

1R - 123

**Annual GW Mon.
REPORTS**

DATE:

2009



2009
ANNUAL MONITORING REPORT

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Environmental Bureau
Oil Conservation Division

MONUMENT 17
SE ¼ NW ¼ of SECTION 29, TOWNSHIP 19 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
PLAINS SRS NUMBER: TNM MONUMENT-17-KNOWN
NMOCD REFERENCE: 1R-123

Prepared For:

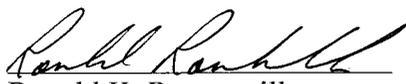
PLAINS MARKETING, L.P.
333 CLAY STREET, SUITE 1600
HOUSTON, TEXAS 77002



Prepared By:

NOVA Safety and Environmental
2057 Commerce Street
Midland, Texas 79703

February 2010


Ronald K. Rounsaville
Senior Project Manager

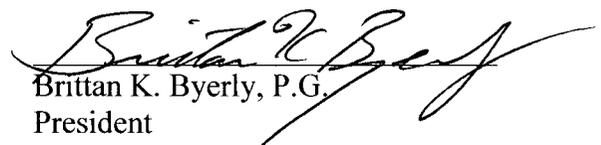

Brittan K. Byerly, P.G.
President

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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

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 for the Monument 17 Site (the site) were assumed by NOVA. The site, which was formerly the responsibility of Enron Oil Trading and Transportation (EOTT), is now the responsibility of Plains. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2009 only. Historic data tables as well as 2009 laboratory analytical reports are provided on the enclosed disk. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 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 legal description of the site is SE ¼ of the NW ¼ of Section 29, Township 19 South, Range 37 East. No information with respect to the release date, volume of crude oil released or recovered, excavation volumes, or pipeline repair is currently available as the release occurred while the pipeline was operated by Texas New Mexico Pipeline Company (TNM). The Release Notification and Corrective Action Form (C-141) is provided as Appendix B. The initial site investigation, consisting of the installation of eight groundwater monitor wells (MW-1 through MW-8), was performed by previous consultants.

Currently, there are eight groundwater monitor wells (MW-1 through MW-5 and MW-7 through MW-9) present on site.

FIELD ACTIVITIES

Groundwater Monitoring

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

| NMOCD Approved Sampling Schedule | | | | | |
|----------------------------------|-----------|------|-----------------------|------|-----------|
| MW-1 | Quarterly | MW-4 | Semi-Annual | MW-7 | Quarterly |
| MW-2 | Quarterly | MW-5 | Annually | MW-8 | Annually |
| MW-3 | Quarterly | MW-6 | Plugged and Abandoned | MW-9 | Quarterly |

The site monitor wells were gauged and sampled on the following dates: February 12, May 14, August 6, and November 5, 2009. During each sampling event, sampled monitor wells were purged of a minimum of three well volumes of water or until the wells failed to produce water using a PVC bailer or electric Grundfos pump. Groundwater was allowed to recharge and samples were collected using disposable Teflon samplers. Water samples were placed in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed at a licensed disposal facility.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during the four quarterly monitoring events, are depicted on Figures 2A through 2D, the Inferred Groundwater Gradient Maps. Groundwater elevation data for 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 0.0013 feet/foot to the southeast as measured between groundwater monitor wells MW-5 and MW-9. This is consistent with data presented on Figures 2A and 2B from earlier in the year. The corrected groundwater elevations ranged between 3,586.09 and 3,588.08 feet above mean sea level, in monitor wells MW-9 on May 14, 2009 and MW-5 on August 6, 2009, respectively.

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 <0.001 mg/L during the 1st and 4th quarters to 0.0105 mg/L during the 2nd quarter of the reporting period. Benzene concentrations were above the NMOCD regulatory standard of 0.01 mg/L during the 2nd quarter of 2009. Toluene concentrations were below laboratory method detection limits (MDL) and NMOCD regulatory standard of 0.75 mg/L during all four quarters of the reporting period. Ethyl-benzene concentrations ranged from <0.001 mg/L during the 1st, 3rd and 4th quarters to 0.0068 mg/L during the 2nd quarter of the reporting period. Ethyl-benzene concentrations were below the NMOCD regulatory standard of 0.75 mg/L during all four quarters of 2009. Xylene concentrations ranged from <0.001 mg/L during the 1st, 3rd and 4th quarters to 0.0126 mg/L during the 2nd quarter of the reporting period. Xylene concentrations were below NMOCD during all four quarters of 2009. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-2 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0037 mg/L during the 1st and 4th quarters to 0.0162 mg/L during the 3rd quarter of the reporting period. Benzene concentrations were above NMOCD regulatory standards during the 3rd quarter of the reporting period. Toluene, ethyl-benzene and xylene concentrations were below the MDL and 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-3 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 3rd and 4th quarters to 0.0121 mg/L during the 1st quarter of the reporting period. Benzene concentrations were above the NMOCD regulatory standard during the 1st quarter of 2009. Toluene, ethyl-benzene and xylene concentrations were below the MDL and 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 dibenzofuran (0.000645 mg/L), which is 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 constituent during the 2nd and 4th quarter sampling events. Monitor well MW-4 has exhibited thirty-seven consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-5 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standard for each constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory standards for the last thirty-six consecutive quarters. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above MDLs for dibenzofuran (0.000404 mg/L), which is below WQCC standards.

Monitor well MW-7 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Monitor well MW-7 has exhibited sixteen consecutive monitoring events below NMOCD regulatory limits. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above MDLs for dibenzofuran (0.0022 mg/L), which is 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 constituent during the 4th quarter sampling event. Monitor well MW-8 has exhibited twenty-four consecutive monitoring events below NMOCD regulatory limits. 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 constituent during all four quarters of the reporting period. Monitor well MW-9 has exhibited twelve consecutive monitoring events below NMOCD regulatory limits. 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 four groundwater monitoring and sampling events for the annual monitoring period of calendar year 2009. Currently, there are eight groundwater monitor wells (MW-1 through MW-5 and MW-7 through MW-9) on-site. The most recent inferred groundwater gradient indicates a general gradient of approximately 0.0013 feet/foot to the southeast as measured between groundwater monitor wells MW-5 and MW-9. During the reporting period, no measurable thickness of PSH was detected in any of the site monitor wells.

A review of the laboratory analytical results indicates benzene concentrations were above applicable NMOCD regulatory standards in three of the eight monitor wells during at least one quarter of the reporting period. Toluene, ethyl-benzene and xylene concentrations were below NMOCD regulatory standards for all eight monitor wells during the four quarters of the 2009 reporting period. Review of PAH analysis indicates a decreasing trend in constituent concentrations in monitor wells MW-3, MW-5, MW-7 and MW-9 as compared to the 2008 PAH analytical data.

ANTICIPATED ACTIONS

Groundwater monitoring and quarterly sampling will continue through 2009. An annual groundwater monitoring report will be submitted by April 1, 2010.

Based on the results of the PAH analysis over the past several years, NOVA recommends that no further PAH analysis be conducted on at the site.

A Soil Closure Proposal will be submitted to the NMOCD in the future. The proposal will present a strategy to address the remaining soil issues at the site.

