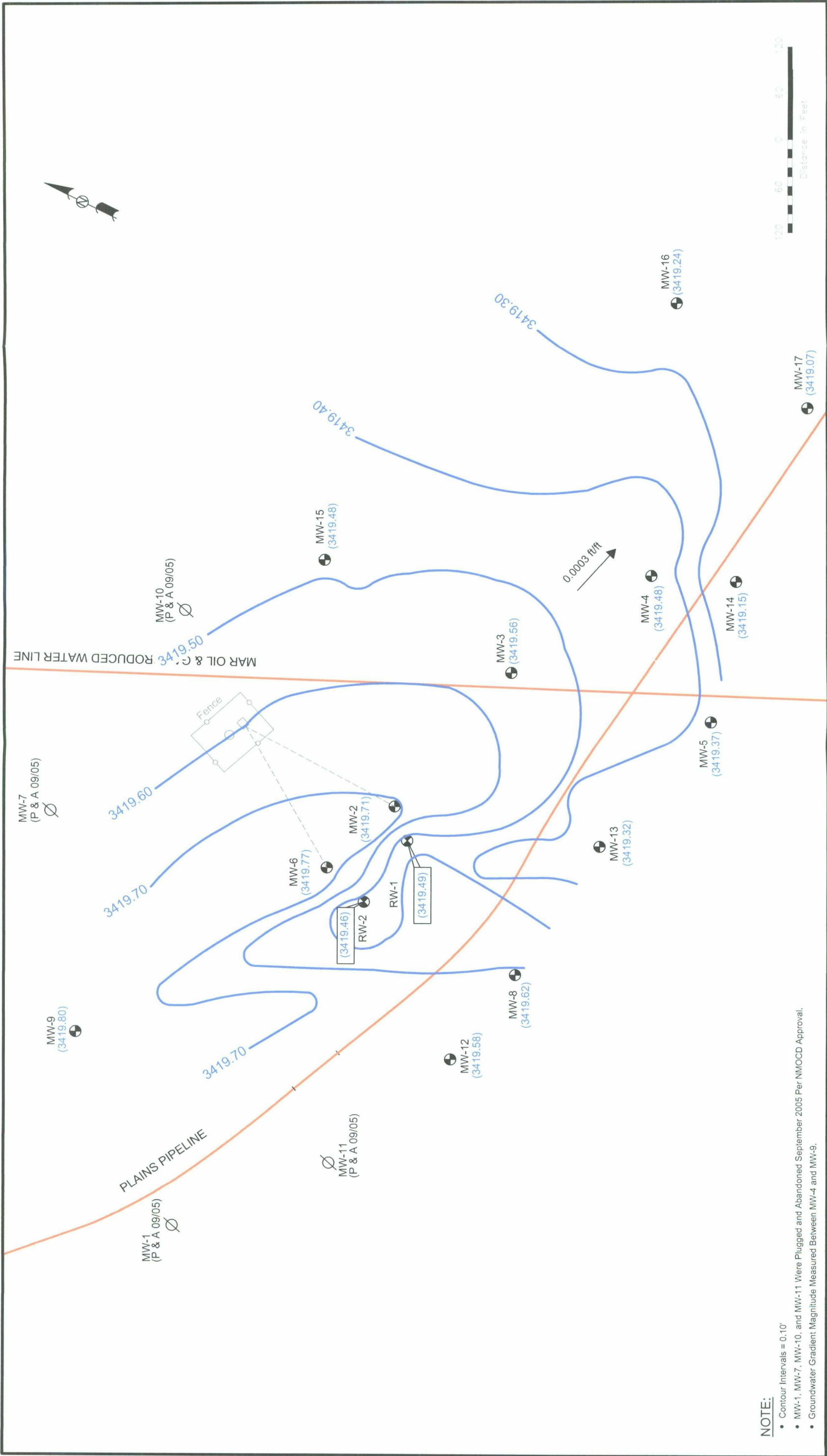
NOVA Safety and Environmental

Plains Marketing, L.P.
HDO 90-23
Lea County, NM

NMOCD Reference # AP-009



NE1/4 NW1/4 Sec 6 T20S R37E	February 20, 2005
Scale: NTS	Prep By: CDS
	Checked By: TKC



NOTE:

- Contour Intervals = 0.10'
- MW-1, MW-7, MW-10, and MW-11 Were Plugged and Abandoned September 2005 Per NMOCD Approval.
- Groundwater Gradient Magnitude Measured Between MW-4 and MW-9.

LEGEND:

- Monitor Well Location
- Recovery Well Location
- Pipeline
- Groundwater Elevation Contour
- Groundwater Elevation in feet
- Inferred Groundwater Gradient and Magnitude

Figure 2A
Inferred Groundwater
Gradient Map
(02/04/09) thru (02/05/09)
Plains Marketing, L.P.
HDO 90-23
Lea County, NM

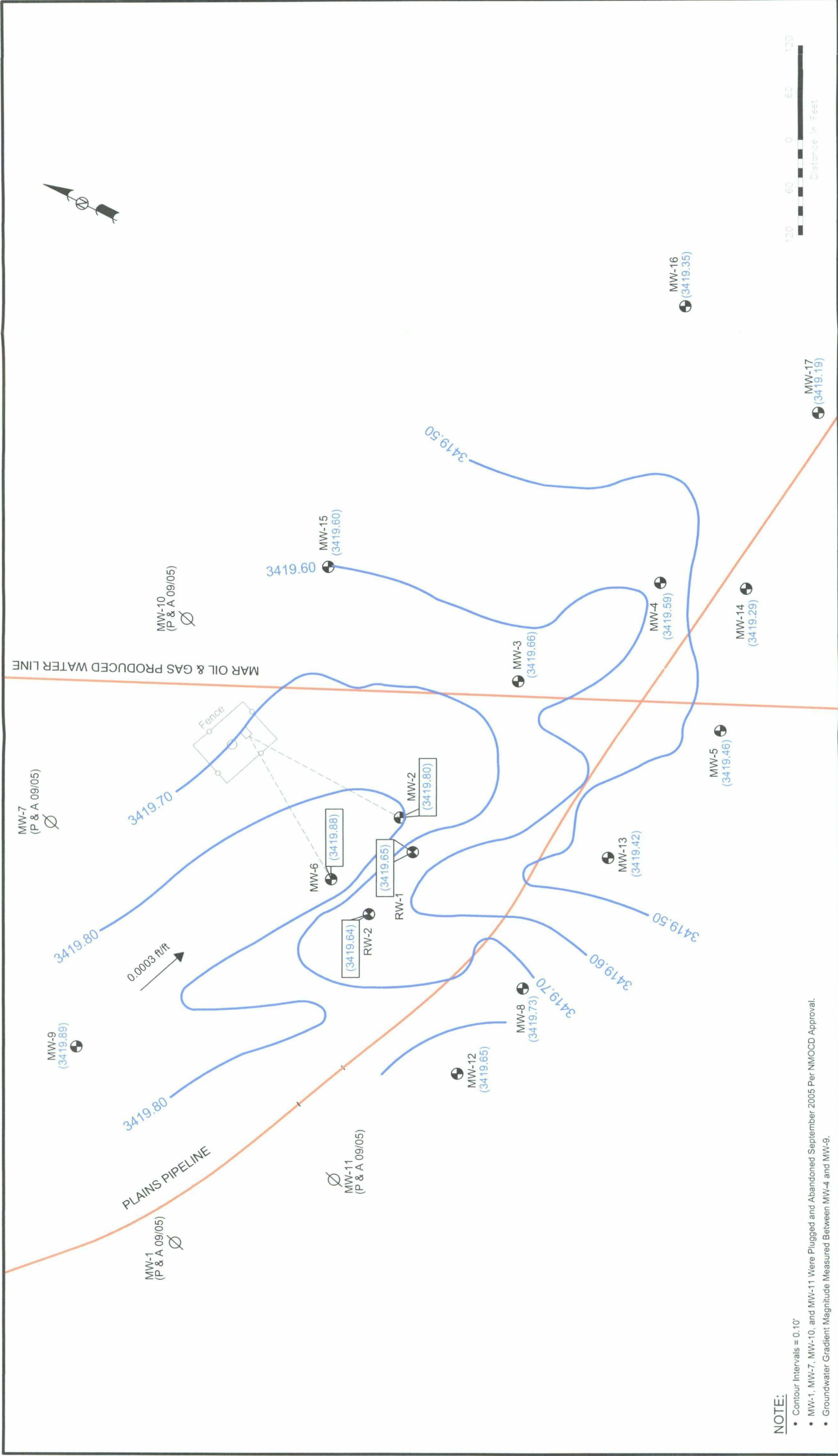
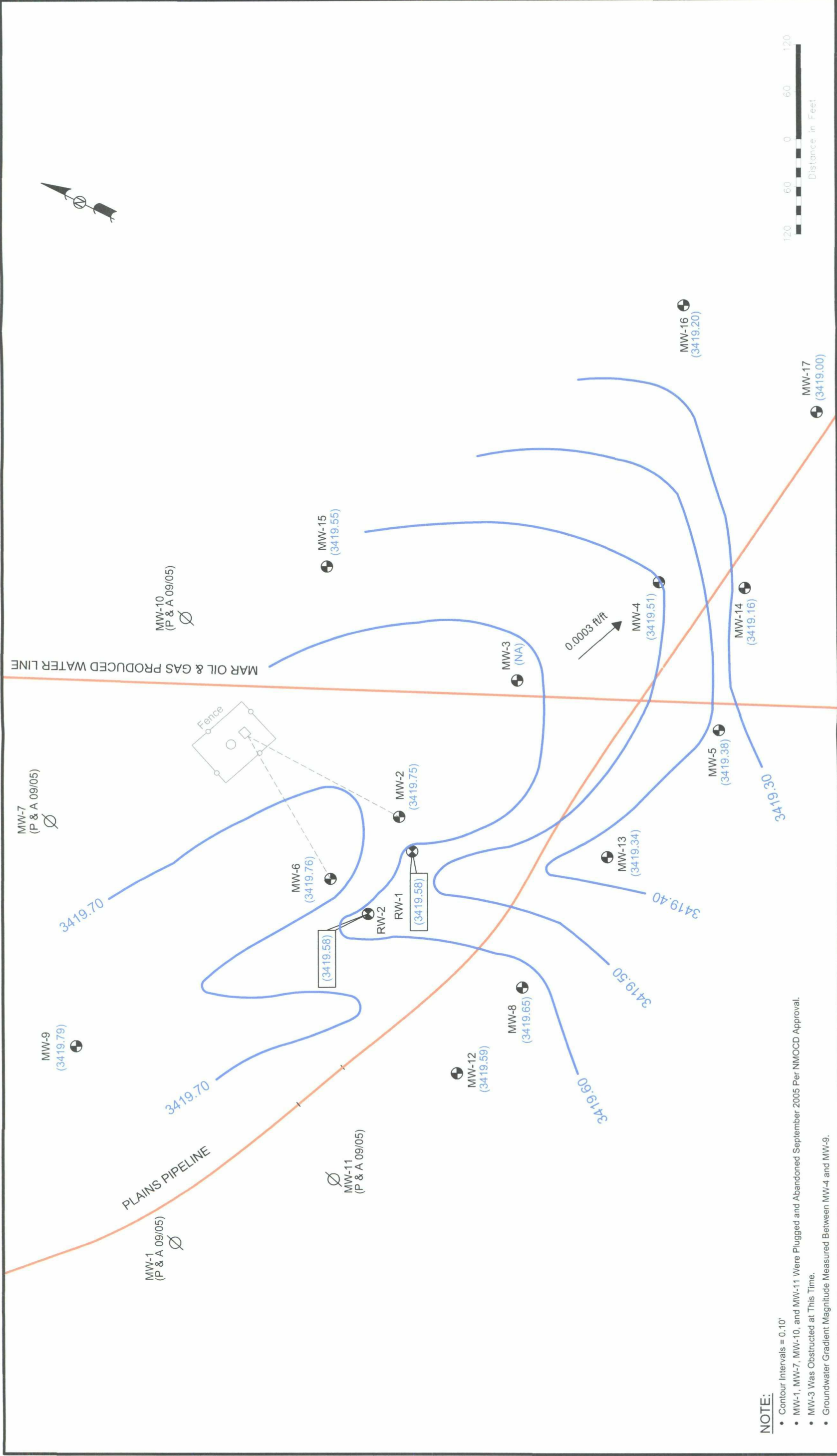


