

1R - 386

**Annual GW Mon.
REPORTS**

DATE:

2009



2009
ANNUAL MONITORING REPORT

JUNCTION 34 TO LEA STATION
LEA COUNTY, NEW MEXICO
NW ¼ SW ¼, SECTION 21, TOWNSHIP 20 SOUTH, RANGE 37 EAST
PLAINS SRS NUMBER: 2002-10286
NMOCD Reference # 1R-0386

RECEIVED
MAR 25 2010
Environmental Bureau
Oil Conservation Division

PREPARED FOR:

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

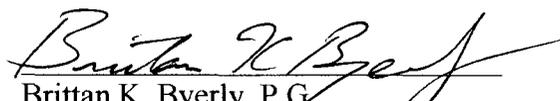


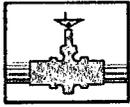
PREPARED BY:

NOVA Safety and Environmental
2057 Commerce
Midland, Texas 79703

February 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

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Oil Conservation Division

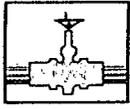
Re: Plains All American – 2009 Annual Monitoring Reports
12 Sites in Lea County, New Mexico

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

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MAR 25 2010
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	2
SUMMARY	6
ANTICIPATED ACTIONS	6
LIMITATIONS	6
DISTRIBUTION.....	8

FIGURES

Figure 1 – Site Location Map

Figure 2A – Inferred Groundwater Gradient Map – February 16, 2009

2B – Inferred Groundwater Gradient Map – May 29, 2009

2C – Inferred Groundwater Gradient Map – August 6, 2009

2D – Inferred Groundwater Gradient Map – November 10, 2009

Figure 3A – Groundwater Concentration and Inferred PSH Extent Map – February 16, 2009

3B – Groundwater Concentration and Inferred PSH Extent Map – May 29, 2009

3C – Groundwater Concentration and Inferred PSH Extent Map – August 6, 2009

3D – Groundwater Concentrations and Inferred PSH Extent Map – November 10, 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 or about January 16, 2007, project management responsibilities were assumed by NOVA. The site was previously managed by Environmental Plus, Inc. (EPI). This report is intended to be viewed as a complete document with figures, appendices, tables and text. The report presents the results of the four quarterly groundwater monitoring events conducted in calendar year 2009. For reference, the 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 Junction 34 to Lea (2002-10286) Release Site is located approximately 10-miles northwest of Eunice in Lea County, New Mexico. The site is located in the NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 21, Township 20 South, Range 37 East. The Release Notification and Corrective Action (Form C-141) submitted by EOTT reported approximately 300 barrels of crude oil released with 190 barrels recovered. The release is reported to have been due to internal corrosion of the pipeline. The release covered approximately 10,769 square feet of pipeline right-of-way, caliche road and land owned by the Deck Estate. Upon discovery of the release on November 6, 2002, a contractor and EOTT personnel mobilized to the site, exposed the pipeline and installed a pipe repair clamp. Hydrocarbon impacted soil excavated during the emergency response activities was transported to an NMOCD approved land farm. In February 2003, hydrocarbon impacted soil, previously identified by the advancement of nine soil borings, was excavated to a depth of approximately twenty five (25) below ground surface (bgs). The excavated soil was stockpiled on site for future remediation.

A *Soil Closure Strategy and Site Restoration Work Plan* (Work Plan) was submitted to the NMOCD in February 2008. The Work Plan proposed soil remediation activities intended to progress the site toward an NMOCD approved closure.

In February 2008, Plains received approval from the NMOCD to commence the activities outlined in the Work Plan. Following the completion of the soil remediation activities, a *Soil Closure Request* dated July 2009 was submitted to the NMOCD for approval. On October 22, 2009, Plains received an email from the NMOCD approving the *Soil Closure Request* at the Junction 34 to Lea Station release site.

Currently, there are eleven groundwater monitor wells (MW-1 through MW-11) on site.

FIELD ACTIVITIES

Product Recovery Efforts

During the reporting period, no measurable thickness of PSH was detected in any of the site monitor wells. Table 1 displays the groundwater gauging data for the reporting period. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

Groundwater Monitoring

Quarterly monitoring events for the reporting period were performed according to the following sampling schedule, which was approved by the NMOCD.

NMOCD Approved Sampling Schedule							
MW-1	Quarterly	MW-4	Annual	MW-7	Quarterly	MW-10	Quarterly
MW-2	Quarterly	MW-5	Quarterly	MW-8	Quarterly	MW-11	Quarterly
MW-3	Quarterly	MW-6	Quarterly	MW-9	Quarterly		

The site monitor wells were gauged and sampled on February 16, May 29, August 6, and November 10, 2009. During each sampling event, monitor wells were purged of a minimum of three well volumes of water or until the wells failed to produce water. Purging was performed using a disposable polyethylene bailer for each well or electrical Grundfos pump and dedicated tubing. 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 quarterly sampling events performed in 2009, are depicted on the Inferred Groundwater Gradient Maps, Figures 2A-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 0.0023 feet/foot to the south-southwest as measured between monitor wells MW-5 and MW-6. This is consistent with data presented on Figures 2A through 2C from earlier in the year. The corrected groundwater elevations ranged between 3,474.76 and 3,491.44 feet above mean sea level, in monitor wells MW-3 and MW-4 on February 16, 2009 and November 10, 2009, respectively. Groundwater elevation data for the calendar year 2009 is provided in Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed disk.

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. A listing of BTEX 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.

Monitor well MW-1 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.303 during the 1st quarter to 0.421 mg/L during the 2nd quarter 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 laboratory method detection limit (MDL) and NMOCD regulatory standard of 0.75 mg/L during all four quarters of the reporting period. Ethyl-benzene concentrations ranged from 0.216 mg/L during the 1st quarter to 0.444 mg/L during the 2nd quarter of 2009. Ethyl-benzene concentrations were below the NMOCD regulatory standard of 0.75 mg/L during all four quarters of the reporting period. Xylene concentrations ranged from 0.0463 mg/L during the 1st quarter to 0.164 mg/L during the 2nd quarter of 2009. Xylene concentrations were below regulatory standard 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 MDLs for naphthalene (0.00135 mg/L), 1-methylnaphthalene (0.0101 mg/L), 2-methylnaphthalene (0.00102 mg/L), phenanthrene (0.000843 mg/L) and dibenzofuran (0.000547 mg/L), which are below the WQCC Drinking Water Standards.

Monitor well MW-2 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0240 mg/L during the 1st quarter to 0.4170 mg/L during the 3rd quarter of 2009. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations ranged from <0.001 mg/L during the 2nd quarter to 0.0038 mg/L during the 3rd quarter of 2009. Toluene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Ethyl-benzene concentrations ranged from <0.005 mg/L during the 1st quarter to 0.2720 mg/L during the 2nd quarter. Ethyl-benzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from <0.005 mg/L during the 1st quarter to 0.1710 mg/L during the 3rd quarter of 2009. Xylene concentrations were below regulatory standard during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above MDLs for naphthalene (0.000833 mg/L) and 1-methylnaphthalene (0.00572 mg/L), which are below the WQCC Drinking Water Standards.