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
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Oil Conservation Division
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Santa Fe, NM 87505

- Copy 2: Larry Johnson
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
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Hobbs, NM 88240

- Copy 3: Jason Henry
Plains Marketing, L.P.
2530 State Highway 214
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jhenry@paalp.com

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jpdann@paalp.com

- Copy 5: NOVA Safety and Environmental
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rrounsaville@novatraining.cc

Figures

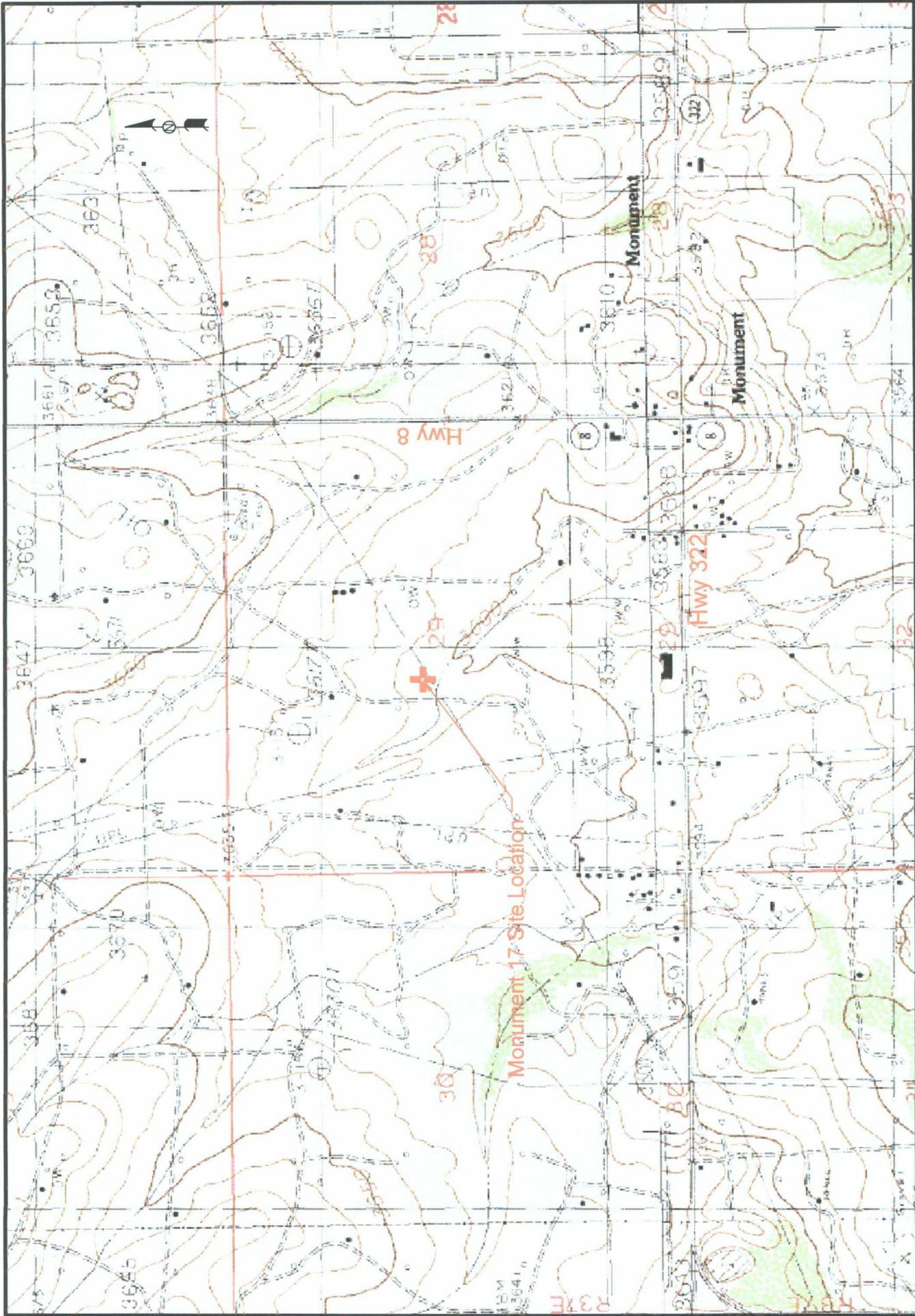


Figure 1
 Site Location Map
 Plains Marketing, L.P.
 Monument 17
 Lea County, NM
 NMOCD Ref. # 1R-123

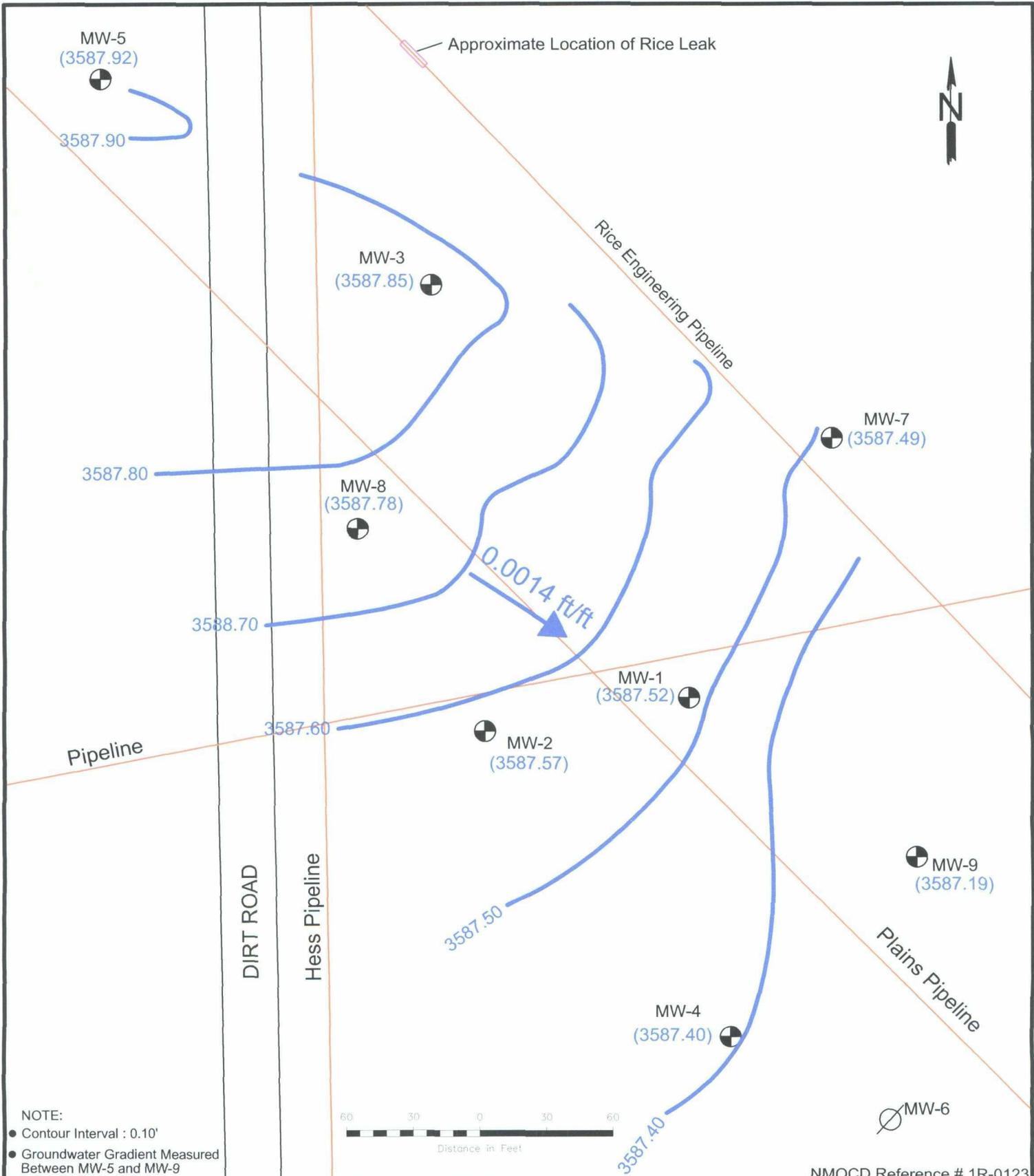
NOVA Safety and Environmental

Scale: 1" = 1500'
 March 24, 2008
 Section 29 Township 19S Range 37E
 32° 37' 57" N, 103° 16' 31" W