Figure 2B
Inferred Groundwater
Gradient Map
(05/08/09)
Plains Marketing, L.P.
HDO 90-23
Lea County, NM

NOVA Safety and Environmental

NOVA
safety and environmental

Scale: 1" = 120'	Prep By: SAT	Checked By: RKR
August 28, 2009		



NOTE:

- Contour Intervals = 0.10'
- MW-1, MW-7, MW-10, and MW-11 Were Plugged and Abandoned September 2005 Per NMOCDD Approval.
- MW-3 Was Obstructed at This Time.
- Groundwater Gradient Magnitude Measured Between MW-4 and MW-9.

LEGEND:

- Monitor Well Location
- Recovery Well Location
- Pipeline
- Groundwater Elevation Contour
- 0.007 ft / ft Inferred Groundwater Gradient and Magnitude
- (3418.72) Groundwater Elevation in feet

Figure 2C
Inferred Groundwater
Gradient Map
(08/05/09)
Plains Marketing, L.P.
HDO 90-23
Lea County, NM

NOVA Safety and Environmental



Scale: 1" = 120'	Prep By: SAT	Checked By: RKR
October 16, 2009		

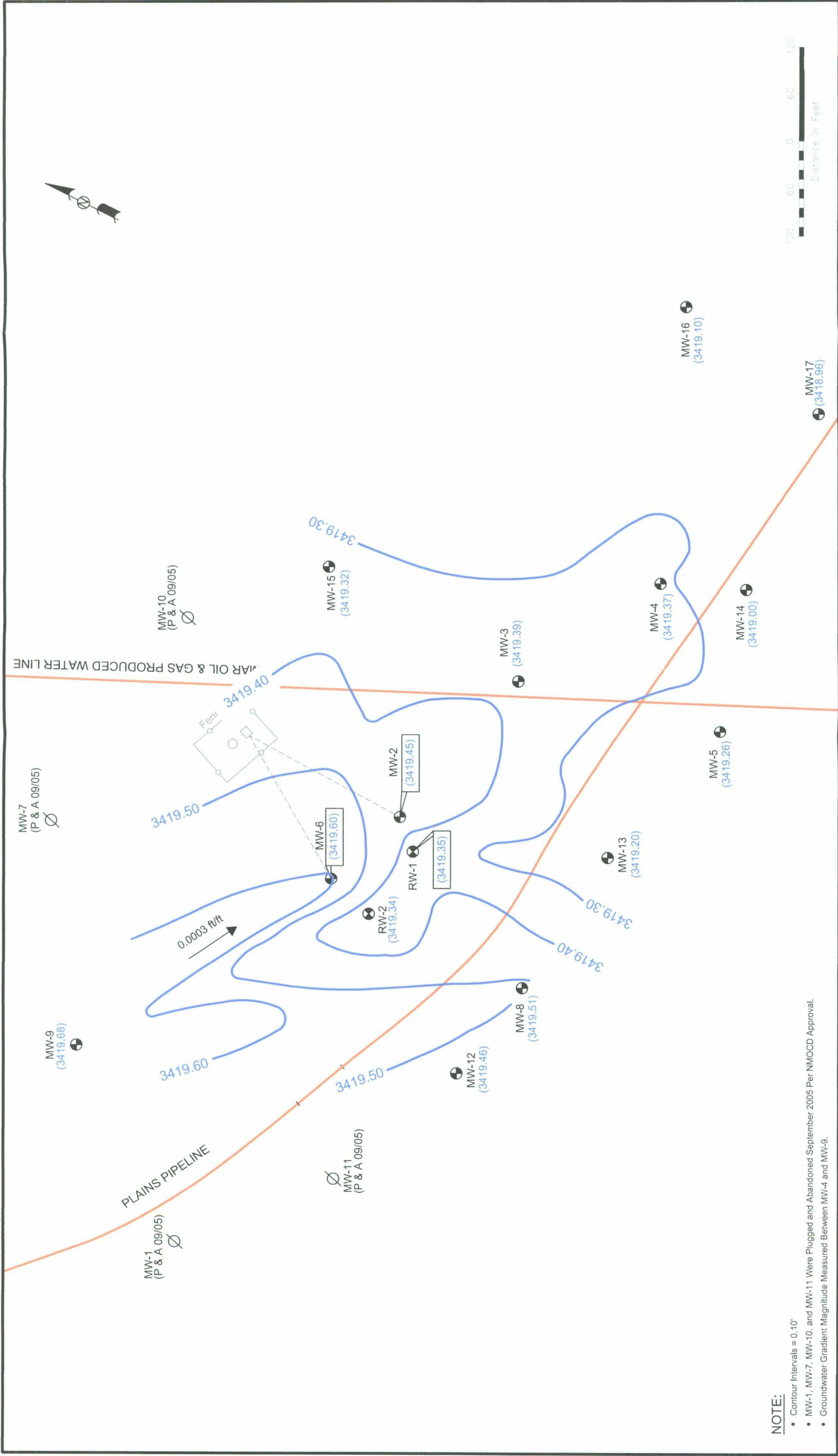
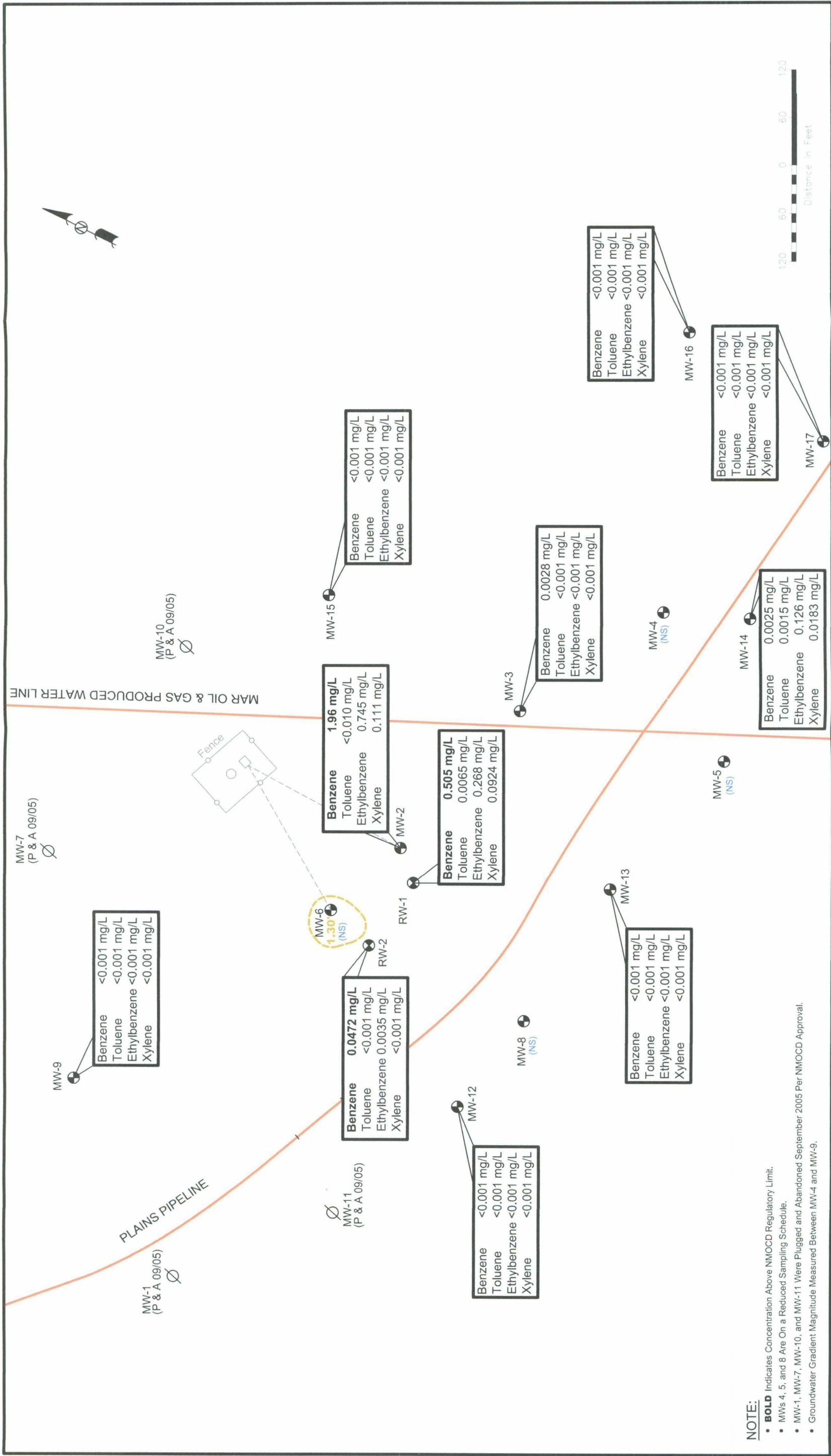