Monitor well MW-3 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.522 mg/L during the 1st quarter to 4.010 mg/L during the 2nd quarter. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations ranged from <0.005 mg/L during the 1st quarter to 0.1220 mg/L during the 2nd quarter of 2009. Toluene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Ethyl-benzene concentrations ranged from 0.2060 mg/L during the 4th quarter to 3.380 mg/L during the 2nd quarter. Ethyl-benzene concentrations were below the NMOCD regulatory standard during the 1st, 3rd and 4th quarters of the reporting period and above during the 2nd quarter of 2009. Xylene

concentrations ranged from 0.0529 mg/L during the 4th quarter to 2.620 mg/L during the 2nd quarter of 2009. Xylene concentrations were below regulatory standard during the 1st, 3rd and 4th quarters of the reporting period and above during the 2nd quarter of 2009. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above MDLs for naphthalene (0.000734 mg/L), 1-methylnaphthalene (0.0214 mg/L), fluorene (0.00193 mg/L), phenanthrene (0.00213 mg/L) and dibenzofuran (0.00146 mg/L), which are below the WQCC Drinking Water Standards.

Monitor well MW-4 is sampled on an annual schedule and was inadvertently sampled during the 2nd quarter of the reporting period. Analytical results indicate benzene and toluene concentrations were below the MDL and NMOCD regulatory standards during the 2nd and 4th quarter sampling events. Ethyl-benzene concentrations ranged from <0.001 mg/L during the 4th quarter to 0.0069 mg/L during the 2nd quarter. Ethyl-benzene concentrations were below the NMOCD regulatory standard during the 2nd and 4th quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 4th quarter to 0.0084 mg/L during the 2nd quarter of 2009. Xylene concentrations were below regulatory standard during the 2nd and 4th quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last twenty-two 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 quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0096 mg/L during the 1st quarter to 0.0231 mg/L during the 4th quarter. Benzene concentrations were above the NMOCD regulatory standard during the 2nd, 3rd and 4th 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 0.0016 mg/L during the 4th quarter to 0.0090 mg/L during the 1st quarter. 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 3rd quarter to 0.0090 mg/L during the 2nd quarter of 2009. Xylene concentrations were below regulatory standard 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-6 is sampled on a quarterly schedule and was inadvertently not sampled during the 1st quarter of the reporting period. Analytical results indicate benzene, toluene, ethylbenzene and xylene concentrations were below the MDL and NMOCD regulatory standards during the 2nd, 3rd and 4th quarters of the reporting period. 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.

Monitor well MW-7 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.672 mg/L during the 1st quarter to 1.380 mg/L during the 3rd quarter. Benzene concentrations were above the NMOCD regulatory standard all four quarters of the reporting period. Toluene concentrations ranged from <0.010 mg/L during the 1st, 2nd and

4th quarters to 0.0423 mg/L during the 3rd quarter. Toluene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Ethyl-benzene concentrations ranged from 0.355 mg/L during the 1st quarter to 0.752 mg/L during the 3rd quarter. Ethyl-benzene concentrations were below the NMOCD regulatory standard during 1st, 2nd and 4th quarters of the reporting period and above during the 3rd quarter of 2009. Xylene concentrations ranged from 0.1070 mg/L during the 1st quarter to 0.474 mg/L during the 3rd quarter. Xylene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above MDLs for naphthalene (0.00169 mg/L) and 1-methylnaphthalene (0.00241 mg/L), which are below the WQCC Drinking Water Standards.

Monitor well MW-8 is sampled on a quarterly schedule and was inadvertently not sampled during the 1st and 3rd quarters of the reporting period. Analytical results indicate benzene, toluene, ethyl-benzene and xylene concentrations were below the MDL and NMOCD regulatory standards during the 2nd and 4th quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last fourteen 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 was inadvertently not sampled during the 1st quarter of the reporting period. Analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 3rd and 4th quarters to 0.0035 mg/L during the 2nd quarter. Benzene concentrations were below the NMOCD regulatory standard during the 2nd, 3rd and 4th quarters of the reporting period. Toluene concentrations ranged from <0.001 mg/L during the 3rd and 4th quarters to 0.0026 mg/L during the 2nd quarter. Toluene concentrations were below the NMOCD regulatory standard during the 2nd, 3rd and 4th quarters of the reporting period. Ethyl-benzene and xylene concentrations were below the MDL and NMOCD regulatory standard during 2nd, 3rd and 4th 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-10 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0272 mg/L during the 4th quarter to 0.1420 mg/L during the 2nd quarter. Benzene concentrations were above the NMOCD regulatory standard 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 4th quarter to 0.0920 mg/L during the 2nd quarter. Ethyl-benzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from 0.0019 mg/L during the 4th quarter to 0.0407 mg/L during the 2nd quarter. Xylene concentrations were below the NMOCD regulatory standard 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-11 is sampled on a quarterly schedule and was inadvertently not sampled during the 1st quarter of the reporting period. Analytical results indicate benzene, toluene and xylene concentrations were below the MDL and NMOCD regulatory standards during the 2nd, 3rd and 4th quarters of the reporting period. Ethyl-benzene concentrations ranged from <0.001 mg/L

during the 3rd and 4th quarters to 0.0042 mg/L during the 2nd quarter. Ethyl-benzene concentrations were below the NMOCD regulatory standard during the 2nd, 3rd and 4th quarters of the reporting period. 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.

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 2009 annual monitoring period. Currently, there are eleven groundwater monitor wells (MW-1 through MW-11) on site. The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.0023 feet/foot to the south-southwest.

During the reporting period, no measurable thickness of PSH was detected in any of the site monitor wells.

Review of the laboratory analytical results of the groundwater samples obtained during this annual reporting period indicate BTEX constituent concentrations are below the applicable NMOCD regulatory standards in five of the eleven monitor wells on site. At this time, dissolved phase impact appears to be delineated and limited to monitor wells MW-1 through MW-3, MW-5, MW-7 and MW-10. Review of PAH analysis indicates a decreasing trend in constituent concentrations in monitor wells MW-1 through MW-3, MW-5, MW-7 and MW-10.

ANTICIPATED ACTIONS

Quarterly monitoring and groundwater sampling will continue in 2010. Gauging will continue on a monthly schedule and will be adjusted according to site conditions. An Annual Monitoring Report will be submitted to the NMOCD by April 1, 2011.

