AP - 96

ANNUAL MONITORING REPORT

YEAR(S): 2008

Basin Environmental Consulting, LLC

2800 Plains Highway
P. O. Box 381
Lovington, New Mexico 88260
cjbryant@basin-consulting.com
Office: (575) 396-2378 Fax: (575) 396-1429

Effective Solutions

2008
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

PREPARED FOR:

PLAINS

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

PREPARED BY:

BASIN ENVIRONMENTAL CONSULTING, LLC
P. O. Box 381
Lovington, New Mexico 88260

March 2009

Camille Bryant
Project Manager

PLAINS
ALL AMERICAN

RECEIVED
2009 MAR 30 PM 1 31

March 23, 2009

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

Re: Plains All American – 2008 Annual Monitoring Reports
2 Sites in Lea County, New Mexico
1 Site in Eddy County, New Mexico

Dear Mr. Hansen:

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

Lovington Gathering WTI	1RP-838	AP-96	Section 06, T17S, R37E, Lea County
Vacuum 10-Inch to Jal	1RP-0385		Section 20, T19S, R37E, Lea County
Ballard Grayburg 5-Inch	2R-0053		Section 10, T18S, R29E, Eddy County

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

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

Sincerely,

Jason Henry
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

TABLE OF CONTENTS

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 2008 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 the NMOCD, initial groundwater monitoring was conducted during the 4th 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 of the presence of phase-separated hydrocarbons (PSH) on the water column, and purging and sampling of each well exhibiting sufficient recharge. Based on the results of the initial monitoring and sampling event, Plains placed this site on a quarterly groundwater monitoring program.

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 was repaired utilizing a pipeline clamp and 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 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 in length by 27 feet in width and ranged from approximately 5 to 6 feet in depth. Excavated soil was placed on a 6-mil ploy-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, eleven (11) soil borings were advanced to a depth of thirty (30) to seventy-five (75) feet below ground surface (bgs). Based on the laboratory results of the soil samples collected during advancement of the soil borings; three (3) groundwater monitor wells (MW-1, MW-2 and MW-3) were installed to evaluate the status of the groundwater.

Based on the laboratory results from the initial groundwater sampling event (October 5, 2006), four (4) additional monitoring wells were installed in November 2006. During the installation of the groundwater monitor wells (MW-1 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 soil samples collected from monitor well MW-3, which exhibited a TPH concentration of 2,080 mg/Kg and 121 mg/Kg, at fifty-five (55) and seventy-five (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 less than the MDL and the NMOCD regulatory standard of 10 mg/Kg and 50 mg/Kg for benzene and BTEX, respectively. The analytical results indicate TPH concentrations were less than the MDL and NMOCD regulatory standard of 100 mg/Kg for soil samples collected at ten (10) and twenty-five (25) feet bgs. Soil samples collected at fifty (50) and seventy-five (75) feet bgs exhibited a TPH concentration of 14 mg/Kg (below 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 the soil samples collected during the installation of monitor well MW-9 indicated benzene, BTEX and TPH concentrations were less than the MDL and NMOCD regulatory standard in the five (5) laboratory submitted soil samples.

Currently, there are nine (9) groundwater monitoring wells on-site, 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.

FIELD ACTIVITIES

No PSH was detected in any of the site monitor wells during the 2008 reporting period.

The site monitoring wells were gauged and sampled March 11, June 14, September 17 and December 2, 2008. During these sampling events, the monitoring wells were purged of a minimum of three (3) 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 bailers. 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 NMOCD 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 2008 quarterly sampling events, are depicted on Figures 2A through 2D. The 2008 groundwater elevation data is provided as Table 1.

The Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.0008 feet/foot to the south-southeast as measured between groundwater monitor wells MW-5 and MW-9. The corrected groundwater elevation ranged between 3,726.78 and 3,722.91 feet above mean sea level, in monitor well MW-1 on March 11, 2008 and in monitor well MW-9 on June 14, 2008, respectively.

LABORATORY RESULTS

Groundwater samples were collected from the groundwater monitoring wells (MW-1 through MW-9) during the quarterly monitoring event were delivered to Xenco Laboratories, formerly Environmental Laboratory of Texas, Odessa, Texas for determination of benzene, toluene, ethylbenzene and xylenes (BTEX) constituent concentrations by EPA Method SW846-8021b. Pursuant to an NMOCD request, the groundwater monitoring wells were sampled annually for concentrations of Poly Aromatic Hydrocarbons (PAH) utilizing EPA Method SW 8270C. A summary of BTEX constituent concentrations and PAH constituent concentrations for 2008 are presented in Table 2 and Table 3, respectively. The laboratory reports are provided as Appendix A.

Monitor well MW-1 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from less than the MDL and NMOCD regulatory standard during the 1st and 2nd quarters to 0.035 mg/L during the 4th quarter of 2008. Benzene concentrations were above NMOCD regulatory standard during the 3rd and 4th quarters of the reporting period. Toluene, ethylbenzene and total xylene concentrations were less than the MDL and the NMOCD regulatory standard during all four (4) quarters of the reporting period. Analytical results indicate PAH constituent concentrations were less than the MDL for each constituent during the 4th quarter of 2008.

Monitor well MW-2 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.003 mg/L during the 2nd quarter to 0.159 mg/L during the 3rd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard during the 1st, 3rd and 4th quarters of the reporting period. Toluene concentrations ranged from <0.002 mg/L during the 1st, 2nd and 3rd quarters to 0.002 mg/L during the 4th quarter of 2008. Toluene concentrations were less than the NMOCD regulatory standard for all four (4) quarters of the reporting period. Ethylbenzene concentrations were less than the MDL and NMOCD regulatory standard during all four (4) quarters of the reporting period. Total xylene concentrations ranged from the MDL during the 2nd quarter to 0.008 mg/L during the 4th quarter of 2008. Total xylene concentrations were less than the NMOCD regulatory standard during all four (4) quarters of the reporting period. Analytical results indicate PAH constituent concentrations were less than the MDL for each constituent during the 4th quarter of the reporting period.

Monitor well MW-3 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.024 mg/L during the 4th quarter to 1.159 mg/L during the 1st quarter of 2008. Benzene concentrations were above NMOCD regulatory standards for all four (4) quarters of the reporting period. Toluene concentrations ranged from <0.002 mg/L during the

3rd and 4th quarters to 0.107 mg/L during the 1st quarter of 2008. Toluene concentrations were less than NMOCD regulatory standard during all four (4) quarters of the reporting period.

Ethylbenzene concentrations ranged from <0.001 mg/L during the 3rd and 4th quarters to 0.177 mg/L during the 1st quarter of 2008. Ethylbenzene concentrations were less than the NMOCD regulatory standard for all four (4) quarters of the reporting period. Total xylene concentrations ranged from 0.002 mg/L during the 3rd quarter to 0.205 mg/L during the 1st quarter of 2008. Total xylene concentrations were less than the NMOCD regulatory standard for all four (4) quarters of the reporting period. Analytical results indicate PAH constituent concentrations were less than the MDL for each constituent during the 4th quarter of the reporting period.

Monitor well MW-4 is sampled on a quarterly schedule and analytical results indicate concentrations of benzene, ethylbenzene and total xylene were less than the MDL and NMOCD regulatory standard during all four (4) quarters of the 2008 reporting period. Toluene concentrations ranged from <0.002 mg/L during the 1st, 2nd and 3rd quarters to 0.006 mg/L during the 4th quarter of 2008. Toluene concentrations were less than the NMOCD regulatory standard during all four (4) quarters of the 2008 reporting period. Analytical results indicate PAH constituent concentrations were less than the MDL for each constituent during the 4th quarter of the reporting period.

Monitor well MW-5 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were less than the MDL and NMOCD regulatory standard for each BTEX constituent during all four (4) quarters of the 2008 reporting period. Analytical results indicate PAH constituent concentrations were less than the MDL for each constituent during the 4th quarter of the reporting period.

Monitor well MW-6 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were less than the MDL and NMOCD regulatory standard for each BTEX constituent during all four (4) quarters of the 2008 reporting period. Analytical results indicate PAH constituent concentrations were less than the MDL for each constituent during the 4th quarter of the reporting period.

Monitor well MW-7 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.036 mg/L during the 4th quarter to 0.353 mg/L during the 3rd quarter of 2008. Benzene concentrations were above NMOCD regulatory standard for all four (4) quarters of the reporting period. Toluene and ethylbenzene concentrations were less than the MDL and NMOCD regulatory standard for all four (4) quarters of the 2008 reporting period. Total xylene concentrations ranged from 0.003 mg/L during the 1st and 3rd quarters to 0.016 mg/L during the 2nd quarter of 2008. Total xylene concentrations were less than the NMOCD regulatory standard for all four (4) quarters of the 2008 reporting period. Analytical results indicate PAH constituent concentrations were less than the MDL for each constituent during the 4th quarter of the reporting period.

Monitor well MW-8 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 1st quarter to 0.568 mg/L during the 3rd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard during the

3rd and 4th quarters of the reporting period. Toluene concentrations ranged from <0.002 mg/L during the 1st and 2nd quarters to 0.046 mg/L during the 4th quarter of 2008. Toluene concentrations were less than the NMOCD regulatory standard for all four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from <0.001 mg/L during the 1st and 2nd quarters to 0.008 mg/L during the 4th quarter of 2008. Ethylbenzene concentrations were less than the NMOCD regulatory standard for all four (4) quarters of the reporting period. Total xylene concentrations ranged from <0.002 mg/L during the 1st and 2nd quarters to 0.054 mg/L during the 4th quarter of 2008. Total xylene concentrations were less than the NMOCD regulatory standard for all four (4) quarters of the reporting period. Analytical results indicate PAH constituent concentrations were less than the MDL for each constituent during the 4th quarter of the reporting period.

Monitor well MW-9 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were less than the MDL and NMOCD regulatory standard for each BTEX constituent during all four (4) quarters of the 2008 reporting period. Analytical results indicate PAH constituent concentrations were less than the MDL for each constituent during the 4th quarter of the reporting period.

Laboratory analytical results obtained during the 4th quarter groundwater sampling event in December 2008 indicate benzene and BTEX constituent concentrations were less than the MDL for groundwater monitor wells MW-5, MW-6 and MW-9. Analytical results indicate benzene concentrations were above the NMOCD regulatory standard for groundwater monitor wells MW-1, MW-2, MW-3, MW-7 and MW-8 at 0.035 mg/L, 0.050 mg/L, 0.024 mg/L, 0.036 mg/L and 0.234 mg/L, respectively. However, toluene, ethylbenzene and total xylene concentrations were less than the NMOCD regulatory standard.

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 impact at this site, the NMOCD requested quarterly groundwater sampling events be conducted at this site. No PSH was detected in any of the site monitor wells during the 2008 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 0.0008 feet/foot to the south-southeast as measured between groundwater monitor wells MW-5 and MW-9.

Laboratory analytical results obtained during the 4th quarter groundwater sampling event in December 2008 indicate benzene and BTEX constituent concentrations were less than the MDL for groundwater monitor wells MW-5, MW-6 and MW-9. Analytical results indicate benzene concentrations were above the NMOCD regulatory standard for groundwater monitor wells MW-1, MW-2, MW-3, MW-7 and MW-8 at 0.035 mg/L, 0.050 mg/L, 0.024 mg/L, 0.036 mg/L

and 0.234 mg/L, respectively. However, toluene, ethylbenzene and total xylene concentrations were less than the NMOCD regulatory standard.

On August 18, 2008, a Stage 1 and Stage 2 Abatement Plan was submitted to the NMOCD Santa Fe Office. As of the date of publication of this report no response has been received from the NMOCD as to the status of this Abatement Plan.