Figure 2D
Inferred Groundwater
Gradient Map
(11/16/09)
Plains Marketing, L.P.
HDO 90-23
Lea County, NM

NOVA Safety and Environmental

Scale: 1" = 120'
Prep By: SAT
Checked By: RKR
December 27, 2009



NOTE:

- **BOLD** Indicates Concentration Above NMOCD Regulatory Limit.
- MWs 4, 5, and 8 Are On a Reduced Sampling Schedule.
- MW-1, MW-7, MW-10, and MW-11 Were Plugged and Abandoned September 2005 Per NMOCD Approval.
- Groundwater Gradient Magnitude Measured Between MW-4 and MW-9.

LEGEND:

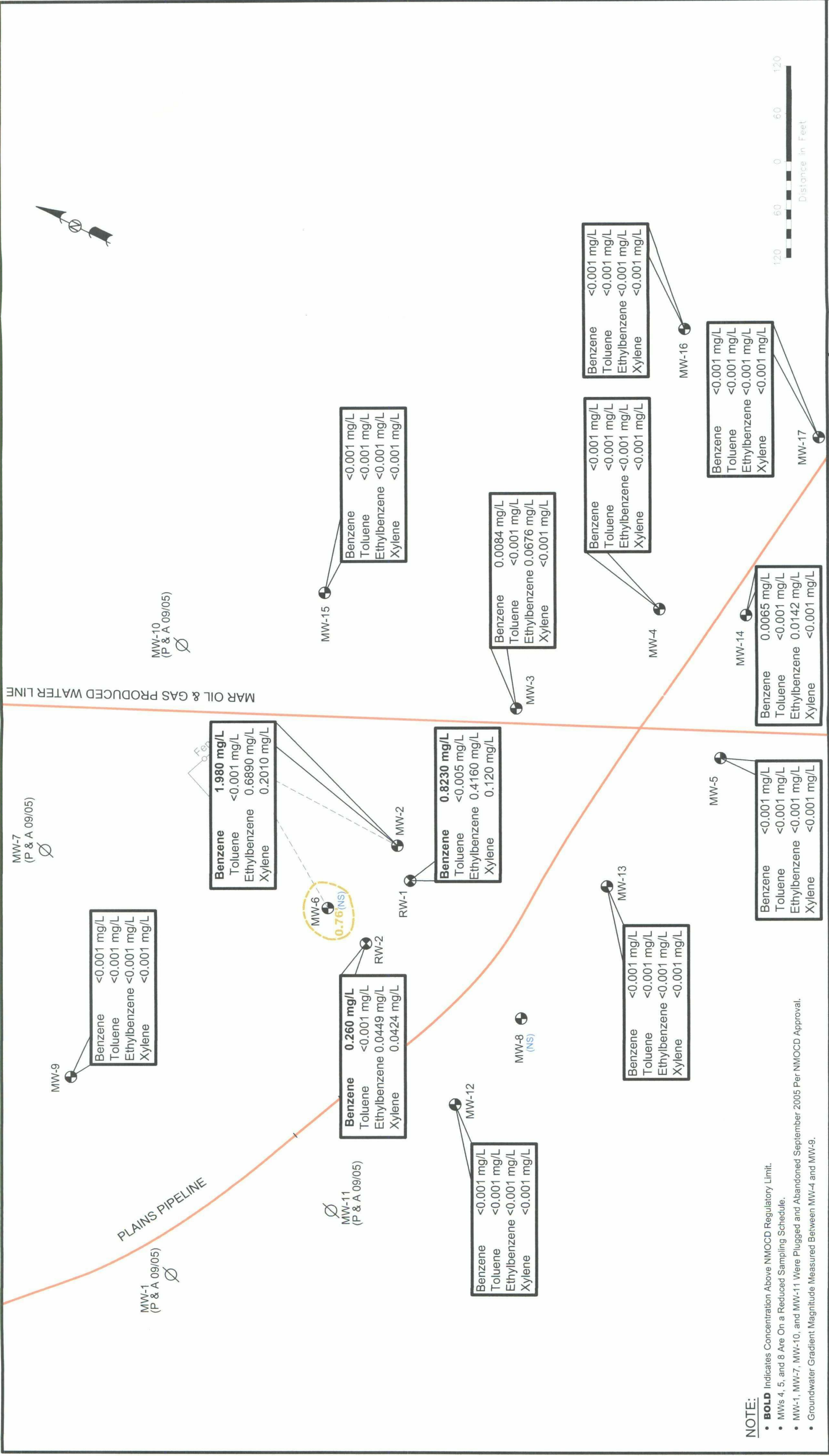
- Monitor Well Location
- Recovery Well Location
- Pipeline
- Inferred PSH Extent
- (NS) Not Sampled
- <0.001 Constituent Concentration (mg/L)