Prep By: CDS
 Checked By: TKC

NOVA
 safety and environmental

1500 750 0 750 1500
 Distance in Feet



LEGEND:

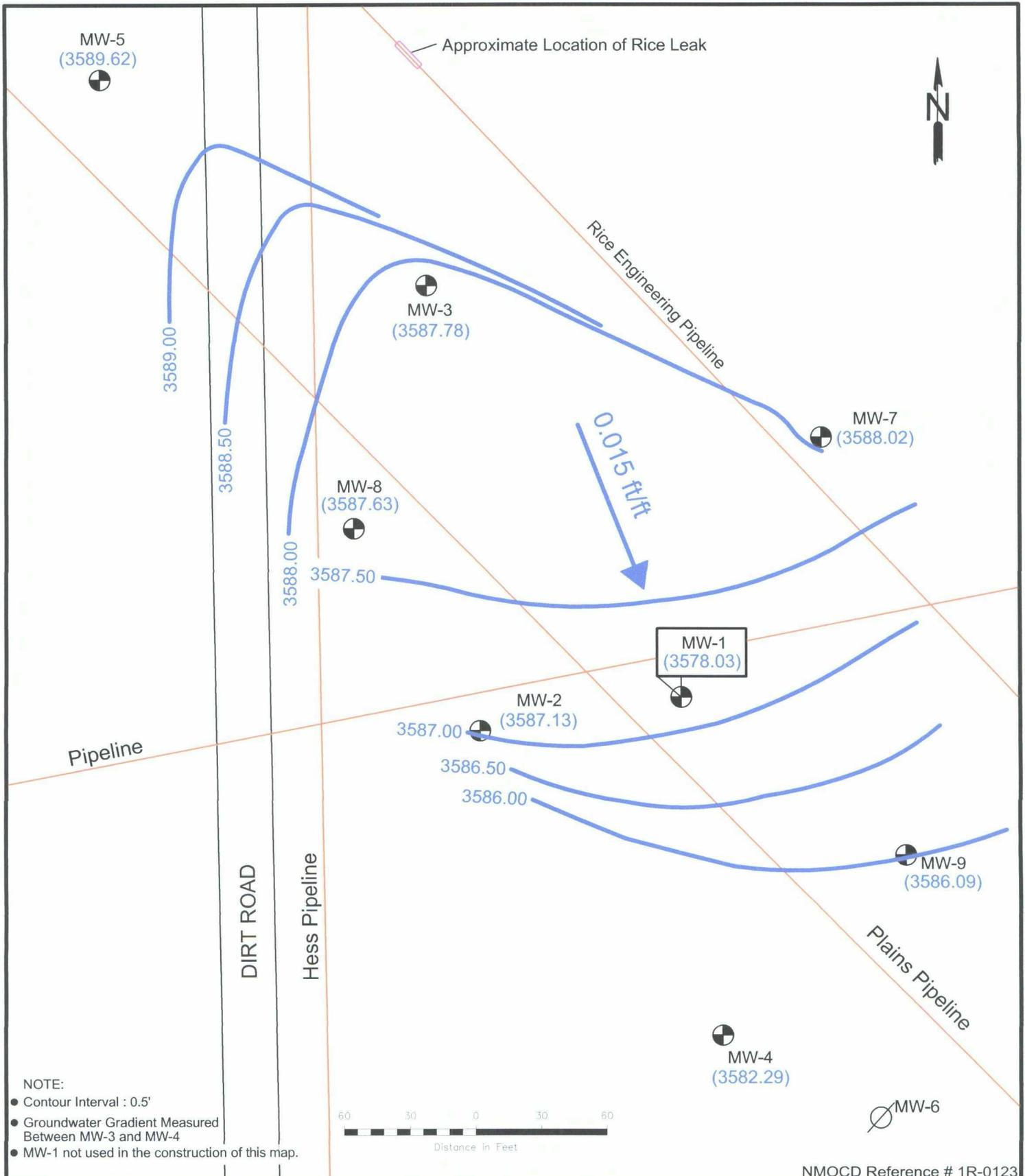
| | | | |
|--|----------------------------|-------------|------------------------------------|
| | Monitor Well Locations | (3587.54) | Groundwater Elevation |
| | Ground Water Contour Lines | 0.001 ft/ft | Groundwater Gradient and Magnitude |
| | Plugged and Abandoned Well | | |

Figure 2A
 Inferred Groundwater
 Gradient Map
 (02/12/09)
 Plains Marketing, L.P.
 Monument 17
 Lea County, NM

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

| | | |
|------------------------------|---|-----------------|
| June 10, 2009 | Lat. N32° 37' 57.7" Long. W103° 16' 31.6" | |
| Scale: 1" = 60' | CAD By: SAT | Checked By: TJL |
| SE1/4 NW1/4 Sec.29 T19S R37E | | |

NMOCD Reference # 1R-0123



NMOCD Reference # 1R-0123

LEGEND:

- Monitor Well Locations
 - Ground Water Contour Lines
 - Plugged and Abandoned Well
- (3587.54) Groundwater Elevation
0.001 ft/ft Groundwater Gradient and Magnitude

Figure 2B
Inferred Groundwater
Gradient Map
(05/14/09)
Plains Marketing, L.P.
Monument 17
Lea County, NM

