1R - 838

Annual GW Mon. REPORTS

DATE:

2007

PLAINS
ALL AMERICAN

RECEIVED
2008 APR 3 PM 2 05

March 31, 2008

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

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

Dear Mr. Hansen,

Pursuant to our phone conversation regarding the Annual Groundwater Monitoring Reports for the Plains Vacuum 10-Inch to Jal release site, NMOCD # 1R-0385 and the Lovington Gathering WTI release site, NMOCD #1R-838, the consultant for these sites has serious health issues and was unable to complete the reports. Enclosed are the Groundwater Concentration Maps, Groundwater Chemistry Tables and Groundwater Elevations Tables for each site. A complete report will be sent to your office as soon as possible. Plains greatly appreciates your understanding in this matter and will make every effort to submit the completed reports in a timely manner.

If you have any questions or require further information, please contact me at (505) 441-0965.

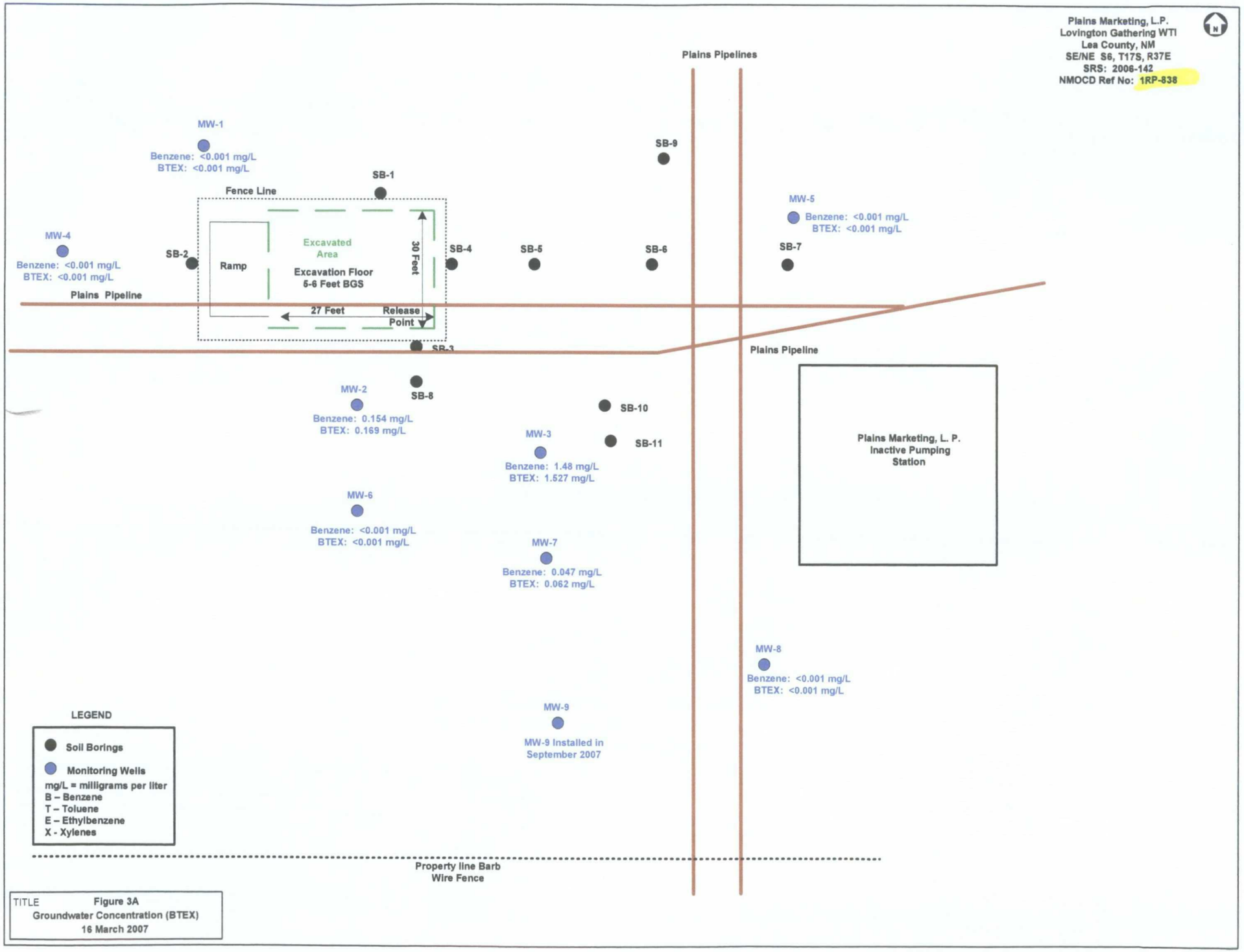
Sincerely,

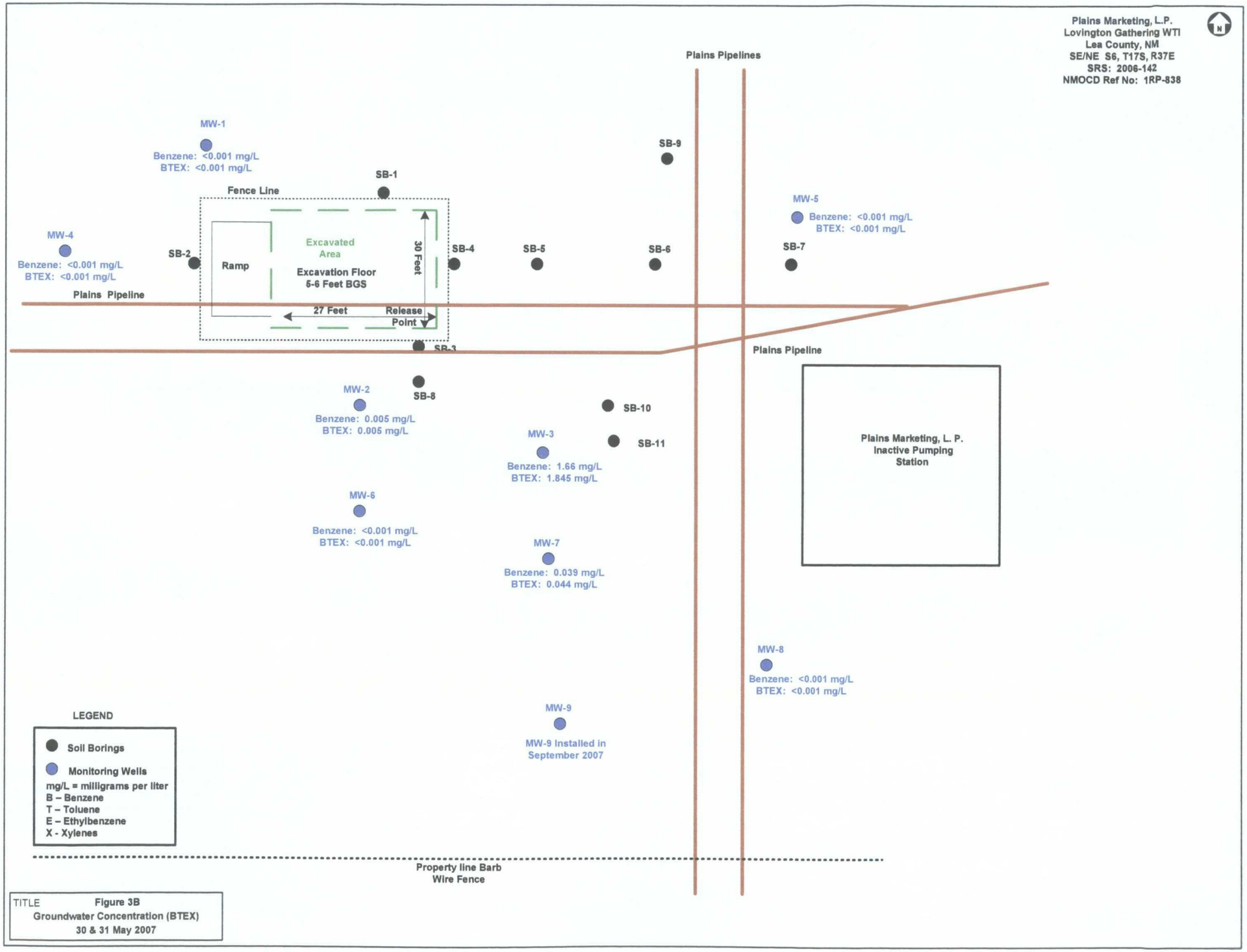
Camille Bryant

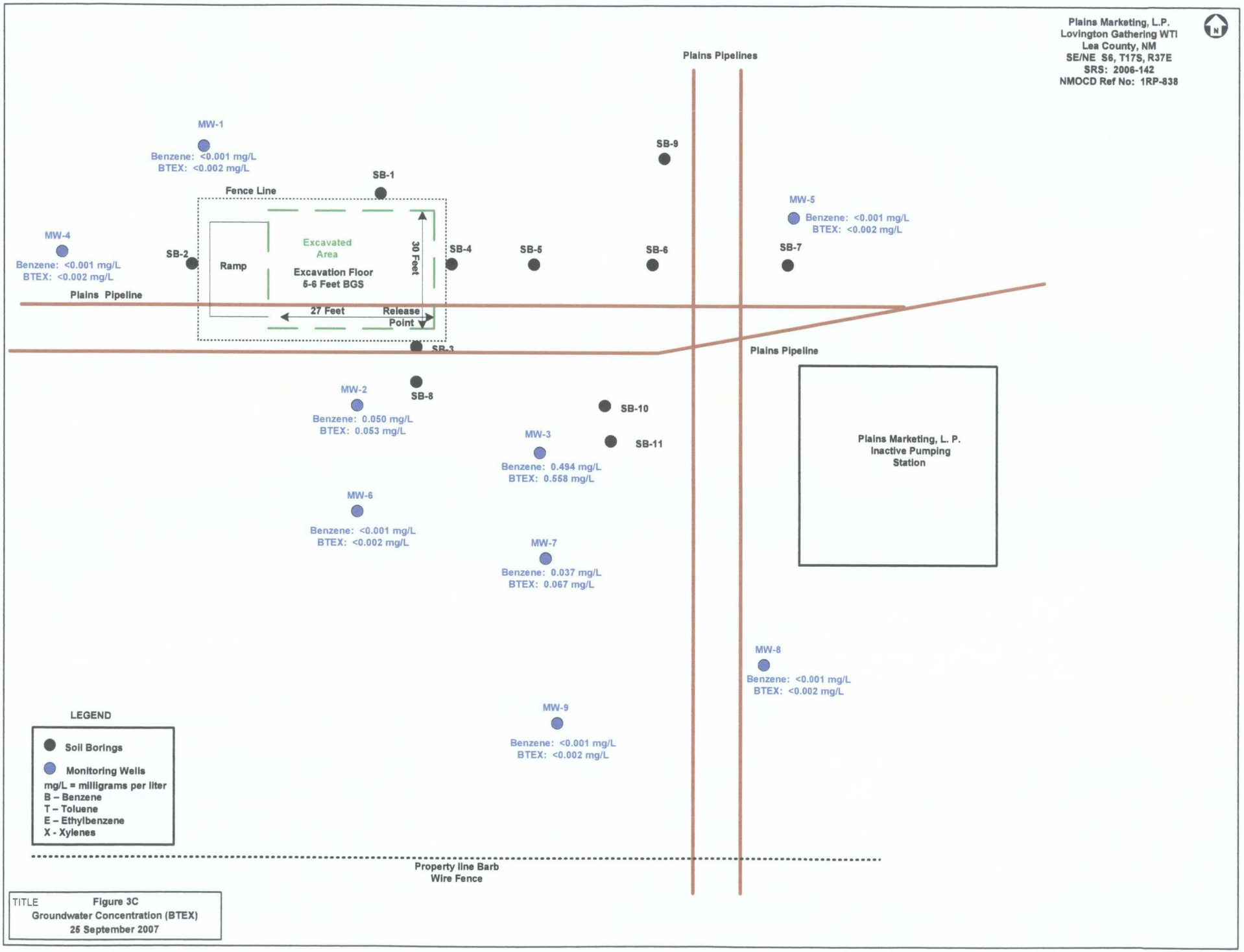
Camille Bryant
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures


Plains Marketing, L.P.
Lovington Gathering WTI
Lea County, NM
SE/NE S6, T17S, R37E
SRS: 2006-142
NMOCD Ref No: 1RP-838
Plains Pipelines
MW-1
Benzene: <0.001 mg/L
BTEX: <0.001 mg/L
SB-1
Fence Line
SB-9
MW-5
Benzene: <0.001 mg/L
BTEX: <0.001 mg/L
MW-4
Benzene: <0.001 mg/L
BTEX: <0.001 mg/L
SB-2
Ramp
Excavated Area
Excavation Floor
5-6 Feet BGS
30 Feet
SB-4
SB-5
SB-6
SB-7
Plains Pipeline
27 Feet
Release Point
SB-3
Plains Pipeline
MW-2
Benzene: 0.154 mg/L
BTEX: 0.169 mg/L
SB-8
SB-10
SB-11
MW-3
Benzene: 1.48 mg/L
BTEX: 1.527 mg/L
Plains Marketing, L. P.
Inactive Pumping
Station
MW-6
Benzene: <0.001 mg/L
BTEX: <0.001 mg/L
MW-7
Benzene: 0.047 mg/L
BTEX: 0.062 mg/L
MW-8
Benzene: <0.001 mg/L
BTEX: <0.001 mg/L
MW-9
MW-9 Installed in
September 2007
LEGEND
Soil Borings
Monitoring Wells
mg/L = milligrams per liter
B – Benzene
T – Toluene
E – Ethylbenzene
X - Xylenes
Property line Barb
Wire Fence
TITLE Figure 3A
Groundwater Concentration (BTEX)
16 March 2007


Plains Marketing, L.P.
Lovington Gathering WTI
Lea County, NM
SE/NE S6, T17S, R37E
SRS: 2006-142
NMOCD Ref No: 1RP-838
Plains Pipelines
MW-1
Benzene: <0.001 mg/L
BTEX: <0.001 mg/L
SB-1
Fence Line
SB-9
MW-5
Benzene: <0.001 mg/L
BTEX: <0.001 mg/L
MW-4
Benzene: <0.001 mg/L
BTEX: <0.001 mg/L
SB-2
Ramp
Excavated Area
Excavation Floor
5-6 Feet BGS
30 Feet
27 Feet
Release Point
SB-4
SB-5
SB-6
SB-7
Plains Pipeline
SB-3
Plains Pipeline
MW-2
Benzene: 0.005 mg/L
BTEX: 0.005 mg/L
SB-8
SB-10
SB-11
MW-3
Benzene: 1.66 mg/L
BTEX: 1.845 mg/L
Plains Marketing, L. P.
Inactive Pumping
Station
MW-6
Benzene: <0.001 mg/L
BTEX: <0.001 mg/L
MW-7
Benzene: 0.039 mg/L
BTEX: 0.044 mg/L
MW-8
Benzene: <0.001 mg/L
BTEX: <0.001 mg/L
MW-9
MW-9 Installed in
September 2007
LEGEND
Soil Borings
Monitoring Wells
mg/L = milligrams per liter
B – Benzene
T – Toluene
E – Ethylbenzene
X - Xylenes
Property line Barb
Wire Fence
TITLE
Figure 3B
Groundwater Concentration (BTEX)
30 & 31 May 2007