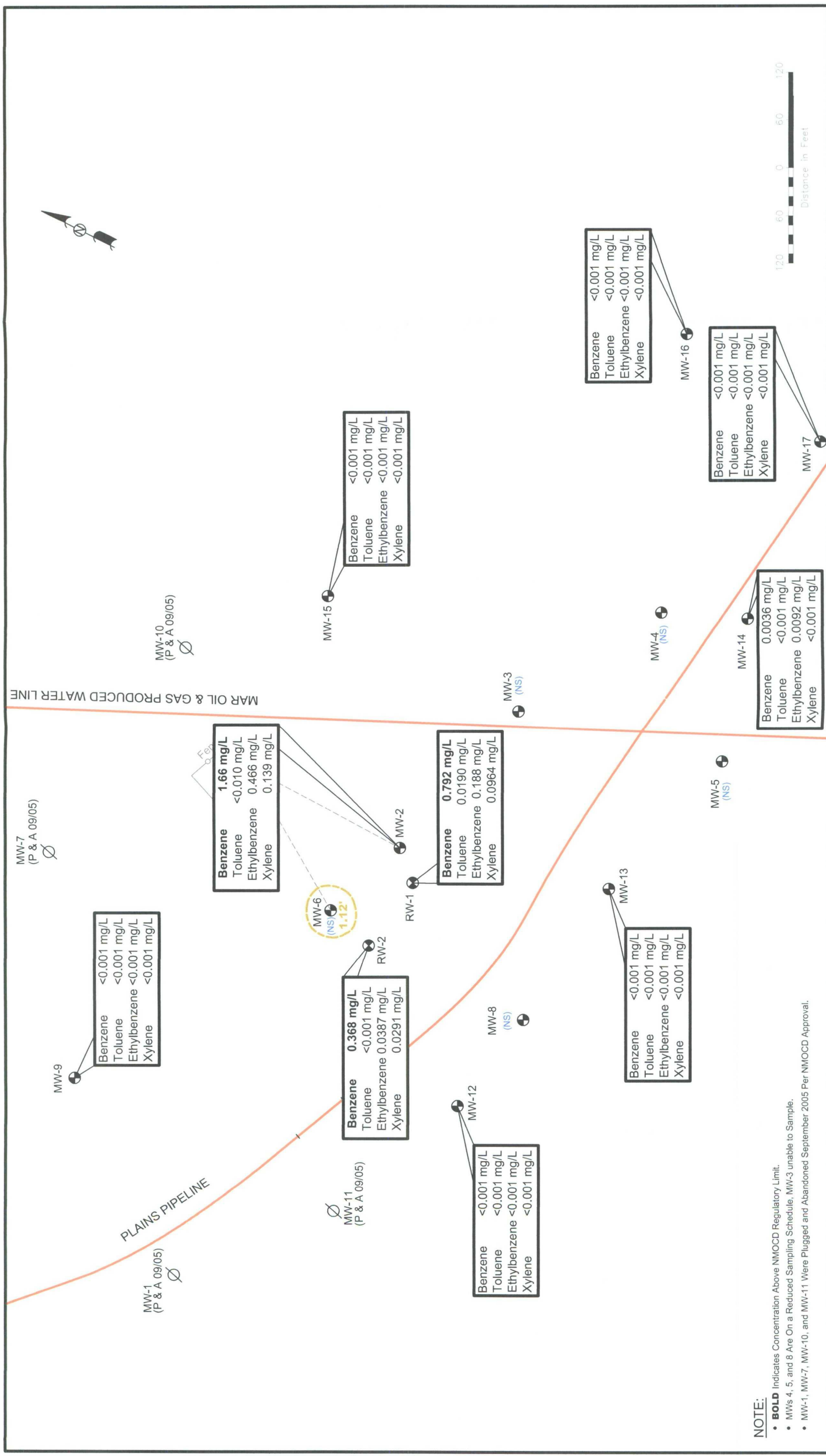
Figure 3A
Groundwater Concentration
and Inferred PSH Extent Map
(02/04/09) thru (02/05/09)
Plains Marketing, L.P.
HDO 90-23
Lea County, NM

NOVA Safety and Environmental



Scale: 1" = 120'
Prep By: SAT
Checked By: TLL
June 11, 2009





NOTE:

- **BOLD** Indicates Concentration Above NMOCD Regulatory Limit.
- MWs 4, 5, and 8 Are On a Reduced Sampling Schedule, MW-3 unable to Sample.
- MW-1, MW-7, MW-10, and MW-11 Were Plugged and Abandoned September 2005 Per NMOCD Approval.

LEGEND:

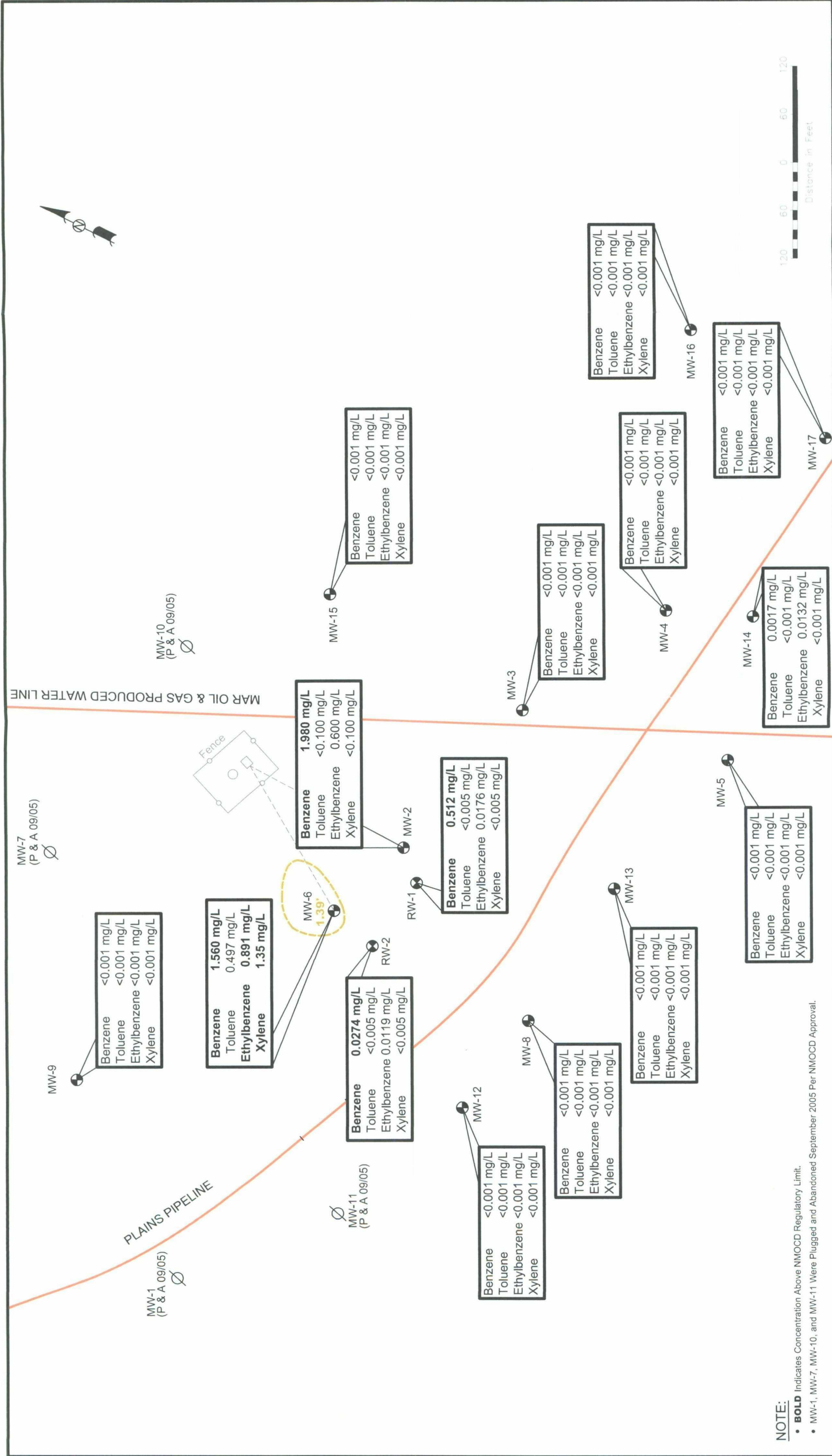
- Monitor Well Location
- Recovery Well Location
- Pipeline
- Inferred PSH Extent
- (NS) Not Sampled

Figure 3C
Groundwater Concentration
and Inferred PSH Extent Map
(08/05/09)
Plains Marketing, L.P.
HDO 90-23
Lea County, NM

NOVA
safety and environmental

NOVA Safety and Environmental

Scale: 1" = 120'
Prep By: SAT
Checked By: RKR
October 16, 2009



NOTE:

- **BOLD** Indicates Concentration Above NMOCD Regulatory Limit.
- MW-1, MW-7, MW-10, and MW-11 Were Plugged and Abandoned September 2005 Per NMOCD Approval.

LEGEND:

- Monitor Well Location
- Recovery Well Location
- Pipeline
- Inferred PSH Extent
- (NS) Not Sampled

<0.001 Constituent Concentration (mg/L)

Figure 3D
Groundwater Concentration
and Inferred PSH Extent Map
(11/16/09)
Plains Marketing, L.P.
HDO 90-23
Lea County, NM

NOVA Safety and Environmental



Scale: 1" = 120'
Prep By: SAT
Checked By: RKR
December 27, 2009

Tables

TABLE 1

2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
HDO 90 - 23
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER AP-009