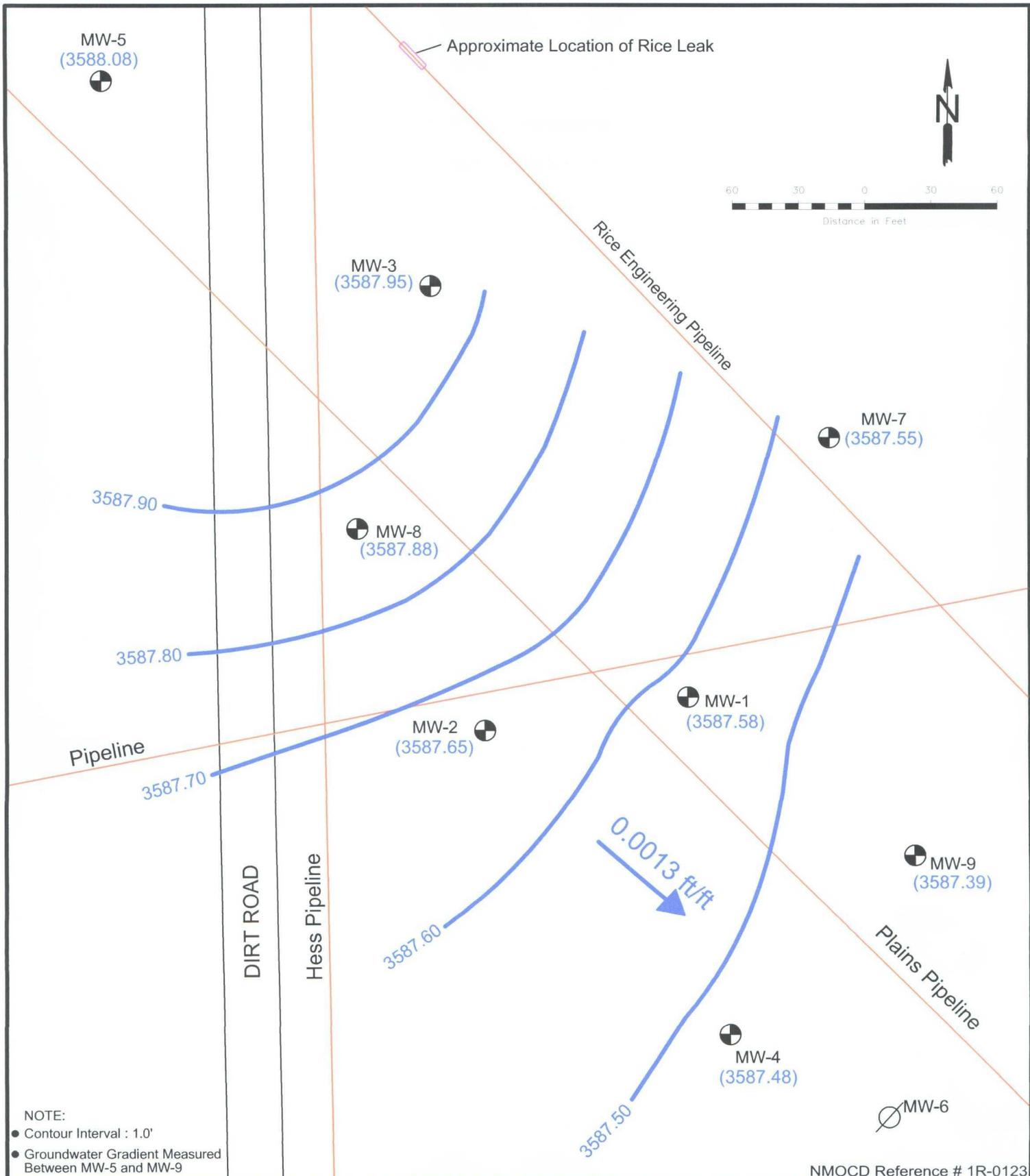


2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

February 08, 2010 Lat. N32° 37' 57.7" Long. W103° 16' 31.6"

Scale: 1" = 60' CAD By: SAT Checked By: RKR

SE1/4 NW1/4 Sec.29 T19S R37E



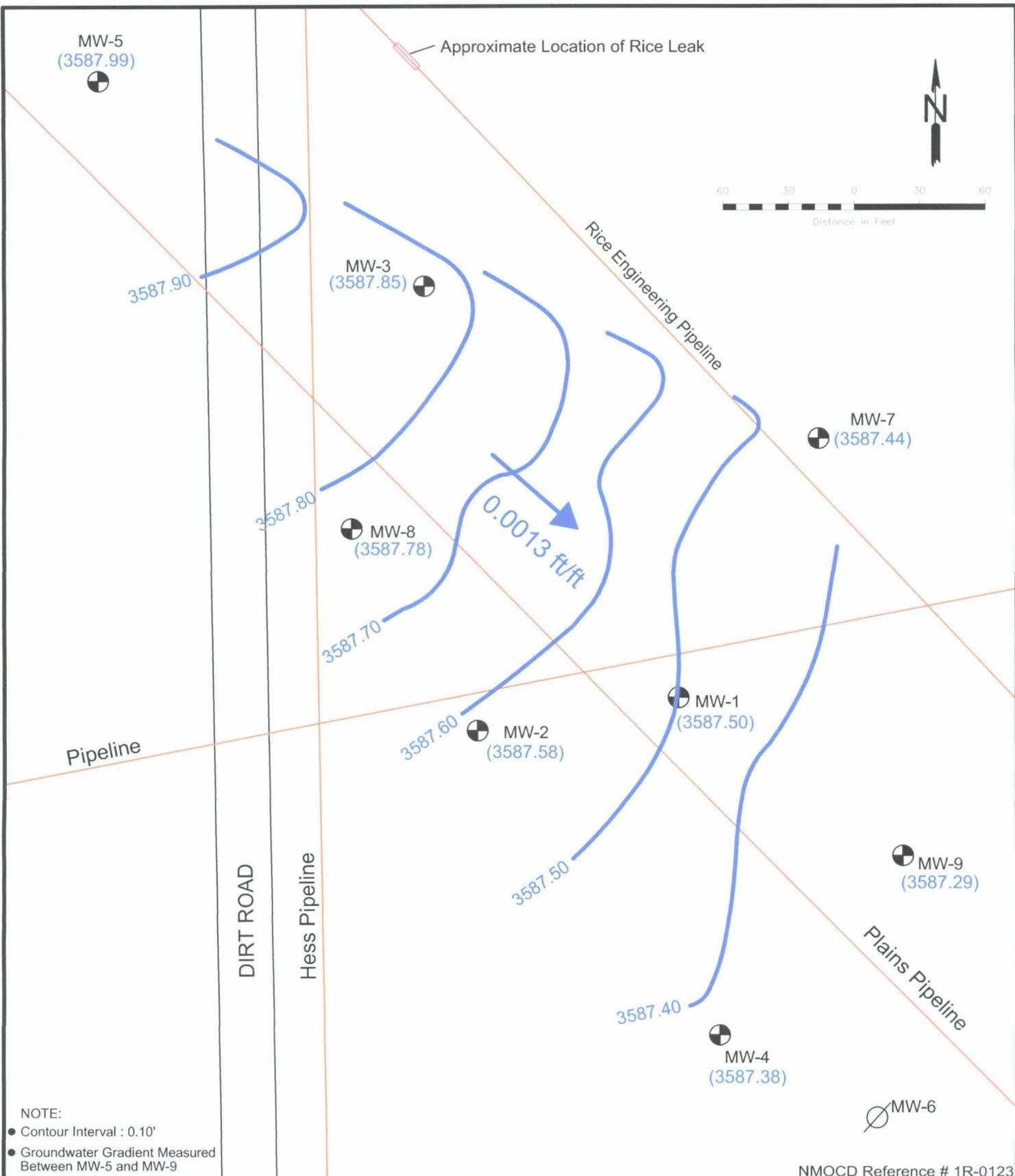
NOTE:
 ● Contour Interval : 1.0'
 ● Groundwater Gradient Measured Between MW-5 and MW-9

NMOCD Reference # 1R-0123

| LEGEND: | | |
|---------|----------------------------|--|
| | Monitor Well Locations | (3587.54) Groundwater Elevation |
| | Ground Water Contour Lines | 0.001 ft/ft Groundwater Gradient and Magnitude |
| | Plugged and Abandoned Well | |

Figure 2C
 Inferred Groundwater
 Gradient Map
 (08/06/09)
 Plains Marketing, L.P.
 Monument 17
 Lea County, NM

| | | | |
|------------------------------|---|---|--|
| | | 2057 Commerce Drive Midland, Texas 79703 432.520.7720 www.novasafetyandenvironmental.com | |
| October 04, 2009 | Lat. N32° 37' 57.7" Long. W103° 16' 31.6" | | |
| Scale: 1" = 60' | CAD By: SAT | Checked By: RKR | |
| SE1/4 NW1/4 Sec.29 T19S R37E | | | |



NOTE:
 • Contour Interval : 0.10'
 • Groundwater Gradient Measured Between MW-5 and MW-9