ANTICIPATED ACTIONS

Quarterly monitoring and groundwater sampling will continue in the reporting year 2009.

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.

DISTRIBUTION

Copy 1: Edward Hansen
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Edwardj.hansen@state.nm.us

Copy 2: Larry Johnson
New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, New Mexico 88240
Larry.Johnson@state.nm.us

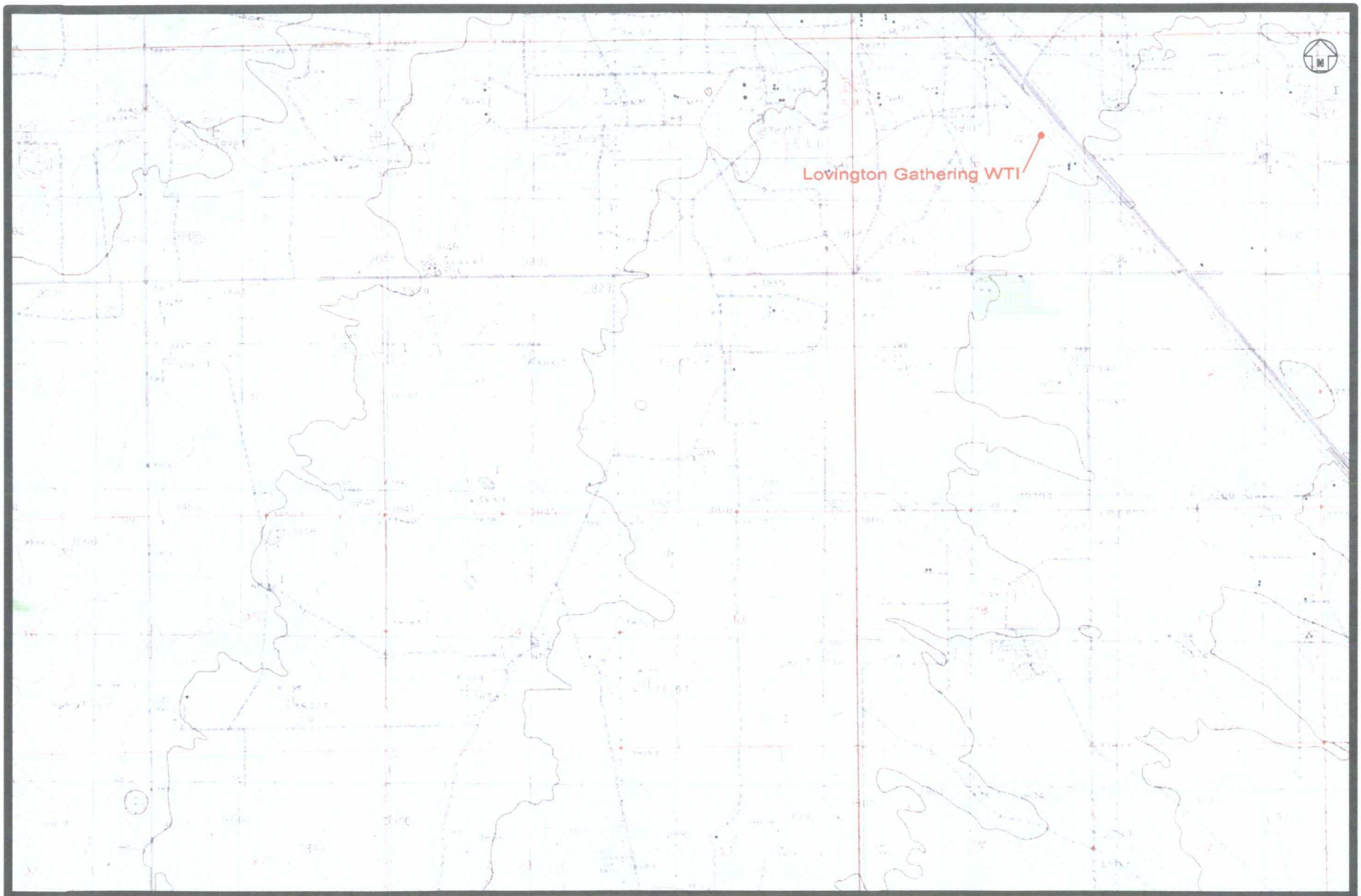
Copy 3: Jeff Dann
Plains Marketing, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002
jpdann@paalp.com

Copy 4: Jason Henry
Plains Marketing, L.P.
2530 State Highway 214
Denver City, Texas 79323
jhenry@paalp.com

Copy 5: Basin Environmental Consulting, LLC
P. O. Box 381
Lovington, New Mexico 88260
cjbryant@basin-consulting.com

Copy Number:_____

Figures



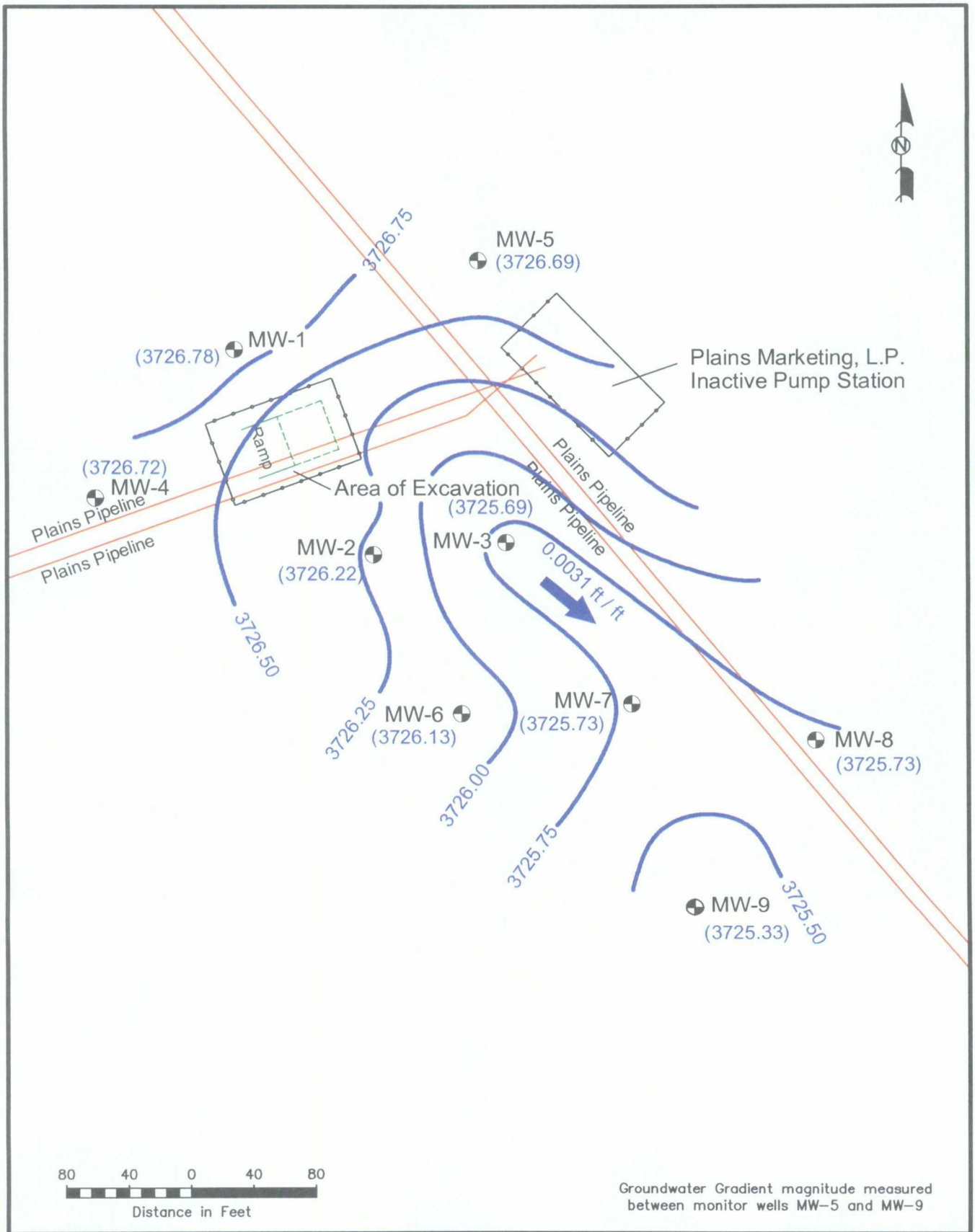
3000 1500 0 1500 3000

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 (03/11/08)
Plains Marketing, L.P.
Lovington Gathering WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
February 20, 2009	SE1/4 NE1/4 Sec 16 T17S R37E	
	Lat. N32° 51' 56" Long. W103° 17' 07.2"	