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 2	01/07/09	3,465.44	-	45.79	0.00	3,419.65
MW - 2	01/22/09	3,465.44	-	45.74	0.00	3,419.70
MW - 2	01/26/09	3,465.44	-	45.72	0.00	3,419.72
MW - 2	02/05/09	3,465.44	-	45.73	0.00	3,419.71
MW - 2	02/13/09	3,465.44	-	45.74	0.00	3,419.70
MW - 2	02/27/09	3,465.44	-	45.76	0.00	3,419.68
MW - 2	03/03/09	3,465.44	-	45.81	0.00	3,419.63
MW - 2	03/10/09	3,465.44	-	45.73	0.00	3,419.71
MW - 2	03/18/09	3,465.44	-	45.67	0.00	3,419.77
MW - 2	03/27/09	3,465.44	-	45.64	0.00	3,419.80
MW - 2	04/02/09	3,465.44	-	45.83	0.00	3,419.61
MW - 2	04/07/09	3,465.44	-	45.64	0.00	3,419.80
MW - 2	04/14/09	3,465.44	-	45.71	0.00	3,419.73
MW - 2	04/28/09	3,465.44	-	45.64	0.00	3,419.80
MW - 2	05/07/09	3,465.44	-	45.64	0.00	3,419.80
MW - 2	05/08/09	3,465.44	-	45.64	0.00	3,419.80
MW - 2	06/02/09	3,465.44	-	45.68	0.00	3,419.76
MW - 2	06/11/09	3,465.44	-	45.64	0.00	3,419.80
MW - 2	06/16/09	3,465.44	-	45.56	0.00	3,419.88
MW - 2	06/26/09	3,465.44	-	45.66	0.00	3,419.78
MW - 2	06/30/09	3,465.44	-	45.57	0.00	3,419.87
MW - 2	07/07/09	3,465.44	-	45.65	0.00	3,419.79
MW - 2	07/15/09	3,465.44	-	45.78	0.00	3,419.66
MW - 2	07/21/09	3,465.44	-	45.75	0.00	3,419.69
MW - 2	07/28/09	3,465.44	-	45.63	0.00	3,419.81
MW - 2	07/31/09	3,465.44	-	45.71	0.00	3,419.73
MW - 2	08/05/09	3,465.44	-	45.69	0.00	3,419.75
MW - 2	08/06/09	3,465.44	-	45.64	0.00	3,419.80
MW - 2	08/13/09	3,465.44	-	45.65	0.00	3,419.79
MW - 2	08/19/09	3,465.44	-	45.68	0.00	3,419.76
MW - 2	08/25/09	3,465.44	-	45.74	0.00	3,419.70
MW - 2	09/01/09	3,465.44	-	45.75	0.00	3,419.69
MW - 2	09/08/09	3,465.44	-	45.64	0.00	3,419.80
MW - 2	09/15/09	3,465.44	-	45.65	0.00	3,419.79
MW - 2	09/25/09	3,465.44	-	45.78	0.00	3,419.66
MW - 2	09/28/09	3,465.44	-	45.74	0.00	3,419.70
MW - 2	10/02/09	3,465.44	-	45.75	0.00	3,419.69
MW - 2	10/05/09	3,465.44	-	45.85	0.00	3,419.59
MW - 2	10/09/09	3,465.44	-	45.82	0.00	3,419.62
MW - 2	10/12/09	3,465.44	-	45.74	0.00	3,419.70
MW - 2	10/22/09	3,465.44	-	45.84	0.00	3,419.60
MW - 2	10/29/09	3,465.44	-	45.80	0.00	3,419.64
MW - 2	11/06/09	3,465.44	-	45.80	0.00	3,419.64
MW - 2	11/16/09	3,465.44	-	45.99	0.00	3,419.45
MW - 3	01/07/09	3,464.68	-	45.16	0.00	3,419.52
MW - 3	01/22/09	3,464.68	-	45.13	0.00	3,419.55
MW - 3	01/26/09	3,464.68	-	45.12	0.00	3,419.56

TABLE 1

2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
HDO 90 - 23
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER AP-009

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 3	02/05/09	3,464.68	-	45.12	0.00	3,419.56
MW - 3	02/13/09	3,464.68	-	45.09	0.00	3,419.59
MW - 3	02/27/09	3,464.68	-	45.10	0.00	3,419.58
MW - 3	03/03/09	3,464.68	-	45.18	0.00	3,419.50
MW - 3	03/10/09	3,464.68	-	45.09	0.00	3,419.59
MW - 3	03/18/09	3,464.68	-	45.09	0.00	3,419.59
MW - 3	03/27/09	3,464.68	-	45.05	0.00	3,419.63
MW - 3	04/02/09	3,464.68	-	45.21	0.00	3,419.47
MW - 3	04/07/09	3,464.68	-	45.05	0.00	3,419.63
MW - 3	04/14/09	3,464.68	-	45.03	0.00	3,419.65
MW - 3	04/28/09	3,464.68	-	45.05	0.00	3,419.63
MW - 3	05/07/09	3,464.68	-	45.02	0.00	3,419.66
MW - 3	05/08/09	3,464.68	-	45.02	0.00	3,419.66
MW - 3	06/11/09	3,464.68	-	44.72	0.00	3,419.96
MW - 3	06/16/09	3,464.68	-	44.64	0.00	3,420.04
MW - 3	06/26/09	3,464.68	-	44.95	0.00	3,419.73
MW - 3	06/30/09	3,464.68	-	44.65	0.00	3,420.03
MW - 3	07/07/09	3,464.68	-	45.03	0.00	3,419.65
MW - 3	07/15/09	3,464.68	-	45.08	0.00	3,419.60
MW - 3	07/28/09	3,464.68	-	45.00	0.00	3,419.68
MW - 3	07/31/09	3,464.68	-	Not Gauged		
MW - 3	08/05/09	3,464.68	-	Not Gauged		
MW - 3	08/06/09	3,464.68	-	Not Gauged		
MW - 3	08/13/09	3,464.68	-	44.86	0.00	3,419.82
MW - 3	08/19/09	3,464.68	-	44.94	0.00	3,419.74
MW - 3	08/25/09	3,464.68	-	45.07	0.00	3,419.61
MW - 3	09/01/09	3,464.68	-	45.14	0.00	3,419.54
MW - 3	09/08/09	3,464.68	-	45.02	0.00	3,419.66
MW - 3	09/15/09	3,464.68	-	45.02	0.00	3,419.66
MW - 3	09/25/09	3,464.68	-	45.18	0.00	3,419.50
MW - 3	09/28/09	3,464.68	-	45.25	0.00	3,419.43
MW - 3	10/02/09	3,464.68	-	45.18	0.00	3,419.50
MW - 3	10/05/09	3,464.68	-	45.26	0.00	3,419.42
MW - 3	10/09/09	3,464.68	-	45.38	0.00	3,419.30
MW - 3	10/12/09	3,464.68	-	45.27	0.00	3,419.41
MW - 3	10/22/09	3,464.68	-	45.20	0.00	3,419.48
MW - 3	10/29/09	3,464.68	-	45.18	0.00	3,419.50
MW - 3	11/06/09	3,464.68	-	45.23	0.00	3,419.45
MW - 3	11/16/09	3,464.68	-	45.29	0.00	3,419.39
MW - 4	02/04/09	3,465.76	-	46.28	0.00	3,419.48
MW - 4	05/08/09	3,465.76	-	46.17	0.00	3,419.59
MW - 4	08/05/09	3,465.76	-	46.25	0.00	3,419.51
MW - 4	11/16/09	3,465.76	-	46.39	0.00	3,419.37
MW - 5	02/04/09	3,467.40	-	48.03	0.00	3,419.37
MW - 5	05/08/09	3,467.40	-	47.94	0.00	3,419.46
MW - 5	08/05/09	3,467.40	-	48.02	0.00	3,419.38
MW - 5	11/16/09	3,467.40	-	48.14	0.00	3,419.26

TABLE 1

2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
HDO 90 - 23
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER AP-009

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	01/07/09	3,465.42	45.48	46.87	1.39	3,419.73
MW - 6	01/22/09	3,465.42	46.34	46.51	0.17	3,419.05
MW - 6	01/26/09	3,465.42	45.45	46.82	1.37	3,419.76
MW - 6	02/05/09	3,465.42	45.46	46.76	1.30	3,419.77
MW - 6	02/13/09	3,465.42	45.43	46.79	1.36	3,419.79
MW - 6	02/27/09	3,465.42	45.49	46.70	1.21	3,419.75
MW - 6	03/03/09	3,465.42	45.33	46.75	1.42	3,419.88
MW - 6	03/10/09	3,465.42	45.35	46.68	1.33	3,419.87
MW - 6	03/18/09	3,465.42	45.44	46.50	1.06	3,419.82
MW - 6	03/27/09	3,465.42	45.43	46.43	1.00	3,419.84
MW - 6	04/02/09	3,465.42	45.60	46.75	1.15	3,419.65
MW - 6	04/07/09	3,465.42	45.44	46.41	0.97	3,419.83
MW - 6	04/14/09	3,465.42	45.44	46.35	0.91	3,419.84
MW - 6	04/28/09	3,465.42	45.44	46.39	0.95	3,419.84
MW - 6	05/07/09	3,465.42	45.43	46.19	0.76	3,419.88
MW - 6	05/08/09	3,465.42	45.43	46.19	0.76	3,419.88
MW - 6	06/02/09	3,465.42	45.42	46.60	1.18	3,419.82
MW - 6	06/11/09	3,465.42	45.42	46.53	1.11	3,419.83
MW - 6	06/16/09	3,465.42	45.41	46.33	0.92	3,419.87
MW - 6	06/26/09	3,465.42	45.44	46.43	0.99	3,419.83
MW - 6	06/30/09	3,465.42	45.42	46.31	0.89	3,419.87
MW - 6	07/07/09	3,465.42	45.46	46.54	1.08	3,419.80
MW - 6	07/15/09	3,465.42	45.50	46.59	1.09	3,419.76
MW - 6	07/21/09	3,465.42	45.57	46.57	1.00	3,419.70
MW - 6	07/28/09	3,465.42	45.43	46.53	1.10	3,419.83
MW - 6	07/31/09	3,465.42	45.51	46.55	1.04	3,419.75
MW - 6	08/05/09	3,465.42	45.49	46.61	1.12	3,419.76
MW - 6	08/06/09	3,465.42	45.45	46.60	1.15	3,419.80
MW - 6	08/13/09	3,465.42	45.47	46.59	1.12	3,419.78
MW - 6	08/19/09	3,465.42	45.49	46.52	1.03	3,419.78
MW - 6	08/25/09	3,465.42	45.53	46.55	1.02	3,419.74
MW - 6	09/01/09	3,465.42	45.53	46.75	1.22	3,419.71
MW - 6	09/08/09	3,465.42	45.43	46.53	1.10	3,419.83
MW - 6	09/15/09	3,465.42	45.44	46.51	1.07	3,419.82
MW - 6	09/25/09	3,465.42	45.53	46.96	1.43	3,419.68
MW - 6	09/28/09	3,465.42	45.59	46.79	1.20	3,419.65
MW - 6	10/02/09	3,465.42	45.58	46.73	1.15	3,419.67
MW - 6	10/05/09	3,465.42	45.63	46.62	0.99	3,419.64
MW - 6	10/06/09	3,465.42	45.60	46.72	1.12	3,419.65
MW - 6	10/09/09	3,465.42	45.60	46.72	1.12	3,419.65
MW - 6	10/12/09	3,465.42	45.66	46.66	1.00	3,419.61
MW - 6	10/22/09	3,465.42	45.55	46.91	1.36	3,419.67
MW - 6	10/29/09	3,465.42	45.57	46.80	1.23	3,419.67
MW - 6	11/06/09	3,465.42	45.57	46.82	1.25	3,419.66
MW - 6	11/16/09	3,465.42	45.61	47.00	1.39	3,419.60