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-1, MW-2, MW-3 and MW-7) 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 and information generated by EPI. NOVA has not

conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

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

DISTRIBUTION

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Figures

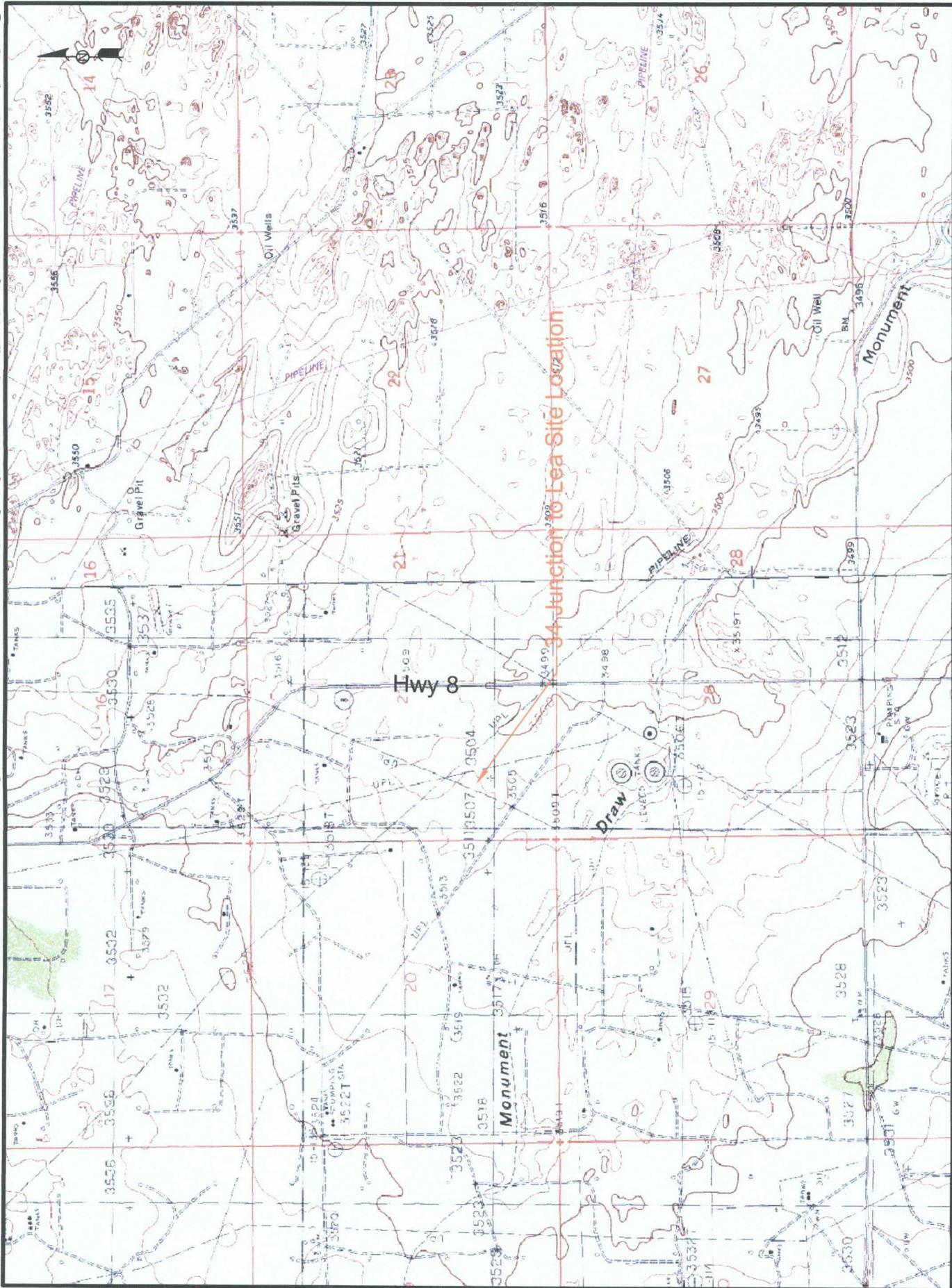
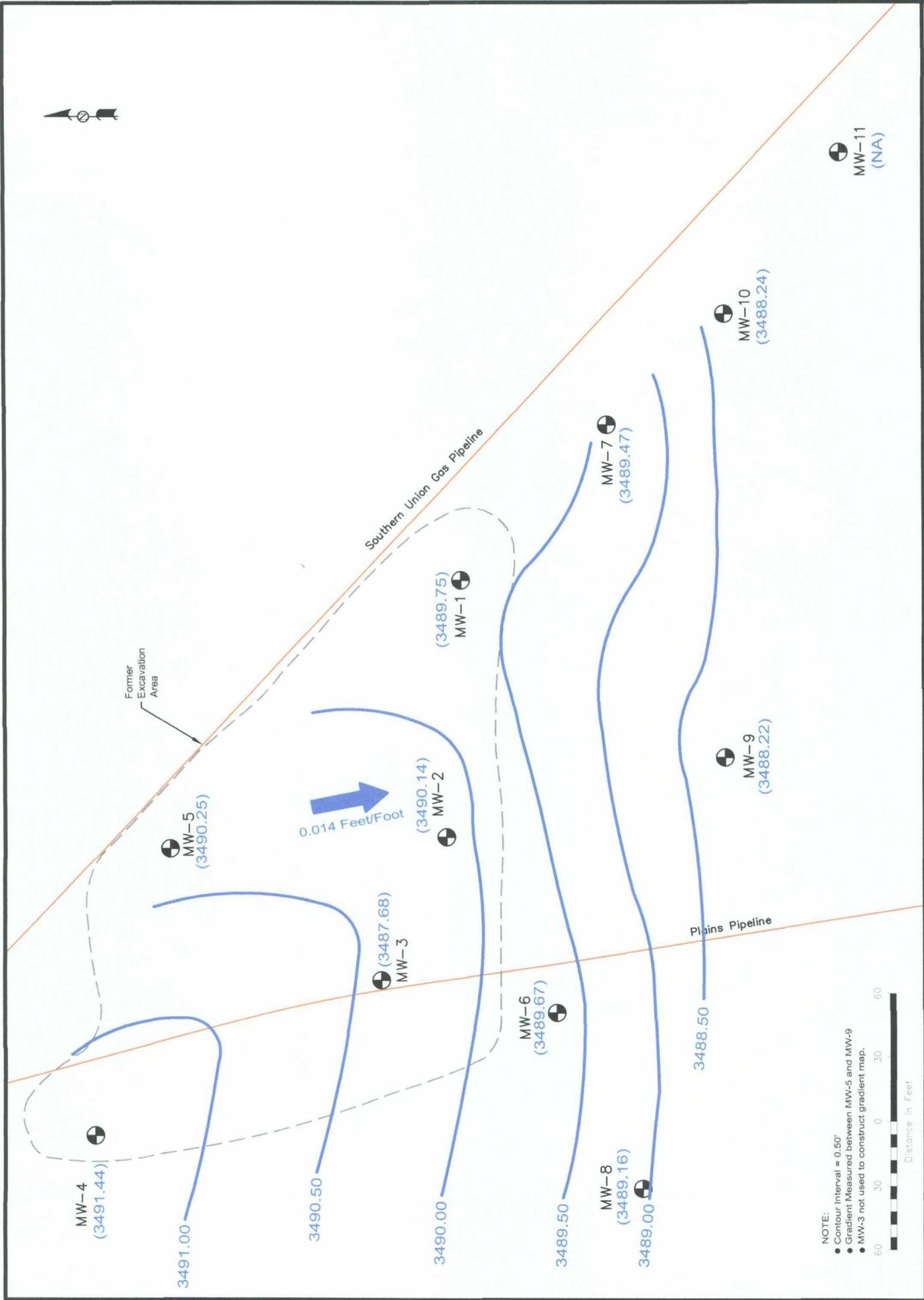
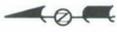


Figure 1
Site Location Map
Plains Marketing, L.P.
34 Junction to Lea
Lea County, NM

NMOC Reference # 1R-0386

Lat. N32° 33' 18.8"N Long. W103° 15' 39.7"W



NOTE:
 • Contour Interval = 0.50'
 • Gradient Measured between MW-5 and MW-9
 • MW-3 not used to construct gradient map.