Plains Marketing, L.P.
Lovington Gathering WTI
Lea County, NM
SE/NE S6, T17S, R37E
SRS: 2006-142
NMOCD Ref No: 1RP-838
Plains Pipelines
MW-1
Benzene: <0.001 mg/L
BTEX: <0.002 mg/L
SB-1
Fence Line
SB-9
MW-5
Benzene: <0.001 mg/L
BTEX: <0.002 mg/L
MW-4
Benzene: <0.001 mg/L
BTEX: <0.002 mg/L
SB-2
Ramp
Excavated Area
Excavation Floor
5-6 Feet BGS
30 Feet
27 Feet
Release Point
SB-4
SB-5
SB-6
SB-7
Plains Pipeline
SB-3
Plains Pipeline
MW-2
Benzene: 0.050 mg/L
BTEX: 0.053 mg/L
SB-8
SB-10
SB-11
MW-3
Benzene: 0.494 mg/L
BTEX: 0.558 mg/L
Plains Marketing, L. P.
Inactive Pumping
Station
MW-6
Benzene: <0.001 mg/L
BTEX: <0.002 mg/L
MW-7
Benzene: 0.037 mg/L
BTEX: 0.067 mg/L
MW-8
Benzene: <0.001 mg/L
BTEX: <0.002 mg/L
MW-9
Benzene: <0.001 mg/L
BTEX: <0.002 mg/L
LEGEND
Soil Borings
Monitoring Wells
mg/L = milligrams per liter
B – Benzene
T – Toluene
E – Ethylbenzene
X - Xylenes
Property line Barb Wire Fence
TITLE Figure 3C
Groundwater Concentration (BTEX)
25 September 2007

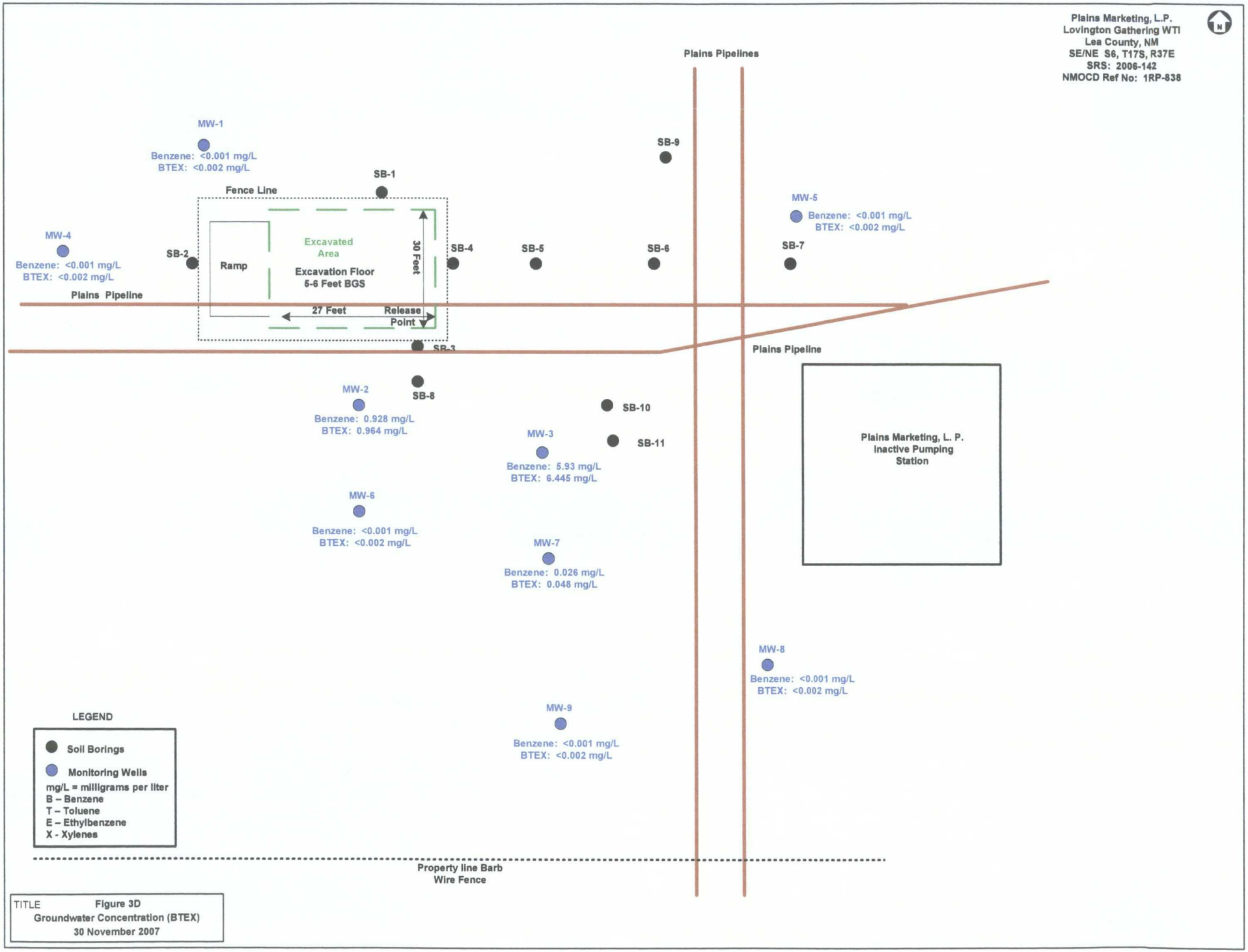

Plains Marketing, L.P.
Lovington Gathering WTI
Lea County, NM
SE/NE S6, T17S, R37E
SRS: 2006-142
NMOCD Ref No: 1RP-838
Plains Pipelines
MW-1
Benzene: <0.001 mg/L
BTEX: <0.002 mg/L
SB-1
Fence Line
SB-9
MW-5
Benzene: <0.001 mg/L
BTEX: <0.002 mg/L
MW-4
Benzene: <0.001 mg/L
BTEX: <0.002 mg/L
SB-2
Ramp
Excavated Area
Excavation Floor
5-6 Feet BGS
30 Feet
SB-4
SB-5
SB-6
SB-7
Plains Pipeline
27 Feet
Release Point
SB-3
Plains Pipeline
MW-2
Benzene: 0.928 mg/L
BTEX: 0.964 mg/L
SB-8
SB-10
SB-11
MW-3
Benzene: 5.93 mg/L
BTEX: 6.445 mg/L
Plains Marketing, L. P.
Inactive Pumping
Station
MW-6
Benzene: <0.001 mg/L
BTEX: <0.002 mg/L
MW-7
Benzene: 0.026 mg/L
BTEX: 0.048 mg/L
MW-8
Benzene: <0.001 mg/L
BTEX: <0.002 mg/L
MW-9
Benzene: <0.001 mg/L
BTEX: <0.002 mg/L
LEGEND
Soil Borings
Monitoring Wells
mg/L = milligrams per liter
B – Benzene
T – Toluene
E – Ethylbenzene
X - Xylenes
Property line Barb Wire Fence
TITLE Figure 3D
Groundwater Concentration (BTEX)
30 November 2007

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LOVINGTON GATHERING WTI
LEA COUNTY, NEW MEXICO
PLAINS SRS NO: 2006-142
NMOCD REF NO: 1RP-838

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 1	10/05/06	3,806.60	-	78.00	0.00	3,728.60
	12/28/06	3,806.60	-	78.00	0.00	3,728.60
	03/16/07	3,806.60	-	79.50	0.00	3,727.10
	05/31/07	3,806.60	-	78.97	0.00	3,727.63
	09/25/07	3,806.60	-	80.16	0.00	3,726.44
	11/30/07	3,806.60	-	79.94	0.00	3,726.66
MW - 2	10/05/06	3,806.31	-	77.94	0.00	3,728.37
	12/28/06	3,806.31	-	77.94	0.00	3,728.37
	03/16/07	3,806.31	-	79.13	0.00	3,727.18
	05/31/07	3,806.31	-	78.82	0.00	3,727.49
	09/25/07	3,806.31	-	80.13	0.00	3,726.18
	11/30/07	3,806.31	-	79.88	0.00	3,726.43
MW - 3	10/05/06	3,806.19	-	77.85	0.00	3,728.34
	12/28/06	3,806.19	-	77.85	0.00	3,728.34
	03/16/07	3,806.19	-	79.13	0.00	3,727.06
	05/31/07	3,806.19	-	78.73	0.00	3,727.46
	09/25/07	3,806.19	-	80.03	0.00	3,726.16
	11/30/07	3,806.19	-	79.77	0.00	3,726.42
MW-4	12/28/06	3,806.67	-	78.73	0.00	3,727.94
	03/16/07	3,806.67	-	79.17	0.00	3,727.50

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LOVINGTON GATHERING WTI
LEA COUNTY, NEW MEXICO
PLAINS SRS NO. 2006-142
NMOCD REF NO: 1RP-838

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
	05/30/07	3,806.67	-	79.09	0.00	3,727.58
	09/25/07	3,806.67	-	80.35	0.00	3,726.32
	11/30/07	3,806.67	-	80.09	0.00	3,726.58
MW-5	12/28/06	3,806.30	-	78.23	0.00	3,728.07
	03/16/07	3,806.30	-	78.79	0.00	3,727.51
	05/30/07	3,806.30	-	78.71	0.00	3,727.59
	09/25/07	3,806.30	-	79.89	0.00	3,726.41
	11/30/07	3,806.30	-	79.61	0.00	3,726.69
MW-6	12/28/06	3,806.08	-	78.42	0.00	3,727.66
	03/16/07	3,806.08	-	79.20	0.00	3,726.88
	05/30/07	3,806.08	-	78.75	0.00	3,727.33
	09/25/07	3,806.08	-	80.10	0.00	3,725.98
	11/30/07	3,806.08	-	79.73	0.00	3,726.35
MW-7	12/28/06	3,806.05	-	78.40	0.00	3,727.65
	03/16/07	3,806.05	-	79.35	0.00	3,726.70
	05/31/07	3,806.05	-	78.71	0.00	3,727.34
	09/25/07	3,806.05	-	80.09	0.00	3,725.96
	11/30/07	3,806.05	-	79.80	0.00	3,726.25

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LOVINGTON GATHERING WTI
LEA COUNTY, NEW MEXICO
PLAINS SRS NO. 2006-142
NMOCD REF NO: 1RP-838

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-8	03/16/07	3,805.89	-	78.78	0.00	3,727.11
	05/31/07	3,805.89	-	78.64	0.00	3,727.25
	09/25/07	3,805.89	-	80.03	0.00	3,725.86
	11/30/07	3,805.89	-	79.70	0.00	3,726.19
MW-9	09/25/07	3,806.02	-	80.38	0.00	3,725.64
	11/30/07	3,806.02	-	79.89	0.00	3,726.13

TABLE 2

CONCENTRATIONS OF BENZENE & BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
LOVINGTON GATHERING WTI
LEA COUNTY, NEW MEXICO
PLAINS SRS NO. 2006-142
NMOCD REF NO: 1RP-838

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8021B, 5030				
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M,P-XYLENES (mg/L)	O-XYLENES (mg/L)
MW-1	10/05/06	<0.001	<0.001	<0.001	<0.001	<0.001
	12/28/06	<0.001	<0.001	<0.001	<0.001	<0.001
	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
	05/31/07	<0.001	<0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
MW-2	10/05/06	0.010	<0.001	<0.001	<0.001	<0.001
	12/28/06	0.161	<0.001	<0.001	0.024	<0.001
	03/16/07	0.154	<0.001	<0.001	0.015	<0.001
	05/31/07	0.005	<0.001	<0.001	<0.001	<0.001
	09/25/07	0.050	<0.001	<0.001	0.003	<0.001
	11/30/07	0.928	<0.001	<0.005	0.036	<0.005
MW-3	10/05/06	6.60	<0.001	<0.001	0.072	<0.001
	12/28/06	1.02	<0.001	0.005	0.028	<0.001
	03/16/07	1.48	<0.001	0.013	0.034	<0.001
	05/31/07	1.66	0.010	0.034	0.029	0.012
	09/25/07	0.494	0.023	0.020	0.014	0.007
	11/30/07	5.93	0.027	0.273	0.141	0.074
MW-4	12/28/06	<0.001	<0.001	<0.001	<0.001	<0.001
	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
	05/30/07	<0.001	0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001

TABLE 2

CONCENTRATIONS OF BENZENE & BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
LOVINGTON GATHERING WTI
LEA COUNTY, NEW MEXICO
PLAINS SRS NO. 2006-142
NMOCD REF NO: 1RP-838

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8021B, 5030				
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M,P-XYLENES (mg/L)	O-XYLENES (mg/L)
MW-5	12/28/06	<0.001	<0.001	<0.001	<0.001	<0.001
	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
	05/30/07	<0.001	<0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
MW-6	12/28/06	<0.001	<0.001	<0.001	<0.001	<0.001
	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
	05/30/07	<0.001	<0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
MW-7	12/28/06	0.047	<0.001	<0.001	0.001	<0.001
	03/16/07	0.047	<0.001	<0.001	0.015	<0.001
	05/31/07	0.039	<0.001	<0.001	0.005	<0.001
	09/25/07	0.037	<0.001	<0.001	0.030	<0.001
	11/30/07	0.026	<0.002	<0.001	0.022	<0.001
MW-8	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
	05/31/07	<0.001	<0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
MW-9	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
NMOCD CRITERIA		**0.01**	**0.75**	**0.75**	**TOTAL XYLENES 0.62**	

Basin Environmental Service Technologies, LLC

2800 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
cstanley@basinenv.com
Office: (505) 396-2378 Fax: (505) 396-1429

Effective Solutions

2007
ANNUAL MONITORING REPORT

LOVINGTON GATHERING WTI
SE ¼ NE ¼ SECTION 6, TOWNSHIP 17 SOUTH, RANGE 37 EAST
LATITUDE 32°, 51', 56.0" NORTH, LONGITUDE 103°, 17', 07.2" WEST
LEA COUNTY, NEW MEXICO
PLAINS SRS NUMBER: 2006-0142
NMOCD REF: 1RP-838

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2008 JUL 10 PM 1 50

PREPARED FOR:

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

PREPARED BY:

BASIN ENVIRONMENTAL SERVICE TECHNOLOGIES, LLC
2800 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260

June 2008

Curt D. Stanley
Project Manager

PLAINS
ALL AMERICAN

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2008 JUL 10 PM 1 49

July 1, 2008

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

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

Dear Mr. Hansen,

Plains All American hereby submits the complete Annual Monitoring Reports for the following site:

Vacuum 10-Inch to Jal 1R385 Section 20, Township 19 South, Range 37 East, Lea County
Lovington Gathering WTI 1R838 Section 6, Township 17 South, Range 37 East, Lea County

The NMOCD granted Plains an extension for the submittal of these reports due to consultant health issues. Plains greatly appreciates your understanding in this matter. If you have any questions or require further information, please contact me at (505) 441-0965.