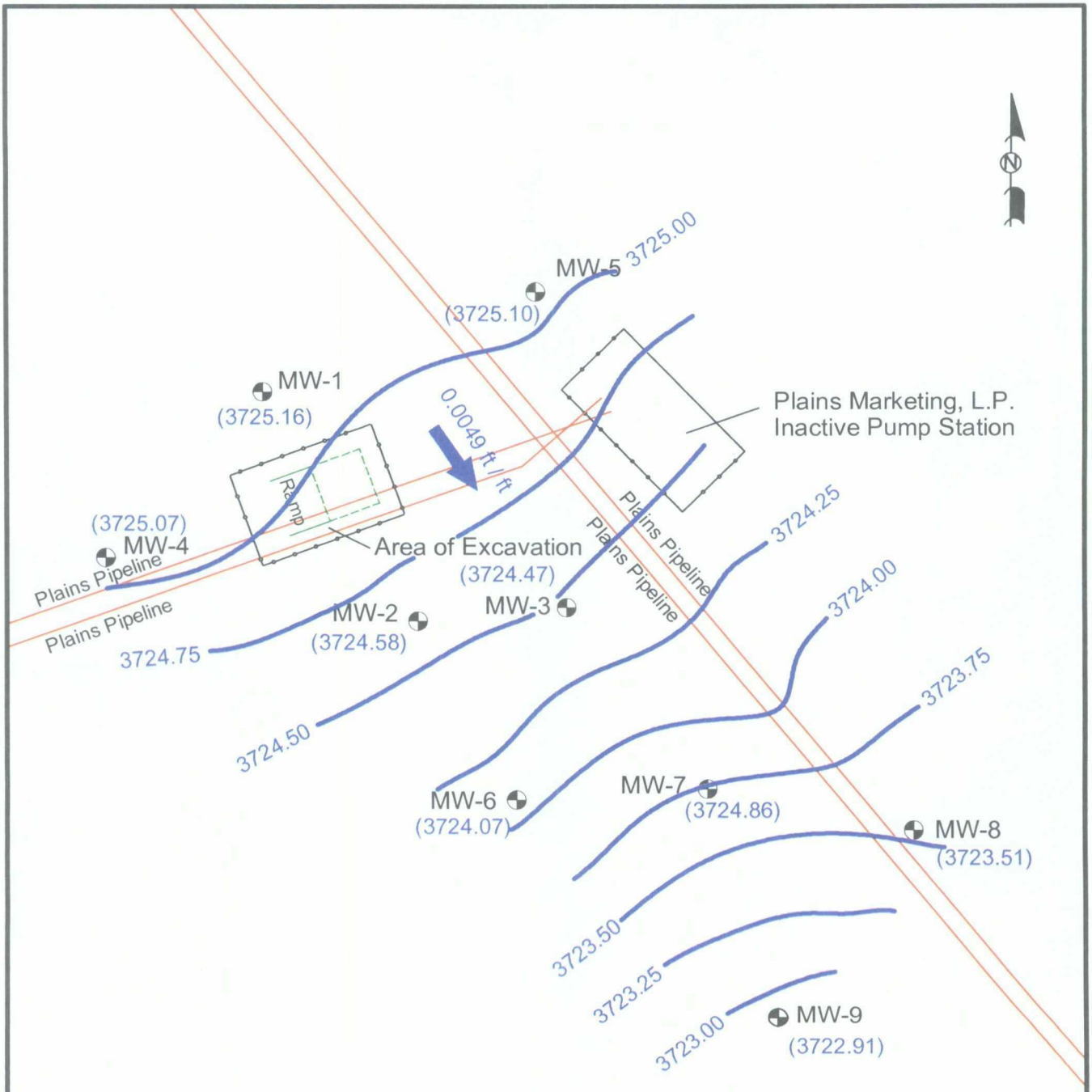
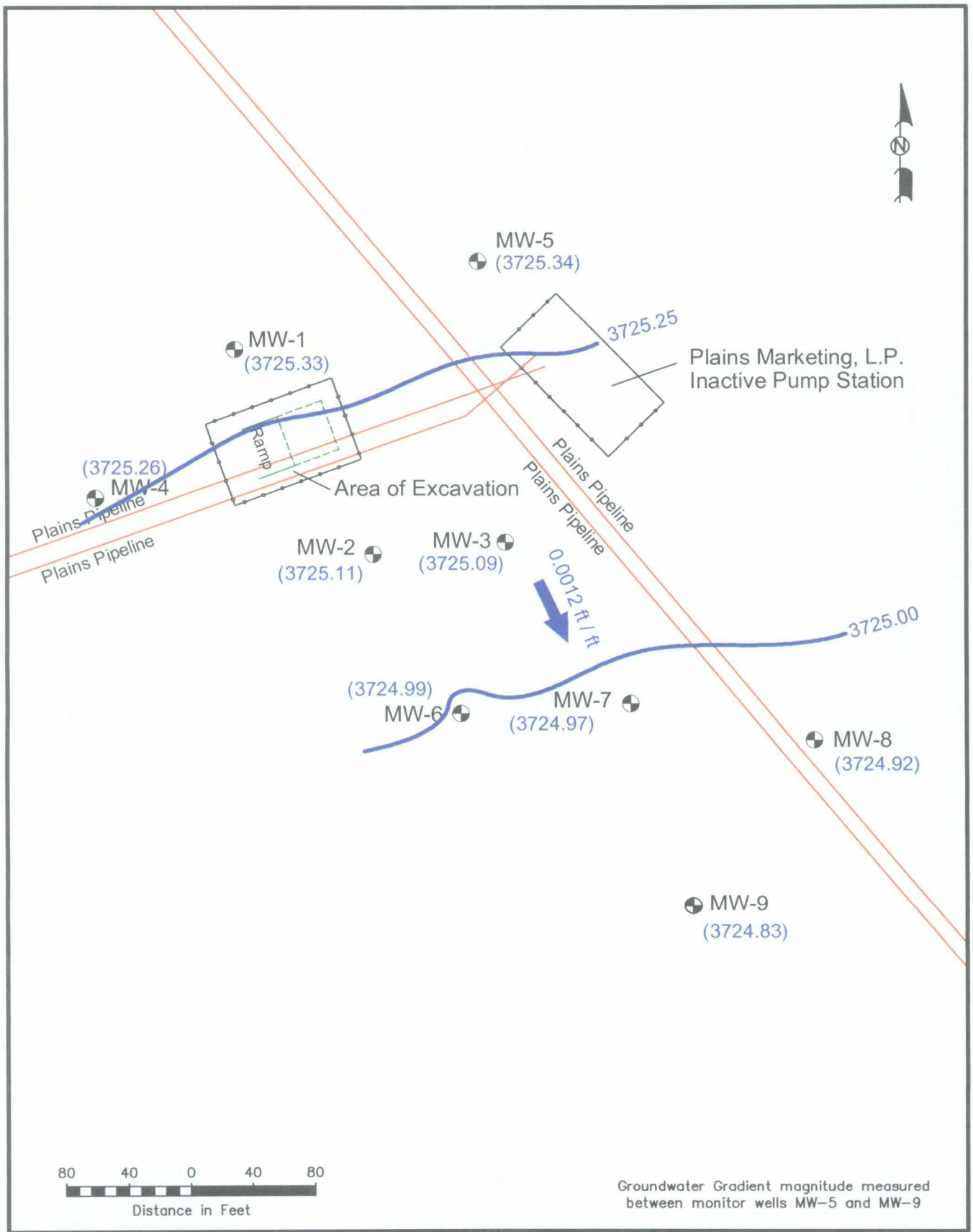


Figure 2B
Inferred Groundwater Gradient Map
(06/14/08)
Plains Marketing, L.P.
Lovington Gathering WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
February 20, 2009	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 2C
Inferred Groundwater Gradient Map (09/17/08)
Plains Marketing, L.P.
Lovington Gathering WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
February 20, 2009	SE1/4 NE1/4 Sec 16 T17S R37E	
	Lat. N32° 51' 56" Long. W103° 17' 07.2"	

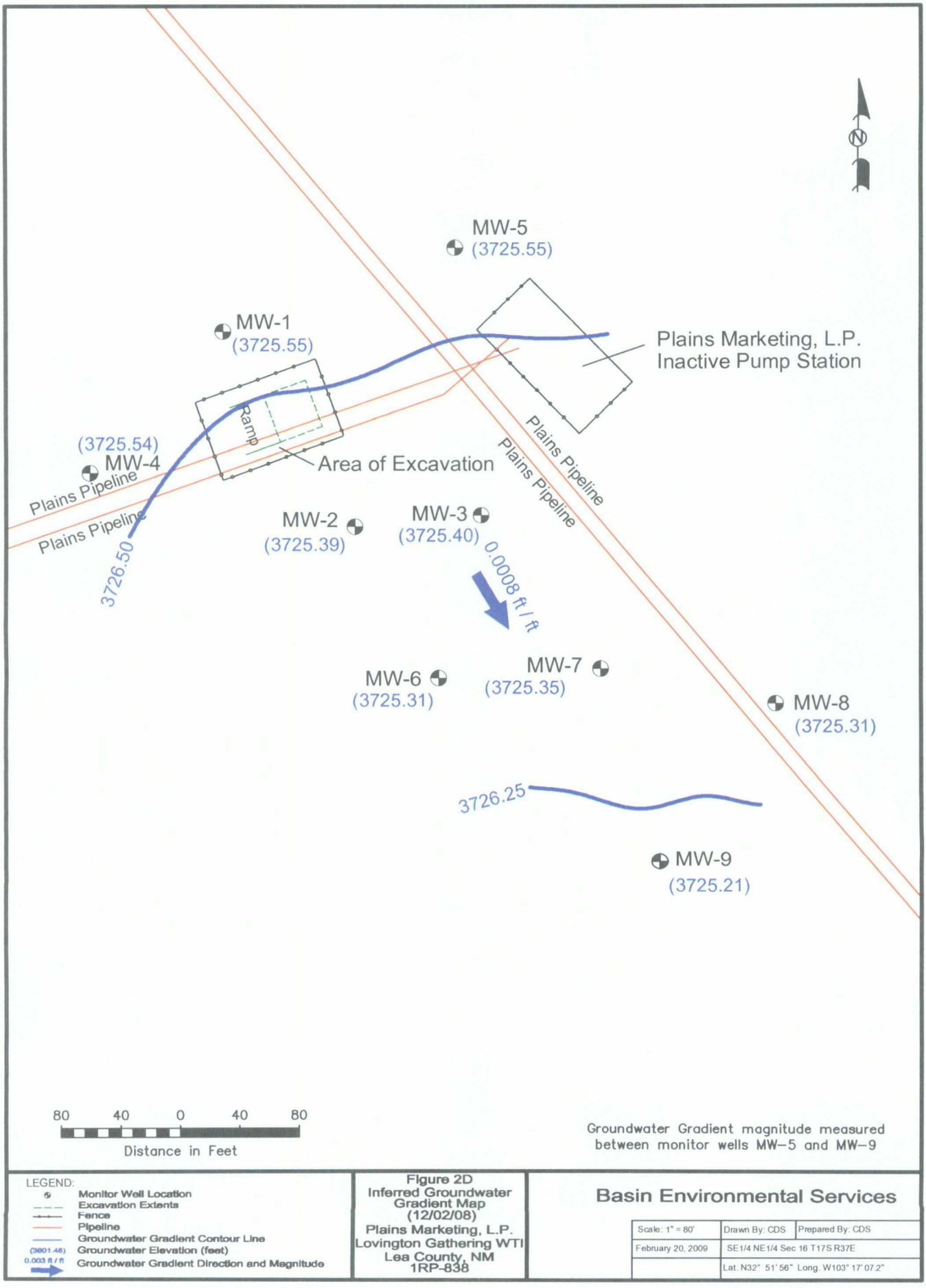
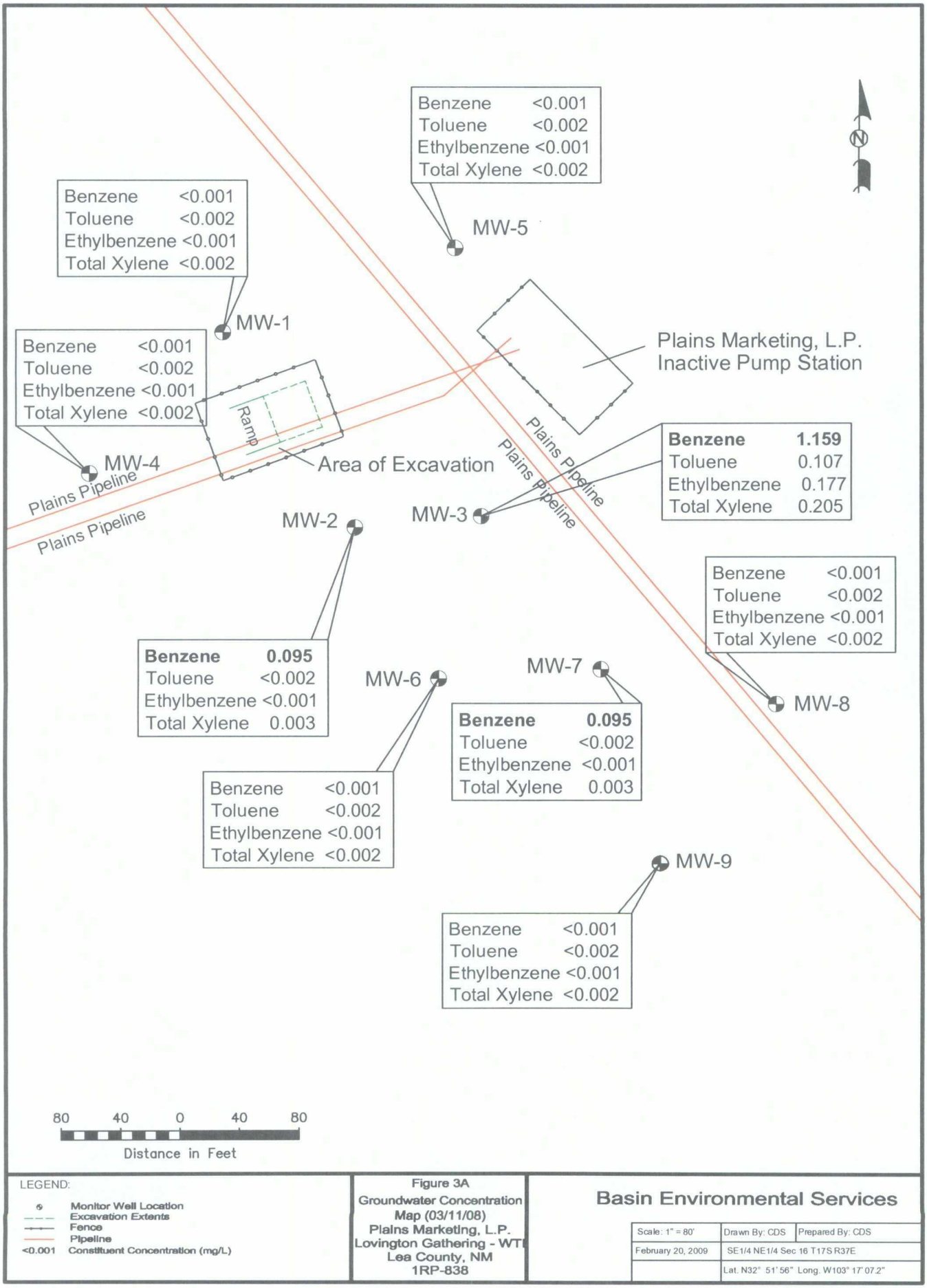