Legend:

- Monitor Well Location
- Pipeline
- (3791.69) Groundwater Elevation (Feet)
- Groundwater Elevation Contour Line
- ➔ Groundwater Direction and Magnitude

Figure 2A
 Inferred Groundwater Gradient Map
 (02/16/09)
 Plains Marketing, L.P.
 34 Junction to Lea
 Lea County, NM

NOVA Safety and Environmental

Scale: 1" = 60'
 CAD By: SAT
 November 23, 2009
 Checked By: T.L.

NMOCD Ref# 1R-0386



MW-4
(3489.75)

MW-5
(3489.60)

MW-3
(3475.71)

MW-2
(3481.73)

MW-1
(3489.44)

MW-6
(3489.17)

MW-8
(3489.22)

MW-7
(3489.45)

MW-9
(3488.17)

MW-10
(3488.19)

MW-11
(NA)

0.0045 Feet/Foot

Southern Union Gas Pipeline

Plains Pipeline

Former
Excavation
Area

NOTE:

- Contour Interval = 0.20'
- Gradient Measured between MW-4 and MW-9
- MW-2 & MW-3 not used to construct gradient map.



● Monitor Well Location
 — Pipeline

(3791.69) Groundwater Elevation (Feet)
 — Groundwater Elevation Contour Line

→ Groundwater Direction and Magnitude
 0.0045 Feet/Foot

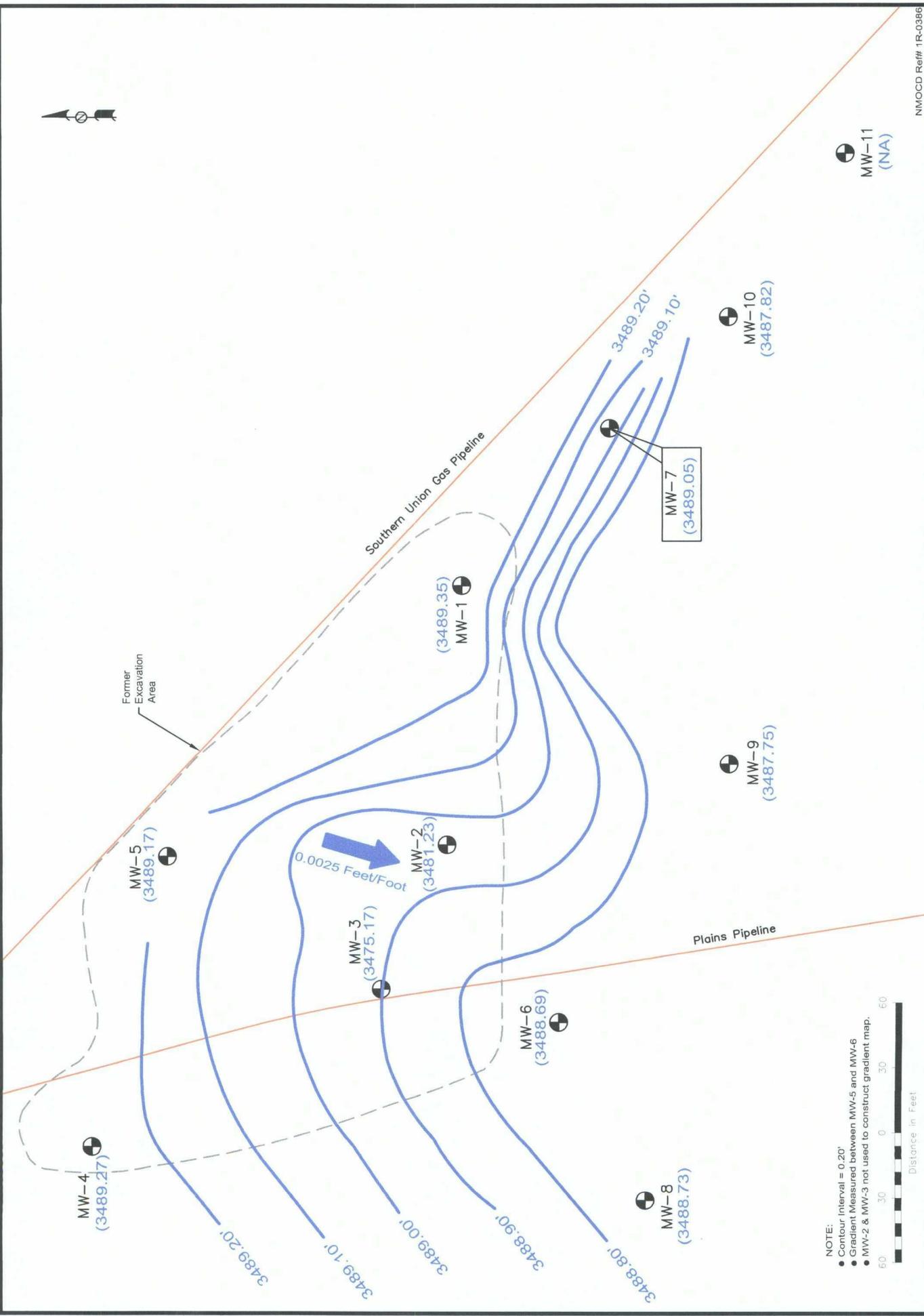
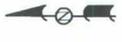
Figure 2B
 Inferior Groundwater
 Gradient Map
 (05/29/09)
 Plains Marketing, L.P.
 34 Junction to Lea
 Lea County, NM

NOVA
 Safety and Environmental

Scale: 1" = 60'
 August 19, 2009
 CAD By: SAT
 Checked By: RGR

NMCCD Ref# 1R-0386

Legend:



NOTE:

- Contour Interval = 0.20'
- Gradient Measured between MW-5 and MW-6
- MW-2 & MW-3 not used to construct gradient map.