Sincerely,

Camille Bryant

Camille Bryant
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Plains Marketing, L.P., (Plains), prepared this annual report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an annual report by April 1 of each year. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. This report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2007 only. Site activities and remedial work are summarized in several letters and reports previously submitted to the NMOCD. For reference, the Site Location Map is provided as Figure 1.

At the request of NMOCD, initial groundwater monitoring was conducted during the fourth quarter of 2006 to assess any potential groundwater impact from dissolved phase benzene, toluene, ethylbenzene, and xylene (BTEX) constituents. The groundwater monitoring event consisted of measuring static water levels in the monitoring wells, checking for the presence of phase-separated hydrocarbons (PSH) on the water column, and purging and sampling of each well exhibiting sufficient recharge.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The legal description of the site is SE¼ NE¼ Section 6, Township 17 South, Range 37 East. The site latitude is 32°, 51', 56.0" North and the site longitude is 103°, 17', 07.2" West. On April 21, 2006, Basin responded to the pipeline release on behalf of Plains to repair the pipeline and excavate the impacted soil. The Lovington Gathering WTI Pipeline release was repaired using a pipeline clamp. The visually stained soil was excavated and placed on plastic sheeting to mitigate any further hydrocarbon impact to the underlying soil. Approximately 12 barrels of crude oil was released from the Plains pipeline and 8 barrels were recovered, resulting in a net loss of 4 barrels of crude oil. The excavated area was fenced and is characterized by a Plains pipeline right-of-way adjacent to an idled Plains pump station, the release occurred in a pasture containing various oil and gas production facilities. The release resulted in a visibly surface stained area covering an area approximately 30 feet in length by 27 feet in width. Excavation activities conducted during the initial response and subsequent remediation of the site covered an area approximately 30 feet long by 27 feet wide and ranged from approximately 5 to 6 feet in depth. Excavated soil was placed on a 6-mil poly-liner for future remedial action. Utilizing olfactory, visual and photo ionization detector (PID) technology it was determined Volatile Organic Compounds (VOCs) remained in the sidewalls and floor of the excavation.

In July 2006, a soil investigation was conducted to further delineate the horizontal and vertical extent of the on site hydrocarbon impact and eleven soil borings were advanced to a depth of 30 to 75 feet below ground surface (bgs). Based on the laboratory results of the soil samples collected during the advancement of the soil borings, three groundwater monitor wells (MW-1, MW-2 and MW-3) were installed to evaluate the condition of the groundwater.

Based on the laboratory analytical results from the initial groundwater sampling event (October 5, 2006), four additional monitor wells were installed in November 2006. During the installation of the groundwater monitor wells (MW1 through MW-7); there was no visual evidence of PSH

in any of the collected soil samples. The analytical results of the selected soil samples did not indicate BTEX or total petroleum hydrocarbon (TPH) concentrations above the laboratory method detection limit (MDL) with the exception of monitor well MW-3 which exhibited a total petroleum hydrocarbon (TPH) concentration of 2,080 mg/Kg and 121 mg/Kg, at 55 and 75 feet bgs, respectively.

The analytical results of groundwater sampling at monitor well MW-7 indicated additional monitor wells were required to fully delineate the down gradient boundary of the dissolved phase plume. On February 7, 2007, monitor well MW-8 was installed down gradient of monitor well MW-7. The analytical results of soil samples collected during the installation of monitor well MW-8 indicated benzene and BTEX concentrations were below the MDL and NMOCD regulatory standard of 10 mg/Kg and 50 mg/Kg for benzene and BTEX, respectively. The analytical results indicate TPH concentrations were below the MDL and NMOCD regulatory standard of 100 mg/Kg for soil samples collected at 10 and 25 feet bgs. Soil samples collected at 50 and 75 feet bgs exhibited a TPH concentration of 14 mg/Kg (below the NMOCD standard) and 101 mg/Kg, respectively.

On August 13, 2007, monitor well MW-9 was installed to further delineate the down gradient boundary of the dissolved phase plume. The analytical results of soil samples collected during the installation of monitor well MW-9 indicated benzene, BTEX and TPH concentrations were below the MDL and NMOCD regulatory standard in the five laboratory submitted soil samples.

Currently, there are nine groundwater monitor wells on site consisting of MW-1 which is up gradient, MW-4 and MW-5, which are cross gradient, and MW-2, MW-3, MW-6 through MW-9, which are down gradient of the release point.

RECENT FIELD ACTIVITIES

No PSH was detected in any of the site monitor wells during the 2007 reporting period.

The site monitoring wells were gauged and sampled on March 16, May 30-31, September 25, and November 30, 2007. During these sampling events, the monitoring wells were purged of a minimum of three well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were stored in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a trailer mounted polystyrene tank and disposed at an approved disposal in Monument, New Mexico.

Locations of the groundwater monitoring wells and the inferred groundwater elevations, which were constructed from the measurements collected during the 2007 quarterly sampling events, are depicted on Figures 2A through 2D. The 2007 groundwater elevation data is provided as Table 1.

The Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.0014 feet/foot to the south-southeast as measured between groundwater monitor wells MW-5 and MW-9. The corrected groundwater elevations ranged between 3,725.64 and 3,727.63 feet

above mean sea level, in monitor well MW-1 on March 16, 2007 and in monitor well MW-9 on September 25, 2007, respectively.

LABORATORY RESULTS

Groundwater samples were collected from the groundwater monitor wells (MW-1 through MW-9) during the quarterly monitoring events were delivered to Environmental Laboratory of Texas, Odessa, Texas, for determination of BTEX constituent concentrations by EPA Method SW846-8021b. A summary of BTEX constituent concentrations for 2007 is presented in Table 2 and the laboratory reports are provided as Appendix A.

Monitor well MW-1 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below MDL and the NMOCD regulatory standard for each BTEX constituent during all four quarters of the 2007 reporting period.

Monitor well MW-2 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.005 mg/L during the 2nd quarter to 0.928 mg/L during the 4th quarter of 2007. Benzene concentrations were above the NMOCD regulatory standard during the 1st, 3rd, and 4th quarters of the reporting period. Toluene and ethylbenzene concentrations were below the MDL and the NMOCD regulatory standard during all four quarters of the reporting period. Total xylene concentrations ranged from <0.001 mg/L during the 2nd quarter to 0.036 mg/L during the 4th quarter of 2007. Total xylene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period.

Monitor well MW-3 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 1.48 mg/L during the 1st quarter to 5.93 mg/L during the 4th quarter of 2007. 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 1st quarter to 0.027 mg/L during the 4th quarter of 2007. Toluene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.013 mg/L during the 1st quarter to 0.273 mg/L during the 4th quarter of 2007. Ethylbenzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Total xylene concentrations ranged from 0.034 mg/L during the 1st quarter to 0.215 mg/L during the 4th quarter of 2007. Total xylene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period.

Monitor well MW-4 is sampled on a quarterly schedule and analytical results indicate benzene, ethylbenzene and total xylene concentrations were below MDL and the NMOCD regulatory standard for each BTEX constituent during all four quarters of the 2007 reporting period. Toluene concentrations ranged from <0.001 mg/L during the 1st quarter to 0.001 mg/L during the 2nd and 3rd quarters of 2007. Toluene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period.

Monitor well MW-5 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below MDL and the NMOCD regulatory standard for each BTEX constituent during all four quarters of the 2007 reporting period.

Monitor well MW-6 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below MDL and the NMOCD regulatory standard for each BTEX constituent during all four quarters of the 2007 reporting period.

Monitor well MW-7 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.026 mg/L during the 4th quarter to 0.047 mg/L during the 1st quarter of 2007. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene and ethylbenzene concentrations were below the MDL and the NMOCD regulatory standard during all four quarters of the reporting period. Total xylene concentrations ranged from 0.005 mg/L during the 2nd quarter to 0.030 mg/L during the 3rd quarter of 2007. Total xylene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period.

Monitor well MW-8 was installed on February 7, 2007, is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below MDL and the NMOCD regulatory standard for each BTEX constituent during all four quarters of the 2007 reporting period.

Monitor well MW-9 was installed on August 13, 2007, is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below MDL and the NMOCD regulatory standard for each BTEX constituent during the 3rd and 4th quarters of the 2007 reporting period.

Laboratory analytical results for obtained during the fourth quarter groundwater sampling event in December 2007, indicated benzene and BTEX constituent concentrations were not detected above the MDL for groundwater monitor wells MW-1, MW-4 through MW-6, MW-8 and MW-9. Laboratory results indicated benzene concentrations exceeded the NMOCD regulatory standard for groundwater monitor wells MW-2, MW-3 and MW-7 at 0.928 mg/L, 5.93 mg/L and 0.026 mg/L, respectively. However, toluene, ethylbenzene and total xylene concentrations were below the NMOCD regulatory standard. Based on the groundwater analytical results, groundwater impact appears to be delineated at this time.

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

Based on the depth of hydrocarbon impacted soil at this site, the NMOCD requested quarterly groundwater sampling events to be conducted at this site. No PSH was detected in any of the site monitor wells during the 2007 reporting period.

Currently, there are nine groundwater monitoring wells (MW-1, through MW-9) on-site. The Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.0014 feet/foot to the south-southeast as measured between groundwater monitor wells MW-5 and MW-9.

Laboratory analytical results for obtained during the fourth quarter groundwater sampling event in December 2007, indicated benzene and BTEX constituent concentrations were not detected above the MDL for groundwater monitor wells MW-1, MW-4 through MW-6, MW-8 and MW-9. Laboratory results indicated benzene concentrations exceeded NMOCD regulatory standards for groundwater monitor wells MW-2, MW-3 and MW-7 at 0.928 mg/L, 5.93 mg/L and 0.026 mg/L, respectively. However, toluene, ethylbenzene and xylene concentrations were below the NMOCD regulatory standard. Based on the groundwater analytical results, groundwater impact appears to be delineated at this time.

ANTICIPATED ACTIONS

Quarterly monitoring and groundwater sampling will continue in the reporting year 2008. A Stage 1 and Stage 2 Abatement Plan will be prepared to address soil and groundwater issues at the site and will be submitted to NMOCD for approval.

LIMITATIONS

Basin has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin 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. Basin has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin 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 Basin and/or Plains.

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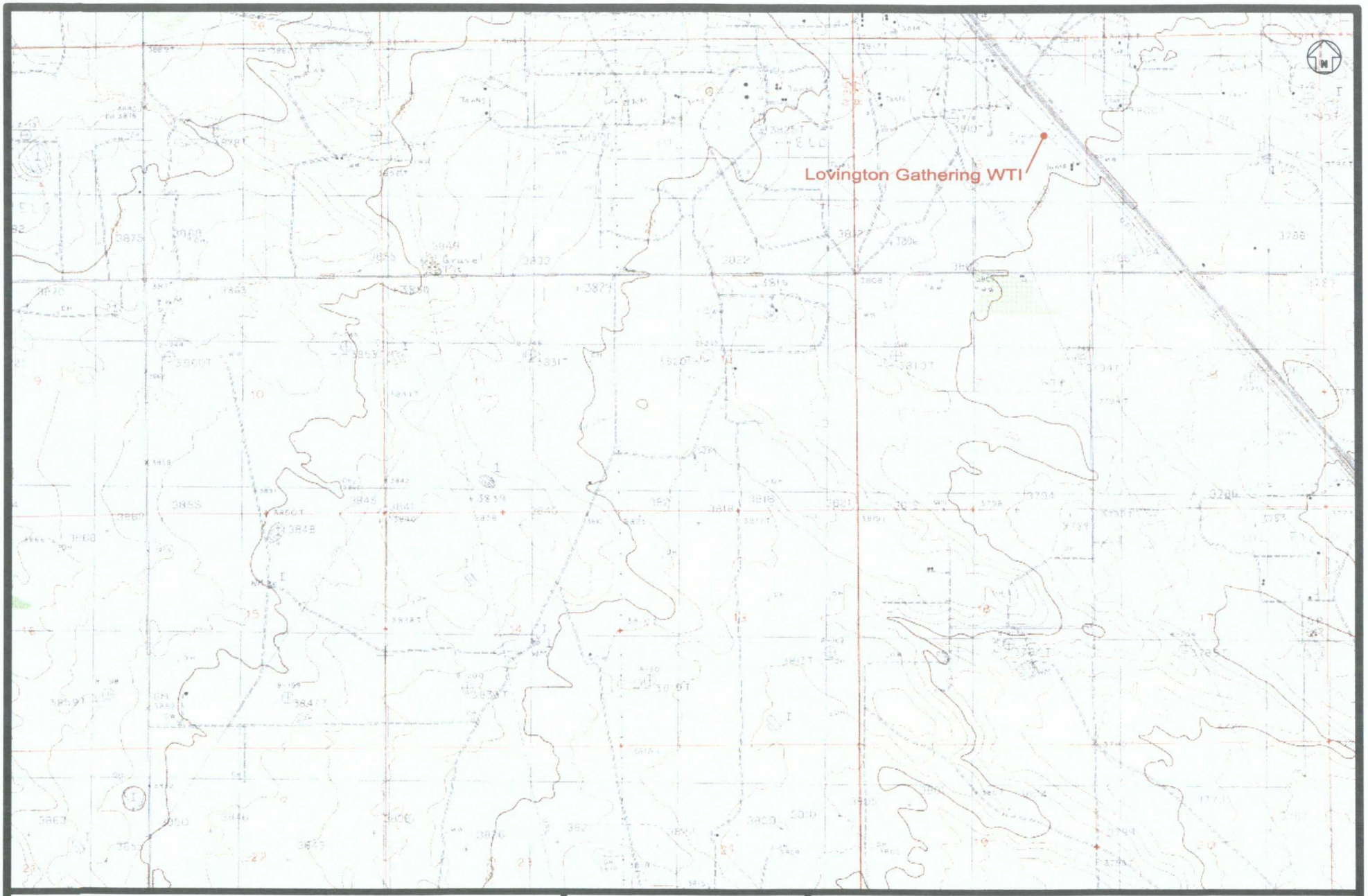
Figures