TABLE 1

2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
HDO 90 - 23
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER AP-009

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 8	02/04/09	3,467.61	-	47.99	0.00	3,419.62
MW - 8	05/08/09	3,467.61	-	47.88	0.00	3,419.73
MW - 8	08/05/09	3,467.61	-	47.96	0.00	3,419.65
MW - 8	11/16/09	3,467.61	-	48.10	0.00	3,419.51
MW - 9	02/04/09	3,465.74	-	45.94	0.00	3,419.80
MW - 9	05/08/09	3,465.74	-	45.85	0.00	3,419.89
MW - 9	08/05/09	3,465.74	-	45.95	0.00	3,419.79
MW - 9	11/16/09	3,465.74	-	46.06	0.00	3,419.68
MW - 12	02/04/09	3466.69	-	47.11	0.00	3,419.58
MW - 12	05/08/09	3466.69	-	47.04	0.00	3,419.65
MW - 12	08/05/09	3466.69	-	47.10	0.00	3,419.59
MW - 12	11/16/09	3466.69	-	47.23	0.00	3,419.46
MW - 13	02/05/09	3466.98	-	47.66	0.00	3,419.32
MW - 13	05/08/09	3466.98	-	47.56	0.00	3,419.42
MW - 13	08/05/09	3466.98	-	47.64	0.00	3,419.34
MW - 13	11/16/09	3466.98	-	47.78	0.00	3,419.20
MW - 14	01/07/09	3466.50	-	47.38	0.00	3,419.12
MW - 14	01/22/09	3466.50	-	47.34	0.00	3,419.16
MW - 14	01/26/09	3466.50	-	47.34	0.00	3,419.16
MW - 14	02/05/09	3466.50	-	47.35	0.00	3,419.15
MW - 14	02/13/09	3466.50	-	47.30	0.00	3,419.20
MW - 14	02/27/09	3466.50	-	47.31	0.00	3,419.19
MW - 14	03/03/09	3466.50	-	47.40	0.00	3,419.10
MW - 14	03/10/09	3466.50	-	47.28	0.00	3,419.22
MW - 14	03/18/09	3466.50	-	47.26	0.00	3,419.24
MW - 14	03/27/09	3466.50	-	47.23	0.00	3,419.27
MW - 14	04/02/09	3466.50	-	47.43	0.00	3,419.07
MW - 14	04/07/09	3466.50	-	47.23	0.00	3,419.27
MW - 14	04/14/09	3466.50	-	47.23	0.00	3,419.27
MW - 14	04/28/09	3466.50	-	47.25	0.00	3,419.25
MW - 14	05/07/09	3466.50	-	47.21	0.00	3,419.29
MW - 14	05/08/09	3466.50	-	47.21	0.00	3,419.29
MW - 14	06/02/09	3466.50	-	47.26	0.00	3,419.24
MW - 14	06/11/09	3466.50	-	47.28	0.00	3,419.22
MW - 14	06/16/09	3466.50	-	47.23	0.00	3,419.27
MW - 14	06/26/09	3466.50	-	47.31	0.00	3,419.19
MW - 14	06/30/09	3466.50	-	47.22	0.00	3,419.28
MW - 14	07/07/09	3466.50	-	47.34	0.00	3,419.16
MW - 14	07/15/09	3466.50	-	47.36	0.00	3,419.14
MW - 14	07/21/09	3466.50	-	47.34	0.00	3,419.16
MW - 14	07/28/09	3466.50	-	47.32	0.00	3,419.18
MW - 14	07/31/09	3466.50	-	47.39	0.00	3,419.11
MW - 14	08/05/09	3466.50	-	47.34	0.00	3,419.16
MW - 14	08/06/09	3466.50	-	47.31	0.00	3,419.19
MW - 14	08/13/09	3466.50	-	47.31	0.00	3,419.19
MW - 14	08/19/09	3466.50	-	47.31	0.00	3,419.19

TABLE 1

2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
HDO 90 - 23
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER AP-009

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 14	08/25/09	3466.50	-	47.35	0.00	3,419.15
MW - 14	09/01/09	3466.50	-	47.39	0.00	3,419.11
MW - 14	09/08/09	3466.50	-	47.34	0.00	3,419.16
MW - 14	09/15/09	3466.50	-	47.38	0.00	3,419.12
MW - 14	09/25/09	3466.50	-	47.39	0.00	3,419.11
MW - 14	09/28/09	3466.50	-	47.45	0.00	3,419.05
MW - 14	10/02/09	3466.50	-	47.40	0.00	3,419.10
MW - 14	10/05/09	3466.50	-	47.44	0.00	3,419.06
MW - 14	10/09/09	3466.50	-	47.42	0.00	3,419.08
MW - 14	10/12/09	3466.50	-	47.46	0.00	3,419.04
MW - 14	10/22/09	3466.50	-	47.40	0.00	3,419.10
MW - 14	10/29/09	3466.50	-	47.41	0.00	3,419.09
MW - 14	11/06/09	3466.50	-	47.40	0.00	3,419.10
MW - 14	11/16/09	3466.50	-	47.50	0.00	3,419.00
MW - 15	01/07/09	3466.10	-	46.63	0.00	3,419.47
MW - 15	01/22/09	3466.10	-	46.65	0.00	3,419.45
MW - 15	01/26/09	3466.10	-	46.62	0.00	3,419.48
MW - 15	02/05/09	3466.10	-	46.62	0.00	3,419.48
MW - 15	02/13/09	3466.10	-	46.59	0.00	3,419.51
MW - 15	02/27/09	3466.10	-	46.58	0.00	3,419.52
MW - 15	03/03/09	3466.10	-	46.64	0.00	3,419.46
MW - 15	03/10/09	3466.10	-	46.55	0.00	3,419.55
MW - 15	03/18/09	3466.10	-	46.53	0.00	3,419.57
MW - 15	03/27/09	3466.10	-	46.52	0.00	3,419.58
MW - 15	04/02/09	3466.10	-	46.66	0.00	3,419.44
MW - 15	04/07/09	3466.10	-	46.54	0.00	3,419.56
MW - 15	04/14/09	3466.10	-	46.54	0.00	3,419.56
MW - 15	04/28/09	3466.10	-	46.52	0.00	3,419.58
MW - 15	05/07/09	3466.10	-	46.50	0.00	3,419.60
MW - 15	05/08/09	3466.10	-	46.50	0.00	3,419.60
MW - 15	06/02/09	3466.10	-	46.54	0.00	3,419.56
MW - 15	06/11/09	3466.10	-	46.51	0.00	3,419.59
MW - 15	06/16/09	3466.10	-	46.45	0.00	3,419.65
MW - 15	06/26/09	3466.10	-	46.52	0.00	3,419.58
MW - 15	06/30/09	3466.10	-	46.44	0.00	3,419.66
MW - 15	07/07/09	3466.10	-	46.57	0.00	3,419.53
MW - 15	07/15/09	3466.10	-	45.60	0.00	3,420.50
MW - 15	07/21/09	3466.10	-	46.62	0.00	3,419.48
MW - 15	07/28/09	3466.10	-	46.55	0.00	3,419.55
MW - 15	07/31/09	3466.10	-	46.63	0.00	3,419.47
MW - 15	08/05/09	3466.10	-	46.55	0.00	3,419.55
MW - 15	08/06/09	3466.10	-	46.53	0.00	3,419.57
MW - 15	08/13/09	3466.10	-	46.53	0.00	3,419.57
MW - 15	08/19/09	3466.10	-	46.56	0.00	3,419.54
MW - 15	08/25/09	3466.10	-	46.61	0.00	3,419.49
MW - 15	09/01/09	3466.10	-	46.65	0.00	3,419.45
MW - 15	09/08/09	3466.10	-	46.55	0.00	3,419.55
MW - 15	09/15/09	3466.10	-	46.57	0.00	3,419.53
MW - 15	09/25/09	3466.10	-	46.68	0.00	3,419.42

TABLE 1

2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
HDO-90 - 23
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER AP-009