NMOCD Ref# 1R-0386

Figure 2C
Inferred Groundwater Gradient Map
(09/06/09)
Plains Marketing, L.P.
34 Junction to Lea
Lea County, NM

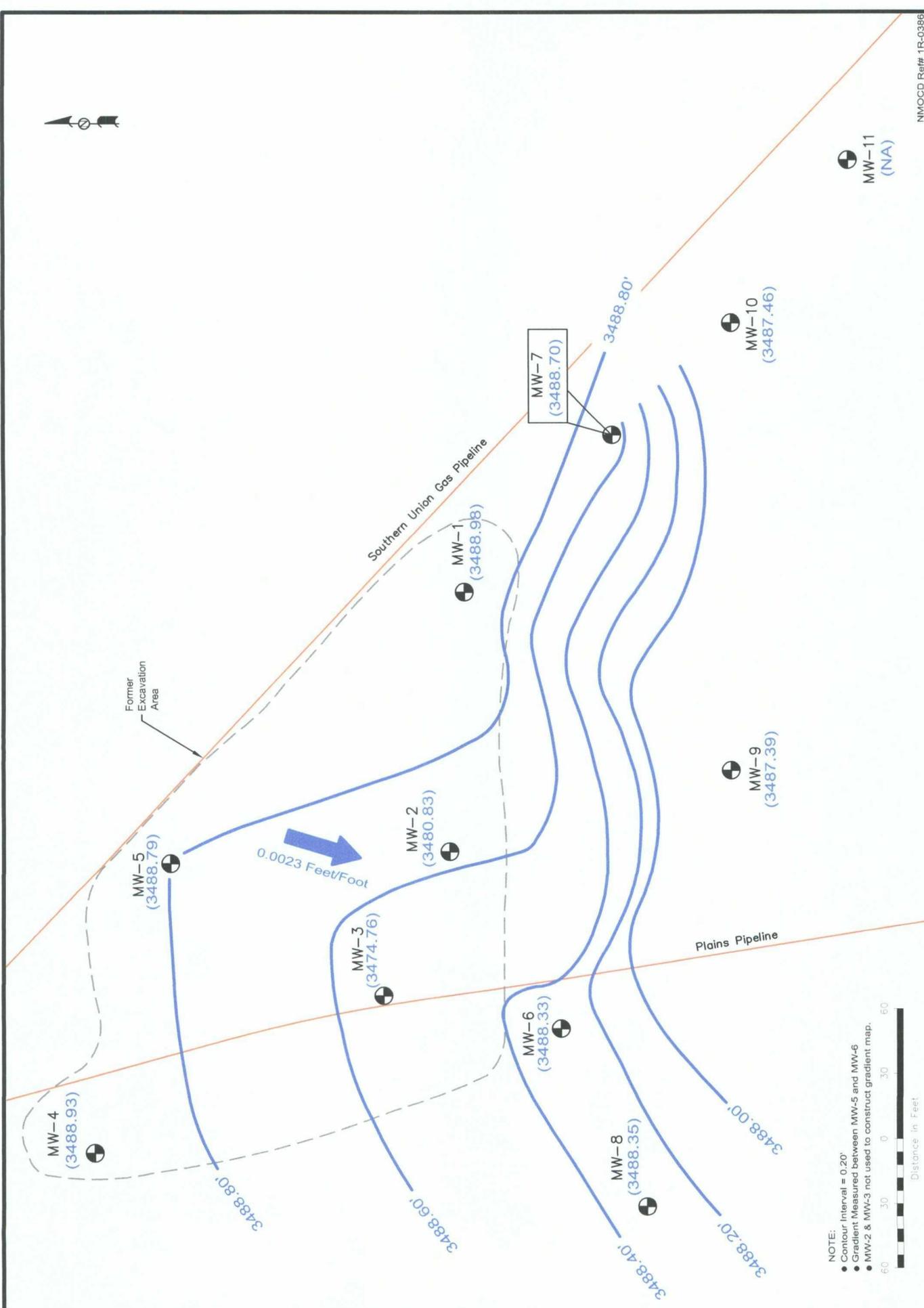
NOVA Safety and Environmental

NOVA
NOVA Safety and Environmental

Scale: 1" = 60'
CAD By: SAT
Checked By: RKR
September 18, 2009

Legend:

- Monitor Well Location
- Pipeline
- Groundwater Elevation Contour Line
- Groundwater Direction and Magnitude



NOTE:
 • Contour Interval = 0.20'
 • Gradient Measured between MW-5 and MW-6
 • MW-2 & MW-3 not used to construct gradient map.



Legend:

- Monitor Well Location
- Pipeline
- Groundwater Elevation Contour Line
- Groundwater Direction and Magnitude

(3791.69)

Figure 2D
 Inferred Groundwater Gradient Map
 (11/10/09)
 Prepared by: L.P.
 34 Junction Road
 Lea County, NM

NOVA Safety and Environmental

Scale: 1" = 60'
 CAD By: SAT
 Checked By: RKR
 December 10, 2009

NMOCOD Ref# 1R-0386



Southern Union Gas Pipeline

Plains Pipeline

Former Excavation Area

Benzene 0.0096
Toluene <0.005
Ethylbenzene 0.009
Xylene <0.005

MW-5

Benzene 0.522 mg/L
Toluene <0.005 mg/L
Ethylbenzene 0.288 mg/L
Xylene 0.0654 mg/L

MW-3

Benzene 0.0240 mg/L
Toluene <0.005 mg/L
Ethylbenzene <0.005 mg/L
Xylene <0.005 mg/L

MW-2

Benzene 0.303 mg/L
Toluene <0.005 mg/L
Ethylbenzene 0.216 mg/L
Xylene 0.0463 mg/L

MW-1

MW-6 (NS)

MW-8 (NS)

MW-7

Benzene 0.672 mg/L
Toluene <0.010 mg/L
Ethylbenzene 0.355 mg/L
Xylene 0.107 mg/L

MW-9 (NS)

MW-10

Benzene 0.0917 mg/L
Toluene <0.001 mg/L
Ethylbenzene 0.0812 mg/L
Xylene 0.0256 mg/L

MW-11 (NS)



Legend:

- Monitor Well Location
- Pipeline
- Inferred PSH Extent
- PSH Thickness (in feet)
- Constituent Concentration (mg/L)
- Not Sampled (NS)

0.18'

<0.001

NOVA
NOVA Safety and Environmental

Figure 3A
Groundwater Concentration
and Inferred PSH Extent Map
(02/16/09)