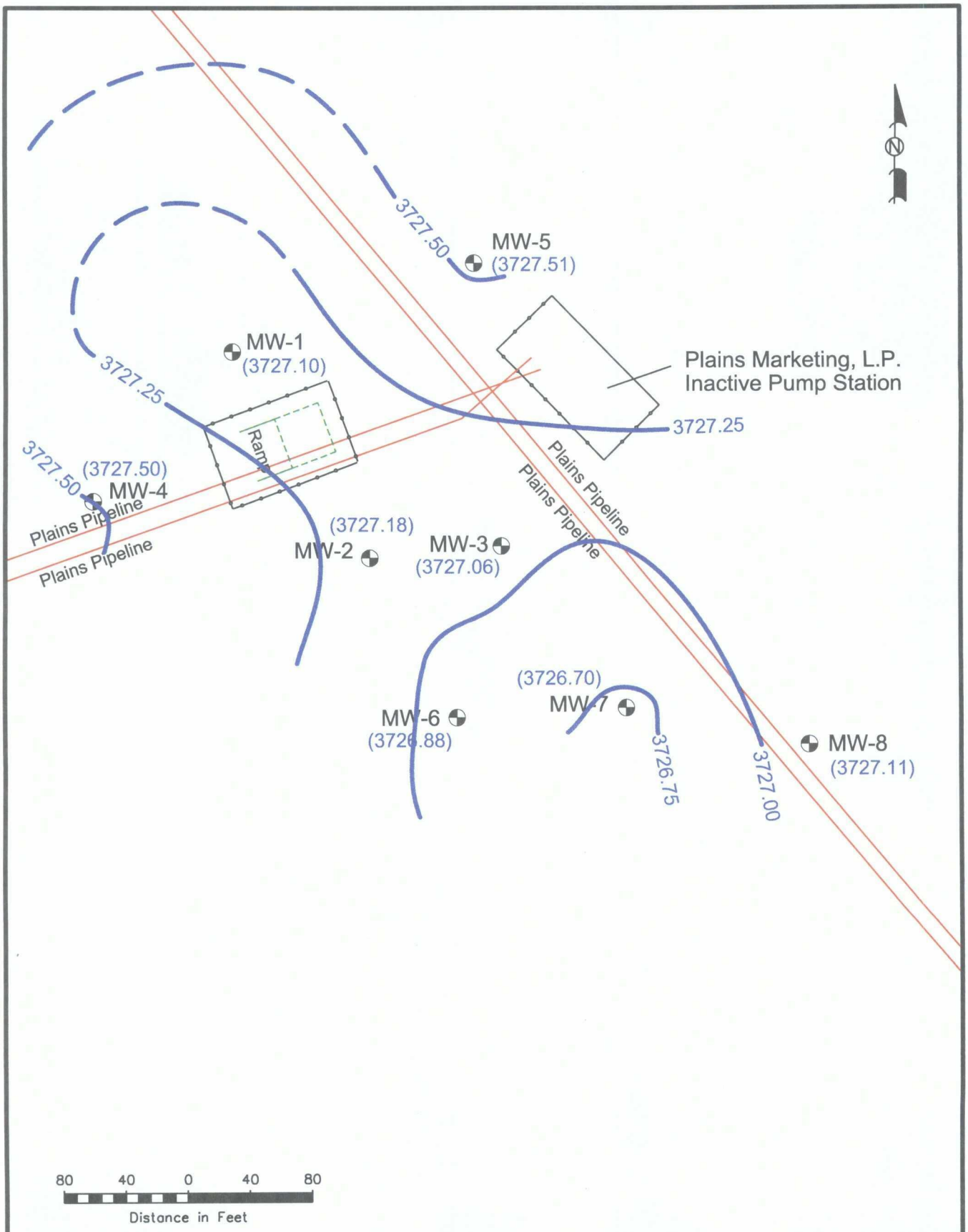
3000 1500 0 1500 3000

Distance in Feet

Figure 1
Site Location Map
Lovington Gathering WTI
Plains Markering, L.P.
Lea County, New Mexico
1RP-838

Basin Environmental Services

Prep By: CDS	Checked By: CDS
May 12, 2008	Scale 1"=3000'



LEGEND:
- Monitor Well Location
- Excavation Extents
- Fence
- Pipeline
- Groundwater Gradient Contour Line
- (3801.46) Groundwater Elevation (feet)
- 0.003 ft / ft Groundwater Gradient Direction and Magnitude

Figure 2A
Inferred Groundwater Gradient Map
3/16/07
Plains Marketing, L.P.
Lovington Gathering WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
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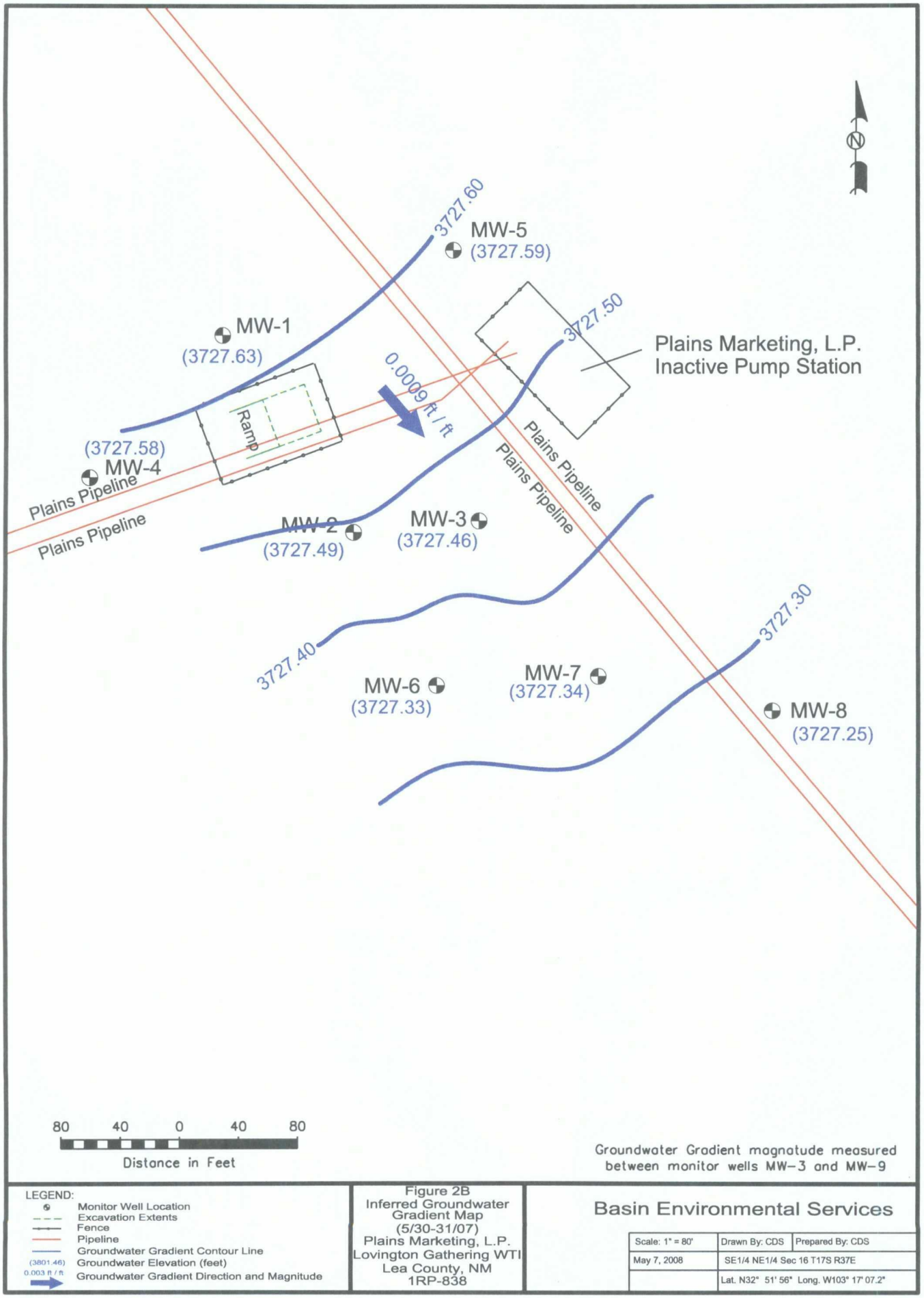

LEGEND:

- Monitor Well Location
- Excavation Extents
- Fence
- Pipeline
- Groundwater Gradient Contour Line
- (3801.46) Groundwater Elevation (feet)
- 0.003 ft / ft Groundwater Gradient Direction and Magnitude

Figure 2B
Inferred Groundwater Gradient Map
(5/30-31/07)
Plains Marketing, L.P.
Lovington Gathering WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
May 7, 2008	SE1/4 NE1/4 Sec 16 T17S R37E	
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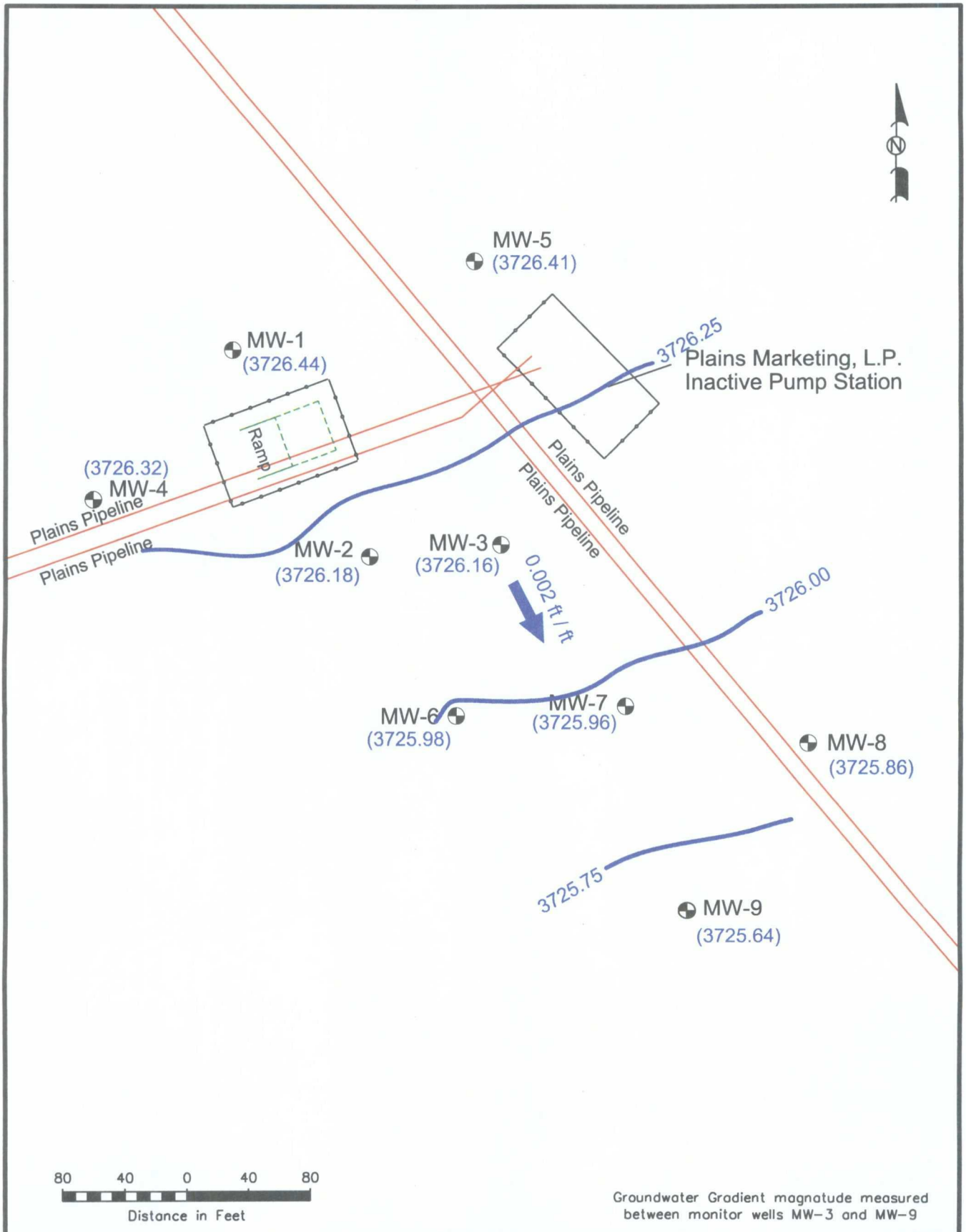


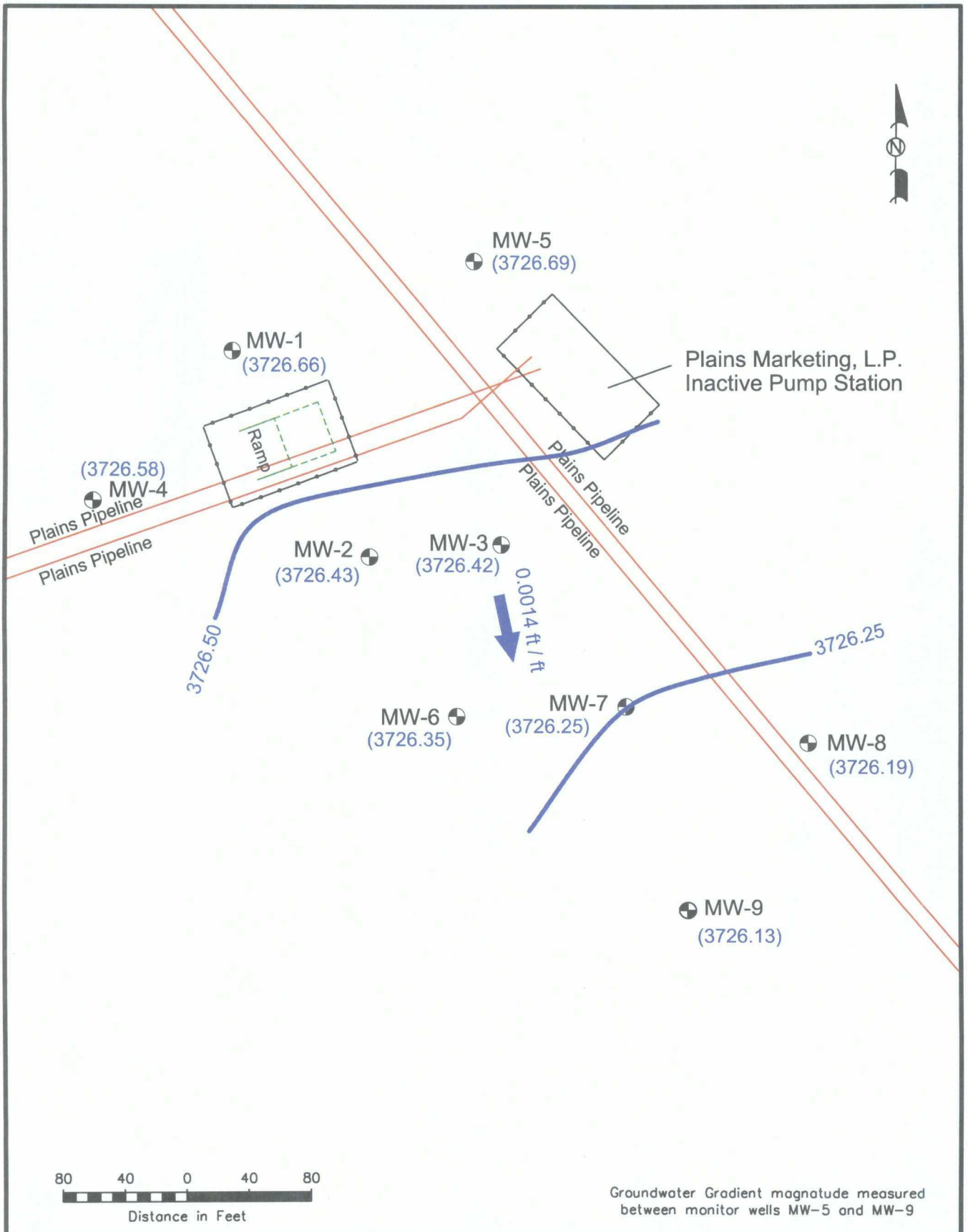
LEGEND:

- Monitor Well Location
- Excavation Extents
- Fence
- Pipeline
- Groundwater Gradient Contour Line
- (3801.46) Groundwater Elevation (feet)
- 0.003 ft / ft Groundwater Gradient Direction and Magnitude

Figure 2C
Inferred Groundwater Gradient Map
(9/25/07)
Plains Marketing, L.P.
Lovington Gathering WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
May 7, 2008	SE1/4 NE1/4 Sec 16 T17S R37E	
	Lat. N32° 51' 56" Long. W103° 17' 07.2"	



LEGEND:
- Monitor Well Location
- Excavation Extents
- Fence
- Pipeline
- Groundwater Gradient Contour Line
- (3801.46) Groundwater Elevation (feet)
- 0.003 ft / ft Groundwater Gradient Direction and Magnitude

Figure 2D
Inferred Groundwater Gradient Map
(11/30/07)
Plains Marketing, L.P.
Lovington Gathering WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
May 7, 2008	SE1/4 NE1/4 Sec 16 T17S R37E	
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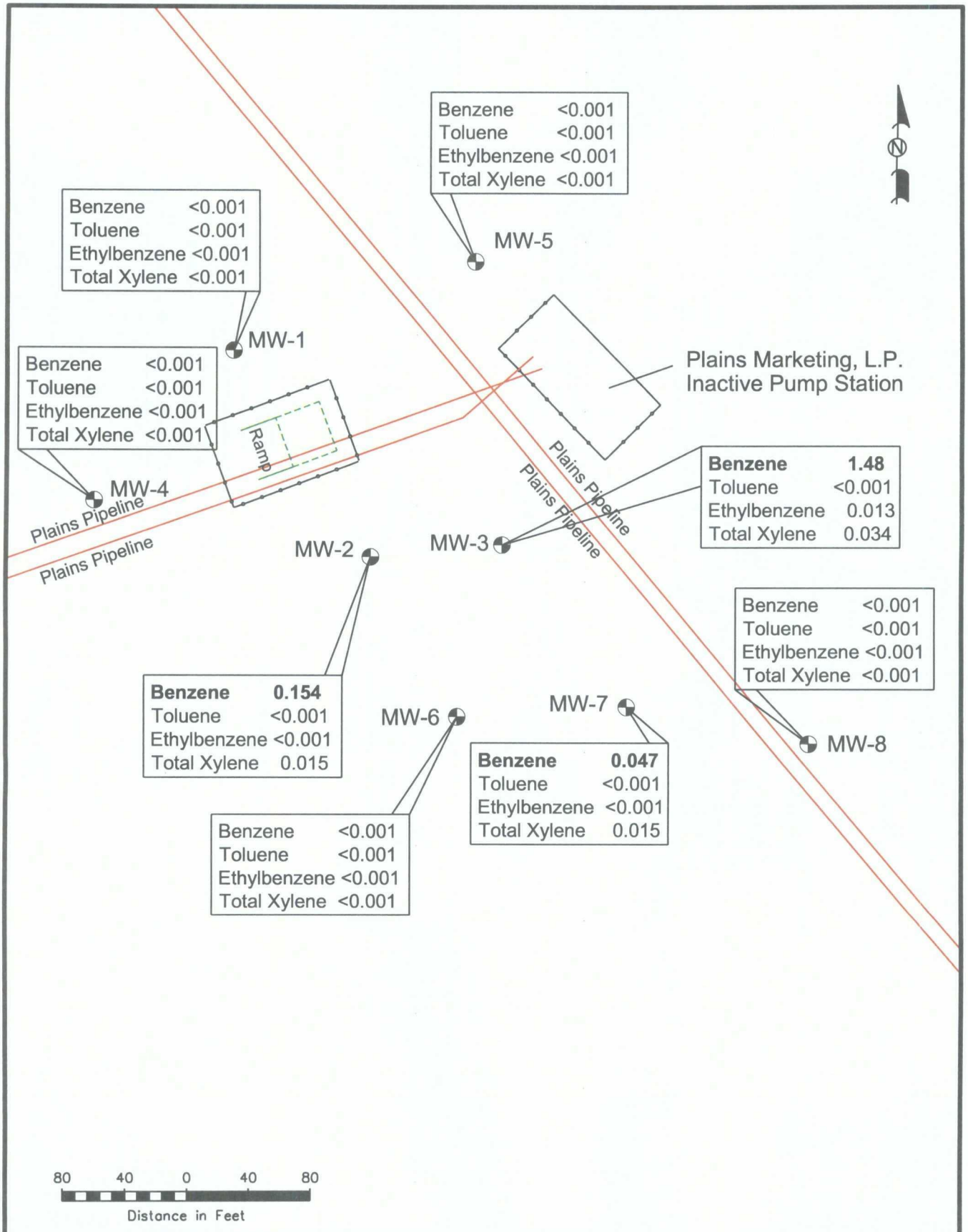


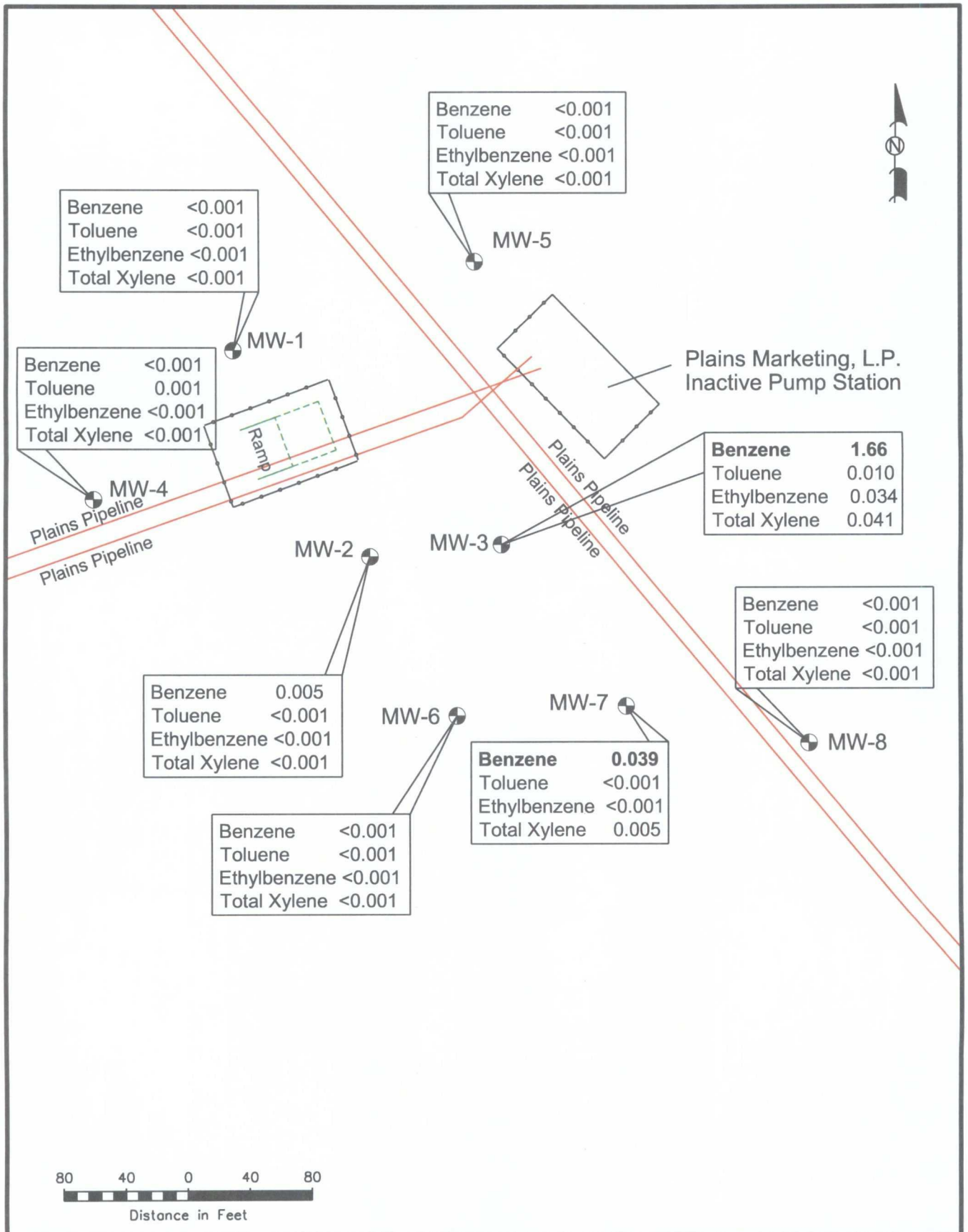
LEGEND:

- Monitor Well Location
- Excavation Extents
- Fence
- Pipeline
- <0.001 Constituent Concentration (mg/L)

Figure 3A
Groundwater Concentration Map (3/16/07)
Plains Marketing, L.P.
Lovington Gathering - WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
May 7, 2008	SE1/4 NE1/4 Sec 16 T17S R37E	
	Lat. N32° 51' 56" Long. W103° 17' 07.2"	



LEGEND:

- Monitor Well Location
- Excavation Extents
- Fence
- Pipeline
- <0.001 Constituent Concentration (mg/L)

Figure 3B
Groundwater Concentration Map (5/30-31/07)
Plains Marketing, L.P.
Lovington Gathering - WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
May 7, 2008	SE1/4 NE1/4 Sec 16 T17S R37E	
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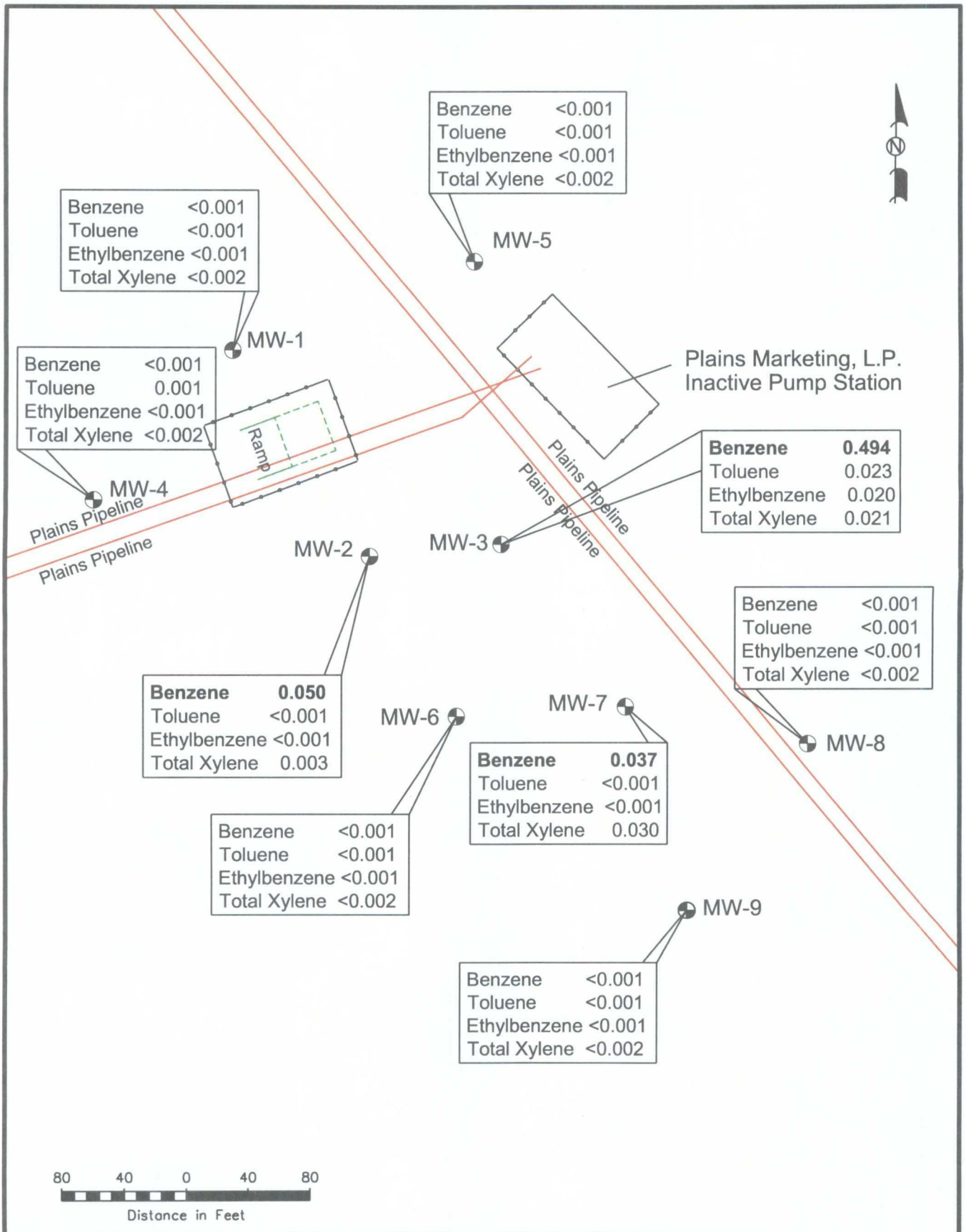

LEGEND:

- Monitor Well Location
- Excavation Extents
- Fence
- Pipeline
- <0.001 Constituent Concentration (mg/L)