Figure 2D
Inferred Groundwater Gradient Map
(12/02/08)
Plains Marketing, L.P.
Lovington Gathering WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
February 20, 2009	SE1/4 NE1/4 Sec 16 T17S R37E	
	Lat. N32° 51' 56" Long. W103° 17' 07.2"	



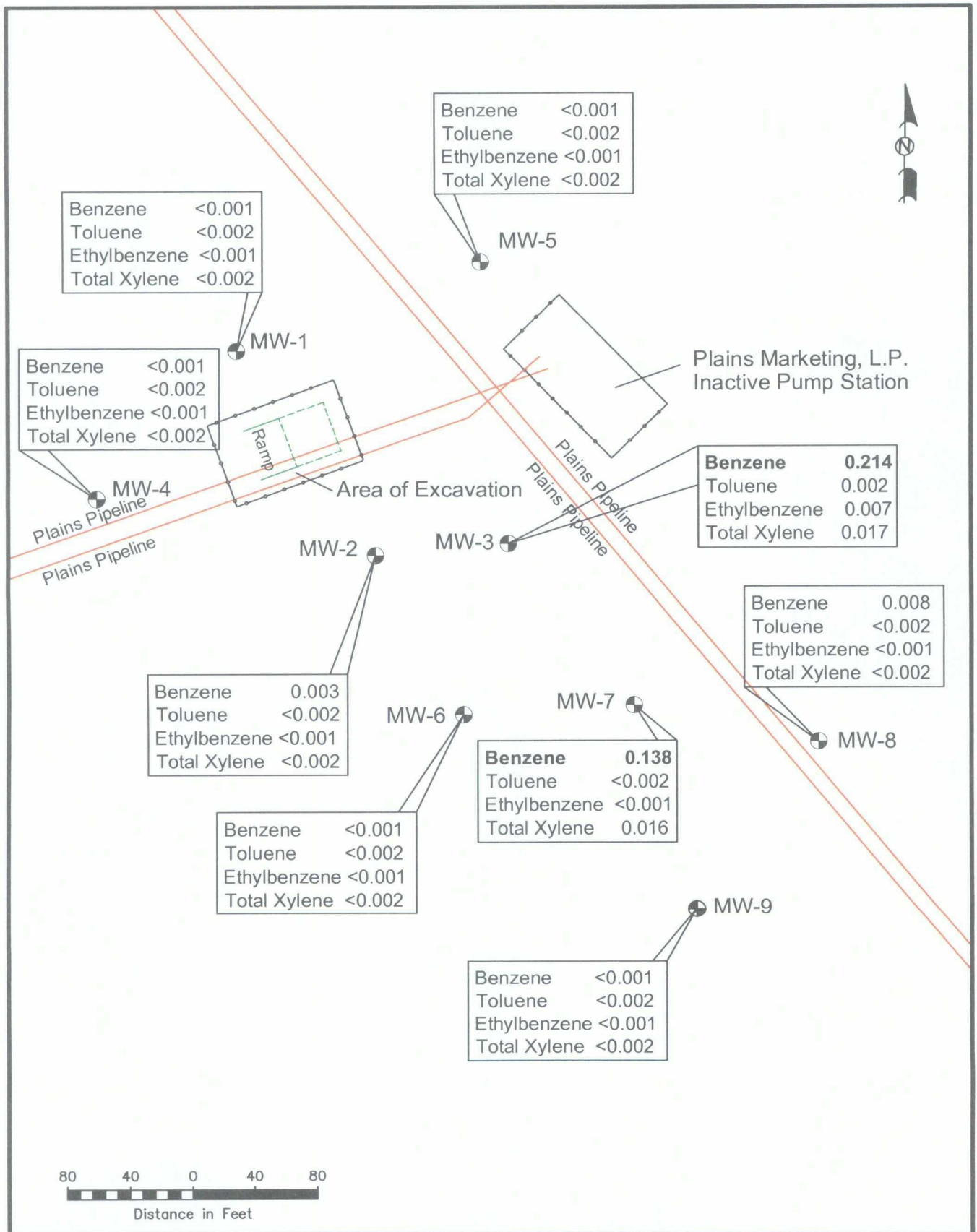
LEGEND:

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

Figure 3A
Groundwater Concentration Map (03/11/08)
Plains Marketing, L.P.
Lovington Gathering - WT
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
February 20, 2009	SE1/4 NE1/4 Sec 16 T17S R37E	
	Lat. N32° 51' 56" Long. W103° 17' 07.2"	



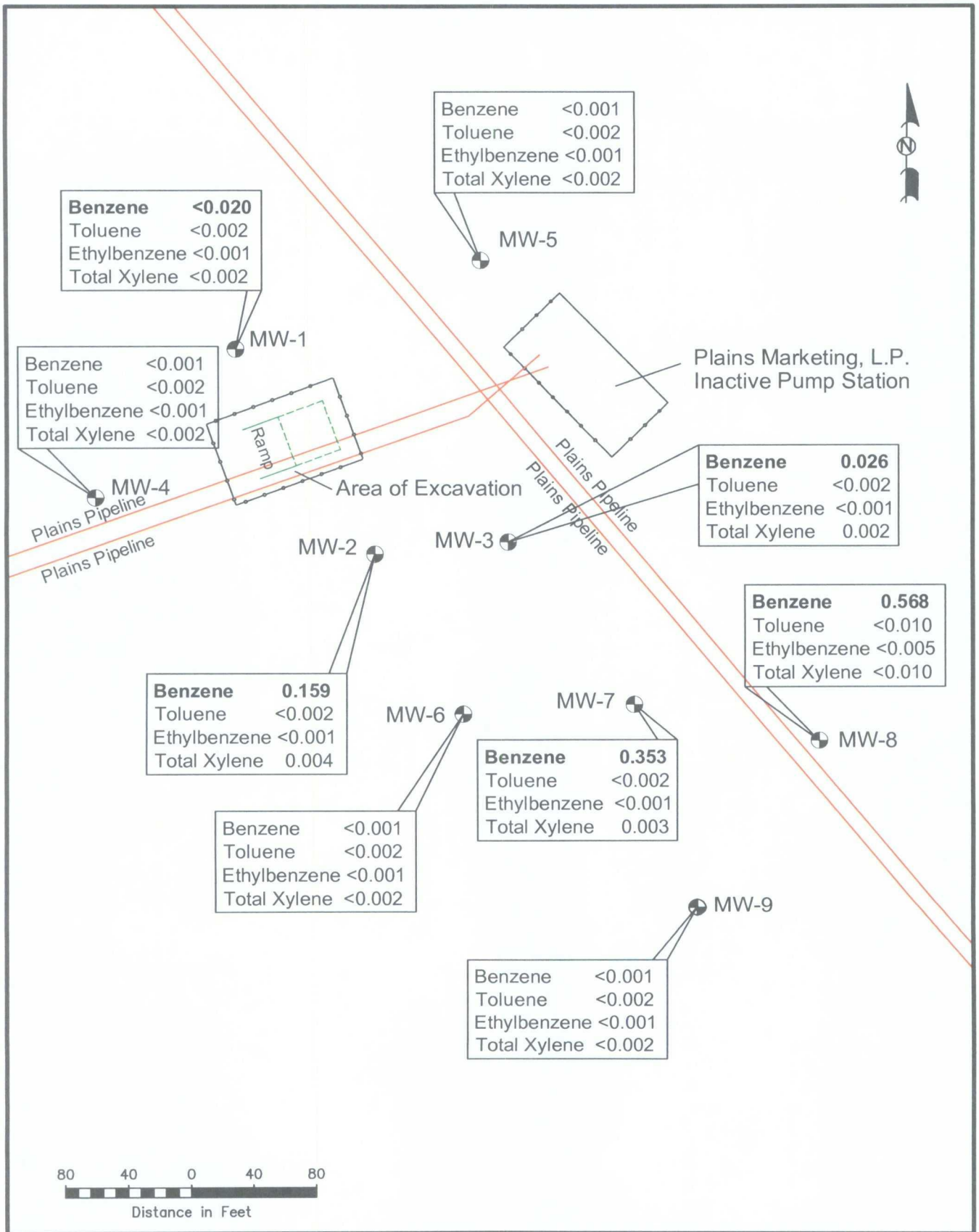
LEGEND:

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

Figure 3B
Groundwater Concentration Map (06/14/08)
Plains Marketing, L.P.
Lovington Gathering - WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
February 20, 2009	SE1/4 NE1/4 Sec 16 T17S R37E	
	Lat. N32° 51' 56" Long. W103° 17' 07.2"	



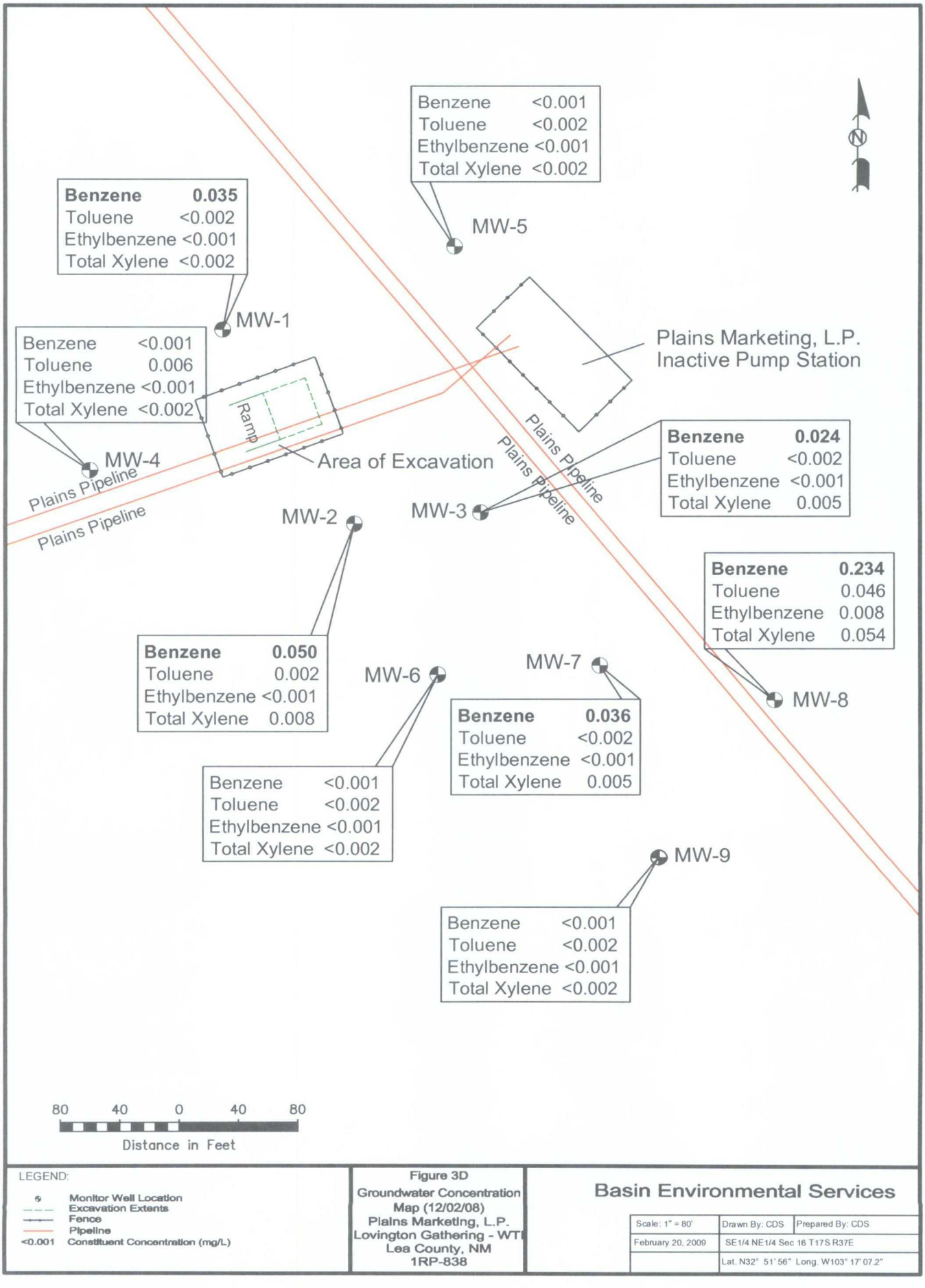
LEGEND:

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

Figure 3C
Groundwater Concentration Map (09/17/08)
Plains Marketing, L.P.
Lovington Gathering - WT
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
February 20, 2009	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 3D
Groundwater Concentration Map (12/02/08)
Plains Marketing, L.P.
Lovington Gathering - WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
February 20, 2009	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	03/11/08	3,806.60	-	79.82	0.00	3,726.78
	06/14/08	3,806.60	-	81.44	0.00	3,725.16
	09/17/08	3,806.60	-	81.27	0.00	3,725.33
	12/02/08	3,806.60	-	81.05	0.00	3,725.55
MW-2	03/11/08	3,806.31	-	80.09	0.00	3,726.22
	06/14/08	3,806.31	-	81.73	0.00	3,724.58
	09/17/08	3,806.31	-	81.20	0.00	3,725.11
	12/02/08	3,806.31	-	80.92	0.00	3,725.39
MW-3	03/11/08	3,806.19	-	80.50	0.00	3,725.69
	06/14/08	3,806.19	-	81.72	0.00	3,724.47
	09/17/08	3,806.19	-	81.10	0.00	3,725.09
	12/02/08	3,806.19	-	80.79	0.00	3,725.40
MW-4	03/11/08	3,806.67	-	79.95	0.00	3,726.72
	06/14/08	3,806.67	-	81.60	0.00	3,725.07
	09/17/08	3,806.67	-	81.41	0.00	3,725.26
	12/02/08	3,806.67	-	81.13	0.00	3,725.54
MW-5	03/11/08	3,806.30	-	79.61	0.00	3,726.69
	06/14/08	3,806.30	-	81.20	0.00	3,725.10
	09/17/08	3,806.30	-	80.96	0.00	3,725.34
	12/02/08	3,806.30	-	80.75	0.00	3,725.55
MW-6	03/11/08	3,806.08	-	79.95	0.00	3,726.13
	06/14/08	3,806.08	-	82.01	0.00	3,724.07
	09/17/08	3,806.08	-	81.09	0.00	3,724.99
	12/02/08	3,806.08	-	80.77	0.00	3,725.31
MW-7	03/11/08	3,806.05	-	80.32	0.00	3,725.73
	06/14/08	3,806.05	-	81.19	0.00	3,724.86
	09/17/08	3,806.05	-	81.08	0.00	3,724.97
	12/02/08	3,806.05	-	80.70	0.00	3,725.35

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	03/11/08	3,805.89	-	80.16	0.00	3,725.73
	06/14/08	3,805.89	-	82.38	0.00	3,723.51
	09/17/08	3,805.89	-	80.97	0.00	3,724.92
	12/02/08	3,805.89	-	80.58	0.00	3,725.31
MW-9	03/11/08	3,806.02	-	80.69	0.00	3,725.33
	06/14/08	3,806.02	-	83.11	0.00	3,722.91
	09/17/08	3,806.02	-	81.19	0.00	3,724.83
	12/02/08	3,806.02	-	80.81	0.00	3,725.21

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	DATE ANALYZED	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	03/11/08	03/17/08	<0.001	<0.002	<0.001	<0.002	<0.001
	06/14/08	06/17/08	<0.001	<0.002	<0.001	<0.002	<0.001
	09/17/08	09/22/08	**0.020**	<0.002	<0.001	<0.002	<0.001
	12/02/08	12/05/08	**0.035**	<0.002	<0.001	<0.002	<0.001
MW-2	03/11/08	03/17/08	**0.095**	<0.002	<0.001	0.003	<0.001
	06/14/08	06/17/08	0.003	<0.002	<0.001	<0.002	<0.001
	09/17/08	09/22/08	**0.159**	<0.002	<0.001	0.004	<0.001
	12/02/08	12/05/08	**0.050**	0.002	<0.001	0.007	0.001
MW-3	03/11/08	03/17/08	**1.159**	0.107	0.177	0.066	0.139
	06/14/08	06/17/08	**0.214**	0.002	0.007	0.012	0.005
	09/17/08	09/22/08	**0.026**	<0.002	<0.001	0.002	<0.001
	12/02/08	12/05/08	**0.024**	<0.002	<0.001	0.004	0.001
MW-4	03/11/08	03/17/08	<0.001	<0.002	<0.001	<0.002	<0.001
	06/14/08	06/17/08	<0.001	<0.002	<0.001	<0.002	<0.001
	09/17/08	09/22/08	<0.001	<0.002	<0.001	<0.002	<0.001
	12/02/08	12/05/08	<0.001	0.006	<0.001	<0.002	<0.001
MW-5	03/11/08	03/17/08	<0.001	<0.002	<0.001	<0.002	<0.001
	06/14/08	06/17/08	<0.001	<0.002	<0.001	<0.002	<0.001
	09/17/08	09/22/08	<0.001	<0.002	<0.001	<0.002	<0.001
	12/02/08	12/05/08	<0.001	<0.002	<0.001	<0.002	<0.001
MW-6	03/11/08	03/17/08	<0.001	<0.002	<0.001	<0.002	<0.001
	06/14/08	06/17/08	<0.001	<0.002	<0.001	<0.002	<0.001
	09/17/08	09/22/08	<0.001	<0.002	<0.001	<0.002	<0.001
	12/02/08	12/05/08	<0.001	<0.002	<0.001	<0.002	<0.001
MW-7	03/11/08	03/17/08	**0.095**	<0.002	<0.001	0.003	<0.001
	06/14/08	06/17/08	**0.138**	<0.002	<0.001	0.016	<0.001
	09/17/08	09/22/08	**0.353**	<0.002	<0.001	0.003	<0.001
	12/02/08	12/05/08	**0.036**	<0.002	<0.001	0.003	0.002
MW-8	03/11/08	03/17/08	<0.001	<0.002	<0.001	<0.002	<0.001
	06/14/08	06/17/08	0.008	<0.002	<0.001	<0.002	<0.001
	09/17/08	09/22/08	**0.568**	<0.010	<0.005	<0.010	<0.005
	12/02/08	12/05/08	**0.234**	0.046	0.008	0.041	0.013

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	DATE ANALYZED	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-9	03/11/08	03/17/08	<0.001	<0.002	<0.001	<0.002	<0.001
	06/14/08	06/17/08	<0.001	<0.002	<0.001	<0.002	<0.001
	09/17/08	09/22/08	<0.001	<0.002	<0.001	<0.002	<0.001
	12/02/08	12/05/08	<0.001	<0.002	<0.001	<0.002	<0.001
NMOCD CRITERIA			0.01	0.75	0.75	0.62	

TABLE 3

CONCENTRATIONS OF POLY AROMATIC HYDROCARBONS 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	METHOD: EPA SW 846 8270C																	
		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benxo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Flluorene	Indeno(1,2,3-c,d)Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthaline	Phenanthrene	Pyrene
MW-1	12/02/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-2	12/02/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-3	12/02/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-4	12/02/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-5	12/02/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-6	12/02/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-7	12/02/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-8	12/01/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-9	12/02/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Appendices

Appendix A
Laboratory Reports

Analytical Report 299636

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lovington Gathering WTI

2006-142

19-MAR-08

ENVIRONMENTAL LAB OF

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

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

19-MAR-08

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

Reference: XENCO Report No: **299636**
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 299636. 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. 299636 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

Sample Cross Reference 299636

PLAINS ALL AMERICAN EH&S, Midland, TX

Lovington Gathering WTI

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	Mar-11-08 13:25		299636-001
MW-4	W	Mar-11-08 14:00		299636-002
MW-5	W	Mar-11-08 14:40		299636-003
MW-6	W	Mar-11-08 15:15		299636-004
MW-8	W	Mar-11-08 15:50		299636-005
MW-9	W	Mar-11-08 16:40		299636-006
MW-2	W	Mar-12-08 08:00		299636-007
MW-7	W	Mar-12-08 09:00		299636-008
MW-3	W	Mar-12-08 10:00		299636-009

Certificate of Analysis Summary 299636

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 Mar-14-08 12:10 pm
Report Date: 19-MAR-08
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	299636-001		299636-002		299636-003		299636-004		299636-005		299636-006	
	Field Id:	MW-1		MW-4		MW-5		MW-6		MW-8		MW-9	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	Mar-11-08 13:25		Mar-11-08 14:00		Mar-11-08 14:40		Mar-11-08 15:15		Mar-11-08 15:50		Mar-11-08 16:40	
BTEX by EPA 8021B	*Extracted:*	Mar-17-08 08:42		Mar-17-08 08:42		Mar-17-08 08:42		Mar-17-08 08:42		Mar-17-08 08:42		Mar-17-08 08:42	
	Analyzed:	Mar-17-08 15:39		Mar-17-08 15:58		Mar-17-08 16:16		Mar-17-08 16:34		Mar-17-08 16:53		Mar-17-08 17:48	
	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	

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 299636

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 Mar-14-08 12:10 pm
Report Date: 19-MAR-08
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	299636-007		299636-008		299636-009				
	Field Id:	MW-2		MW-7		MW-3				
	Depth:									
	Matrix:	WATER		WATER		WATER				
	Sampled:	Mar-12-08 08:00		Mar-12-08 09:00		Mar-12-08 10:00				
BTEX by EPA 8021B	*Extracted:*	Mar-17-08 08:42		Mar-17-08 08:42		Mar-18-08 10:28				
	Analyzed:	Mar-17-08 18:06		Mar-17-08 18:25		Mar-18-08 15:00				
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL			
Benzene		0.0955	0.0010	0.0437	0.0010	1.159	0.0050			
Toluene		ND	0.0020	ND	0.0020	0.1073	0.0100			
Ethylbenzene		ND	0.0010	ND	0.0010	0.1775	0.0050			
m,p-Xylenes		0.0032	0.0020	0.0150	0.0020	0.0662	0.0100			
o-Xylene		ND	0.0010	ND	0.0010	0.1393	0.0050			
Xylenes, Total		0.0032		0.015		0.2055				
Total BTEX		0.0987		0.0587		1.6493				

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(PQL) and above the SQL(MDL).