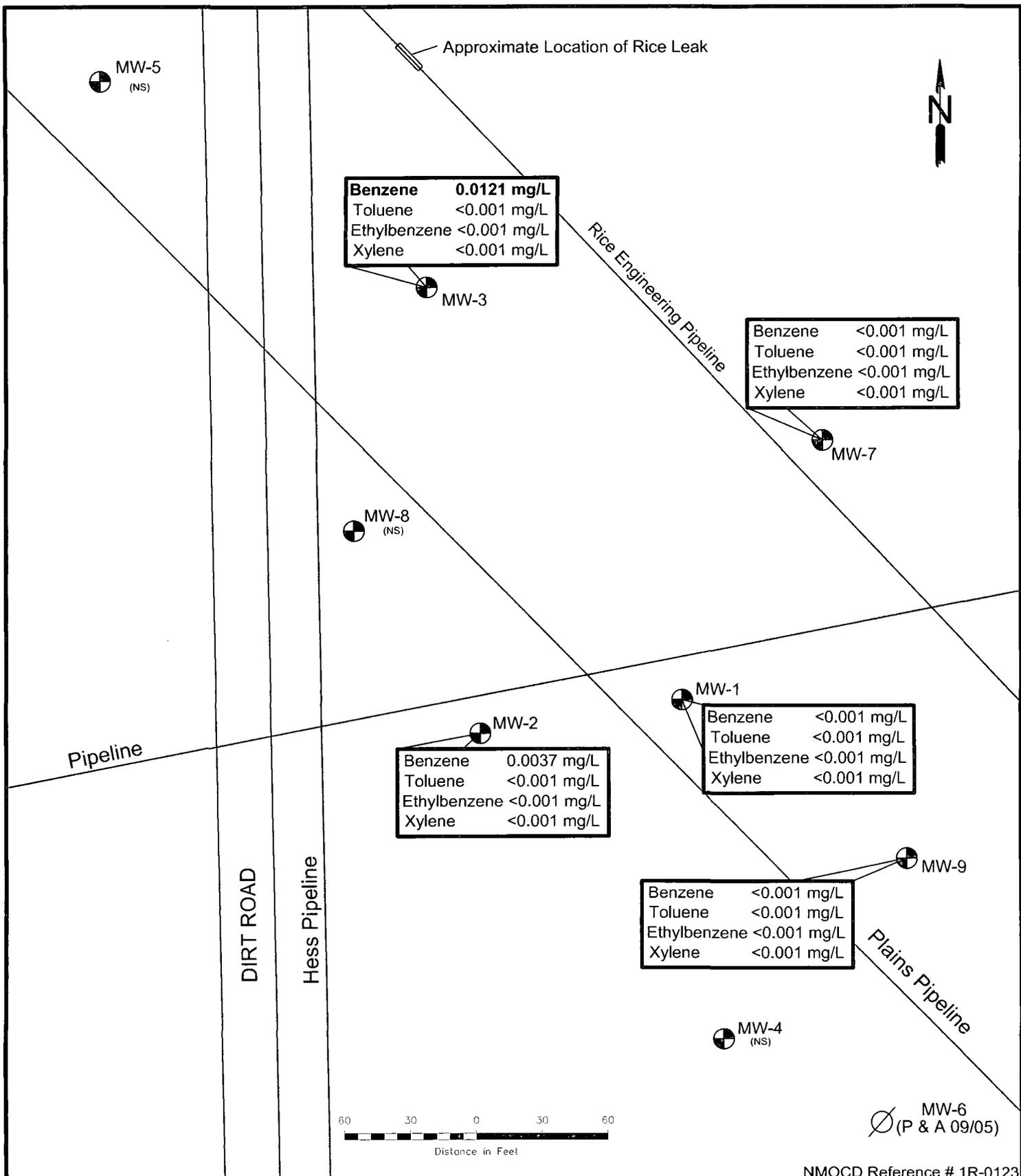
NMOCD Reference # 1R-0123

LEGEND:

| | | | |
|--|----------------------------|--|------------------------------------|
| | Monitor Well Locations | | Groundwater Elevation |
| | Ground Water Contour Lines | | Groundwater Gradient and Magnitude |
| | Plugged and Abandoned Well | | |

Figure 2D
 Inferred Groundwater
 Gradient Map
 (11/05/09)
 Plains Marketing, L.P.
 Monument 17
 Lea County, NM

| | | | |
|------------------------------|-------------|---|---|
| safety and environmental | | 2057 Commerce Drive Midland, Texas 79703 432.520.7720 www.novasafetyandenvironmental.com | |
| | | December 29, 2009 | Lat. N32° 37' 57.7" Long. W103° 16' 31.6" |
| Scale: 1" = 60' | CAD By: SAT | Checked By: RKR | |
| SE1/4 NW1/4 Sec.29 T19S R37E | | | |



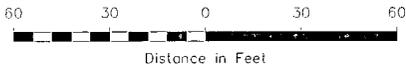
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Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L

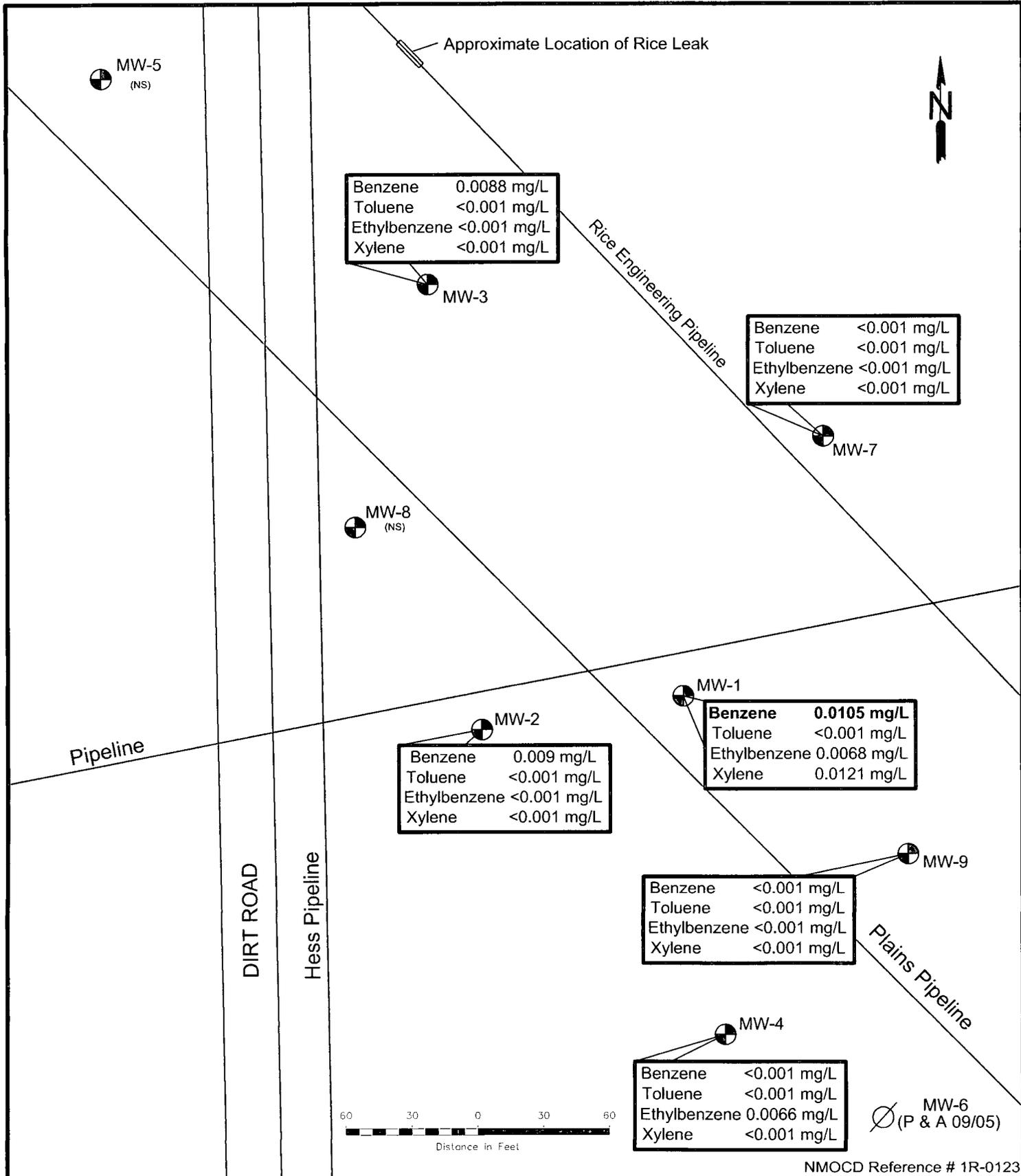
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L

Benzene 0.0037 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L

Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L

Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L





LEGEND:

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

Figure 3B
Groundwater Concentration
and Inferred PSH Extent
Map (05/14/09)
Plains Marketing, L.P.
Monument 17
Lea County, NM