Plains Marketing, L.P.
34 Junction to Lea
Lea County, NM

NMOCED Ref# 1R-0386

Scale: 1" = 60'
June 12, 2009
CAD By: SAT
Checked By: ROR



Southern Union Gas Pipeline

Plains Pipeline

MW-4

Benzene	<0.001
Toluene	<0.001
Ethylbenzene	0.0069
Xylene	0.0084

MW-3

Benzene	4.01
Toluene	0.122
Ethylbenzene	3.38
Xylene	2.62

MW-8

Benzene	<0.001
Toluene	<0.001
Ethylbenzene	<0.001
Xylene	<0.001

MW-6

Benzene	<0.001
Toluene	<0.001
Ethylbenzene	<0.001
Xylene	<0.001

MW-2

Benzene	0.283
Toluene	<0.001
Ethylbenzene	0.272
Xylene	0.164

MW-1

Benzene	0.421
Toluene	<0.001
Ethylbenzene	0.444
Xylene	0.164

MW-7

Benzene	1.29
Toluene	<0.010
Ethylbenzene	0.717
Xylene	0.361

MW-9

Benzene	0.0035
Toluene	0.0026
Ethylbenzene	<0.001
Xylene	<0.001

MW-10

Benzene	0.142
Toluene	<0.001
Ethylbenzene	0.0920
Xylene	0.0407

MW-11

Benzene	<0.001
Toluene	<0.001
Ethylbenzene	0.0042
Xylene	<0.001

MW-5

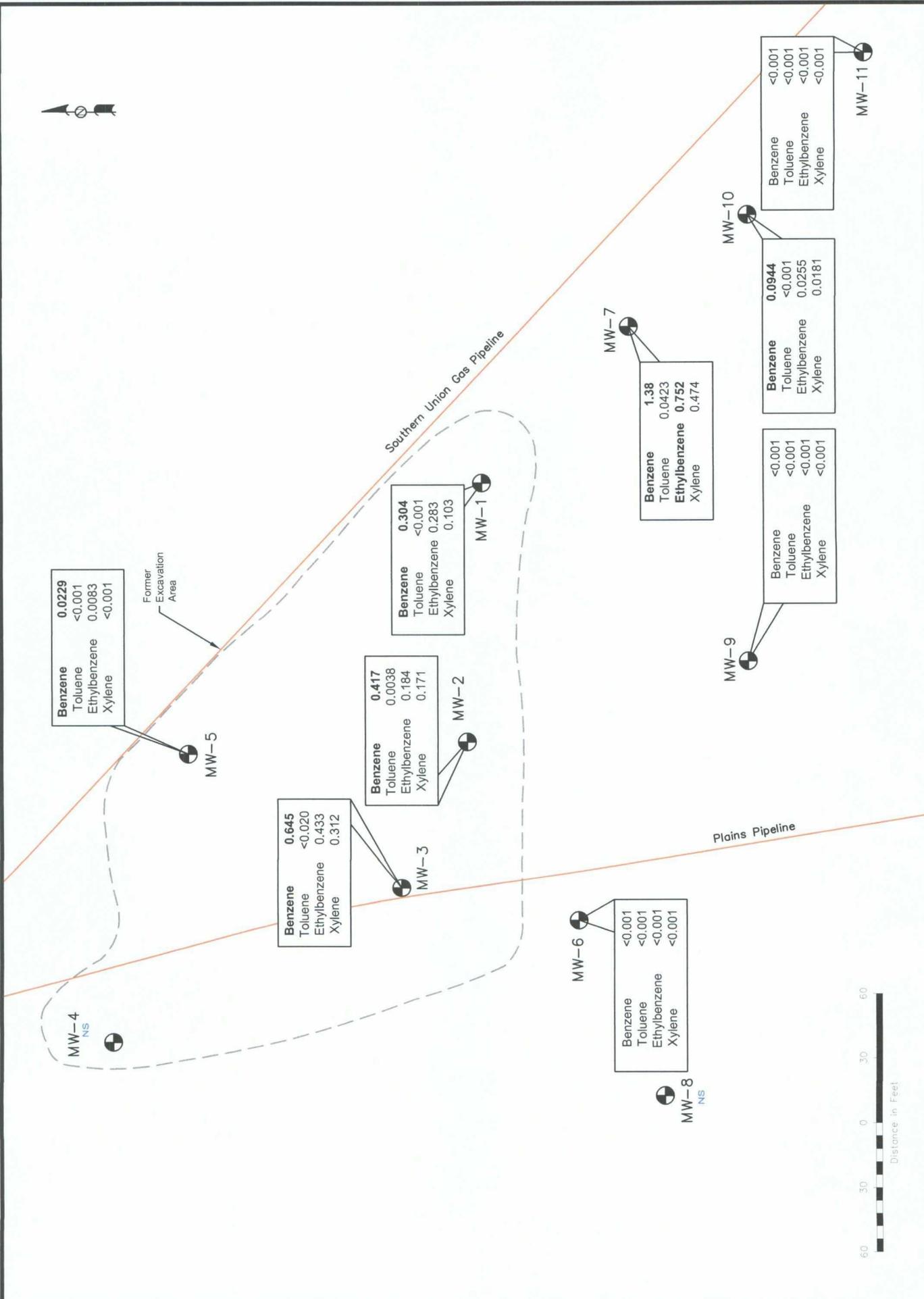
Benzene	0.0133
Toluene	<0.001
Ethylbenzene	0.0065
Xylene	0.009

Former Excavation Area



- Legend:**
- Monitor Well Location
 - Pipeline
 - Inferred PSH Extent
 - PSH Thickness (in feet)
 - 0.18'
 - <0.001
 - Constituent Concentration (mg/L)
 - NS Not Sampled

Figure 3B
Groundwater Contamination
and Inferred PSH Extent Map
(05/29/09)
Plains Marketing, L.P.,
34 Junction to Lea,
Lea County, NM



Legend:

- Monitor Well Location
- Pipeline
- Inferred PSH Extent
- PSH Thickness (in feet)
- Constituent Concentration (mg/L)

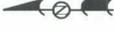
Figure 3C
Groundwater Concentration and Inferred PSH Extent Map
(08/06/09)
Plains Marketing, L.P.
34 Junction to Lea
Lea County, NM

NOVA
NOVA Safety and Environmental

Scale: 1" = 60'
Checked By: RCR
October 15, 2009

NMOCID Ref# 1R-0386

NS Not Sampled



Southern Union Gas Pipeline

Plains Pipeline

Former Excavation Area

Benzene 0.0231
Toluene <0.001
Ethylbenzene 0.0016
Xylene 0.0017

Benzene <0.001
Toluene <0.001
Ethylbenzene <0.001
Xylene <0.001

Benzene 0.779
Toluene <0.020
Ethylbenzene 0.206
Xylene 0.0529

Benzene 0.305
Toluene 0.0013
Ethylbenzene 0.0978
Xylene 0.0867

Benzene 0.307
Toluene <0.005
Ethylbenzene 0.262
Xylene 0.0896

Benzene <0.001
Toluene <0.001
Ethylbenzene <0.001
Xylene <0.001

Benzene 0.925
Toluene <0.010
Ethylbenzene 0.458
Xylene 0.259

Benzene <0.001
Toluene <0.001
Ethylbenzene <0.001
Xylene <0.001

Benzene 0.0272
Toluene <0.001
Ethylbenzene 0.0058
Xylene 0.0019

Benzene <0.001
Toluene <0.001
Ethylbenzene <0.001
Xylene <0.001



Legend:

- Monitor Well Location
- Pipeline
- Inferred PSH Extent
- PSH Thickness (in feet)
- Constituent Concentration (mg/L)
- (NS) Not Sampled

Figure 3D Groundwater Concentration and Inferred PSH Extent Map (11/11/08)
 Plains Marketing, L.P.
 34 Junction to Lea
 Lea County, NM

NMOCID Ref# 1R-0386

NOVA Safety and Environmental

Scale: 1" = 60'
 CAD By: SAT
 Checked By: BGR
 December 16, 2009



Tables

TABLE 1

2009 - Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea Station
Plains EMS #2002-10286