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 #: 299636 **Project ID:** 2006-142

Lab Batch #: 717332 **Sample:** 299559-001 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	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0347	0.0300	116	80-120	

Lab Batch #: 717332 **Sample:** 299559-001 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	0.0334	0.0300	111	80-120	
4-Bromofluorobenzene	0.0356	0.0300	119	80-120	

Lab Batch #: 717332 **Sample:** 299636-001 / 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	0.0333	0.0300	111	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	80-120	

Lab Batch #: 717332 **Sample:** 299636-002 / 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	0.0329	0.0300	110	80-120	
4-Bromofluorobenzene	0.0341	0.0300	114	80-120	

Lab Batch #: 717332 **Sample:** 299636-003 / 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	0.0329	0.0300	110	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	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 #: 299636 **Project ID:** 2006-142

Lab Batch #: 717332 **Sample:** 299636-004 / 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	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0344	0.0300	115	80-120	

Lab Batch #: 717332 **Sample:** 299636-005 / 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	0.0329	0.0300	110	80-120	
4-Bromofluorobenzene	0.0337	0.0300	112	80-120	

Lab Batch #: 717332 **Sample:** 299636-006 / 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	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	80-120	

Lab Batch #: 717332 **Sample:** 299636-007 / 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	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

Lab Batch #: 717332 **Sample:** 299636-008 / 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	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0328	0.0300	109	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 #: 299636 **Project ID:** 2006-142

Lab Batch #: 717332 **Sample:** 505989-1-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	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0355	0.0300	118	80-120	

Lab Batch #: 717332 **Sample:** 505989-1-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	0.0331	0.0300	110	80-120	
4-Bromofluorobenzene	0.0342	0.0300	114	80-120	

Lab Batch #: 717332 **Sample:** 505989-1-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	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0330	0.0300	110	80-120	

Lab Batch #: 717545 **Sample:** 299636-009 / 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	0.0298	0.0300	99	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 717545 **Sample:** 299685-002 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	0.0339	0.0300	113	80-120	
4-Bromofluorobenzene	0.0360	0.0300	120	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 #: 299636 **Project ID:** 2006-142

Lab Batch #: 717545 **Sample:** 299685-002 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	0.0342	0.0300	114	80-120	
4-Bromofluorobenzene	0.0356	0.0300	119	80-120	

Lab Batch #: 717545 **Sample:** 506115-1-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	0.0301	0.0300	100	80-120	
4-Bromofluorobenzene	0.0329	0.0300	110	80-120	

Lab Batch #: 717545 **Sample:** 506115-1-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	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0337	0.0300	112	80-120	

Lab Batch #: 717545 **Sample:** 506115-1-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	0.0300	0.0300	100	80-120	
4-Bromofluorobenzene	0.0307	0.0300	102	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 #: 299636 **Project ID:** 2006-142

Analyst: SHE **Date Prepared:** 03/17/2008 **Date Analyzed:** 03/17/2008

Lab Batch ID: 717332 **Sample:** 505989-1-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	0.0980	98	0.1	0.0942	94	4	70-125	25	
Toluene	ND	0.1000	0.0979	98	0.1	0.0943	94	4	70-125	25	
Ethylbenzene	ND	0.1000	0.1001	100	0.1	0.0967	97	3	71-129	25	
m,p-Xylenes	ND	0.2000	0.2009	100	0.2	0.1930	97	4	70-131	25	
o-Xylene	ND	0.1000	0.1073	107	0.1	0.1022	102	5	71-133	25	

Analyst: SHE **Date Prepared:** 03/18/2008 **Date Analyzed:** 03/18/2008

Lab Batch ID: 717545 **Sample:** 506115-1-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	0.0886	89	0.1	0.0913	91	3	70-125	25	
Toluene	ND	0.1000	0.0883	88	0.1	0.0908	91	3	70-125	25	
Ethylbenzene	ND	0.1000	0.0906	91	0.1	0.0927	93	2	71-129	25	
m,p-Xylenes	ND	0.2000	0.1814	91	0.2	0.1850	93	2	70-131	25	
o-Xylene	ND	0.1000	0.0967	97	0.1	0.0982	98	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 # : 299636 **Project ID:** 2006-142

Lab Batch ID: 717332 **QC- Sample ID:** 299559-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 03/17/2008 **Date Prepared:** 03/17/2008 **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	0.0873	82	0.1000	0.0839	79	4	70-125	25	
Toluene	ND	0.1000	0.0893	89	0.1000	0.0849	85	5	70-125	25	
Ethylbenzene	ND	0.1000	0.0935	94	0.1000	0.0885	89	5	71-129	25	
m,p-Xylenes	ND	0.2000	0.1856	93	0.2000	0.1753	88	6	70-131	25	
o-Xylene	ND	0.1000	0.0971	97	0.1000	0.0913	91	6	71-133	25	

Lab Batch ID: 717545 **QC- Sample ID:** 299685-002 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 03/18/2008 **Date Prepared:** 03/18/2008 **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	0.0120	0.1000	0.0889	77	0.1000	0.0953	83	8	70-125	25	
Toluene	ND	0.1000	0.0801	80	0.1000	0.0838	84	5	70-125	25	
Ethylbenzene	ND	0.1000	0.0853	85	0.1000	0.0893	89	5	71-129	25	
m,p-Xylenes	ND	0.2000	0.1693	85	0.2000	0.1758	88	3	70-131	25	
o-Xylene	ND	0.1000	0.0884	88	0.1000	0.0921	92	4	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: Linda Blackwood e-mail: kdutton@basinenv.com

(lab use only)
ORDER #: 296360

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	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-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW-1			11-Mar-08	1325		2	X		X							GW											X					X
02	MW-4			11-Mar-08	1400		2	X		X							GW											X					X
03	MW-5			11-Mar-08	1440		2	X		X							GW											X					X
04	MW-6			11-Mar-08	1515		2	X		X							GW											X					X
05	MW-8			11-Mar-08	1550		2	X		X							GW											X					X
06	MW-9			11-Mar-08	1640		2	X		X							GW											X					X
07	MW-2			12-Mar-08	0800		2	X		X							GW											X					X
08	MW-7			12-Mar-08	0900		2	X		X							GW											X					X
09	MW-3			12-Mar-08	1000		2	X		X							GW											X					X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Linda Blackwood	3-14-08	0805	Bill Hobbs	3-14-08	8:00
Relinquished by:	Date	Time	Received by:	Date	Time
Bill Hobbs	3-14-08	12:10			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Andrea Sosa	3/14/08	12:10

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. ?	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 5.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 3-14-08 12:10

Lab ID # : 277630

Initials: AL

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	(Yes)	No	5.0 °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 305940

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lovington Gathering WTI

2006-142

19-JUN-08

ENVIRONMENTAL LAB OF

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

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

ENVIRONMENTAL LAB OF

19-JUN-08

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

Reference: XENCO Report No: **305940**
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 305940. 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. 305940 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

Sample Cross Reference 305940

PLAINS ALL AMERICAN EH&S, Midland, TX

Lovington Gathering WTI

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	Jun-14-08 13:00		305940-001
MW-4	W	Jun-14-08 13:15		305940-002
MW-5	W	Jun-14-08 13:30		305940-003
MW-6	W	Jun-14-08 13:45		305940-004
MW-8	W	Jun-14-08 13:55		305940-005
MW-9	W	Jun-14-08 14:10		305940-006
MW-2	W	Jun-14-08 14:20		305940-007
MW-7	W	Jun-14-08 15:30		305940-008
MW-3	W	Jun-14-08 15:50		305940-009

Certificate of Analysis Summary 305940

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: Mon Jun-16-08 05:05 pm
Report Date: 19-JUN-08
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	305940-001		305940-002		305940-003		305940-004		305940-005		305940-006	
	Field Id:	MW-1		MW-4		MW-5		MW-6		MW-8		MW-9	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	Jun-14-08 13:00		Jun-14-08 13:15		Jun-14-08 13:30		Jun-14-08 13:45		Jun-14-08 13:55		Jun-14-08 14:10	
BTEX by EPA 8021B	*Extracted:*	Jun-17-08 16:15		Jun-17-08 16:15		Jun-17-08 16:15		Jun-17-08 16:15		Jun-17-08 16:15		Jun-17-08 16:15	
	Analyzed:	Jun-17-08 19:26		Jun-17-08 19:50		Jun-17-08 20:14		Jun-17-08 20:38		Jun-17-08 21:02		Jun-17-08 21:26	
	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	0.0087	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
Total Xylenes		ND		ND		ND		ND		ND		ND	
Total BTEX		ND		ND		ND		ND		0.0087		ND	

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

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 305940

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: Mon Jun-16-08 05:05 pm
Report Date: 19-JUN-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	305940-007		305940-008		305940-009					
	Field Id:	MW-2		MW-7		MW-3					
	Depth:										
	Matrix:	WATER		WATER		WATER					
	Sampled:	Jun-14-08 14:20		Jun-14-08 15:30		Jun-14-08 15:50					
BTEX by EPA 8021B	*Extracted:*	Jun-17-08 16:15		Jun-17-08 16:15		Jun-17-08 16:15					
	Analyzed:	Jun-17-08 21:49		Jun-17-08 22:13		Jun-17-08 22:37					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL				
Benzene		0.0033	0.0010	0.1388	0.0010	0.2148	0.0010				
Toluene		ND	0.0020	ND	0.0020	0.0025	0.0020				
Ethylbenzene		ND	0.0010	ND	0.0010	0.0071	0.0010				
m,p-Xylenes		ND	0.0020	0.0166	0.0020	0.0123	0.0020				
o-Xylene		ND	0.0010	ND	0.0010	0.0059	0.0010				
Total Xylenes		ND		0.0166		0.0182					
Total BTEX		0.0033		0.1554		0.2426					

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(PQL) and above the SQL(MDL).

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 #: 305940 **Project ID:** 2006-142

Lab Batch #: 725775 **Sample:** 305940-001 / 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	0.0350	0.0300	117	80-120	
4-Bromofluorobenzene	0.0291	0.0300	97	80-120	

Lab Batch #: 725775 **Sample:** 305940-001 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	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0333	0.0300	111	80-120	

Lab Batch #: 725775 **Sample:** 305940-001 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	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0321	0.0300	107	80-120	

Lab Batch #: 725775 **Sample:** 305940-002 / 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	0.0346	0.0300	115	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 725775 **Sample:** 305940-003 / 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	0.0339	0.0300	113	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	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 #: 305940 **Project ID:** 2006-142

Lab Batch #: 725775 **Sample:** 305940-004 / 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	0.0341	0.0300	114	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 725775 **Sample:** 305940-005 / 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	0.0332	0.0300	111	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 725775 **Sample:** 305940-006 / 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	0.0340	0.0300	113	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

Lab Batch #: 725775 **Sample:** 305940-007 / 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	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 725775 **Sample:** 305940-008 / 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	0.0340	0.0300	113	80-120	
4-Bromofluorobenzene	0.0251	0.0300	84	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 #: 305940 **Project ID:** 2006-142

Lab Batch #: 725775 **Sample:** 305940-009 / 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	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 725775 **Sample:** 510817-1-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	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0328	0.0300	109	80-120	

Lab Batch #: 725775 **Sample:** 510817-1-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	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 725775 **Sample:** 510817-1-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	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	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.