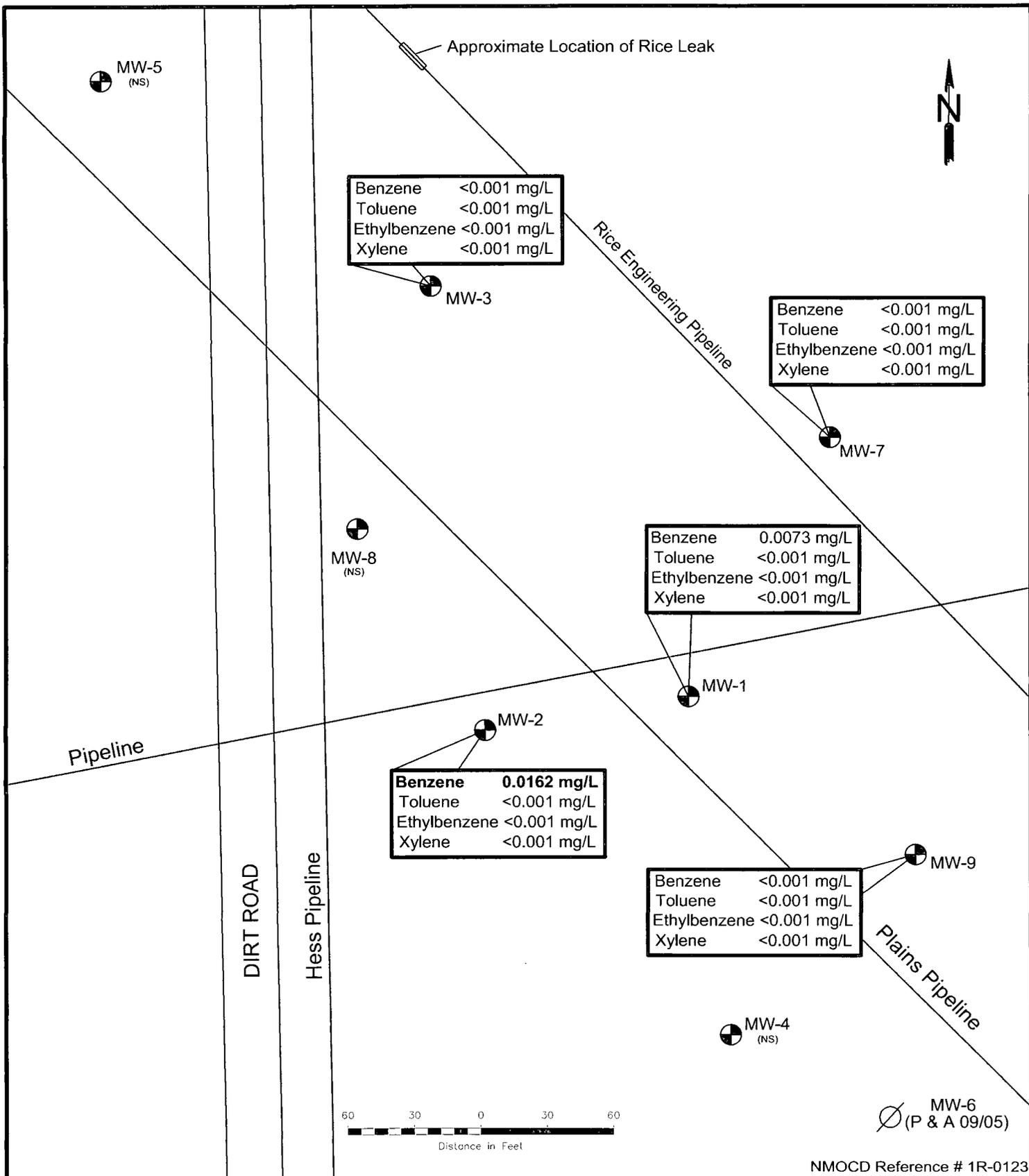


2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

October 04, 2009 Lat. N32° 37' 57.7" Long. W103° 16' 31.6"

Scale: 1" = 60' CAD By: SAT Checked By: RKR

SE1/4 NW1/4 Sec.29 T19S R37E



LEGEND:

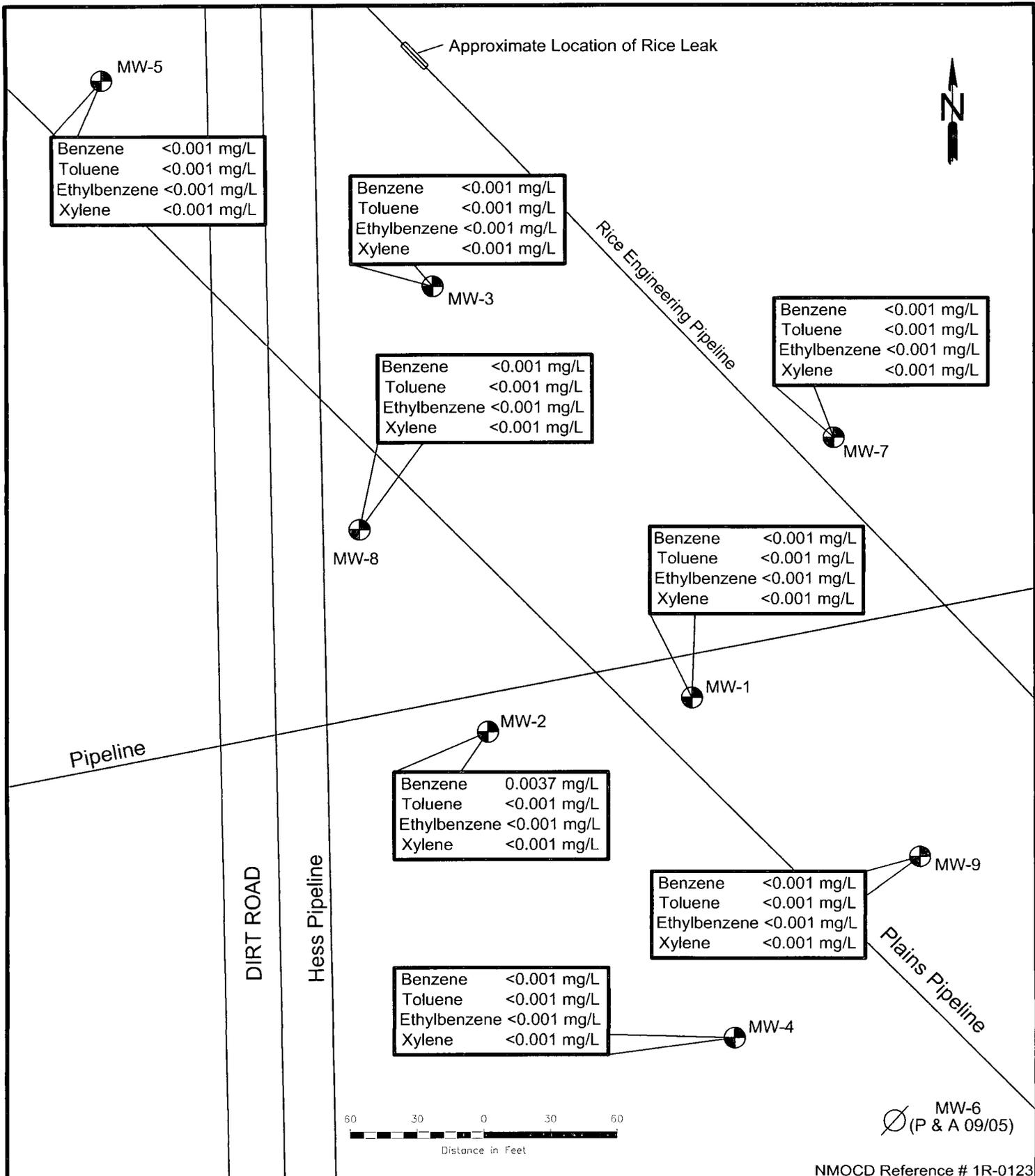
- Monitor Well Location
- Plugged and Abandoned Well Location
- Pipeline
- <0.001 Constituent Concentration (mg/L)
- (NS) Not Sampled

Figure 3C
 Groundwater Concentration
 and Inferred PSH Extent
 Map (08/06/09)
 Plains Marketing, L.P.
 Monument 17
 Lea County, NM



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 Midland, Texas 79703
 432.520.7720
 www.novasafetyandenvironmental.com

| | | |
|------------------------------|---|-----------------|
| October 04, 2009 | Lat. N32° 37' 57.7" Long. W103° 16' 31.6" | |
| Scale: 1" = 60' | CAD By: SAT | Checked By: RKR |
| SE1/4 NW1/4 Sec.29 T19S R37E | | |



Benzene <0.001 mg/L
 Toluene <0.001 mg/L
 Ethylbenzene <0.001 mg/L
 Xylene <0.001 mg/L

Benzene <0.001 mg/L
 Toluene <0.001 mg/L
 Ethylbenzene <0.001 mg/L
 Xylene <0.001 mg/L

Benzene <0.001 mg/L
 Toluene <0.001 mg/L
 Ethylbenzene <0.001 mg/L
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 Ethylbenzene <0.001 mg/L
 Xylene <0.001 mg/L

Benzene <0.001 mg/L
 Toluene <0.001 mg/L
 Ethylbenzene <0.001 mg/L
 Xylene <0.001 mg/L

Benzene 0.0037 mg/L
 Toluene <0.001 mg/L
 Ethylbenzene <0.001 mg/L
 Xylene <0.001 mg/L

Benzene <0.001 mg/L
 Toluene <0.001 mg/L
 Ethylbenzene <0.001 mg/L
 Xylene <0.001 mg/L

Benzene <0.001 mg/L
 Toluene <0.001 mg/L
 Ethylbenzene <0.001 mg/L
 Xylene <0.001 mg/L

Figure 3D
 Groundwater Concentration
 and Inferred PSH Extent
 Map (11/05/09)
 Plains Marketing, L.P.
 Monument 17
 Lea County, NM

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

October 04, 2009 Lat. N32° 37' 57.7" Long. W103° 16' 31.6"

Scale: 1" = 60' CAD By: SAT Checked By: RKR

SE1/4 NW1/4 Sec.29 T19S R37E

NMOCD Reference # 1R-0123



Tables

TABLE 1
2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

| SAMPLE LOCATION | SAMPLE DATE | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUND WATER ELEVATION |
|------------------------|--------------------|--------------------------------|-------------------------|-----------------------|----------------------|---|
| MW - 1 | 02/12/09 | 3,607.16 | - | 19.64 | 0.00 | 3,587.52 |
| MW - 1 | 05/14/09 | 3,607.16 | - | 19.13 | 0.00 | 3,588.03 |
| MW - 1 | 08/06/09 | 3,607.16 | - | 19.58 | 0.00 | 3,587.58 |
| MW - 1 | 11/05/09 | 3,607.16 | - | 19.66 | 0.00 | 3,587.50 |
| MW - 2 | 02/12/09 | 3,607.08 | - | 19.51 | 0.00 | 3,587.57 |
| MW - 2 | 05/14/09 | 3,607.08 | - | 19.95 | 0.00 | 3,587.13 |
| MW - 2 | 08/06/09 | 3,607.08 | - | 19.43 | 0.00 | 3,587.65 |
| MW - 2 | 11/05/09 | 3,607.08 | - | 19.50 | 0.00 | 3,587.58 |
| MW - 3 | 02/12/09 | 3,608.43 | - | 20.58 | 0.00 | 3,587.85 |
| MW - 3 | 05/14/09 | 3,608.43 | - | 20.65 | 0.00 | 3,587.78 |
| MW - 3 | 08/06/09 | 3,608.43 | - | 20.48 | 0.00 | 3,587.95 |
| MW - 3 | 11/05/09 | 3,608.43 | - | 20.58 | 0.00 | 3,587.85 |
| MW - 4 | 02/12/09 | 3,606.12 | - | 18.72 | 0.00 | 3,587.40 |
| MW - 4 | 05/14/09 | 3,606.12 | - | 23.83 | 0.00 | 3,582.29 |
| MW - 4 | 08/06/09 | 3,606.12 | - | 18.64 | 0.00 | 3,587.48 |
| MW - 4 | 11/05/09 | 3,606.12 | - | 18.74 | 0.00 | 3,587.38 |
| MW - 5 | 02/12/09 | 3,610.17 | - | 22.25 | 0.00 | 3,587.92 |
| MW - 5 | 05/14/09 | 3,610.17 | - | 20.55 | 0.00 | 3,589.62 |
| MW - 5 | 08/06/09 | 3,610.17 | - | 22.09 | 0.00 | 3,588.08 |
| MW - 5 | 11/05/09 | 3,610.17 | - | 22.18 | 0.00 | 3,587.99 |
| MW - 7 | 01/07/09 | 3,607.38 | - | 19.86 | 0.00 | 3,587.52 |
| MW - 7 | 01/16/09 | 3,607.38 | - | 19.88 | 0.00 | 3,587.50 |
| MW - 7 | 02/09/09 | 3,607.38 | - | 19.90 | 0.00 | 3,587.48 |
| MW - 7 | 02/12/09 | 3,607.38 | - | 19.89 | 0.00 | 3,587.49 |
| MW - 7 | 02/26/09 | 3,607.38 | - | 19.90 | 0.00 | 3,587.48 |
| MW - 7 | 03/02/09 | 3,607.38 | - | 19.91 | 0.00 | 3,587.47 |
| MW - 7 | 03/04/09 | 3,607.38 | - | 19.91 | 0.00 | 3,587.47 |
| MW - 7 | 03/09/09 | 3,607.38 | - | 19.94 | 0.00 | 3,587.44 |
| MW - 7 | 03/17/09 | 3,607.38 | - | 19.96 | 0.00 | 3,587.42 |
| MW - 7 | 03/19/09 | 3,607.38 | - | 19.97 | 0.00 | 3,587.41 |
| MW - 7 | 03/25/09 | 3,607.38 | - | 19.95 | 0.00 | 3,587.43 |
| MW - 7 | 03/27/09 | 3,607.38 | - | 19.99 | 0.00 | 3,587.39 |
| MW - 7 | 03/30/09 | 3,607.38 | - | 20.01 | 0.00 | 3,587.37 |
| MW - 7 | 04/06/09 | 3,607.38 | - | 20.00 | 0.00 | 3,587.38 |
| MW - 7 | 04/08/09 | 3,607.38 | - | 19.92 | 0.00 | 3,587.46 |
| MW - 7 | 04/13/09 | 3,607.38 | - | 19.96 | 0.00 | 3,587.42 |
| MW - 7 | 04/15/09 | 3,607.38 | - | 19.95 | 0.00 | 3,587.43 |
| MW - 7 | 04/21/09 | 3,607.38 | - | 19.98 | 0.00 | 3,587.40 |
| MW - 7 | 04/27/09 | 3,607.38 | - | 19.96 | 0.00 | 3,587.42 |
| MW - 7 | 05/14/09 | 3,607.38 | - | 19.36 | 0.00 | 3,588.02 |
| MW - 7 | 06/10/09 | 3,607.38 | - | 20.01 | 0.00 | 3,587.37 |
| MW - 7 | 07/01/09 | 3,607.38 | - | 19.87 | 0.00 | 3,587.51 |
| MW - 7 | 07/10/09 | 3,607.38 | - | 19.88 | 0.00 | 3,587.50 |
| MW - 7 | 07/15/09 | 3,607.38 | - | 19.90 | 0.00 | 3,587.48 |
| MW - 7 | 07/21/09 | 3,607.38 | - | 19.91 | 0.00 | 3,587.47 |
| MW - 7 | 07/29/09 | 3,607.38 | - | 20.00 | 0.00 | 3,587.38 |
| MW - 7 | 07/30/09 | 3,607.38 | - | 20.04 | 0.00 | 3,587.34 |
| MW - 7 | 08/06/09 | 3,607.38 | - | 19.83 | 0.00 | 3,587.55 |
| MW - 7 | 08/07/09 | 3,607.38 | - | 20.03 | 0.00 | 3,587.35 |
| MW - 7 | 08/10/09 | 3,607.38 | - | 19.82 | 0.00 | 3,587.56 |
| MW - 7 | 08/17/09 | 3,607.38 | - | 18.84 | 0.00 | 3,588.54 |
| MW - 7 | 08/27/09 | 3,607.38 | - | 19.73 | 0.00 | 3,587.65 |
| MW - 7 | 08/31/09 | 3,607.38 | - | 19.71 | 0.00 | 3,587.67 |

TABLE 1
2009 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

| SAMPLE LOCATION | SAMPLE DATE | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUND WATER ELEVATION |
|------------------------|--------------------|--------------------------------|-------------------------|-----------------------|----------------------|---|
| MW - 7 | 09/11/09 | 3,607.38 | - | 19.78 | 0.00 | 3,587.60 |
| MW - 7 | 09/17/09 | 3,607.38 | - | 19.80 | 0.00 | 3,587.58 |
| MW - 7 | 09/24/09 | 3,607.38 | - | 19.81 | 0.00 | 3,587.57 |
| MW - 7 | 09/29/09 | 3,607.38 | - | 20.04 | 0.00 | 3,587.34 |
| MW - 7 | 09/30/09 | 3,607.38 | - | 19.84 | 0.00 | 3,587.54 |
| MW - 7 | 10/06/09 | 3,607.38 | - | 20.04 | 0.00 | 3,587.34 |
| MW - 7 | 10/20/09 | 3,607.38 | - | 19.87 | 0.00 | 3,587.51 |
| MW - 7 | 10/27/09 | 3,607.38 | - | 19.88 | 0.00 | 3,587.50 |
| MW - 7 | 11/05/09 | 3,607.38 | - | 19.94 | 0.00 | 3,587.44 |
| MW - 7 | 11/05/09 | 3,607.38 | - | 19.94 | 0.00 | 3,587.44 |
| MW - 8 | 02/12/09 | 3,607.99 | - | 20.21 | 0.00 | 3,587.78 |
| MW - 8 | 05/14/09 | 3,607.99 | - | 20.36 | 0.00 | 3,587.63 |
| MW - 8 | 08/06/09 | 3,607.99 | - | 20.11 | 0.00 | 3,587.88 |
| MW - 8 | 11/05/09 | 3,607.99 | - | 20.21 | 0.00 | 3,587.78 |
| MW - 9 | 02/12/09 | 3,606.83 | - | 19.64 | 0.00 | 3,587.19 |
| MW - 9 | 05/14/09 | 3,606.83 | - | 20.74 | 0.00 | 3,586.09 |
| MW - 9 | 08/06/09 | 3,606.83 | - | 19.44 | 0.00 | 3,587.39 |
| MW - 9 | 11/05/09 | 3,606.83 | - | 19.54 | 0.00 | 3,587.29 |

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

TABLE 2

2009 - CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
 MONUMENT 17
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

| SAMPLE LOCATION | SAMPLE DATE | Methods: SW 846-8021B, 5030 | | | | | |
|-------------------------------|-------------|--|-------------|---------------|----------------------|----------|--|
| | | BENZENE | TOLUENE | ETHYL-BENZENE | m, p - XYLENES | o-XYLENE | |
| NMOCD Regulatory Limit | | 0.0100 | 0.75 | 0.75 | Total XYLENES | | |
| | | | | | 0.62 | | |
| MW - 1 | 02/12/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| MW - 1 | 05/14/09 | 0.0105 | <0.001 | 0.0068 | 0.0126 | | |
| MW - 1 | 08/06/09 | 0.0073 | <0.001 | <0.001 | <0.001 | | |
| MW - 1 | 11/05/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| | | | | | | | |
| MW - 2 | 02/12/09 | 0.0037 | <0.001 | <0.001 | <0.001 | | |
| MW - 2 | 05/14/09 | 0.0090 | <0.001 | <0.001 | <0.001 | | |
| MW - 2 | 08/06/09 | 0.0162 | <0.001 | <0.001 | <0.001 | | |
| MW - 2 | 11/05/09 | 0.0037 | <0.001 | <0.001 | <0.001 | | |
| | | | | | | | |
| MW - 3 | 02/12/09 | 0.0121 | <0.001 | <0.001 | <0.001 | | |
| MW - 3 | 05/14/09 | 0.0088 | <0.001 | <0.001 | <0.001 | | |
| MW - 3 | 08/06/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| MW - 3 | 11/05/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| | | | | | | | |
| MW - 4 | 02/12/09 | Not Sampled on Current Sample Schedule | | | | | |
| MW - 4 | 05/14/09 | <0.001 | <0.001 | 0.0066 | <0.001 | | |
| MW - 4 | 08/06/09 | Not Sampled on Current Sample Schedule | | | | | |
| MW - 4 | 11/05/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| | | | | | | | |
| MW - 5 | 02/12/09 | Not Sampled on Current Sample Schedule | | | | | |
| MW - 5 | 05/14/09 | Not Sampled on Current Sample Schedule | | | | | |
| MW - 5 | 08/06/09 | Not Sampled on Current Sample Schedule | | | | | |
| MW - 5 | 11/05/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| | | | | | | | |
| MW - 7 | 02/12/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| MW - 7 | 05/14/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| MW - 7 | 08/06/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| MW - 7 | 11/05/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| | | | | | | | |
| MW - 8 | 02/12/09 | Not Sampled on Current Sample Schedule | | | | | |
| MW - 8 | 05/14/09 | Not Sampled on Current Sample Schedule | | | | | |
| MW - 8 | 08/06/09 | Not Sampled on Current Sample Schedule | | | | | |
| MW - 8 | 11/05/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| | | | | | | | |
| MW - 9 | 02/12/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| MW - 9 | 05/14/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| MW - 9 | 08/06/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| MW - 9 | 11/05/09 | <0.001 | <0.001 | <0.001 | <0.001 | | |

* Complete Historical tables are presented on the attached CD.



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 October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | | | |
|-----------------|------------------------------------|----------------|------------------|
| Name of Company | Plains Pipeline, LP | Contact: | Camille Reynolds |
| Address: | 3705 E. Hwy 158, Midland, TX 79706 | Telephone No. | 505-441-0965 |
| Facility Name | Monument # 17 | Facility Type: | Pipeline |

| | | |
|--|---------------|-----------|
| Surface Owner: New Mexico State Land Office | Mineral Owner | Lease No. |
|--|---------------|-----------|

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|-----------------|--------------|---------------|------------------|---------------|----------------|---------------|
| Unit Letter F | Section 29 | Township 19S | Range 37E | Feet from the | North/South Line | Feet from the | East/West Line | County Lea |
|------------------|---------------|-----------------|--------------|---------------|------------------|---------------|----------------|---------------|

Latitude 32 degrees 37' 57.7" N **Longitude** 103 degrees 16' 31.6" W

NATURE OF RELEASE

| | | |
|---|---|----------------------------|
| Type of Release: | Volume of Release: | Volume Recovered |
| Source of Release: | Date and Hour of Occurrence Unknown | Date and Hour of Discovery |
| Was Immediate Notice Given? Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required <input type="checkbox"/> | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Describe Area Affected and Cleanup Action Taken.*
NOTE: Texas-New Mexico Pipeline was the owner/operator of the pipeline system at the time of the release, initial response information is unavailable.

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

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

* Attach Additional Sheets If Necessary