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 15	09/28/09	3466.10	-	46.73	0.00	3,419.37
MW - 15	10/02/09	3466.10	-	46.68	0.00	3,419.42
MW - 15	10/05/09	3466.10	-	46.73	0.00	3,419.37
MW - 15	10/09/09	3466.10	-	46.69	0.00	3,419.41
MW - 15	10/12/09	3466.10	-	46.74	0.00	3,419.36
MW - 15	10/22/09	3466.10	-	46.20	0.00	3,419.90
MW - 15	10/29/09	3466.10	-	46.68	0.00	3,419.42
MW - 15	11/06/09	3466.10	-	46.70	0.00	3,419.40
MW - 15	11/16/09	3466.10	-	46.78	0.00	3,419.32
MW - 16	02/04/09	3465.93	-	46.69	0.00	3,419.24
MW - 16	05/08/09	3465.93	-	46.58	0.00	3,419.35
MW - 16	08/05/09	3465.93	-	46.73	0.00	3,419.20
MW - 16	11/16/09	3465.93	-	46.83	0.00	3,419.10
MW - 17	02/04/09	3468.68	-	49.61	0.00	3,419.07
MW - 17	05/08/09	3468.68	-	49.49	0.00	3,419.19
MW - 17	08/05/09	3468.68	-	49.68	0.00	3,419.00
MW - 17	11/16/09	3468.68	-	49.72	0.00	3,418.96
RW - 1	01/07/09	3465.02	-	45.51	0.00	3,419.51
RW - 1	01/22/09	3465.02	-	44.49	0.00	3,420.53
RW - 1	01/26/09	3465.02	-	45.48	0.00	3,419.54
RW - 1	02/05/09	3465.02	-	45.53	0.00	3,419.49
RW - 1	02/13/09	3465.02	-	45.48	0.00	3,419.54
RW - 1	02/27/09	3465.02	-	45.49	0.00	3,419.53
RW - 1	03/03/09	3465.02	-	45.55	0.00	3,419.47
RW - 1	03/10/09	3465.02	-	45.49	0.00	3,419.53
RW - 1	03/18/09	3465.02	-	45.45	0.00	3,419.57
RW - 1	03/27/09	3465.02	-	45.41	0.00	3,419.61
RW - 1	04/02/09	3465.02	-	45.54	0.00	3,419.48
RW - 1	04/07/09	3465.02	-	45.41	0.00	3,419.61
RW - 1	04/14/09	3465.02	-	45.40	0.00	3,419.62
RW - 1	04/28/09	3465.02	-	45.43	0.00	3,419.59
RW - 1	05/07/09	3465.02	-	45.37	0.00	3,419.65
RW - 1	05/08/09	3465.02	-	45.37	0.00	3,419.65
RW - 1	06/16/09	3465.02	-	45.39	0.00	3,419.63
RW - 1	06/26/09	3465.02	-	45.42	0.00	3,419.60
RW - 1	06/30/09	3465.02	-	43.39	0.00	3,421.63
RW - 1	07/07/09	3465.02	-	45.41	0.00	3,419.61
RW - 1	07/28/09	3465.02	-	45.39	0.00	3,419.63
RW - 1	07/31/09	3465.02	-	45.45	0.00	3,419.57
RW - 1	08/05/09	3465.02	-	45.44	0.00	3,419.58
RW - 1	08/06/09	3465.02	-	45.44	0.00	3,419.58
RW - 1	08/13/09	3465.02	-	45.42	0.00	3,419.60
RW - 1	08/25/09	3465.02	-	45.59	0.00	3,419.43
RW - 1	09/01/09	3465.02	-	45.54	0.00	3,419.48
RW - 1	09/08/09	3465.02	-	45.40	0.00	3,419.62
RW - 1	09/15/09	3465.02	-	45.42	0.00	3,419.60
RW - 1	09/25/09	3465.02	-	45.55	0.00	3,419.47

TABLE 1

2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
HDO 90 - 23
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER AP-009

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
RW - 1	09/28/09	3465.02	-	45.64	0.00	3,419.38
RW - 1	10/02/09	3465.02	-	45.58	0.00	3,419.44
RW - 1	10/05/09	3465.02	-	45.60	0.00	3,419.42
RW - 1	10/09/09	3465.02	-	45.51	0.00	3,419.51
RW - 1	10/12/09	3465.02	-	45.60	0.00	3,419.42
RW - 1	10/22/09	3465.02	-	45.55	0.00	3,419.47
RW - 1	10/29/09	3465.02	-	45.54	0.00	3,419.48
RW - 1	11/06/09	3465.02	-	45.55	0.00	3,419.47
RW - 1	11/16/09	3465.02	-	45.67	0.00	3,419.35
RW - 2	01/07/09	3465.21	-	45.67	0.00	3419.54
RW - 2	01/22/09	3465.21	-	45.71	0.00	3419.50
RW - 2	01/26/09	3465.21	-	45.63	0.00	3419.58
RW - 2	02/05/09	3465.21	-	45.75	0.00	3419.46
RW - 2	02/13/09	3465.21	-	45.68	0.00	3419.53
RW - 2	02/27/09	3465.21	-	45.63	0.00	3419.58
RW - 2	03/03/09	3465.21	-	45.71	0.00	3419.50
RW - 2	03/10/09	3465.21	-	45.66	0.00	3419.55
RW - 2	03/18/09	3465.21	-	45.64	0.00	3419.57
RW - 2	03/27/09	3465.21	-	45.64	0.00	3419.57
RW - 2	04/02/09	3465.21	-	45.74	0.00	3419.47
RW - 2	04/07/09	3465.21	-	45.58	0.00	3419.63
RW - 2	04/14/09	3465.21	-	45.60	0.00	3419.61
RW - 2	04/28/09	3465.21	-	45.64	0.00	3419.57
RW - 2	05/07/09	3465.21	-	45.57	0.00	3419.64
RW - 2	05/08/09	3465.21	-	45.57	0.00	3419.64
RW - 2	06/16/09	3465.21	-	45.57	0.00	3419.64
RW - 2	06/26/09	3465.21	-	45.62	0.00	3419.59
RW - 2	06/30/09	3465.21	-	45.58	0.00	3419.63
RW - 2	07/07/09	3465.21	-	45.55	0.00	3419.66
RW - 2	07/28/09	3465.21	-	45.53	0.00	3419.68
RW - 2	07/31/09	3465.21	-	45.59	0.00	3419.62
RW - 2	08/05/09	3465.21	-	45.63	0.00	3419.58
RW - 2	08/06/09	3465.21	-	45.65	0.00	3419.56
RW - 2	08/13/09	3465.21	-	45.65	0.00	3419.56
RW - 2	08/25/09	3465.21	-	45.69	0.00	3419.52
RW - 2	09/01/09	3465.21	-	45.73	0.00	3419.48
RW - 2	09/08/09	3465.21	-	45.53	0.00	3419.68
RW - 2	09/15/09	3465.21	-	45.54	0.00	3419.67
RW - 2	09/25/09	3465.21	-	45.68	0.00	3419.53
RW - 2	09/28/09	3465.21	-	46.02	0.00	3419.19
RW - 2	10/02/09	3465.21	-	41.72	0.00	3423.49
RW - 2	10/05/09	3465.21	-	45.79	0.00	3419.42
RW - 2	10/09/09	3465.21	-	45.74	0.00	3419.47
RW - 2	10/12/09	3465.21	-	45.80	0.00	3419.41
RW - 2	10/22/09	3465.21	-	45.70	0.00	3419.51
RW - 2	10/29/09	3465.21	-	45.67	0.00	3419.54
RW - 2	11/06/09	3465.21	-	45.67	0.00	3419.54
RW - 2	11/16/09	3465.21	-	45.87	0.00	3419.34

* Complete Historical Tables are presented on the attached CD.

TABLE 2

2009 - CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.

HDO 90-23

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER AP-009

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8015M		SW 846-8012B, 5030				
		TPH GRO C ₆ -C ₁₂	TPH DRO >C ₁₂ -C ₃₅	BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENE
NMOCD REGULATORY LIMIT				0.0100	0.75	0.7500	0.620	
MW - 2	02/05/09			1.960	<0.010	0.745	0.1110	
MW - 2	05/08/09			1.980	<0.001	0.689	0.2010	
MW - 2	08/05/09			1.660	<0.010	0.446	0.1390	
MW - 2	11/16/09			1.980	<0.100	0.600	<0.100	
MW - 3	02/05/09			0.0028	<0.001	<0.001	<0.001	
MW - 3	05/08/09			0.0084	<0.001	0.0676	<0.001	
MW - 3	08/05/09			Not Sampled				
MW - 3	11/16/09			<0.001	<0.001	<0.001	<0.001	
MW - 4	02/05/09			Not Sampled on Current Sample Schedule				
MW - 4	05/08/09			<0.001	<0.001	<0.001	<0.001	
MW - 4	08/05/09			Not Sampled on Current Sample Schedule				
MW - 4	11/16/09			<0.001	<0.001	<0.001	<0.001	
MW - 5	02/05/09			Not Sampled on Current Sample Schedule				
MW - 5	05/08/09			<0.001	<0.001	<0.001	<0.001	
MW - 5	08/05/09			Not Sampled on Current Sample Schedule				
MW - 5	11/16/09			<0.001	<0.001	<0.001	<0.001	
MW - 6	02/05/09			Not Sampled due to PSH in Well				
MW - 6	05/08/09			Not Sampled due to PSH in Well				
MW - 6	08/05/09			Not Sampled due to PSH in Well				
MW - 6	11/16/09	<10.0	510	1.560	0.497	0.891	1.35	
MW - 8	02/05/09			Not Sampled on Current Sample Schedule				
MW - 8	05/08/09			Not Sampled on Current Sample Schedule				
MW - 8	08/05/09			Not Sampled on Current Sample Schedule				
MW - 8	11/16/09			<0.001	<0.001	<0.001	<0.001	
MW - 9	02/04/09			<0.001	<0.001	<0.001	<0.001	
MW - 9	05/08/09			<0.001	<0.001	<0.001	<0.001	
MW - 9	08/05/09			<0.001	<0.001	<0.001	<0.001	
MW - 9	11/16/09			<0.001	<0.001	<0.001	<0.001	
MW - 12	02/04/09			<0.001	<0.001	<0.001	<0.001	
MW - 12	05/08/09			<0.001	<0.001	<0.001	<0.001	
MW - 12	08/05/09			<0.001	<0.001	<0.001	<0.001	
MW - 12	11/16/09			<0.001	<0.001	<0.001	<0.001	

TABLE 2

2009 - CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.