Figure 3C
Groundwater Concentration Map (9/25/07)
Plains Marketing, L.P.
Lovington Gathering - WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
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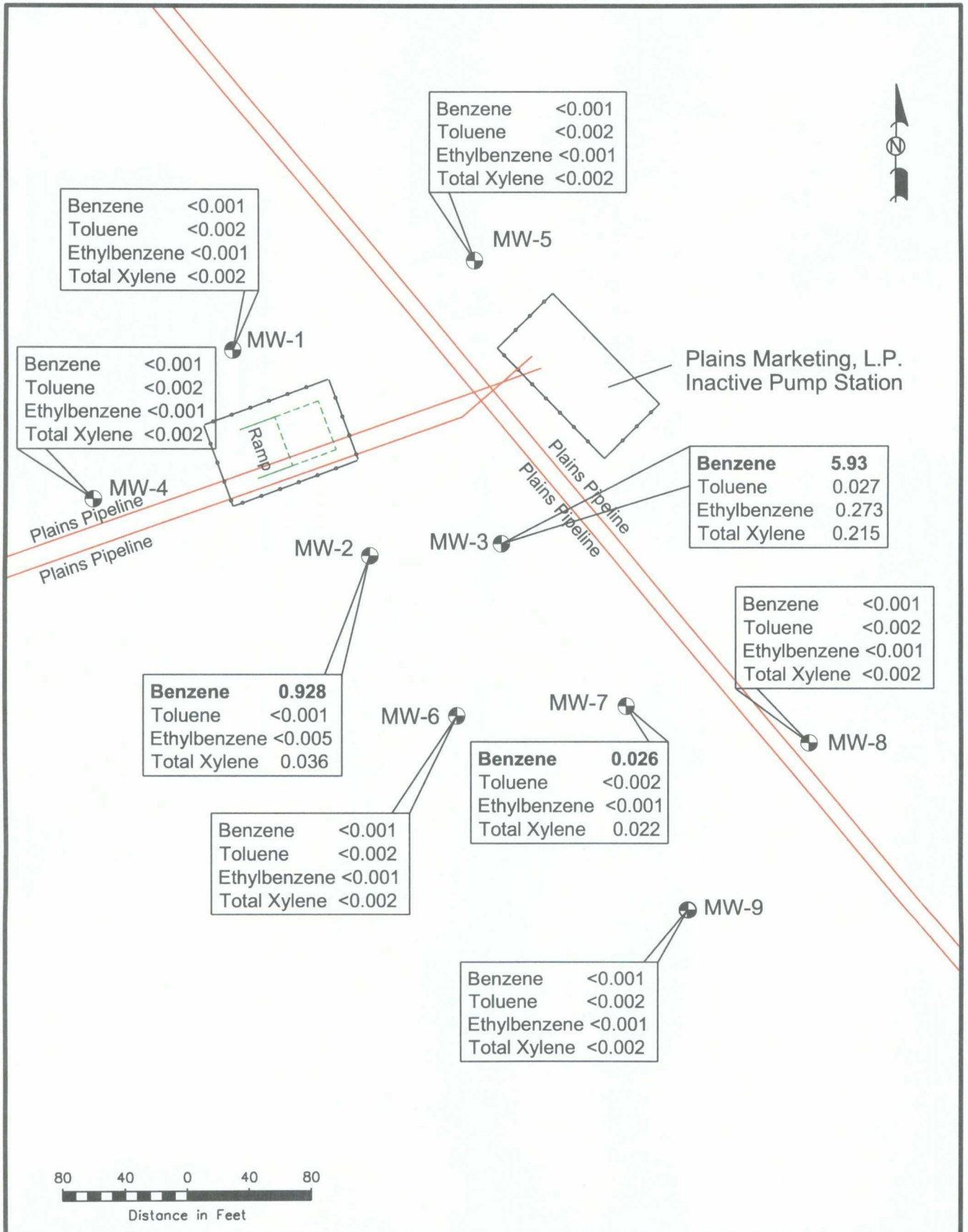

LEGEND:

- Monitor Well Location
- Excavation Extents
- Fence
- Pipeline
- <0.001 Constituent Concentration (mg/L)

Figure 3D
Groundwater Concentration Map (11/30/07)
Plains Marketing, L.P.
Lovington Gathering - WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
May 7, 2008	SE1/4 NE1/4 Sec 16 T17S R37E	
	Lat. N32° 51' 56" Long. W103° 17' 07.2"	

Tables

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LOVINGTON GATHERING WTI
LEA COUNTY, NEW MEXICO
PLAINS SRS NO: 2006-142
NMOCD REF NO: 1RP-838

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-1	03/16/07	3,806.60	-	79.50	0.00	3,727.10
	05/31/07	3,806.60	-	78.97	0.00	3,727.63
	09/25/07	3,806.60	-	80.16	0.00	3,726.44
	11/30/07	3,806.60	-	79.94	0.00	3,726.66
MW-2	03/16/07	3,806.31	-	79.13	0.00	3,727.18
	05/31/07	3,806.31	-	78.82	0.00	3,727.49
	09/25/07	3,806.31	-	80.13	0.00	3,726.18
	11/30/07	3,806.31	-	79.88	0.00	3,726.43
MW-3	03/16/07	3,806.19	-	79.13	0.00	3,727.06
	05/31/07	3,806.19	-	78.73	0.00	3,727.46
	09/25/07	3,806.19	-	80.03	0.00	3,726.16
	11/30/07	3,806.19	-	79.77	0.00	3,726.42
MW-4	03/16/07	3,806.67	-	79.17	0.00	3,727.50
	05/30/07	3,806.67	-	79.09	0.00	3,727.58
	09/25/07	3,806.67	-	80.35	0.00	3,726.32
	11/30/07	3,806.67	-	80.09	0.00	3,726.58
MW-5	03/16/07	3,806.30	-	78.79	0.00	3,727.51
	05/30/07	3,806.30	-	78.71	0.00	3,727.59
	09/25/07	3,806.30	-	79.89	0.00	3,726.41
	11/30/07	3,806.30	-	79.61	0.00	3,726.69
MW-6	03/16/07	3,806.08	-	79.20	0.00	3,726.88
	05/30/07	3,806.08	-	78.75	0.00	3,727.33
	09/25/07	3,806.08	-	80.10	0.00	3,725.98
	11/30/07	3,806.08	-	79.73	0.00	3,726.35
MW-7	03/16/07	3,806.05	-	79.35	0.00	3,726.70
	05/31/07	3,806.05	-	78.71	0.00	3,727.34
	09/25/07	3,806.05	-	80.09	0.00	3,725.96
	11/30/07	3,806.05	-	79.80	0.00	3,726.25
MW-8	03/16/07	3,805.89	-	78.78	0.00	3,727.11
	05/31/07	3,805.89	-	78.64	0.00	3,727.25
	09/25/07	3,805.89	-	80.03	0.00	3,725.86
	11/30/07	3,805.89	-	79.70	0.00	3,726.19

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
LOVINGTON GATHERING WTI
LEA COUNTY, NEW MEXICO
PLAINS SRS NO: 2006-142
NMOCD REF NO: 1RP-838

MW-9	09/25/07	3,806.02	-	80.38	0.00	3,725.64
	11/30/07	3,806.02	-	79.89	0.00	3,726.13

TABLE 2

CONCENTRATIONS OF BENZENE & BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
LOVINGTON GATHERING WTI
LEA COUNTY, NEW MEXICO
PLAINS SRS NO. 2006-142
NMOCD REF NO: 1RP-838

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8021B, 5030				
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M,P-XYLENES (mg/L)	O-XYLENES (mg/L)
MW-1	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
	05/31/07	<0.001	<0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
MW-2	03/16/07	**0.154**	<0.001	<0.001	0.015	<0.001
	05/31/07	0.005	<0.001	<0.001	<0.001	<0.001
	09/25/07	**0.050**	<0.001	<0.001	0.003	<0.001
	11/30/07	**0.928**	<0.001	<0.005	0.036	<0.005
MW-3	03/16/07	**1.48**	<0.001	0.013	0.034	<0.001
	05/31/07	**1.66**	0.010	0.034	0.029	0.012
	09/25/07	**0.494**	0.023	0.020	0.014	0.007
	11/30/07	**5.93**	0.027	0.273	0.141	0.074
MW-4	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
	05/30/07	<0.001	0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
MW-5	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
	05/30/07	<0.001	<0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
MW-6	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
	05/30/07	<0.001	<0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
MW-7	03/16/07	**0.047**	<0.001	<0.001	0.015	<0.001
	05/31/07	**0.039**	<0.001	<0.001	0.005	<0.001
	09/25/07	**0.037**	<0.001	<0.001	0.030	<0.001
	11/30/07	**0.026**	<0.002	<0.001	0.022	<0.001
MW-8	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
	05/31/07	<0.001	<0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
MW-9	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
NMOCD CRITERIA		**0.01**	**0.75**	**0.75**	**0.62**	

Appendices

Appendix A
Laboratory Reports

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: SRS: 2006-142

Location: Lea County, NM

Lab Order Number: 7C20004

Report Date: 03/28/07

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-8	7C20004-01	Water	03/16/07 10:56	03-20-2007 11:30
MW-1	7C20004-02	Water	03/16/07 11:30	03-20-2007 11:30
MW-4	7C20004-03	Water	03/16/07 11:55	03-20-2007 11:30
MW-5	7C20004-04	Water	03/16/07 13:10	03-20-2007 11:30
MW-6	7C20004-05	Water	03/16/07 14:10	03-20-2007 11:30
MW-7	7C20004-06	Water	03/16/07 14:50	03-20-2007 11:30
MW-2	7C20004-07	Water	03/16/07 15:25	03-20-2007 11:30
MW-3	7C20004-08	Water	03/16/07 16:20	03-20-2007 11:30

Plains All American EH & S	Project: Lovington Gathering WTI	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-142	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (7C20004-01) Water									
Benzene	ND	0.00100	mg/L	1	EC72109	03/21/07	03/22/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.2 %*	*80-120*		"	"	"	"	
MW-1 (7C20004-02) Water									
Benzene	ND	0.00100	mg/L	1	EC72601	03/26/07	03/27/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.2 %*	*80-120*		"	"	"	"	
MW-4 (7C20004-03) Water									
Benzene	ND	0.00100	mg/L	1	EC72601	03/26/07	03/27/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*98.6 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.6 %*	*80-120*		"	"	"	"	
MW-5 (7C20004-04) Water									
Benzene	ND	0.00100	mg/L	1	EC72601	03/26/07	03/27/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.2 %*	*80-120*		"	"	"	"	

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Plains All American EH & S	Project: Lovington Gathering WTI	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-142	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (7C20004-05) Water									
Benzene	ND	0.00100	mg/L	1	EC72601	03/26/07	03/27/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.8 %*	*80-120*		"	"	"	"	
MW-7 (7C20004-06) Water									
Benzene	**0.0479**	0.00100	mg/L	1	EC72601	03/26/07	03/27/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0152**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.6 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.8 %*	*80-120*		"	"	"	"	
MW-2 (7C20004-07) Water									
Benzene	**0.154**	0.00100	mg/L	1	EC72601	03/26/07	03/27/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0102**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.6 %*	*80-120*		"	"	"	"	
MW-3 (7C20004-08) Water									
Benzene	**1.48**	0.0100	mg/L	10	EC72601	03/26/07	03/27/07	EPA 8021B	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.0139**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**0.0341**	0.0100	"	"	"	"	"	"	
Xylene (o)	**J [0.00252]**	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.6 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.4 %*	*80-120*		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC72109 - EPA 5030C (GC)										
Blank (EC72109-BLK1)				Prepared: 03/21/07 Analyzed: 03/22/07						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*46.7*		*ug/l*	*50.0*		*93.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.5*		"	*50.0*		*89.0*	*80-120*			
LCS (EC72109-BS1)				Prepared: 03/21/07 Analyzed: 03/22/07						
Benzene	0.0580	0.00100	mg/L	0.0500		116	80-120			
Toluene	0.0596	0.00100	"	0.0500		119	80-120			
Ethylbenzene	0.0522	0.00100	"	0.0500		104	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100		119	80-120			
Xylene (o)	0.0591	0.00100	"	0.0500		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	*55.5*		*ug/l*	*50.0*		*111*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*50.6*		"	*50.0*		*101*	*80-120*			
Calibration Check (EC72109-CCV1)				Prepared: 03/21/07 Analyzed: 03/22/07						
Benzene	56.7		ug/l	50.0		113	80-120			
Toluene	55.7		"	50.0		111	80-120			
Ethylbenzene	56.1		"	50.0		112	80-120			
Xylene (p/m)	105		"	100		105	80-120			
Xylene (o)	58.8		"	50.0		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	*47.6*		"	*50.0*		*95.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*52.5*		"	*50.0*		*105*	*80-120*			
Matrix Spike (EC72109-MS1)	**Source: 7C19010-01**			Prepared: 03/21/07 Analyzed: 03/22/07						
Benzene	0.0563	0.00100	mg/L	0.0500	ND	113	80-120			
Toluene	0.0546	0.00100	"	0.0500	ND	109	80-120			
Ethylbenzene	0.0519	0.00100	"	0.0500	ND	104	80-120			
Xylene (p/m)	0.102	0.00100	"	0.100	0.00101	101	80-120			
Xylene (o)	0.0562	0.00100	"	0.0500	ND	112	80-120			
Surrogate: a,a,a-Trifluorotoluene	*46.2*		*ug/l*	*50.0*		*92.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*49.1*		"	*50.0*		*98.2*	*80-120*			

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC72109 - EPA 5030C (GC)										
Matrix Spike Dup (EC72109-MSD1)	**Source: 7C19010-01**			Prepared: 03/21/07 Analyzed: 03/22/07						
Benzene	0.0529	0.00100	mg/L	0.0500	ND	106	80-120	6.39	20	
Toluene	0.0520	0.00100	"	0.0500	ND	104	80-120	4.69	20	
Ethylbenzene	0.0536	0.00100	"	0.0500	ND	107	80-120	2.84	20	
Xylene (p/m)	0.0988	0.00100	"	0.100	0.00101	97.8	80-120	3.22	20	
Xylene (o)	0.0547	0.00100	"	0.0500	ND	109	80-120	2.71	20	
Surrogate: a,a,a-Trifluorotoluene	*43.8*		*ug/l*	*50.0*		*87.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*47.4*		*"*	*50.0*		*94.8*	*80-120*			
Batch EC72601 - EPA 5030C (GC)										
Blank (EC72601-BLK1)				Prepared & Analyzed: 03/26/07						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*40.8*		*ug/l*	*50.0*		*81.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.6*		*"*	*50.0*		*81.2*	*80-120*			
LCS (EC72601-BS1)				Prepared & Analyzed: 03/26/07						
Benzene	0.0442	0.00100	mg/L	0.0500		88.4	80-120			
Toluene	0.0431	0.00100	"	0.0500		86.2	80-120			
Ethylbenzene	0.0419	0.00100	"	0.0500		83.8	80-120			
Xylene (p/m)	0.0890	0.00100	"	0.100		89.0	80-120			
Xylene (o)	0.0450	0.00100	"	0.0500		90.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.5*		*ug/l*	*50.0*		*81.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.5*		*"*	*50.0*		*87.0*	*80-120*			

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC72601 - EPA 5030C (GC)										
Calibration Check (EC72601-CCV1)				Prepared & Analyzed: 03/26/07						
Benzene	45.8		ug/l	50.0		91.6	80-120			
Toluene	44.4		"	50.0		88.8	80-120			
Ethylbenzene	45.9		"	50.0		91.8	80-120			
Xylene (p/m)	89.2		"	100		89.2	80-120			
Xylene (o)	45.9		"	50.0		91.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.8*		"	*50.0*		*81.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.9*		"	*50.0*		*87.8*	*80-120*			
Duplicate (EC72601-DUP1)	**Source: 7C23001-10**			Prepared & Analyzed: 03/26/07						
Benzene	ND	0.00100	mg/L		ND				20	
Toluene	0.00353	0.00100	"		0.00330			6.73	20	
Ethylbenzene	0.000521	0.00100	"		0.000349			39.5	20	R4
Xylene (p/m)	0.00502	0.00100	"		0.00430			15.5	20	
Xylene (o)	0.00123	0.00100	"		0.000981			22.5	20	R5
Surrogate: a,a,a-Trifluorotoluene	*41.0*		*ug/l*	*50.0*		*82.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.4*		"	*50.0*		*84.8*	*80-120*			
Matrix Spike (EC72601-MS1)	**Source: 7C23001-10**			Prepared & Analyzed: 03/26/07						
Benzene	0.0449	0.00100	mg/L	0.0500	ND	89.8	80-120			
Toluene	0.0470	0.00100	"	0.0500	0.00330	87.4	80-120			
Ethylbenzene	0.0424	0.00100	"	0.0500	0.000349	84.1	80-120			
Xylene (p/m)	0.0924	0.00100	"	0.100	0.00430	88.1	80-120			
Xylene (o)	0.0464	0.00100	"	0.0500	0.000981	90.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.0*		*ug/l*	*50.0*		*80.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.7*		"	*50.0*		*89.4*	*80-120*			

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

R5	RPD is outside of historic values
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 3/28/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton — PAGE 01 OF 01 — Project Name: LOVINGTON GATHERING WTI

Company Name: Basin Environmental Service Technologies, LLC — Project #: 2006-142

Company Address: P. O. Box 301 — Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 — PO #: PAA - C. J. Reynolds

Telephone No: (505) 441-2124 — Fax No: (505) 396-1429 — Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Ken Dutton — e-mail: kad@basinenv.com

(lab use only) ORDER #: 7C2000A

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl Voa	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M TPH: TX 1005 TX 1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW-8			16-Mar-07	1056		2	X		X						GW								X				X
02	MW-1			16-Mar-07	1130		2	X		X						GW								X				X
03	MW-4			16-Mar-07	1155		2	X		X						GW								X				X
04	MW-5			16-Mar-07	1310		2	X		X						GW								X				X
05	MW-6			16-Mar-07	1410		2	X		X						GW								X				X
06	MW-7			16-Mar-07	1450		2	X		X						GW								X				X
07	MW-2			16-Mar-07	1525		2	X		X						GW								X				X
08	MW-3			16-Mar-07	1620		2	X		X						GW								X				X

Special Instructions:

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt: 1.0 °C

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	20MAR07	0800	Tom Sedgwick	20MAR07	0800
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Tom Sedgwick	20MAR07	1130	Received by ELOT: Coleen Keay	3/20/07	11:30

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 3/20/07 11:30

Lab ID #: 70200

Initials: CK

Sample Receipt Checklist

				Client Initials
Temperature of container/ cooler?	Yes	No	1.0 °C	
Shipping container in good condition?	Yes	No		
Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
Chain of Custody present?	Yes	No		
Sample instructions complete of Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished/ received?	Yes	No		
Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
Container label(s) legible and intact?	Yes	No	Not Applicable	
Sample matrix/ properties agree with Chain of Custody?	Yes	No		
Containers supplied by ELOT?	Yes	No		
Samples in proper container/ bottle?	Yes	No	See Below	
Samples properly preserved?	Yes	No	See Below	
Sample bottles intact?	Yes	No		
Preservations documented on Chain of Custody?	Yes	No		
Containers documented on Chain of Custody?	Yes	No		
Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
All samples received within sufficient hold time?	Yes	No	See Below	
Subcontract of sample(s)?	Yes	No	Not Applicable	
VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Carding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: SRS: 2006-142

Location: Lea County, NM

Lab Order Number: 7F06013

Report Date: 06/11/07

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	7F06013-01	Water	05/30/07 14:00	06-06-2007 12:21
MW-5	7F06013-02	Water	05/30/07 14:50	06-06-2007 12:21
MW-6	7F06013-03	Water	05/30/07 15:45	06-06-2007 12:21
MW-8	7F06013-04	Water	05/31/07 09:20	06-06-2007 12:21
MW-1	7F06013-05	Water	05/31/07 10:15	06-06-2007 12:21
MW-2	7F06013-06	Water	05/31/07 10:55	06-06-2007 12:21
MW-7	7F06013-07	Water	05/31/07 11:50	06-06-2007 12:21
MW-3	7F06013-08	Water	05/31/07 12:30	06-06-2007 12:21

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (7F06013-01) Water									
Benzene	ND	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	**0.00114**	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*108 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.4 %*	*80-120*		"	"	"	"	
MW-5 (7F06013-02) Water									
Benzene	ND	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	**J [0.000722]**	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*109 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.6 %*	*80-120*		"	"	"	"	
MW-6 (7F06013-03) Water									
Benzene	ND	0.00100	mg/L	1	EF70802	06/08/07	06/11/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.8 %*	*80-120*		"	"	"	"	
MW-8 (7F06013-04) Water									
Benzene	ND	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*110 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.0 %*	*80-120*		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Plains All American EH & S	Project: Lovington Gathering WTI	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-142	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (7F06013-05) Water									
Benzene	ND	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*109 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*80-120*		"	"	"	"	
MW-2 (7F06013-06) Water									
Benzene	**0.00546**	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*116 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*	*80-120*		"	"	"	"	
MW-7 (7F06013-07) Water									
Benzene	**0.0395**	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00534**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*112 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*80-120*		"	"	"	"	
MW-3 (7F06013-08) Water									
Benzene	**1.66**	0.00500	mg/L	5	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	**0.0102**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.0348**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**0.0296**	0.00500	"	"	"	"	"	"	
Xylene (o)	**0.0122**	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.4 %*	*80-120*		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF70802 - EPA 5030C (GC)										
Blank (EF70802-BLK1)				Prepared & Analyzed: 06/08/07						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*54.1*		*ug/l*	*50.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.4*		*"*	*50.0*		*90.8*	*80-120*			
LCS (EF70802-BS1)				Prepared & Analyzed: 06/08/07						
Benzene	0.0548	0.00100	mg/L	0.0500		110	80-120			
Toluene	0.0556	0.00100	"	0.0500		111	80-120			
Ethylbenzene	0.0543	0.00100	"	0.0500		109	80-120			
Xylene (p/m)	0.101	0.00100	"	0.100		101	80-120			
Xylene (o)	0.0569	0.00100	"	0.0500		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	*54.6*		*ug/l*	*50.0*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51.7*		*"*	*50.0*		*103*	*80-120*			
Calibration Check (EF70802-CCV1)				Prepared: 06/08/07 Analyzed: 06/09/07						
Benzene	0.0576		mg/L	0.0500		115	80-120			
Toluene	0.0567		"	0.0500		113	80-120			
Ethylbenzene	0.0537		"	0.0500		107	80-120			
Xylene (p/m)	0.0999		"	0.100		99.9	80-120			
Xylene (o)	0.0573		"	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	*57.9*		*ug/l*	*50.0*		*116*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*53.0*		*"*	*50.0*		*106*	*80-120*			
Matrix Spike (EF70802-MS1)	**Source: 7F06019-03**			Prepared: 06/08/07 Analyzed: 06/09/07						
Benzene	0.0598	0.00100	mg/L	0.0500	ND	120	80-120			
Toluene	0.0593	0.00100	"	0.0500	ND	119	80-120			
Ethylbenzene	0.0584	0.00100	"	0.0500	ND	117	80-120			
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120			
Xylene (o)	0.0614	0.00100	"	0.0500	ND	123	80-120			M1
Surrogate: a,a,a-Trifluorotoluene	*58.4*		*ug/l*	*50.0*		*117*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*56.2*		*"*	*50.0*		*112*	*80-120*			

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF70802 - EPA 5030C (GC)										
Matrix Spike Dup (EF70802-MSD1)		**Source: 7F06019-03**		Prepared: 06/08/07 Analyzed: 06/09/07						
Benzene	0.0565	0.00100	mg/L	0.0500	ND	113	80-120	6.01	20	
Toluene	0.0566	0.00100	"	0.0500	ND	113	80-120	5.17	20	
Ethylbenzene	0.0556	0.00100	"	0.0500	ND	111	80-120	5.26	20	
Xylene (p/m)	0.102	0.00100	"	0.100	ND	102	80-120	4.78	20	
Xylene (o)	0.0584	0.00100	"	0.0500	ND	117	80-120	5.00	20	
Surrogate: a,a,a-Trifluorotoluene	*58.3*		*ug/l*	*50.0*		*117*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*54.2*		*"*	*50.0*		*108*	*80-120*			

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Plains All American EH & S	Project: Lovington Gathering WTI	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-142	
Midland TX, 79706-4476	Project Manager: Camille Reynolds	

Notes and Definitions

M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 6/11/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton — PAGE 01 OF 01 — Project Name: LOVINGTON GATHERING WTI

Company Name: Basin Environmental Service Technologies, LLC — Project #: 2006-142

Company Address: P. O. Box 301 — Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 — PO #: PAA - C. J. Reynolds

Telephone No: (505) 441-2124 — Fax No: (505) 396-1429 — Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Tom Sedgwick — e-mail: kdutton@basinenv.com

(lab use only)
ORDER #: 7F06013
283833

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl Vials (x 2)	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M	TOTAL: TPH: 8015B TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW-4			30-May-07	1400		2	X		X						GW									X				X
02	MW-5			30-May-07	1450		2	X		X						GW									X				X
03	MW-6			30-May-07	1545		2	X		X						GW									X				X
04	MW-8			31-May-07	0920		2	X		X						GW									X				X
05	MW-1			31-May-07	1015		2	X		X						GW									X				X
06	MW-2			31-May-07	1055		2	X		X						GW									X				X
07	MW-7			31-May-07	1150		2	X		X						GW									X				X
08	MW-3			31-May-07	1230		2	X		X						GW									X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Tom Sedgwick	06 JUN 07	1221			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Andrea Lam	6-6-07	12:21

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 4.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 6·6·07 12:21

Lab ID #: 7F06013

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.5 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

_____

_____

_____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 290458

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lovington Gathering WTI

2006-142

03-OCT-07

12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

03-OCT-07

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **290458**
Lovington Gathering WTI
Project Address: Lea County, NM

Camille Reynolds:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 290458. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 290458 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron
Odessa Laboratory Director

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Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Sample Cross Reference 290458

PLAINS ALL AMERICAN EH&S, Midland, TX

Lovington Gathering WTI

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-9	W	Sep-25-07 10:00		290458-001
MW-4	W	Sep-25-07 10:50		290458-002
MW-5	W	Sep-25-07 11:35		290458-003
MW-6	W	Sep-25-07 12:15		290458-004
MW-8	W	Sep-25-07 13:40		290458-005
MW-1	W	Sep-25-07 14:24		290458-006
MW-2	W	Sep-25-07 15:07		290458-007
MW-7	W	Sep-25-07 15:42		290458-008
MW-3	W	Sep-25-07 16:15		290458-009

Certificate of Analysis Summary 290458

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Fri Sep-28-07 01:45 pm
Report Date: 03-OCT-07
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	290458-001		290458-002		290458-003		290458-004		290458-005		290458-006	
	Field Id:	MW-9		MW-4		MW-5		MW-6		MW-8		MW-1	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	Sep-25-07 10:00		Sep-25-07 10:50		Sep-25-07 11:35		Sep-25-07 12:15		Sep-25-07 13:40		Sep-25-07 14:24	
BTEX by EPA 8021B	*Extracted:*	Oct-02-07 16:30		Oct-02-07 16:30		Oct-02-07 16:30		Oct-02-07 16:30		Oct-02-07 16:30		Oct-02-07 16:30	
	Analyzed:	Oct-02-07 20:05		Oct-02-07 20:22		Oct-02-07 20:38		Oct-02-07 20:55		Oct-02-07 21:28		Oct-02-07 21:45	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Toluene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
m,p-Xylene		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Total Xylenes		ND		ND		ND		ND		ND		ND	
Total BTEX		ND		ND		ND		ND		ND		ND	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 290458

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Fri Sep-28-07 01:45 pm
Report Date: 03-OCT-07
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	290458-007		290458-008		290458-009					
	Field Id:	MW-2		MW-7		MW-3					
	Depth:										
	Matrix:	WATER		WATER		WATER					
	Sampled:	Sep-25-07 15:07		Sep-25-07 15:42		Sep-25-07 16:15					
BTEX by EPA 8021B	*Extracted:*	Oct-02-07 16:30		Oct-02-07 16:30		Oct-03-07 10:16					
	Analyzed:	Oct-02-07 22:01		Oct-02-07 22:18		Oct-03-07 12:43					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL				
Benzene		0.0503	0.0010	0.0370	0.0010	0.4943	0.0010				
Toluene		ND	0.0010	ND	0.0010	0.0239	0.0010				
Ethylbenzene		ND	0.0010	ND	0.0010	0.0209	0.0010				
m,p-Xylene		0.0030	0.0020	0.0306	0.0020	0.0140	0.0020				
o-Xylene		ND	0.0010	ND	0.0010	0.0071	0.0010				
Total Xylenes		0.003		0.0306		0.0211					
Total BTEX		0.0533		0.0676		0.5602					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Brent Barron
Odessa Laboratory Director

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 290458 **Project ID:** 2006-142

Lab Batch #: 705584 **Sample:** 290458-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

Lab Batch #: 705584 **Sample:** 290458-001 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 705584 **Sample:** 290458-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

Lab Batch #: 705584 **Sample:** 290458-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0253	0.0300	84	80-120	

Lab Batch #: 705584 **Sample:** 290458-003 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 290458 **Project ID:** 2006-142

Lab Batch #: 705584 **Sample:** 290458-004 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0257	0.0300	86	80-120	

Lab Batch #: 705584 **Sample:** 290458-005 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

Lab Batch #: 705584 **Sample:** 290458-006 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 705584 **Sample:** 290458-007 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

Lab Batch #: 705584 **Sample:** 290458-008 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0304	0.0300	101	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 290458 **Project ID:** 2006-142

Lab Batch #: 705584 **Sample:** 500015-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 705584 **Sample:** 500015-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 705584 **Sample:** 500015-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

Lab Batch #: 705607 **Sample:** 290458-009 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0254	0.0300	85	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 705607 **Sample:** 500032-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 290458 **Project ID:** 2006-142

Lab Batch #: 705607 **Sample:** 500032-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 705607 **Sample:** 500032-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0265	0.0300	88	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 290458 **Project ID:** 2006-142