NMOCD REFERENCE NUMBER 1R-0386

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 1	02/16/09	3,508.17	--	18.42	0.00	3,489.75
MW - 1	05/29/09	3,508.17	--	18.73	0.00	3,489.44
MW - 1	08/06/09	3,508.17	--	18.82	0.00	3,489.35
MW - 1	11/10/09	3,508.17	--	19.19	0.00	3,488.98
MW - 2	02/16/09	3,501.45	--	11.31	0.00	3,490.14
MW - 2	05/29/09	3,501.45	--	19.72	0.00	3,481.73
MW - 2	06/11/09	3,501.45	--	19.83	0.00	3,481.62
MW - 2	06/18/09	3,501.45	--	19.89	0.00	3,481.56
MW - 2	06/25/09	3,501.45	--	19.49	0.00	3,481.96
MW - 2	07/02/09	3,501.45	--	20.19	0.00	3,481.26
MW - 2	07/09/09	3,501.45	--	19.85	0.00	3,481.60
MW - 2	07/13/09	3,501.45	--	19.86	0.00	3,481.59
MW - 2	07/24/09	3,501.45	--	20.18	0.00	3,481.27
MW - 2	07/29/09	3,501.45	--	20.19	0.00	3,481.26
MW - 2	07/31/09	3,501.45	--	20.20	0.00	3,481.25
MW - 2	08/06/09	3,501.45	--	20.22	0.00	3,481.23
MW - 2	08/13/09	3,501.45	--	20.22	0.00	3,481.23
MW - 2	08/21/09	3,501.45	--	20.23	0.00	3,481.22
MW - 2	09/18/09	3,501.45	--	20.39	0.00	3,481.06
MW - 2	09/29/09	3,501.45	--	19.87	0.00	3,481.58
MW - 2	10/06/09	3,501.45	--	19.86	0.00	3,481.59
MW - 2	10/20/09	3,501.45	--	20.47	0.00	3,480.98
MW - 2	10/27/09	3,501.45	--	20.46	0.00	3,480.99
MW - 2	11/10/09	3,501.45	--	20.62	0.00	3,480.83
MW - 3	01/07/09	3,495.97	--	8.30	0.00	3,487.67
MW - 3	02/16/09	3,495.97	--	8.29	0.00	3,487.68
MW - 3	05/29/09	3,495.97	--	20.26	0.00	3,475.71
MW - 3	06/11/09	3,495.97	--	20.35	0.00	3,475.62
MW - 3	06/18/09	3,495.97	--	20.42	0.00	3,475.55
MW - 3	06/25/09	3,495.97	--	20.66	0.00	3,475.31
MW - 3	07/02/09	3,495.97	--	20.80	0.00	3,475.17
MW - 3	07/09/09	3,495.97	--	20.37	0.00	3,475.60
MW - 3	07/13/09	3,495.97	--	20.39	0.00	3,475.58
MW - 3	07/24/09	3,495.97	--	20.88	0.00	3,475.09
MW - 3	07/29/09	3,495.97	--	20.78	0.00	3,475.19
MW - 3	07/31/09	3,495.97	--	20.81	0.00	3,475.16
MW - 3	08/06/09	3,495.97	--	20.80	0.00	3,475.17
MW - 3	08/13/09	3,495.97	--	20.85	0.00	3,475.12
MW - 3	08/21/09	3,495.97	--	21.00	0.00	3,474.97
MW - 3	09/18/09	3,495.97	--	20.97	0.00	3,475.00
MW - 3	09/29/09	3,495.97	--	20.39	0.00	3,475.58
MW - 3	10/06/09	3,495.97	--	20.38	0.00	3,475.59
MW - 3	10/20/09	3,495.97	--	21.09	0.00	3,474.88
MW - 3	10/27/09	3,495.97	--	21.11	0.00	3,474.86
MW - 3	11/10/09	3,495.97	--	21.21	0.00	3,474.76

TABLE 1

2009 - Ground Water Elevation Data

**Plains Marketing, L.P.
34 Junction to Lea Station
Plains EMS #2002-10286**

NMOCD REFERENCE NUMBER 1R-0386

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 4	02/16/09	3,509.01	--	17.57	0.00	3,491.44
MW - 4	05/29/09	3,509.01	--	19.26	0.00	3,489.75
MW - 4	08/06/09	3,509.01	--	19.74	0.00	3,489.27
MW - 4	11/10/09	3,509.01	--	20.08	0.00	3,488.93
MW - 5	02/16/09	3,508.74	--	18.49	0.00	3,490.25
MW - 5	05/29/09	3,508.74	--	19.14	0.00	3,489.60
MW - 5	08/06/09	3,508.74	--	19.57	0.00	3,489.17
MW - 5	11/10/09	3,508.74	--	19.95	0.00	3,488.79
MW - 6	02/16/09	3,509.76	--	20.09	0.00	3,489.67
MW - 6	05/29/09	3,509.76	--	20.59	0.00	3,489.17
MW - 6	08/06/09	3,509.76	--	21.07	0.00	3,488.69
MW - 6	11/10/09	3,509.76	--	21.43	0.00	3,488.33
MW - 7	02/16/09	3,507.38	--	17.91	0.00	3,489.47
MW - 7	05/29/09	3,507.38	--	17.93	0.00	3,489.45
MW - 7	08/06/09	3,507.38	--	18.33	0.00	3,489.05
MW - 7	11/10/09	3,507.38	--	18.68	0.00	3,488.70
MW - 8	02/16/09	3,512.14	--	22.98	0.00	3,489.16
MW - 8	05/29/09	3,512.14	--	22.92	0.00	3,489.22
MW - 8	08/06/09	3,512.14	--	23.41	0.00	3,488.73
MW - 8	11/10/09	3,512.14	--	23.79	0.00	3,488.35
MW - 9	02/16/09	3,509.34	--	21.12	0.00	3,488.22
MW - 9	05/29/09	3,509.34	--	21.17	0.00	3,488.17
MW - 9	08/06/09	3,509.34	--	21.59	0.00	3,487.75
MW - 9	11/10/09	3,509.34	--	21.95	0.00	3,487.39
MW - 10	02/16/09	3,506.66	--	18.42	0.00	3,488.24
MW - 10	05/29/09	3,506.66	--	18.47	0.00	3,488.19
MW - 10	08/06/09	3,506.66	--	18.84	0.00	3,487.82
MW - 10	11/10/09	3,506.66	--	19.20	0.00	3,487.46
MW - 11	02/16/09		--	20.36	0.00	
MW - 11	05/29/09		--	20.46	0.00	
MW - 11	08/06/09		--	20.83	0.00	
MW - 11	11/10/09		--	21.14	0.00	

* Complete Historical Tables are presented on the attached CD.