HDO 90-23

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER AP-009

All concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8015M		SW 846-8012B, 5030				
		TPH GRO C ₆ -C ₁₂	TPH DRO >C ₁₂ -C ₃₅	BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
MW - 13	02/05/09			<0.001	<0.001	<0.001	<0.001	
MW - 13	05/08/09			<0.001	<0.001	<0.001	<0.001	
MW - 13	08/05/09			<0.001	<0.001	<0.001	<0.001	
MW - 13	11/16/09			<0.001	<0.001	<0.001	<0.001	
MW - 14	02/05/09			0.0025	0.0015	0.1260	0.0183	
MW - 14	05/08/09			0.0065	<0.001	0.0142	<0.001	
MW - 14	08/05/09			0.0036	<0.001	0.0092	<0.001	
MW - 14	11/16/09			0.0017	<0.001	0.0132	<0.001	
MW - 15	02/05/09			<0.001	<0.001	<0.001	<0.001	
MW - 15	05/08/09			<0.001	<0.001	<0.001	<0.001	
MW - 15	08/05/09			<0.001	<0.001	<0.001	<0.001	
MW - 15	11/16/09			<0.001	<0.001	<0.001	<0.001	
MW - 16	02/04/09			<0.001	<0.001	<0.001	<0.001	
MW - 16	05/08/09			<0.001	<0.001	<0.001	<0.001	
MW - 16	08/05/09			<0.001	<0.001	<0.001	<0.001	
MW - 16	11/16/09			<0.001	<0.001	<0.001	<0.001	
MW - 17	02/04/09			<0.001	<0.001	<0.001	<0.001	
MW - 17	05/08/09			<0.001	<0.001	<0.001	<0.001	
MW - 17	08/05/09			<0.001	<0.001	<0.001	<0.001	
MW - 17	11/16/09			<0.001	<0.001	<0.001	<0.001	
RW - 1	02/05/09			0.505	0.0065	0.2680	0.0924	
RW - 1	05/08/09			0.823	<0.005	0.4160	0.120	
RW - 1	08/05/09			0.792	0.0190	0.1880	0.0964	
RW - 1	11/16/09			0.512	<0.005	0.0176	<0.005	
RW - 2	02/05/09			0.0472	<0.001	0.0035	<0.001	
RW - 2	05/08/09			0.2600	<0.001	0.0449	0.0424	
RW - 2	08/05/09			0.3680	<0.001	0.0387	0.0291	
RW - 2	11/16/09			0.2740	<0.005	0.0119	<0.005	

* Complete Historical Data Tables are presented on the attached CD.

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
TNM HDO-90-23
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER AP-009

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																	
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[e]fluoranthene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene	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	—	—	0.03 mg/L		—
	MW-2	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	0.0729	0.0227	<0.000922	0.139	0.11	0.0175
	11/16/09	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	0.0112	<0.000922	0.0480	0.0182	<0.000922	0.123	0.0744	0.0128
MW-3	11/06/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.00202	<0.000183	<0.000183	0.00152	<0.000183	0.0203	<0.000183	0.0032
	11/16/09	<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	0.000825	<0.000183	<0.000183	0.00209	
MW-4	11/11/08	<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	
	11/16/09	<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	
MW-5	11/11/08	<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	
	11/16/09	<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	
MW-6	11/06/08	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	0.072	<0.0188	0.238	0.102	<0.0188	0.532	0.5	0.0833
	11/16/09	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	0.0083	<0.000917	0.0599	0.0124	<0.000917	0.118	0.0957	0.0102	
MW-8	11/06/08	<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	
	11/16/09	<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	
MW-9	11/06/08	<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	
	11/16/09	<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	
MW-12	11/06/08	<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	
	11/16/09	<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	
MW-13	11/06/08	<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	
	11/16/09	<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	

All water concentrations are reported in mg/L

TABLE 3


POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, LP.
TNM HDO-90-23
LEA COUNTY, NEW MEXICO
NMOC REFERENCE NUMBER AP-009

		EPA SW846-3270C, 3510																			
SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benz[a]pyrene	Benz[b]fluoranthene	Benz[e,h,i]perylene	Benz[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene	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	—	—	—	0.03 mg/L		—
MW-14	11/06/08	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	0.000703	<0.000186	<0.000186	0.000874	<0.000186	0.00638	0.00465	<0.000186	0.0141	0.00647	0.00458	
	11/16/09	<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	
MW-15	11/06/08	<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	0.000857	<0.000184	0.00194	0.000615	<0.000184	
	11/16/09	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.000553	<0.000183	<0.000183	<0.000183	0.000870	<0.000183	<0.000183	<0.000183	0.00176	
MW-16	11/06/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
	11/16/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
MW-17	11/06/08	<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	<0.000183	
	11/16/09	<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	
RW-1	11/06/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00079	<0.000183	<0.000184	0.0187	0.000549	<0.000184	0.0136	0.0106	0.00117	
	11/16/09	<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	0.00607	<0.000183	<0.000183	0.00394	0.00125	0.000618	
RW-2	11/06/08	<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	0.000774	<0.000185	<0.000185	
	11/16/09	<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	

All water concentrations are reported in mg/L

EPA SW846-8270C, 3510



Appendices

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

OIL CONSERVATION DIVISION

NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOWOUTS

NAME OF OPERATOR				ADDRESS			
TEXAS-NEW MEXICO PIPE LINE CO				P. O. Box 2528, Hobbs, N.M. 88240			
REPORT OF	FIRE	BREAK	SPILL	LEAK	CLOWOUT	OTHER*	
				X			
TYPE OF FACILITY	DRUG WELL	PROD WELL	TANK CTTY	PIPE LINE	CASE PLNT	OIL RPY	OTHER*
				X			
NAME OF FACILITY							
14" Trunk Line							
LOCATION OF FACILITY (QUARTER/QUARTER SECTION OR FOOTAGE DESCRIPTION)				SEC.	TWP.	RGE.	COUNTY
NW/4 NE/4				6	21	37	Lea
DISTANCE AND DIRECTION FROM NEAREST TOWN OR PROMINENT LANDMARK							
6 Mi. NNW of Eunice & 3 Mi. N.W. of Loop 18							
DATE AND HOUR OF OCCURRENCE				DATE AND HOUR OF DISCOVERY			
Unknown				3/27/90 2:15 P.M.			
WAS IMMEDIATE NOTICE GIVEN?				IF YES, NMOCC - B. Pritchard			
YES X NO				TO WHOM SCC - D. Trujillo			
BY NMOCC - M. Criswell				DATE 3/27/90: NMOCC - 3:35 P.M.			
WHOM SCC - C. Johnson				AND HOUR 3/28/90: SCC - 9:05 A.M.			
TYPE OF FLUID LOST				QUANTITY			
Sour Crude				OF LOSS 750 BBLS			
DID ANY FLUIDS REACH A WATERCOURSE?				VOLUME RECOVERED			
YES NO X				COVERED 550 BBLS			
IF YES, DESCRIBE FULLY**							
DESCRIBE CAUSE OF PROBLEM AND REMEDIAL ACTION TAKEN**							
External Corrosion							
Line clamped off							
DESCRIBE AREA AFFECTED AND CLEANUP ACTION TAKEN**							
45,000 sq ft pasture land; 40,000 sq ft equipment damage.							
Cattle in the area							
Oil soaked earth covered with fresh soil in prospects of full restoration							
DESCRIPTION OF AREA	FARMING	GRAZING	URBAN	OTHER*			
		X					
SURFACE CONDITIONS	SANDY	SANDY LOAM	CLAY	ROCKY	WET	DRY	SLUDG
		X			X		
DESCRIBE GENERAL CONDITIONS PREVAILING (TEMPERATURE, PRECIPITATION, ETC.)**							
55°							
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF							
SIGNED				B.E. Lepnicky TITLE Dist. Manager		DATE 3/28/90	

*SPECIFY

**ATTACH ADDITIONAL SHEETS IF NECESSARY

HDO 90-23

cc: Hazardous Waste Section
N.M. Environmental Improvement Div.

90-C63530