Analyst: SHE **Date Prepared:** 10/02/2007 **Date Analyzed:** 10/02/2007

Lab Batch ID: 705584 **Sample:** 500015-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.1061	106	0.1	0.1072	107	1	70-125	25	
Toluene	ND	0.1000	0.1047	105	0.1	0.1058	106	1	70-125	25	
Ethylbenzene	ND	0.1000	0.1047	105	0.1	0.1061	106	1	71-129	25	
m,p-Xylene	ND	0.2000	0.2099	105	0.2	0.2123	106	1	70-131	25	
o-Xylene	ND	0.1000	0.1022	102	0.1	0.1033	103	1	71-133	25	

Analyst: SHE **Date Prepared:** 10/03/2007 **Date Analyzed:** 10/03/2007

Lab Batch ID: 705607 **Sample:** 500032-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.0940	94	0.1	0.0948	95	1	70-125	25	
Toluene	ND	0.1000	0.0924	92	0.1	0.0928	93	0	70-125	25	
Ethylbenzene	ND	0.1000	0.0918	92	0.1	0.0929	93	1	71-129	25	
m,p-Xylene	ND	0.2000	0.1832	92	0.2	0.1860	93	2	70-131	25	
o-Xylene	ND	0.1000	0.0896	90	0.1	0.0911	91	2	71-133	25	

Relative Percent Difference RPD = 200*|(D-F)/(D+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lovington Gathering WTI

Work Order # : 290458 **Project ID:** 2006-142

Lab Batch ID: 705584 **QC- Sample ID:** 290458-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 10/03/2007 **Date Prepared:** 10/02/2007 **Analyst:** SHE

Reporting Units: mg/L

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.0935	94	0.1000	0.0969	97	3	70-125	25	
Toluene	ND	0.1000	0.0915	92	0.1000	0.0941	94	2	70-125	25	
Ethylbenzene	ND	0.1000	0.2076	208	0.1000	0.2098	210	1	71-129	25	X
m,p-Xylene	ND	0.2000	0.1795	90	0.2000	0.1814	91	1	70-131	25	
o-Xylene	ND	0.1000	0.0897	90	0.1000	0.0905	91	1	71-133	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton PAGE 01 OF 01 Project Name: LOVINGTON GATHERING WTI

Company Name: Basin Environmental Service Technologies, LLC Project #: 2006-142

Company Address: P. O. Box 301 Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: PAA - C. J. Reynolds

Telephone No: (505) 441-2124 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Ken Dutton e-mail: kdutton@basinenv.com

(lab use only)
ORDER #: 290458

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl (HOA X2)	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: 418.1	8015M	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	TCLP:	TOTAL: X	RCI	N.O.R.M.	RUSH TAT (Pre-Scheduled) 24, 48, 72 hrs	Standard TAT
01	MW-9			25-Sep-07	1000		2	X		X						GW											X					X
02	MW-4			25-Sep-07	1050		2	X		X						GW											X					X
03	MW-5			25-Sep-07	1135		2	X		X						GW											X					X
04	MW-6			25-Sep-07	1215		2	X		X						GW											X					X
05	MW-8			25-Sep-07	1340		2	X		X						GW											X					X
06	MW-1			25-Sep-07	1424		2	X		X						GW											X					X
07	MW-2			25-Sep-07	1607		2	X		X						GW											X					X
08	MW-7			25-Sep-07	1542		2	X		X						GW											X					X
09	MW-3			25-Sep-07	1815		2	X		X						GW											X					X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	28 SEP 07	0938	Jennifer Blackwood	Sept 28, 07	9:30
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
Jennifer Blackwood Sept 28, 07		1:45	Andrea Sam	9.28.07	1:45

Laboratory Comments:

Sample Containers Intact?	N
VOCs Free of Headspace?	N
Labels on container(s)	N
Custody seals on container(s)	N
Custody seals on cooler(s)	N
Sample Hand Delivered	N

by Sampler/Client Rep. ? by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 2.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Basin / Plains

Date/ Time: 9.28.07 1.45

Lab ID #: 290458

Initials: AL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	2.5 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample Instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont / Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 293980

for

PLAINS ALL AMERICAN EH&S

Project Manager: JIMMY BRYANT

Lovington Gathering WTI

2006-142

10-DEC-07

12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

10-DEC-07

Project Manager: **JIMMY BRYANT**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **293980**
Lovington Gathering WTI
Project Address: Lea County, NM

JIMMY BRYANT:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 293980. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 293980 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Sample Cross Reference 293980

PLAINS ALL AMERICAN EH&S, Midland, TX

Lovington Gathering WTI

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-9	W	Nov-30-07 09:15		293980-001
MW-4	W	Nov-30-07 10:35		293980-002
MW-5	W	Nov-30-07 11:45		293980-003
MW-6	W	Nov-30-07 12:40		293980-004
MW-8	W	Nov-30-07 15:25		293980-005
MW-1	W	Nov-30-07 11:10		293980-006
MW-2	W	Nov-30-07 13:50		293980-007
MW-7	W	Nov-30-07 14:30		293980-008
MW-3	W	Nov-30-07 15:10		293980-009

Certificate of Analysis Summary 293980

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142
Contact: JIMMY BRYANT
Project Location: Lea County, NM

Date Received in Lab: Tue Dec-04-07 12:45 pm
Report Date: 10-DEC-07
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	293980-001		293980-002		293980-003		293980-004		293980-005		293980-006	
	Field Id:	MW-9		MW-4		MW-5		MW-6		MW-8		MW-1	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	Nov-30-07 09:15		Nov-30-07 10:35		Nov-30-07 11:45		Nov-30-07 12:40		Nov-30-07 15:25		Nov-30-07 11:10	
BTEX by EPA 8021B	*Extracted:*	Dec-05-07 11:19		Dec-05-07 11:19		Dec-05-07 11:19		Dec-05-07 11:19		Dec-05-07 11:19		Dec-05-07 11:19	
	Analyzed:	Dec-05-07 19:57		Dec-05-07 20:14		Dec-05-07 20:30		Dec-05-07 20:47		Dec-05-07 21:03		Dec-05-07 21:20	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Toluene		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
m,p-Xylenes		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Xylenes, Total		ND		ND		ND		ND		ND		ND	
Total BTEX		ND		ND		ND		ND		ND		ND	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 293980

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142
Contact: JIMMY BRYANT
Project Location: Lea County, NM

Date Received in Lab: Tue Dec-04-07 12:45 pm
Report Date: 10-DEC-07
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	293980-007		293980-008		293980-009					
	Field Id:	MW-2		MW-7		MW-3					
	Depth:										
	Matrix:	WATER		WATER		WATER					
	Sampled:	Nov-30-07 13:50		Nov-30-07 14:30		Nov-30-07 15:10					
BTEX by EPA 8021B	*Extracted:*	Dec-06-07 12:45		Dec-05-07 11:19		Dec-06-07 12:45					
	Analyzed:	Dec-06-07 16:10		Dec-05-07 21:53		Dec-06-07 17:01					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL				
Benzene		0.9283	0.0050	0.0264	0.0010	5.937	0.0200				
Toluene		ND	0.0100	ND	0.0020	0.2786	0.0400				
Ethylbenzene		ND	0.0050	ND	0.0010	0.2732	0.0200				
m,p-Xylenes		0.0366	0.0100	0.0221	0.0020	0.1410	0.0400				
o-Xylene		ND	0.0050	ND	0.0010	0.0740	0.0200				
Xylenes, Total		0.0366		0.0221		0.215					
Total BTEX		0.9649		0.0485		6.7038					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
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Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Brent Barron
Odessa Laboratory Director

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 293980 **Project ID:** 2006-142

Lab Batch #: 709873 **Sample:** 293980-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0315	0.0300	105	80-120	
4-Bromofluorobenzene	0.0246	0.0300	82	80-120	

Lab Batch #: 709873 **Sample:** 293980-001 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 709873 **Sample:** 293980-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 709873 **Sample:** 293980-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0254	0.0300	85	80-120	

Lab Batch #: 709873 **Sample:** 293980-003 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 293980 **Project ID:** 2006-142

Lab Batch #: 709873 **Sample:** 293980-004 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0256	0.0300	85	80-120	

Lab Batch #: 709873 **Sample:** 293980-005 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0257	0.0300	86	80-120	

Lab Batch #: 709873 **Sample:** 293980-006 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 709873 **Sample:** 293980-008 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0254	0.0300	85	80-120	

Lab Batch #: 709873 **Sample:** 502210-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 293980 **Project ID:** 2006-142

Lab Batch #: 709873 **Sample:** 502210-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0315	0.0300	105	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

Lab Batch #: 709873 **Sample:** 502210-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

Lab Batch #: 710056 **Sample:** 293896-054 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

Lab Batch #: 710056 **Sample:** 293896-054 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 710056 **Sample:** 293980-007 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 293980 **Project ID:** 2006-142

Lab Batch #: 710056 **Sample:** 293980-009 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0338	0.0300	113	80-120	
4-Bromofluorobenzene	0.0270	0.0300	90	80-120	

Lab Batch #: 710056 **Sample:** 502290-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 710056 **Sample:** 502290-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

Lab Batch #: 710056 **Sample:** 502290-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 293980 **Project ID:** 2006-142

Analyst: SHE **Date Prepared:** 12/05/2007 **Date Analyzed:** 12/05/2007

Lab Batch ID: 709873 **Sample:** 502210-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.1016	102	0.1	0.0964	96	5	70-125	25	
Toluene	ND	0.1000	0.1021	102	0.1	0.0973	97	5	70-125	25	
Ethylbenzene	ND	0.1000	0.1050	105	0.1	0.1004	100	4	71-129	25	
m,p-Xylenes	ND	0.2000	0.2068	103	0.2	0.1977	99	4	70-131	25	
o-Xylene	ND	0.1000	0.1038	104	0.1	0.1000	100	4	71-133	25	

Analyst: SHE **Date Prepared:** 12/06/2007 **Date Analyzed:** 12/06/2007

Lab Batch ID: 710056 **Sample:** 502290-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.0870	87	0.1	0.0889	89	2	70-125	25	
Toluene	ND	0.1000	0.0872	87	0.1	0.0892	89	2	70-125	25	
Ethylbenzene	ND	0.1000	0.0907	91	0.1	0.0924	92	2	71-129	25	
m,p-Xylenes	ND	0.2000	0.1781	89	0.2	0.1813	91	2	70-131	25	
o-Xylene	ND	0.1000	0.0895	90	0.1	0.0918	92	3	71-133	25	

Relative Percent Difference RPD = 200*|(D-F)/(D+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lovington Gathering WTI

Work Order # : 293980 **Project ID:** 2006-142

Lab Batch ID: 709873 **QC- Sample ID:** 293980-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/05/2007 **Date Prepared:** 12/05/2007 **Analyst:** SHE

Reporting Units: mg/L

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.0934	93	0.1000	0.0944	94	1	70-125	25	
Toluene	ND	0.1000	0.0922	92	0.1000	0.0925	93	1	70-125	25	
Ethylbenzene	ND	0.1000	0.0919	92	0.1000	0.0922	92	0	71-129	25	
m,p-Xylenes	ND	0.2000	0.1791	90	0.2000	0.1802	90	0	70-131	25	
o-Xylene	ND	0.1000	0.0917	92	0.1000	0.0917	92	0	71-133	25	

Lab Batch ID: 710056 **QC- Sample ID:** 293896-054 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/06/2007 **Date Prepared:** 12/06/2007 **Analyst:** SHE

Reporting Units: mg/L

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.0054	0.1000	0.0859	81	0.1000	0.0860	81	0	70-125	25	
Toluene	ND	0.1000	0.0858	86	0.1000	0.0863	86	0	70-125	25	
Ethylbenzene	ND	0.1000	0.0892	89	0.1000	0.0900	90	1	71-129	25	
m,p-Xylenes	ND	0.2000	0.1740	87	0.2000	0.1758	88	1	70-131	25	
o-Xylene	ND	0.1000	0.0901	90	0.1000	0.0910	91	1	71-133	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton PAGE 01 OF 01
Company Name: Basin Environmental Service Technologies, LLC
Company Address: 2800 Plains Hwy
City/State/Zip: Lovington, NM 88260
Telephone No: (505) 441-2124
Fax No: (505) 396-1429
Sampler Signature: [signature]
e-mail: kdutton@basinenv.com

Project Name: LOVINGTON GATHERING WTI
Project #: 2006-142
Project Loc: Lea County, NM
PO #: PAA - C. J. Reynolds
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 293980

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO$_3$	HCl (VOA X2)	H$_2$SO$_4$	NaOH	Na$_2$S$_2$O$_3$	None	Other (Specify)	Matrix (DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260 (TCLP: / TOTAL: X)	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	MW-9			30-Nov-07	0915		2	X		X						GW									X				X
	MW-4			30-Nov-07	1035		2	X		X						GW									X				X
	MW-5			30-Nov-07	1145		2	X		X						GW									X				X
	MW-6			30-Nov-07	1240		2	X		X						GW									X				X
	MW-8			30-Nov-07	1525		2	X		X						GW									X				X
	MW-1			30-Nov-07	1110		2	X		X						GW									X				X
	MW-2			30-Nov-07	1350		2	X		X						GW									X				X
	MW-7			30-Nov-07	1430		2	X		X						GW									X				X
	MW-3			30-Nov-07	1510		2	X		X						GW									X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	12.4.07	8:00	[signature] Linda Blackwood	12.4.07	8:00
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: [signature] Linda Blackwood	12.4.07	12:30	Received by ELOT: [signature]	12.4.07	12:45

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 3.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Basin Envir. Main

Date/ Time: 12/04/07 12:45

Lab ID # : 293980

Initials: gma

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	3.5 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample Instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

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

District I
625 N. French Dr., Hobbs, NM 88240
District II
301 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	Contact Camille Reynolds
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name Lovington Gathering WTI	Facility Type 6"Steel Pipeline

Surface Owner Robert Rice	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	6	17S	37E					Lea

Latitude 32° 51' 56.0" **Longitude** 103° 17' 07.2"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 12 barrels	Volume Recovered 8 barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 4-21-2006 @ 13:00	Date and Hour of Discovery 4-21-2006 @ 13:15
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Pat Caperton	
By Whom? Camille Reynolds	Date and Hour 4-21-2006 @ 15:35	
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 Internal corrosion while purging the line resulted in release of sweet crude oil. The line has been purged. The line is an idle 6-inch steel gathering line. The pressure on the line was approximately 50 psi and the gravity of the sweet crude oil was 34. The sweet crude has an H_2S content of <10 ppm. The line was approximately 1.5 feet bgs at the release point.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was approximately 1,500 ft^2.

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: Camille Reynolds

Printed Name: Camille Reynolds

Title: Remediation Coordinator

E-mail Address: cjreynolds@paalp.com

Date: 4/26/2006 Phone:505-441-

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: Expiration Date:

Conditions of Approval: Attached ☐