ENVIRONMENTAL LAB OF

BS / BSD Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 305940 **Project ID:** 2006-142

Analyst: SHE **Date Prepared:** 06/17/2008 **Date Analyzed:** 06/17/2008

Lab Batch ID: 725775 **Sample:** 510817-1-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	0.0926	93	0.1	0.0827	83	11	70-125	25	
Toluene	ND	0.1000	0.0970	97	0.1	0.0853	85	13	70-125	25	
Ethylbenzene	ND	0.1000	0.1118	112	0.1	0.0979	98	13	71-129	25	
m,p-Xylenes	ND	0.2000	0.2288	114	0.2	0.2010	101	13	70-131	25	
o-Xylene	ND	0.1000	0.1153	115	0.1	0.1016	102	13	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 # : 305940 **Project ID:** 2006-142

Lab Batch ID: 725775 **QC- Sample ID:** 305940-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 06/18/2008 **Date Prepared:** 06/17/2008 **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	0.0895	90	0.1000	0.0814	81	11	70-125	25	
Toluene	ND	0.1000	0.0919	92	0.1000	0.0835	84	9	70-125	25	
Ethylbenzene	ND	0.1000	0.1040	104	0.1000	0.0948	95	9	71-129	25	
m,p-Xylenes	ND	0.2000	0.2115	106	0.2000	0.1934	97	9	70-131	25	
o-Xylene	ND	0.1000	0.1090	109	0.1000	0.0995	100	9	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: Curt Stanley PAGE 01 OF 01

Company Name: Basin Environmental Service Technologies, LLC

Company Address: P. O. Box 301

City/State/Zip: Lovington, NM 88260

Telephone No: (505) 441-2244

Fax No: (505) 396-1429

Sampler Signature: [signature]

e-mail: cstanley@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 #: 305940

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO_3	HCl	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)	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	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
																								TOTAL:	X				
01	MW-1			6/14/2008	1300		2	X		X						GW									X				X
02	MW-4			6/14/2008	1315		2	X		X						GW									X				X
03	MW-5			6/14/2008	1330		2	X		X						GW									X				X
04	MW-6			6/14/2008	1345		2	X		X						GW									X				X
05	MW-8			6/14/2008	1355		2	X		X						GW									X				X
06	MW-9			6/14/2008	1410		2	X		X						GW									X				X
07	MW-2			6/14/2008	1420		2	X		X						GW									X				X
08	MW-7			6/14/2008	1530		2	X		X						GW									X				X
09	MW-3			6/14/2008	1550		2	X		X						GW									X				X

HCl: N/A

Special Instructions:
email results to cstanley@basinenv.com & cjreynolds@paalp.com

Relinquished by	Date	Time	Received by	Date	Time
[signature]	6/16/08	1705			
			Received by ELOT: [signature]	6-16-08	17:05

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 Env. | Plains

Date/ Time: 6-16-08 17:05

Lab ID # : 305140

Initials: AL

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

Analytical Report 312889

for

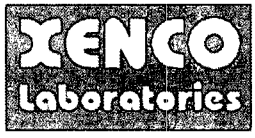
PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lovington Gathering WTI

2006-142

25-SEP-08



E84880

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215 - Odessa/Midland, TX T104704215-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

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

25-SEP-08

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

Reference: XENCO Report No: **312889**
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 312889. 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. 312889 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

Sample Cross Reference 312889

PLAINS ALL AMERICAN EH&S, Midland, TX

Lovington Gathering WTI

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-5	W	Sep-17-08 14:15		312889-001
MW-1	W	Sep-17-08 14:45		312889-002
MW-4	W	Sep-17-08 15:10		312889-003
MW-6	W	Sep-17-08 15:30		312889-004
MW-9	W	Sep-17-08 15:50		312889-005
MW-2	W	Sep-17-08 16:15		312889-006
MW-8	W	Sep-17-08 16:40		312889-007
MW-7	W	Sep-17-08 17:00		312889-008
MW-3	W	Sep-17-08 17:30		312889-009

Certificate of Analysis Summary 312889

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-19-08 04:53 pm
Report Date: 25-SEP-08
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	312889-001		312889-002		312889-003		312889-004		312889-005		312889-006	
	Field Id:	MW-5		MW-1		MW-4		MW-6		MW-9		MW-2	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	Sep-17-08 14:15		Sep-17-08 14:45		Sep-17-08 15:10		Sep-17-08 15:30		Sep-17-08 15:50		Sep-17-08 16:15	
BTEX by EPA 8021B	*Extracted:*	Sep-22-08 16:08		Sep-22-08 16:08		Sep-22-08 16:08		Sep-22-08 16:08		Sep-22-08 16:08		Sep-22-08 16:08	
	Analyzed:	Sep-23-08 01:37		Sep-23-08 01:59		Sep-23-08 02:22		Sep-23-08 02:45		Sep-23-08 03:07		Sep-23-08 03:30	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		ND	0.0010	0.0200	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.1590	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	0.0044	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		0.0044	
Total BTEX		ND		0.02		ND		ND		ND		0.1634	

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

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 312889

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-19-08 04:53 pm
Report Date: 25-SEP-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	312889-007		312889-008		312889-009					
	Field Id:	MW-8		MW-7		MW-3					
	Depth:										
	Matrix:	WATER		WATER		WATER					
	Sampled:	Sep-17-08 16:40		Sep-17-08 17:00		Sep-17-08 17:30					
BTEX by EPA 8021B	*Extracted:*	Sep-23-08 15:00		Sep-22-08 16:08		Sep-23-08 15:00					
	Analyzed:	Sep-23-08 16:26		Sep-23-08 04:15		Sep-23-08 17:11					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL				
Benzene		0.5689	0.0050	0.3535	0.0010	0.0266	0.0010				
Toluene		ND	0.0100	ND	0.0020	ND	0.0020				
Ethylbenzene		ND	0.0050	ND	0.0010	ND	0.0010				
m,p-Xylenes		ND	0.0100	0.0036	0.0020	0.0022	0.0020				
o-Xylene		ND	0.0050	ND	0.0010	ND	0.0010				
Total Xylenes		ND		0.0036		0.0022					
Total BTEX		0.5689		0.3571		0.0288					

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

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(PQL) and above the SQL(MDL).

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 Orders : 312889, **Project ID:** 2006-142

Lab Batch #: 734916 **Sample:** 312880-001 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	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0248	0.0300	83	80-120	

Lab Batch #: 734916 **Sample:** 312880-001 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	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0252	0.0300	84	80-120	

Lab Batch #: 734916 **Sample:** 312889-001 / 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	0.0360	0.0300	120	80-120	
4-Bromofluorobenzene	0.0264	0.0300	88	80-120	

Lab Batch #: 734916 **Sample:** 312889-002 / 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	0.0330	0.0300	110	80-120	
4-Bromofluorobenzene	0.0226	0.0300	75	80-120	**

Lab Batch #: 734916 **Sample:** 312889-003 / 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	0.0364	0.0300	121	80-120	**
4-Bromofluorobenzene	0.0260	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 Orders : 312889, **Project ID:** 2006-142

Lab Batch #: 734916 **Sample:** 312889-004 / 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	0.0365	0.0300	122	80-120	**
4-Bromofluorobenzene	0.0256	0.0300	85	80-120	

Lab Batch #: 734916 **Sample:** 312889-005 / 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	0.0364	0.0300	121	80-120	**
4-Bromofluorobenzene	0.0262	0.0300	87	80-120	

Lab Batch #: 734916 **Sample:** 312889-006 / 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	0.0254	0.0300	85	80-120	
4-Bromofluorobenzene	0.0147	0.0300	49	80-120	**

Lab Batch #: 734916 **Sample:** 312889-008 / 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	0.0217	0.0300	72	80-120	**
4-Bromofluorobenzene	0.0095	0.0300	32	80-120	**

Lab Batch #: 734916 **Sample:** 516098-1-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	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0243	0.0300	81	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 Orders : 312889, **Project ID:** 2006-142

Lab Batch #: 734916 **Sample:** 516098-1-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	0.0362	0.0300	121	80-120	**
4-Bromofluorobenzene	0.0259	0.0300	86	80-120	

Lab Batch #: 734916 **Sample:** 516098-1-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	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 735018 **Sample:** 312889-007 / 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	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene	0.0105	0.0300	35	80-120	**

Lab Batch #: 735018 **Sample:** 312889-009 / 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	0.0351	0.0300	117	80-120	
4-Bromofluorobenzene	0.0227	0.0300	76	80-120	**

Lab Batch #: 735018 **Sample:** 312889-009 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	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0259	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 Orders : 312889,

Project ID: 2006-142

Lab Batch #: 735018 **Sample:** 312889-009 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	0.0298	0.0300	99	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 735018 **Sample:** 516175-1-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	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0248	0.0300	83	80-120	

Lab Batch #: 735018 **Sample:** 516175-1-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	0.0370	0.0300	123	80-120	**
4-Bromofluorobenzene	0.0262	0.0300	87	80-120	

Lab Batch #: 735018 **Sample:** 516175-1-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	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0250	0.0300	83	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 #: 312889 **Project ID:** 2006-142

Analyst: ASA **Date Prepared:** 09/22/2008 **Date Analyzed:** 09/22/2008

Lab Batch ID: 734916 **Sample:** 516098-1-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	0.1052	105	0.1	0.1034	103	2	70-125	25	
Toluene	ND	0.1000	0.1005	101	0.1	0.0990	99	2	70-125	25	
Ethylbenzene	ND	0.1000	0.1021	102	0.1	0.1002	100	2	71-129	25	
m,p-Xylenes	ND	0.2000	0.2121	106	0.2	0.2085	104	2	70-131	25	
o-Xylene	ND	0.1000	0.0966	97	0.1	0.0961	96	1	71-133	25	

Analyst: ASA **Date Prepared:** 09/23/2008 **Date Analyzed:** 09/23/2008

Lab Batch ID: 735018 **Sample:** 516175-1-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	0.1034	103	0.1	0.1089	109	5	70-125	25	
Toluene	ND	0.1000	0.0996	100	0.1	0.1049	105	5	70-125	25	
Ethylbenzene	ND	0.1000	0.1016	102	0.1	0.1071	107	5	71-129	25	
m,p-Xylenes	ND	0.2000	0.2104	105	0.2	0.2220	111	5	70-131	25	
o-Xylene	ND	0.1000	0.0948	95	0.1	0.1014	101	7	71-133	25	

Relative Percent Difference RPD = 200*|(C-F)/(C+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 # : 312889 **Project ID:** 2006-142

Lab Batch ID: 734916 **QC- Sample ID:** 312880-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/23/2008 **Date Prepared:** 09/22/2008 **Analyst:** ASA

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	0.0910	91	0.1000	0.1002	100	9	70-125	25	
Toluene	ND	0.1000	0.0858	86	0.1000	0.0939	94	9	70-125	25	
Ethylbenzene	ND	0.1000	0.0855	86	0.1000	0.0936	94	9	71-129	25	
m,p-Xylenes	ND	0.2000	0.1770	89	0.2000	0.1937	97	9	70-131	25	
o-Xylene	ND	0.1000	0.0833	83	0.1000	0.0912	91	9	71-133	25	

Lab Batch ID: 735018 **QC- Sample ID:** 312889-009 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/23/2008 **Date Prepared:** 09/23/2008 **Analyst:** ASA

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	0.0266	0.1000	0.1289	102	0.1000	0.1344	108	6	70-125	25	
Toluene	ND	0.1000	0.0979	98	0.1000	0.1012	101	3	70-125	25	
Ethylbenzene	ND	0.1000	0.0965	97	0.1000	0.1010	101	4	71-129	25	
m,p-Xylenes	0.0022	0.2000	0.2011	99	0.2000	0.2100	104	5	70-131	25	
o-Xylene	ND	0.1000	0.0926	93	0.1000	0.0972	97	4	71-133	25	