TABLE 2

2009 - CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
 34 JUNCTION TO LEA
 LEA COUNTY, NEW MEXICO
 NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Limit		0.01 (mg/L)	0.75 (mg/L)	0.75 (mg/L)	0.62 (mg/L)	
MW - 1	02/16/09	0.303	<0.005	0.216	0.0463	
MW - 1	05/29/09	0.421	<0.001	0.444	0.1640	
MW - 1	08/06/09	0.304	<0.001	0.283	0.1030	
MW - 1	11/10/09	0.307	<0.005	0.262	0.0896	
MW - 2	02/16/09	0.0240	<0.005	<0.005	<0.005	
MW - 2	05/29/09	0.2830	<0.001	0.272	0.1640	
MW - 2	08/06/09	0.4170	0.0038	0.184	0.1710	
MW - 2	11/10/09	0.3050	0.0013	0.0978	0.0867	
MW - 3	02/16/09	0.522	<0.005	0.2880	0.0654	
MW - 3	05/29/09	4.010	0.1220	3.380	2.620	
MW - 3	08/06/09	0.645	<0.020	0.4330	0.3120	
MW - 3	11/10/09	0.779	<0.020	0.2060	0.0529	
MW - 4	02/16/09	Not Sampled on Current Sample Schedule				
MW - 4	05/29/09	<0.001	<0.001	0.0069	0.0084	
MW - 4	08/06/09	Not Sampled on Current Sample Schedule				
MW - 4	11/10/09	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/16/09	0.0096	<0.005	0.0090	<0.005	
MW - 5	05/29/09	0.0133	<0.001	0.0065	0.0090	
MW - 5	08/06/09	0.0229	<0.001	0.0083	<0.001	
MW - 5	11/10/09	0.0231	<0.001	0.0016	0.0017	
MW - 6	02/16/09	Not Sampled on Current Sample Schedule				
MW - 6	05/29/09	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/10/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/16/09	0.672	<0.010	0.355	0.1070	
MW - 7	05/29/09	1.290	<0.010	0.717	0.3610	
MW - 7	08/06/09	1.380	0.0423	0.752	0.4740	
MW - 7	11/10/09	0.925	<0.010	0.458	0.2590	
MW - 8	02/16/09	Not Sampled on Current Sample Schedule				
MW - 8	05/29/09	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/06/09	Not Sampled on Current Sample Schedule				
MW - 8	11/10/09	<0.001	<0.001	<0.001	<0.001	

TABLE 2

2009 - CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
 34 JUNCTION TO LEA
 LEA COUNTY, NEW MEXICO
 NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Limit		0.01 (mg/L)	0.75 (mg/L)	0.75 (mg/L)	0.62 (mg/L)	
MW - 9	02/16/09	Not Sampled on Current Sample Schedule				
MW - 9	05/29/09	0.0035	0.0026	<0.001	<0.001	
MW - 9	08/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/10/09	<0.001	<0.001	<0.001	<0.001	
MW - 10	02/16/09	0.0917	<0.001	0.0812	0.0256	
MW - 10	05/29/09	0.1420	<0.001	0.0920	0.0407	
MW - 10	08/06/09	0.0944	<0.001	0.0255	0.0181	
MW - 10	11/10/09	0.0272	<0.001	0.0058	0.0019	
MW - 11	02/16/09	Not Sampled on Current Sample Schedule				
MW - 11	05/29/09	<0.001	<0.001	0.0042	<0.001	
MW - 11	08/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 11	11/10/09	<0.001	<0.001	<0.001	<0.001	

* Complete Historical Tables are presented on the attached CD.

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
 34 JUNCTION TO LEA STATION
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER IR-0386

All water concentrations are reported in mg/L
 EPA SW846-8270C, 3510

SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]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.	03/20/07	<0.0002	<0.0002	0.0019	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	0.0026	<0.0004	0.0558	<0.0002	<0.0002	---	---	---	0.0025
	11/20/08	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	0.00216	<0.00185	0.01	0.00139	<0.000185	0.0303	0.00294	0.00134	
	11/10/09	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	0.00135	0.000843	<0.000184	0.0101	0.00102	0.000547	
MW-1	03/20/07	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	0.001	<0.0004	0.0214	<0.0002	<0.0002	---	---	---	0.0008
	11/20/08	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	0.000383	<0.00185	0.000269	0.000367	<0.000185	0.00614	<0.000185	<0.000185	
	11/10/09	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	0.000833	<0.000183	<0.000183	0.00572	<0.000183	<0.000183	
MW-2	03/20/07	0.0166	<0.001	0.216	0.0067	0.0081	<0.001	<0.002	0.0315	<0.001	0.0236	<0.002	0.417	<0.001	0.0246	---	---	---	0.111
	11/20/08	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	0.00329	<0.00183	0.00547	0.00263	<0.000183	0.0366	0.00206	0.00245	
	11/10/09	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	0.00193	<0.00185	0.000734	0.00213	<0.000185	0.0214	<0.000185	0.00146	
MW-3	03/20/07	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	0.0006	<0.0004	<0.0002	<0.0002	<0.0002	---	---	---	0.0007
	11/20/08	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	0.00045	<0.00185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.00035	
	11/10/09	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
MW-4	03/20/07	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	0.0006	<0.0004	<0.0002	<0.0002	<0.0002	---	---	---	0.0006
	11/20/08	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	0.000555	<0.00184	<0.000184	0.000788	<0.000184	0.0034	<0.000184	0.00086	
	11/10/09	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	
MW-5	03/20/07	<0.0002	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	---	---	---	0.0003
	11/20/08	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
	11/10/09	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	
MW-6	03/20/07	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	---	---	---	0.0003
	11/20/08	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
	11/10/09	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	
MW-7	03/20/07	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	---	---	---	0.0002
	11/20/08	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	
	11/10/09	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
 34 JUNCTION TO LEA STATION
 LEA COUNTY, NEW MEXICO
 NMOC REFERENCE NUMBER 1R-0386

All water concentrations are reported in mg/L.

EPA SW846-8270C, 3510

SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylanthracene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.LU 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-8	03/20/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/20/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/10/09	<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
MW-9	03/20/07	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	11/20/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/10/09	<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
MW-10	03/20/07	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0005	<0.0002	0.0085	<0.0002	<0.0002	<0.0002	<0.0002	0.0005
	11/20/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.000646	<0.000185	<0.000185	0.000828	0.000196	<0.000185
	11/10/09	<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
MW-11	03/20/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/20/08	<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
	11/10/09	<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

Appendices

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

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised March 17, 1999

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company EOTT Energy LLC	Contact Frank Hernandez
Address PO Box 1660 5805 East Highway 80 Midland, Texas 79702	Telephone No. 915.638.3799
Facility Name Juction JCT 34 Line to Lea #2002-10286	Facility Type 10" Steel Pipeline

Surface Owner Deck Estate	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter 21	Section 21	Township T20S	Range R37E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea Lat. 32 32' 20.828"N Lon. 103 15' 38.480"W
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NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 300 bbls barrels	Volume Recovered 190 bbls barrels
Source of Release 8" Steel Pipeline	Date and Hour of Occurrence 11-06-02 @ 11:00 AM	Date and Hour of Discovery 11-6-02 @ 4:00 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Paul Sheeley	
By Whom? Pat McCasland, EPI	Date and Hour 11-07-02 @ 6:30 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	
If a Watercourse was Impacted, Describe Fully.* NA		
Describe Cause of Problem and Remedial Action Taken.* Pipe repair clamp installed.		
Describe Area Affected and Cleanup Action Taken.* Site will be delineated and a remediation plan developed. Remedial Goals: TPH 8015m = 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.		

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

Signature: <i>Frank Hernandez</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Frank Hernandez	Approved by District Supervisor:	
Title: District Environmental Supervisor	Approval Date:	Expiration Date:
Date: 9-10-02 Phone: 915.638.3799	Conditions of Approval:	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary