1R - 123

Annual GW Mon. REPORTS

DATE:

2010

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MAR 29 2011

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

March 23, 2011

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

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

Dear Mr. Hansen:

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

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

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

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

Sincerely,

Jason Henry
Remediation Coordinator
Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM

Enclosures

2010
ANNUAL MONITORING REPORT

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

NOVA
safety and environmental

Prepared By:

NOVA Safety and Environmental
2057 Commerce Street
Midland, Texas 79703

March 2011

Ronald K. Rounsaville
Senior Project Manager

Brittan K. Byerly, P.G.
President

TABLE OF CONTENTS

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 2010 only. Historic data tables as well as 2010 laboratory analytical reports are provided on the enclosed disk. For reference, the Site Location Map is provided as Figure 1.

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

SITE DESCRIPTION AND BACKGROUND INFORMATION

The 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

Product Recovery Efforts

Based on gauging data collected during the 2010 reporting period, no monitor wells exhibited a measurable thickness of PSH during the reporting period.

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 5, May 3, August 9, and November 8, 2010. 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 2010 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 0.0024 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 3,587.24 and 3,589.12 feet above mean sea level, in monitor wells MW-9 on February 5, 2010 and MW-5 on August 9, 2010, respectively.

LABORATORY RESULTS

Groundwater samples obtained during the quarterly sampling events of 2010 were delivered to Trace Analysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method 8021B. Polynuclear Aromatic Hydrocarbons (PAH) analysis was not conducted during the 2010 calendar year as previous sampling events have not indicated PAH concentrations above WQCC standards. A listing of BTEX constituent concentrations for 2010 are summarized in Table 2 and the historic PAH constituent concentrations are summarized in Table 3. Copies of the laboratory reports generated for 2010 are provided on the enclosed data disk. The quarterly groundwater sample results for BTEX constituent concentrations are depicted on Figures 3A through 3D.

Monitor well MW-1 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 1st and 2nd quarters to 0.0081 mg/L during the 3rd quarter of the reporting period. Benzene concentrations were below the NMOCD regulatory standard of 0.01 mg/L during all four quarters of 2010. 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, 2nd and 3rd quarters to 0.0064 mg/L during the 4th quarter of the reporting period. Ethyl-benzene concentrations were below the NMOCD regulatory standard of 0.75 mg/L during all four quarters of 2010. Xylene concentrations were below laboratory

method detection limits (MDL) and NMOCD regulatory standard of 0.62 mg/L during all four quarters of the reporting period. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-2 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 1st and 2nd quarters to 0.0156 mg/L during the 4th quarter of the reporting period. Benzene concentrations were above NMOCD regulatory standards during the 4th 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 was not conducted during the 4th quarter sampling event.

Monitor well MW-3 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 2nd quarter to 0.0145 mg/L during the 3rd quarter of the reporting period. Benzene concentrations were above the NMOCD regulatory standard during the 3rd and 4th quarters of 2010. Toluene concentrations were below the MDL and NMOCD regulatory standard during all four quarters of the reporting period. Ethyl-benzene concentrations ranged from <0.001 mg/L during the 1st, 2nd and 4th quarters to 0.0038 mg/L during the 3rd quarter of the reporting period. Ethyl-benzene concentrations were below the NMOCD regulatory standard of 0.75 mg/L during all four quarters of 2010. Xylene concentrations ranged from <0.001 mg/L during the 1st, 2nd and 4th quarters to 0.0041 mg/L during the 4th quarter of the reporting period. Xylene concentrations were below the NMOCD regulatory standard during all four quarters of 2010. PAH analysis was not conducted during the 4th quarter sampling event.

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-nine consecutive monitoring events below NMOCD regulatory limits. PAH analysis was not conducted during the 4th quarter sampling event.

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-seven consecutive quarters. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-7 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 1st, 2nd and 3rd quarters to 0.0047 mg/L during the 4th quarter of the reporting period. Benzene concentrations were below NMOCD regulatory standards during all four quarters 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. Monitor well MW-7 has exhibited twenty consecutive monitoring events below NMOCD regulatory limits. PAH analysis was not conducted during the 4th quarter sampling event.

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

constituent during the 4th quarter sampling event. Monitor well MW-8 has exhibited twenty-five consecutive monitoring events below NMOCD regulatory limits. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-9 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory standards for each constituent during all four quarters of the reporting period. Monitor well MW-9 has exhibited sixteen consecutive monitoring events below NMOCD regulatory limits. PAH analysis was not conducted during the 4th quarter sampling event.

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 2010. 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 0.0024 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 two 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 2010 reporting period. PAH analysis was not conducted during the 4th quarter sampling event.

ANTICIPATED ACTIONS

Groundwater monitoring and quarterly sampling will continue through 2011. An annual groundwater monitoring report will be submitted by April 1, 2012.

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
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New Mexico Energy, Minerals and Natural Resources Department
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Oil Conservation Division, District 1
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Hobbs, NM 88240

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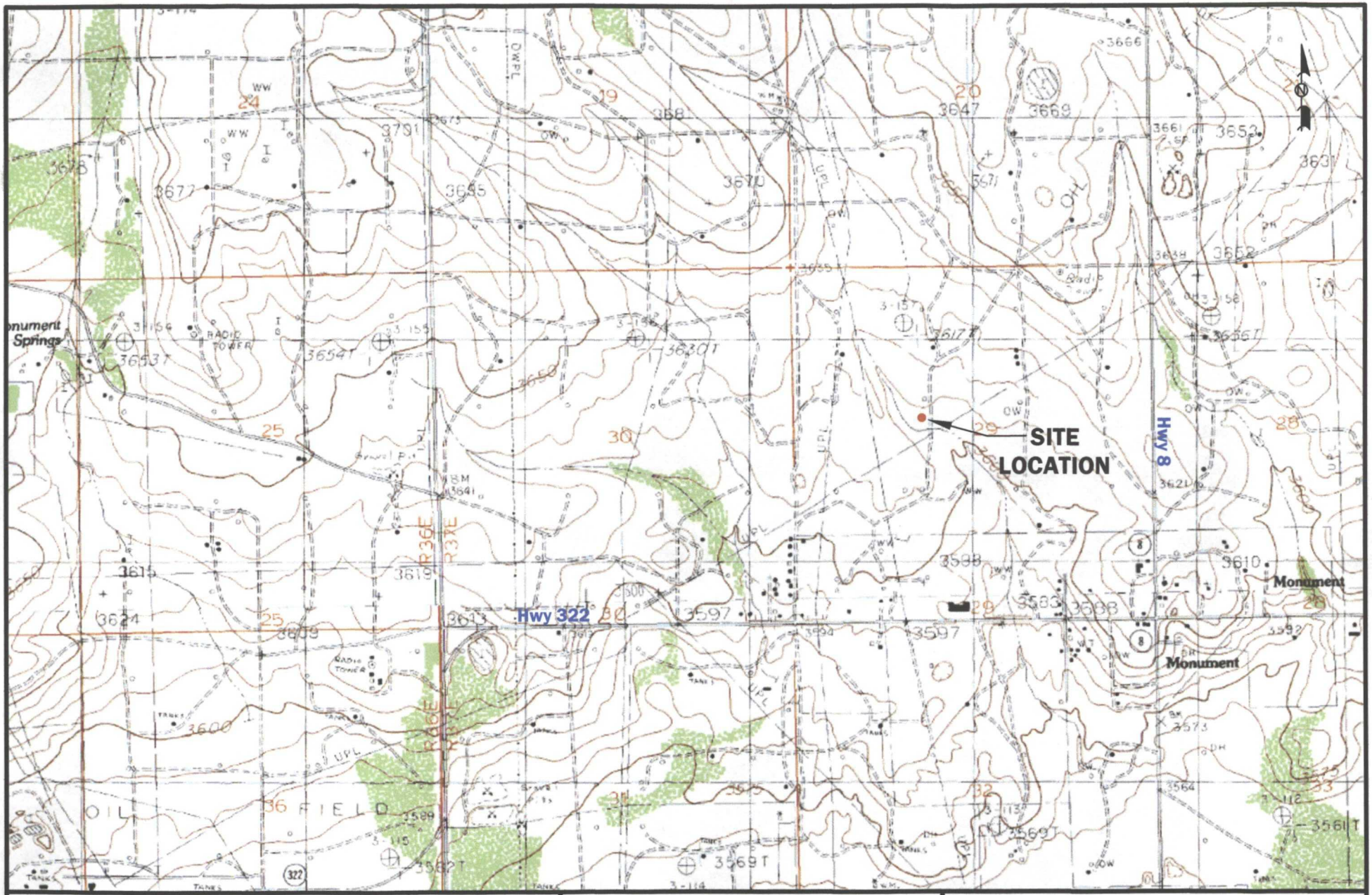
rrounsaville@novatraining.cc

Figures



LEGEND:

2000 1000 0 1000 2000

Distance in Feet

NMOCD Reference #1R-123

Figure 1
Site Location Map
Monument 17
Plains Marketing, L.P.
Lea County, NM

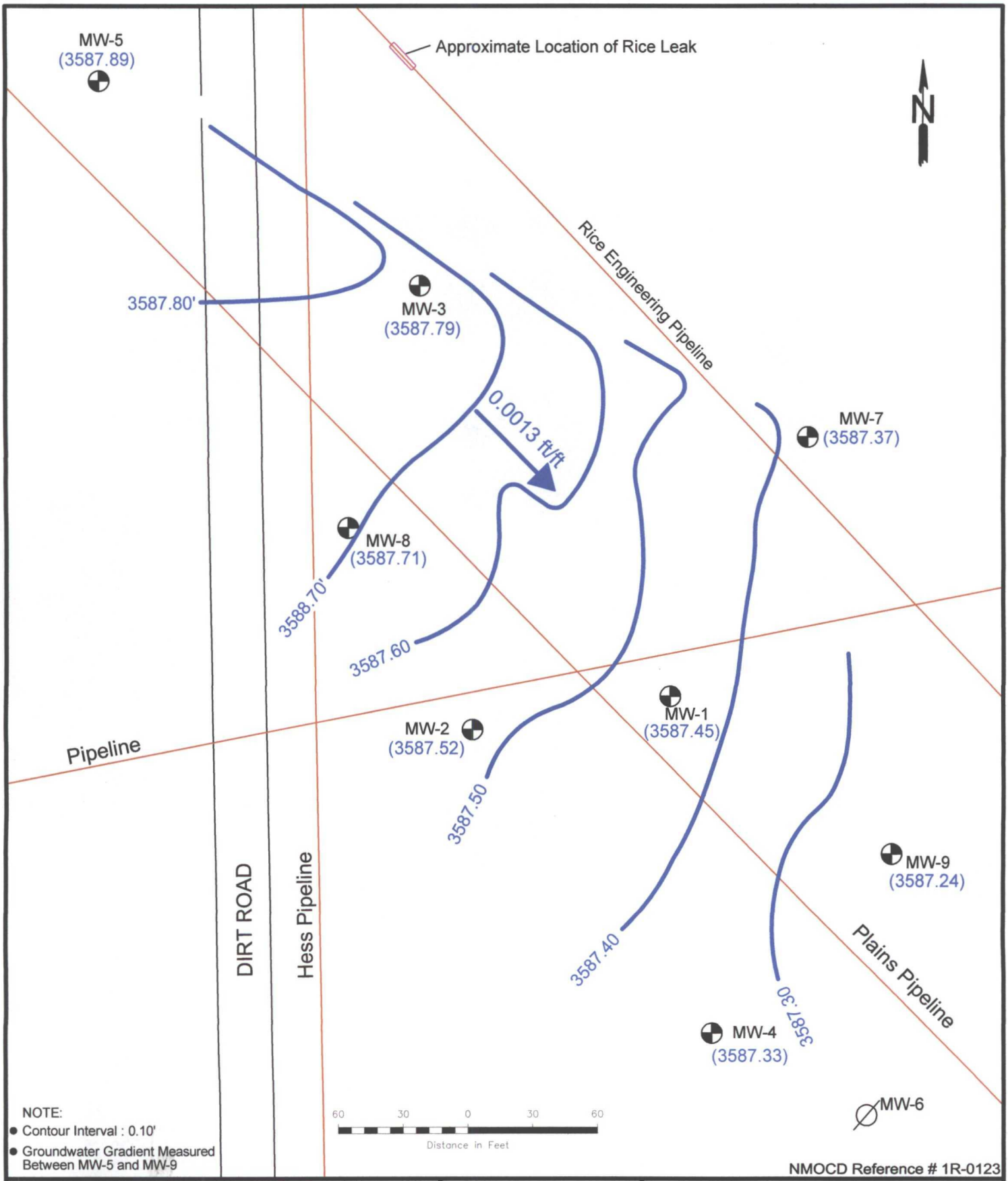
NOVA safety and environmental

2057 Commerce Drive
Midland, Texas 79703
432.520.7720

www.novasafetyandenvironmental.com

March 3, 2011	Scale: 1" = 2000'	CAD By: TA	Checked By: RKR

LATITUDE & LONGITUDE COORDINATES: N 32° 37' 59.34" W 103° 16' 33.78"



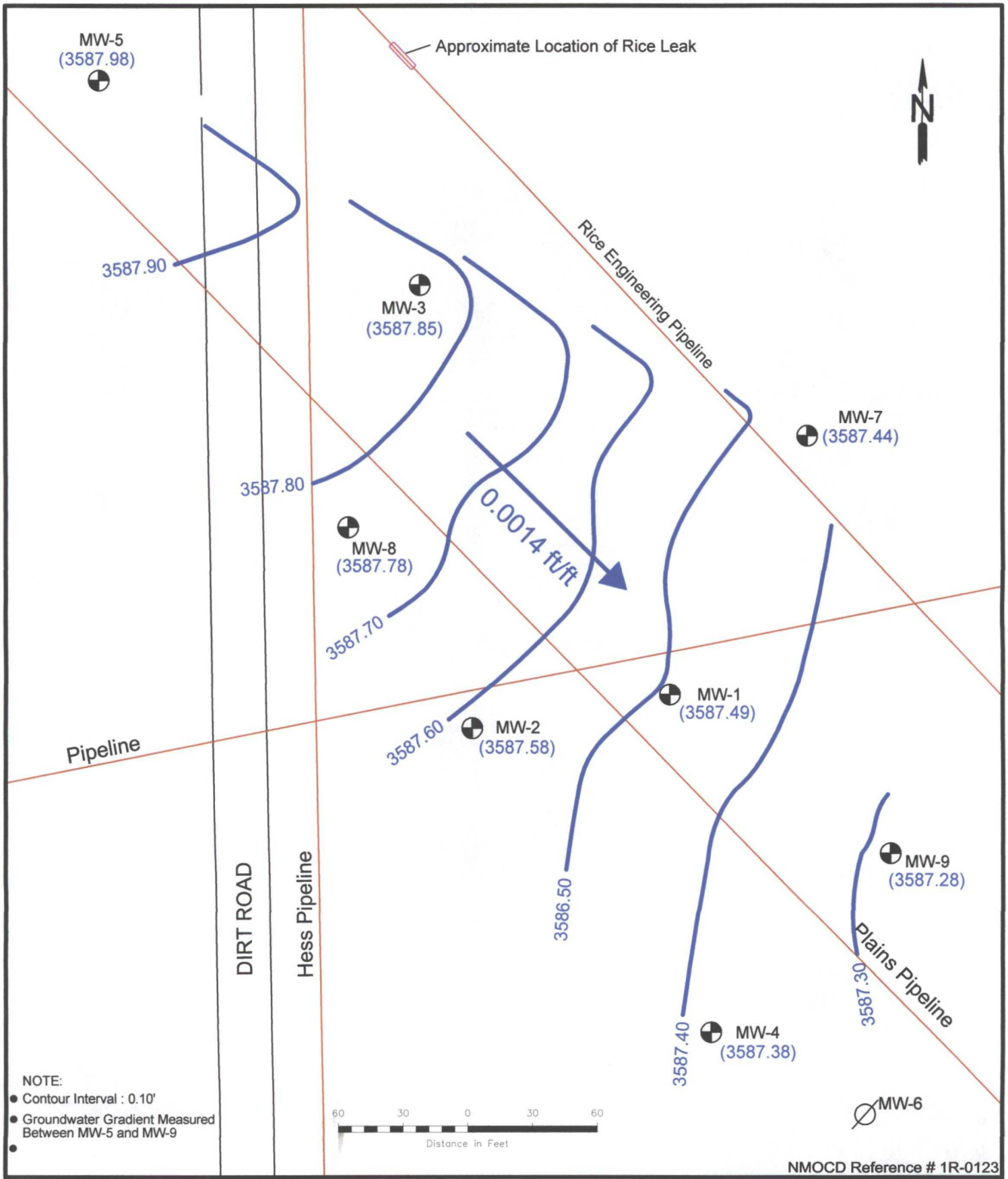
LEGEND:

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

Figure 2A
Inferred Groundwater Gradient Map
(02/05/10)
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

May 04, 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		



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
(05/03/10)
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

May 17, 2010	Lat. N32° 37' 57.7" Long. W103° 16' 31.6"	
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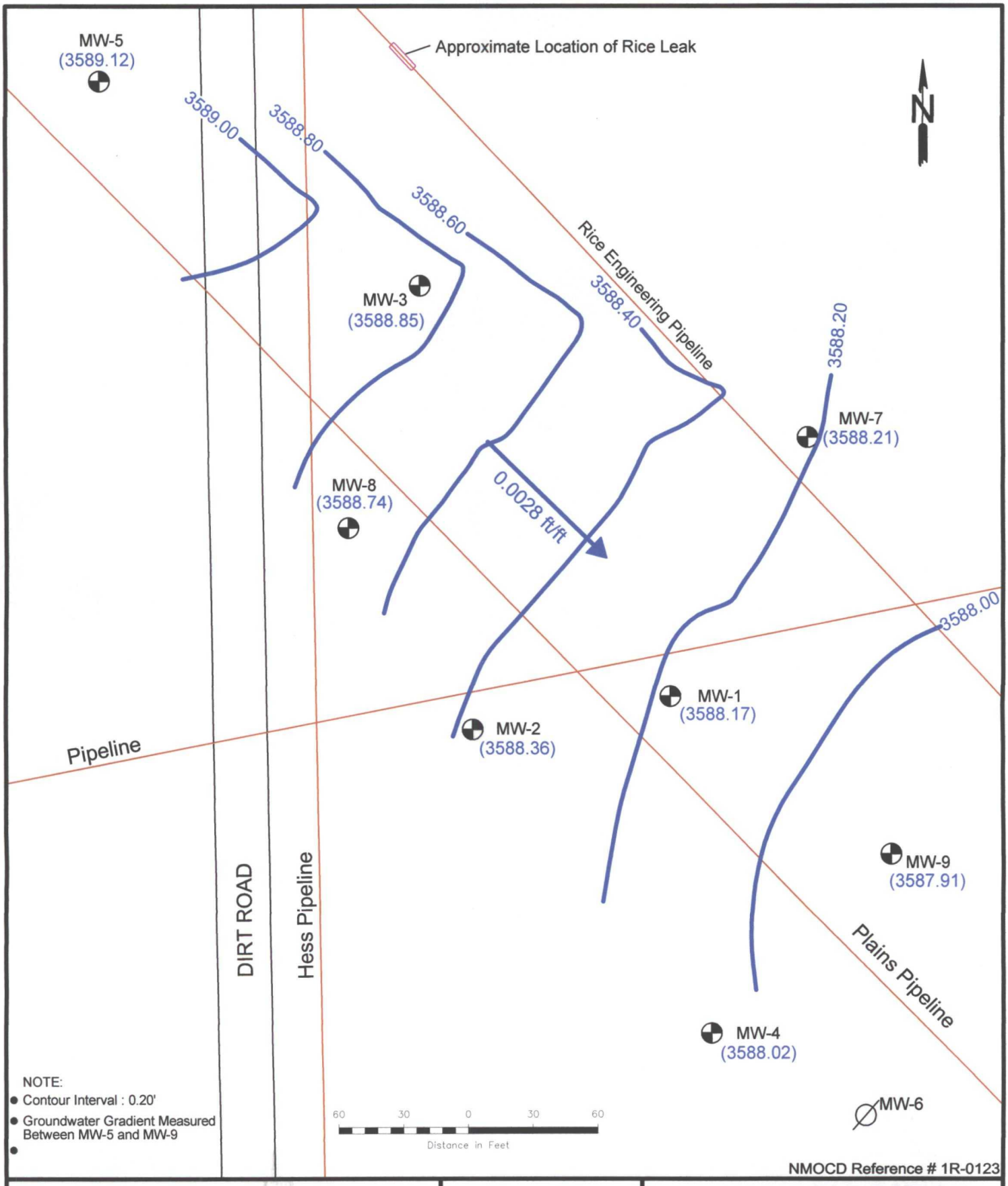
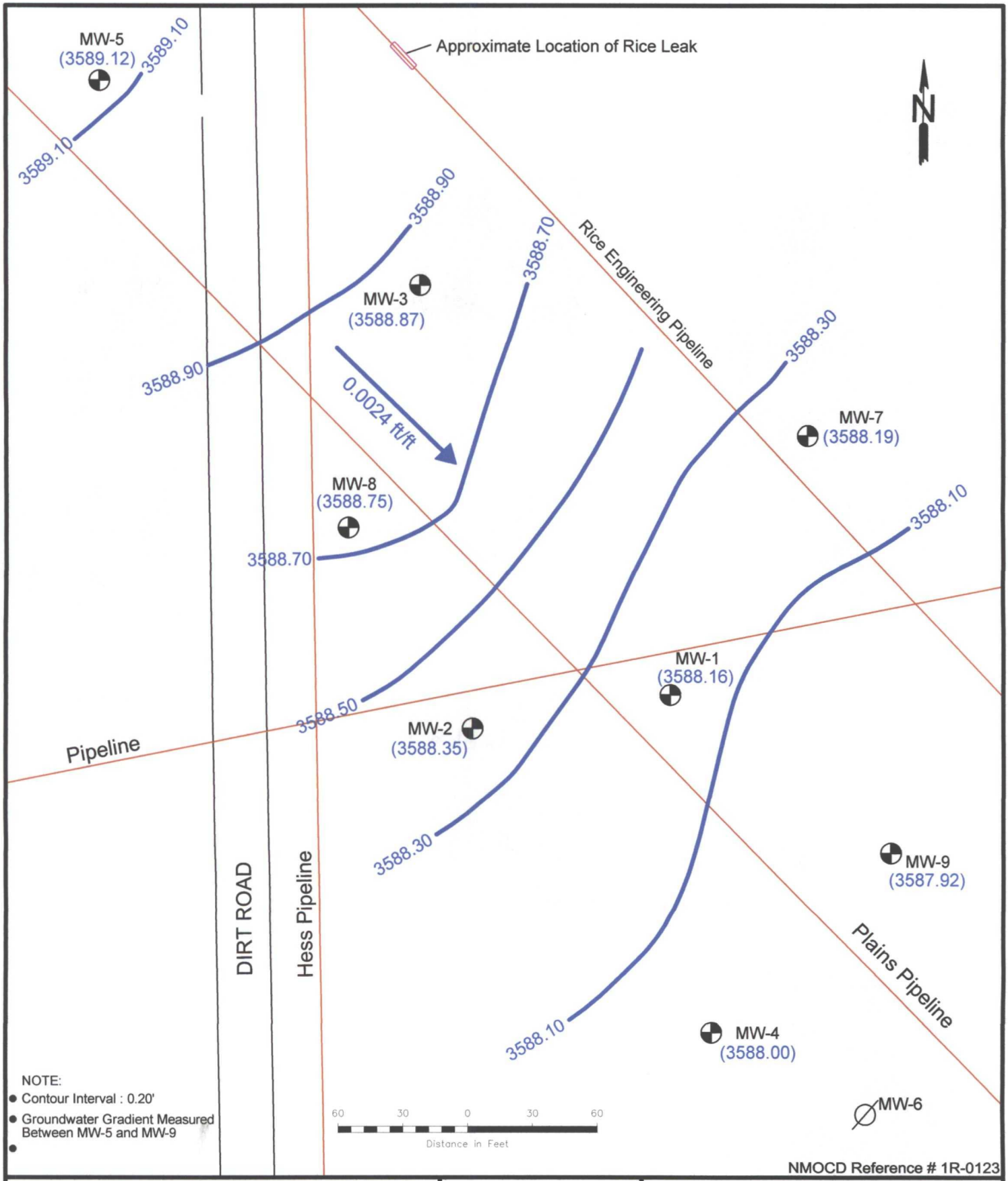


Figure 2C
Inferred Groundwater Gradient Map
(08/09/10)
Plains Marketing, L.P.
Monument 17
Lea County, NM

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

September 8, 2010	Lat. N32° 37' 57.7" Long. W103° 16' 31.6"	
Scale: 1' = 60'	CAD By: TA	Checked By: RKR
SE1/4 NW1/4 Sec.29 T19S R37E		



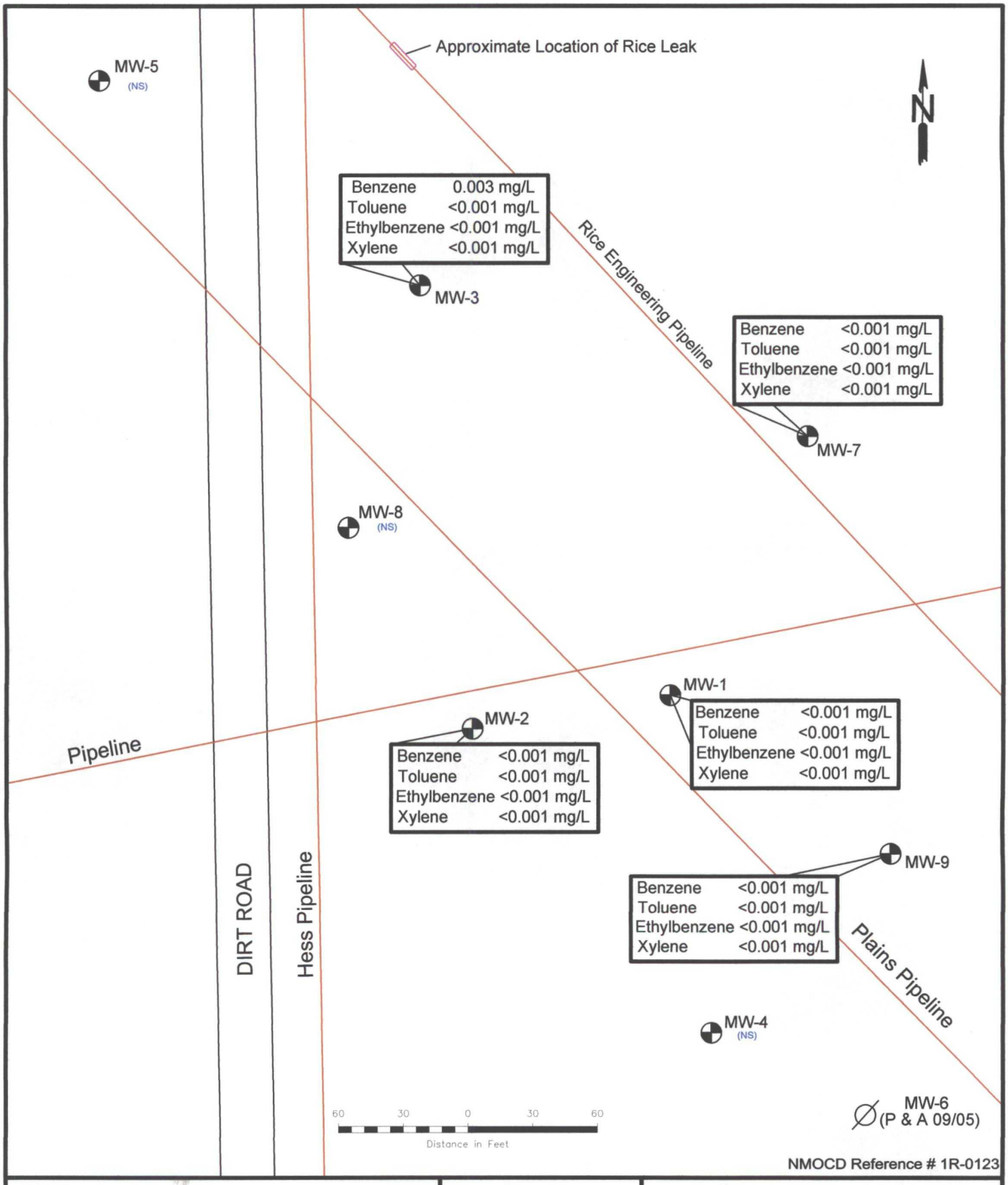
LEGEND:

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

Figure 2D
Inferred Groundwater Gradient Map
(11/18/10)
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

December 8, 2010	Lat. N32° 37' 57.7" Long. W103° 16' 31.6"	
Scale: 1' = 60'	CAD By: TA	Checked By: CJB
SE1/4 NW1/4 Sec.29 T19S R37E		



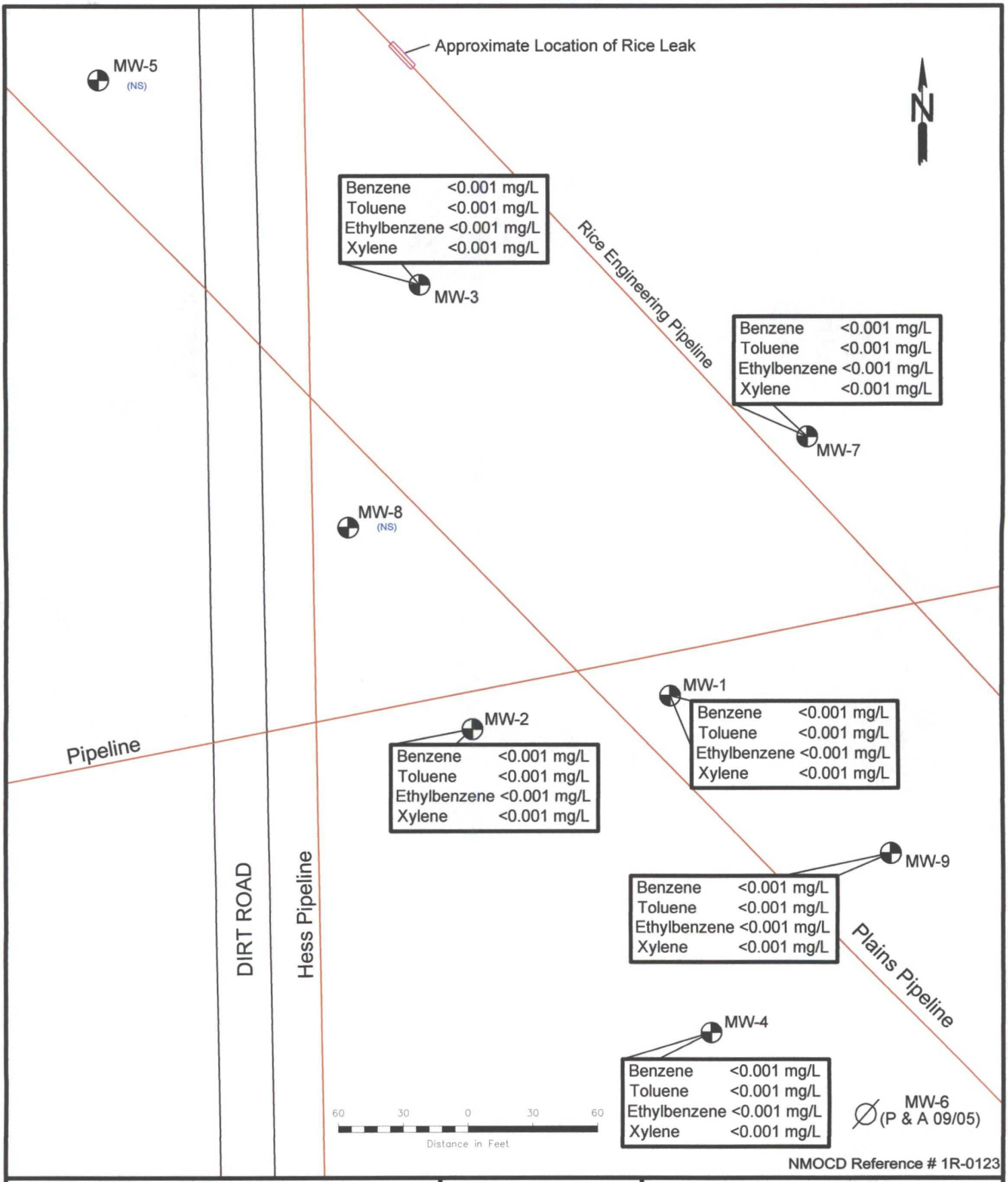
LEGEND:

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

Figure 3A
Groundwater Concentration and Inferred PSH Extent Map (02/05/10)
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

May 04, 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		



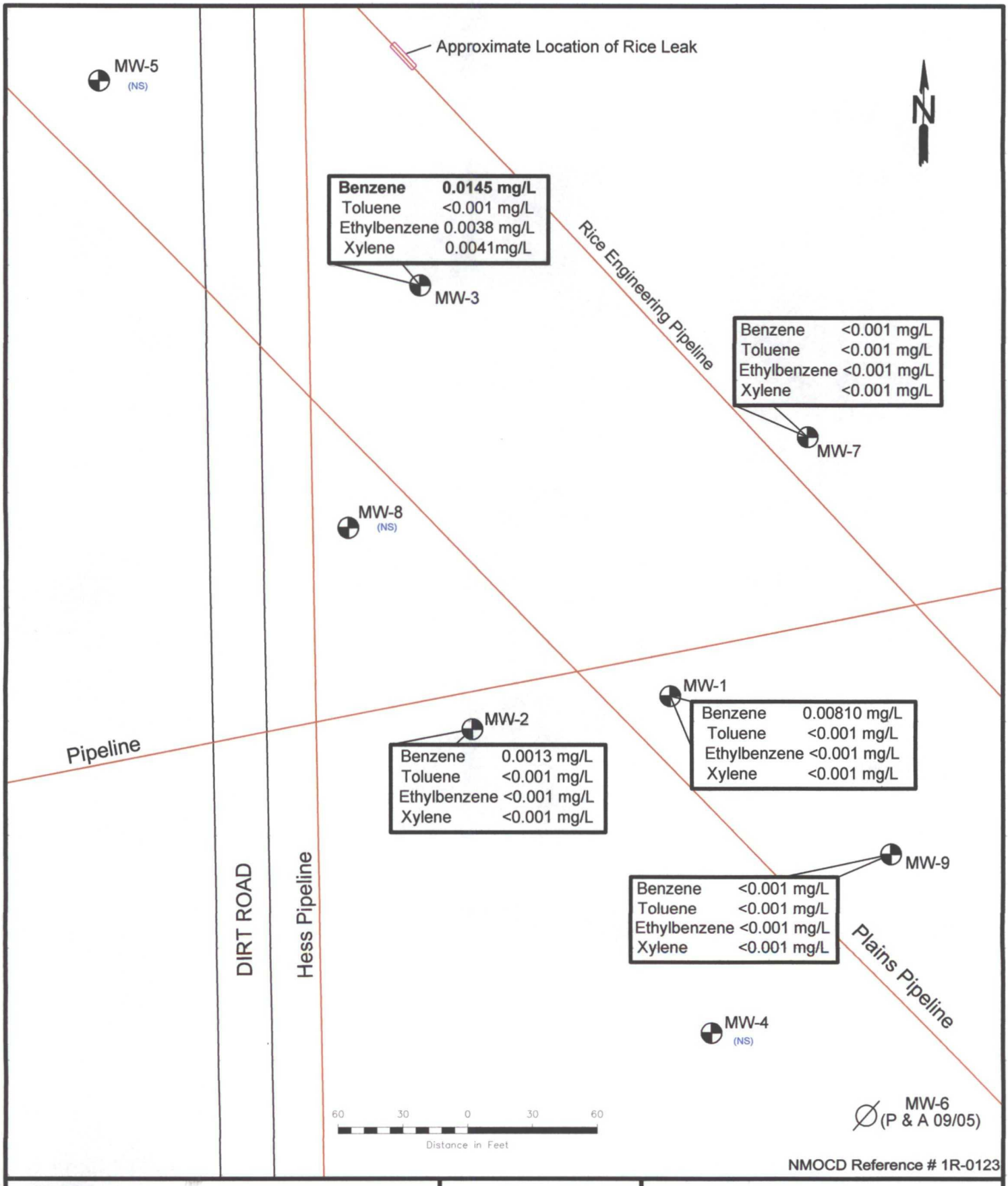
LEGEND:

- 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 (05/03/10)
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		



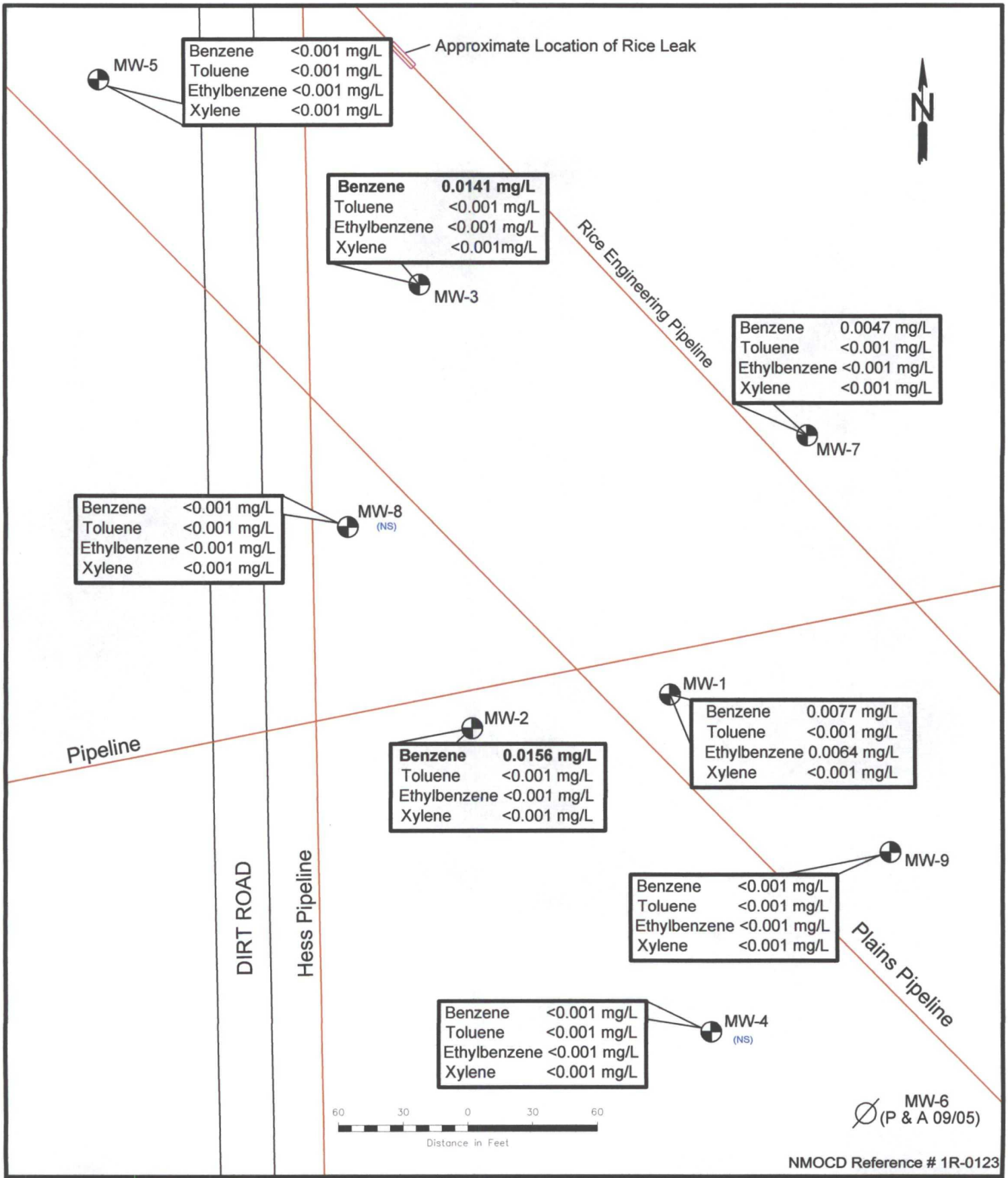
LEGEND:

- 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 (08/09/10)
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

September 8, 2010	Lat. N32° 37' 57.7" Long. W103° 16' 31.6"	
Scale: 1' = 60'	CAD By: TA	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 3D
Groundwater Concentration and Inferred PSH Extent Map (11/08/10)
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

December 8, 2010	Lat. N32° 37' 57.7" Long. W103° 16' 31.6"	
Scale: 1' = 60'	CAD By: TA	Checked By: CJB
SE1/4 NW1/4 Sec.29 T19S R37E		

Tables

TABLE 1

GROUNDWATER ELEVATION DATA - 2010

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	01/12/10	3,607.16	-	19.64	0.00	3,587.52
MW - 1	*02/05/10*	3,607.16	-	19.71	0.00	3,587.45
MW - 1	*05/03/10*	3,607.16	-	19.67	0.00	3,587.49
MW - 1	*08/09/10*	3,607.16	-	18.99	0.00	3,588.17
MW - 1	*11/08/10*	3,607.16	-	19.00	0.00	3,588.16
MW - 2	01/12/10	3,607.08	-	19.51	0.00	3,587.57
MW - 2	*02/05/10*	3,607.08	-	19.56	0.00	3,587.52
MW - 2	*05/03/10*	3,607.08	-	19.50	0.00	3,587.58
MW - 2	*08/09/10*	3,607.08	-	18.72	0.00	3,588.36
MW - 2	*11/08/10*	3,607.08	-	18.73	0.00	3,588.35
MW - 3	*02/05/10*	3,608.43	-	20.64	0.00	3,587.79
MW - 3	*05/03/10*	3,608.43	-	20.58	0.00	3,587.85
MW - 3	*08/09/10*	3,608.43	-	19.58	0.00	3,588.85
MW - 3	*11/08/10*	3,608.43	-	19.56	0.00	3,588.87
MW - 4	01/12/10	3,606.12	-	18.73	0.00	3,587.39
MW - 4	*02/05/10*	3,606.12	-	18.79	0.00	3,587.33
MW - 4	*05/03/10*	3,606.12	-	18.74	0.00	3,587.38
MW - 4	*08/09/10*	3,606.12	-	18.10	0.00	3,588.02
MW - 4	*11/08/10*	3,606.12	-	18.12	0.00	3,588.00
MW - 5	01/12/10	3,610.17	-	22.19	0.00	3,587.98
MW - 5	*02/08/10*	3,610.17	-	22.28	0.00	3,587.89
MW - 5	*05/03/10*	3,610.17	-	22.19	0.00	3,587.98
MW - 5	*08/09/10*	3,610.17	-	21.05	0.00	3,589.12
MW - 5	*11/08/10*	3,610.17	-	21.05	0.00	3,589.12
MW - 6	09/13/05	PLUGGED & ABANDONED				
MW - 7	01/12/10	3,607.38	-	19.96	0.00	3,587.42
MW - 7	*02/05/10*	3,607.38	-	20.01	0.00	3,587.37
MW - 7	03/01/10	3,607.38		20.02	0.00	3,587.36
MW - 7	04/15/10	3,607.38	-	20.06	0.00	3,587.32
MW - 7	*05/03/10*	3,607.38	-	19.94	0.00	3,587.44
MW - 7	06/07/10	3,607.38	-	19.96	0.00	3,587.42
MW - 7	06/25/10	3,607.38	-	20.06	0.00	3,587.32
MW - 7	07/16/10	3,607.38	-	19.03	0.00	3,588.35
MW - 7	07/30/10	3,607.38	-	19.13	0.00	3,588.25
MW - 7	*08/09/10*	3,607.38	-	19.17	0.00	3,588.21
MW - 7	08/20/10	3,607.38	-	19.22	0.00	3,588.16
MW - 7	09/10/10	3,607.38	-	19.20	0.00	3,588.18
MW - 7	09/24/10	3,607.38	-	19.26	0.00	3,588.12
MW - 7	10/08/10	3,607.38	-	19.40	0.00	3,587.98
MW - 7	*11/08/10*	3,607.38	-	19.19	0.00	3,588.19
MW - 7	11/19/10	3,607.38	-	19.53	0.00	3,587.85
MW - 7	12/03/10	3,607.38	-	19.58	0.00	3,587.80

TABLE 1

GROUNDWATER ELEVATION DATA - 2010

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 - 8	01/12/10	3,607.99	-	20.23	0.00	3,587.76
MW - 8	*02/05/10*	3,607.99	-	20.28	0.00	3,587.71
MW - 8	*05/03/10*	3,607.99	-	20.21	0.00	3,587.78
MW - 8	*08/09/10*	3,607.99	-	19.25	0.00	3,588.74
MW - 8	*11/08/10*	3,607.99	-	19.24	0.00	3,588.75
MW - 9	01/12/10	3,606.83	-	19.56	0.00	3,587.27
MW - 9	*02/05/10*	3,606.83	-	19.59	0.00	3,587.24
MW - 9	*05/03/10*	3,606.83	-	19.55	0.00	3,587.28
MW - 9	*08/09/10*	3,606.83	-	18.92	0.00	3,587.91
MW - 9	*11/08/10*	3,606.83	-	18.91	0.00	3,587.92

Elevations based on the North America Vertical Datum of 1929.

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER - 2010

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	02/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 1	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 1	08/09/10	0.0081	<0.001	<0.001	<0.001	
MW - 1	11/08/10	0.0077	<0.001	0.0064	<0.001	
MW - 2	02/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 2	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 2	08/09/10	0.0013	<0.001	<0.001	<0.001	
MW - 2	11/08/10	**0.0156**	<0.001	<0.001	<0.001	
MW - 3	02/05/10	0.0030	<0.001	<0.001	<0.001	
MW - 3	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/09/10	**0.0145**	<0.001	0.0038	0.0041	
MW - 3	11/08/10	**0.0141**	<0.001	<0.001	<0.001	
MW - 4	02/05/10	Not Sampled on Current Sample Schedule				
MW - 4	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 4	08/09/10	Not Sampled on Current Sample Schedule				
MW - 4	11/08/10	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/05/10	Not Sampled on Current Sample Schedule				
MW - 5	05/03/10	Not Sampled on Current Sample Schedule				
MW - 5	08/09/10	Not Sampled on Current Sample Schedule				
MW - 5	11/08/10	<0.001	<0.001	<0.001	<0.001	
MW - 6	09/13/05	Plugged and Abandoned				
MW - 7	02/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/09/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/08/10	0.0047	<0.001	<0.001	<0.001	
MW - 8	02/05/10	Not Sampled on Current Sample Schedule				
MW - 8	05/03/10	Not Sampled on Current Sample Schedule				
MW - 8	08/09/10	Not Sampled on Current Sample Schedule				
MW - 8	11/08/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/09/10	<0.005	<0.005	<0.005	<0.005	
MW - 9	11/08/10	<0.001	<0.001	<0.001	<0.001	

TABLE 3

POLYCYCLIC AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-123

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		—	—	—	0.0001 mg/L	0.0007 mg/L	0.0002 mg/L	—	0.0002 mg/L	0.0002 mg/L	0.0003 mg/L	—	—	0.0004 mg/L	—	—	0.03 mg/L			—
MW-1	11/13/08	<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	0.000861
	11/05/09	<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	<0.000185
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-2	11/13/08	<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	<0.000185
	11/05/09	<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	<0.000185
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/13/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000252	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00159
	11/05/09	<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	0.000645
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-4	11/13/08	<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	<0.000185
	11/05/09	<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
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/13/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000408	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00117
	11/05/09	<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	0.000404
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/13/08	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	0.00262	<0.000926	0.00123	<0.000926	<0.000926	<0.000926	<0.000926	0.0065
	11/05/09	<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	0.0022
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/13/08	<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
	11/05/09	<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
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	11/13/08	<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	0.000223
	11/05/09	<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	<0.000185
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		

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

x Initial Report ☐ Final Report

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

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

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	29	19S	37E					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 ☐ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

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

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

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

* Attach Additional Sheets If Necessary