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

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: Curt Stanley 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) 441-2244 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: for L. Blackwood e-mail: kdutton@basinenv.com

(lab use only) ORDER #: 312889

Analyze For: TCLP: TOTAL: X

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	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: SW - 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	HCl	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW-5			9/17/2008	1415		2	X		X						GW									X				X
02	MW-1			9/17/2008	1445		2	X		X						GW									X				X
03	MW-4			9/17/2008	1510		2	X		X						GW									X				X
04	MW-6			9/17/2008	1530		2	X		X						GW									X				X
05	MW-9			9/17/2008	1550		2	X		X						GW									X				X
06	MW-2			9/17/2008	1615		2	X		X						GW									X				X
07	MW-8			9/17/2008	1640		2	X		X						GW									X				X
08	MW-7			9/17/2008	1700		2	X		X						GW									X				X
09	MW-3			9/17/2008	1730		2	X		X						GW									X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	9/19/08	16:53			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Andrea Fam	9.19.08	16:53

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 by Sampler/Client Rep. ?	N
by Courier? UPS DHL FedEx Lone Star	VOA
Temperature Upon Receipt:	4.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Basin Env. / Plains

Date/ Time: 9.19.08 16:53

Lab ID # : 31289

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 319271

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Lovington Gathering WTI

2006-142

09-DEC-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

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

09-DEC-08

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

Reference: XENCO Report No: **319271**
Lovington Gathering WTI
Project Address: Lea County, NM

Daniel 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 319271. 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. 319271 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

Sample Cross Reference 319271

PLAINS ALL AMERICAN EH&S, Midland, TX

Lovington Gathering WTI

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-5	W	Dec-02-08 08:35		319271-001
MW-4	W	Dec-02-08 08:55		319271-002
MW-6	W	Dec-02-08 09:25		319271-003
MW-9	W	Dec-02-08 09:45		319271-004
MW-1	W	Dec-02-08 10:10		319271-005
MW-3	W	Dec-02-08 10:30		319271-006
MW-2	W	Dec-02-08 12:40		319271-007
MW-8	W	Dec-02-08 13:00		319271-008
MW-7	W	Dec-02-08 13:15		319271-009

Certificate of Analysis Summary 319271
PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Dec-03-08 09:17 am
Report Date: 09-DEC-08
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	319271-001		319271-002		319271-003		319271-004	
	Field Id:	MW-5		MW-4		MW-6		MW-9	
	Depth:								
	Matrix:	WATER		WATER		WATER		WATER	
	Sampled:	Dec-02-08 08:35		Dec-02-08 08:55		Dec-02-08 09:25		Dec-02-08 09:45	
BTEX by EPA 8021B	*Extracted:*	Dec-04-08 16:05		Dec-04-08 16:05		Dec-04-08 16:05		Dec-04-08 16:05	
	Analyzed:	Dec-05-08 03:24		Dec-05-08 03:47		Dec-05-08 04:11		Dec-05-08 04:34	
	Units/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
Toluene		ND	0.0020	0.0062	0.0020	ND	0.0020	ND	0.0020
Ethylbenzene		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
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Total Xylenes		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Total BTEX		ND	0.0010	0.0062	0.0010	ND	0.0010	ND	0.0010
SVOA PAHs List by EPA 8270C	*Extracted:*	Dec-04-08 10:33		Dec-04-08 10:36		Dec-04-08 10:39		Dec-04-08 10:42	
	Analyzed:	Dec-04-08 21:06		Dec-04-08 21:50		Dec-04-08 22:34		Dec-04-08 23:18	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Acenaphthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Acenaphthylene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Anthracene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(a)anthracene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(a)pyrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(b)fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(k)fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(g,h,i)perylene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Chrysene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Dibenz(a,h)Anthracene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Fluorene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Indeno(1,2,3-c,d)Pyrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
1-Methylnaphthalene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
2-Methylnaphthalene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Naphthalene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Phenanthrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Pyrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 319271
PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Dec-03-08 09:17 am
Report Date: 09-DEC-08
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	319271-005		319271-006		319271-007		319271-008	
	Field Id:	MW-1		MW-3		MW-2		MW-8	
	Depth:								
	Matrix:	WATER		WATER		WATER		WATER	
	Sampled:	Dec-02-08 10:10		Dec-02-08 10:30		Dec-02-08 12:40		Dec-02-08 13:00	
BTEX by EPA 8021B	*Extracted:*	Dec-04-08 16:05		Dec-04-08 16:05		Dec-04-08 16:05		Dec-04-08 16:05	
	Analyzed:	Dec-05-08 04:58		Dec-05-08 05:21		Dec-05-08 05:45		Dec-05-08 12:01	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		0.0358	0.0010	0.0249	0.0010	0.0503	0.0010	0.2345	0.0050
Toluene		ND	0.0020	ND	0.0020	0.0026	0.0020	0.0468	0.0100
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010	0.0085	0.0050
m,p-Xylenes		ND	0.0020	0.0040	0.0020	0.0073	0.0020	0.0419	0.0100
o-Xylene		ND	0.0010	0.0019	0.0010	0.0014	0.0010	0.0135	0.0050
Total Xylenes		ND	0.0010	0.0059	0.0010	0.0087	0.0010	0.0554	0.0050
Total BTEX		0.0358	0.0010	0.0308	0.0010	0.0616	0.0010	0.3452	0.0050
SVOA PAHs List by EPA 8270C	*Extracted:*	Dec-04-08 10:45		Dec-04-08 10:48		Dec-04-08 10:51		Dec-04-08 10:54	
	Analyzed:	Dec-05-08 00:02		Dec-05-08 00:47		Dec-05-08 02:47		Dec-05-08 03:31	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Acenaphthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Acenaphthylene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Anthracene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(a)anthracene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(a)pyrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(b)fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(k)fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(g,h,i)perylene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Chrysene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Dibenz(a,h)Anthracene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Fluorene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Indeno(1,2,3-c,d)Pyrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
1-Methylnaphthalene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
2-Methylnaphthalene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Naphthalene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Phenanthrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Pyrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 319271
PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lovington Gathering WTI

Project Id: 2006-142 | **Date Received in Lab:** Dec-03-08 09:17 am
Contact: Daniel Bryant | **Report Date:** 09-DEC-08
Project Location: Lea County, NM | **Project Manager:** Brent Barron, II

Analysis Requested						
	Lab Id:	319271-009				
	Field Id:	MW-7				
	Depth:					
	Matrix:	WATER				
	Sampled:	Dec-02-08 13:15				
BTEX by EPA 8021B	*Extracted:*	Dec-05-08 12:55				
	Analyzed:	Dec-06-08 05:31				
	Units/RL:	mg/L	RL			
Benzene		0.0364	0.0010			
Toluene		ND	0.0020			
Ethylbenzene		ND	0.0010			
m,p-Xylenes		0.0039	0.0020			
o-Xylene		0.0025	0.0010			
Total Xylenes		0.0064	0.0010			
Total BTEX		0.0428	0.0010			
SVOA PAHs List by EPA 8270C	*Extracted:*	Dec-04-08 10:57				
	Analyzed:	Dec-05-08 04:16				
	Units/RL:	mg/L	RL			
Acenaphthene		ND	0.005			
Acenaphthylene		ND	0.005			
Anthracene		ND	0.005			
Benzo(a)anthracene		ND	0.005			
Benzo(a)pyrene		ND	0.005			
Benzo(b)fluoranthene		ND	0.005			
Benzo(k)fluoranthene		ND	0.005			
Benzo(g,h,i)perylene		ND	0.005			
Chrysene		ND	0.005			
Dibenz(a,h)Anthracene		ND	0.005			
Fluoranthene		ND	0.005			
Fluorene		ND	0.005			
Indeno(1,2,3-c,d)Pyrene		ND	0.005			
1-Methylnaphthalene		ND	0.005			
2-Methylnaphthalene		ND	0.005			
Naphthalene		ND	0.005			
Phenanthrene		ND	0.005			
Pyrene		ND	0.005			

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.

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Orders : 319271, **Project ID:** 2006-142

Lab Batch #: 742525 **Sample:** 319271-001 / 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	0.0337	0.0300	112	80-120	
4-Bromofluorobenzene	0.0209	0.0300	70	80-120	**

Lab Batch #: 742525 **Sample:** 319271-001 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	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0278	0.0300	93	80-120	

Lab Batch #: 742525 **Sample:** 319271-001 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	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

Lab Batch #: 742525 **Sample:** 319271-002 / 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	0.0347	0.0300	116	80-120	
4-Bromofluorobenzene	0.0206	0.0300	69	80-120	**

Lab Batch #: 742525 **Sample:** 319271-003 / 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	0.0343	0.0300	114	80-120	
4-Bromofluorobenzene	0.0201	0.0300	67	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 Orders : 319271,

Project ID: 2006-142

Lab Batch #: 742525 **Sample:** 319271-004 / 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	0.0332	0.0300	111	80-120	
4-Bromofluorobenzene	0.0202	0.0300	67	80-120	**

Lab Batch #: 742525 **Sample:** 319271-005 / 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	0.0329	0.0300	110	80-120	
4-Bromofluorobenzene	0.0186	0.0300	62	80-120	**

Lab Batch #: 742525 **Sample:** 319271-006 / 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	0.0203	0.0300	68	80-120	**
4-Bromofluorobenzene	0.0209	0.0300	70	80-120	**

Lab Batch #: 742525 **Sample:** 319271-007 / 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	0.0329	0.0300	110	80-120	
4-Bromofluorobenzene	0.0207	0.0300	69	80-120	**

Lab Batch #: 742525 **Sample:** 319271-008 / 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	0.0301	0.0300	100	80-120	
4-Bromofluorobenzene	0.0225	0.0300	75	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 Orders : 319271, **Project ID:** 2006-142

Lab Batch #: 742525 **Sample:** 520624-1-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	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

Lab Batch #: 742525 **Sample:** 520624-1-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	0.0336	0.0300	112	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 742525 **Sample:** 520624-1-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	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

Lab Batch #: 742793 **Sample:** 319271-009 / 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	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0174	0.0300	58	80-120	*

Lab Batch #: 742793 **Sample:** 319397-002 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	0.0264	0.0300	88	80-120	
4-Bromofluorobenzene	0.0184	0.0300	61	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 Orders : 319271, **Project ID:** 2006-142

Lab Batch #: 742793 **Sample:** 319397-002 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	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0181	0.0300	60	80-120	*

Lab Batch #: 742793 **Sample:** 8406040-1-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	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 742793 **Sample:** 8406040-1-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	0.0336	0.0300	112	80-120	
4-Bromofluorobenzene	0.0178	0.0300	59	80-120	*

Lab Batch #: 742793 **Sample:** 8406040-1-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	0.0299	0.0300	100	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.

Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Orders : 319271,

Project ID: 2006-142

Lab Batch #: 742468 **Sample:** 319271-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.050	74	43-116	
2-Fluorophenol	0.018	0.050	36	21-100	
Nitrobenzene-d5	0.033	0.050	66	35-114	
Phenol-d6	0.010	0.050	20	10-94	
Terphenyl-D14	0.035	0.050	70	33-141	
2,4,6-Tribromophenol	0.048	0.050	96	10-123	

Lab Batch #: 742468 **Sample:** 319271-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.050	74	43-116	
2-Fluorophenol	0.019	0.050	38	21-100	
Nitrobenzene-d5	0.033	0.050	66	35-114	
Phenol-d6	0.012	0.050	24	10-94	
Terphenyl-D14	0.037	0.050	74	33-141	
2,4,6-Tribromophenol	0.046	0.050	92	10-123	

Lab Batch #: 742468 **Sample:** 319271-003 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.050	74	43-116	
2-Fluorophenol	0.019	0.050	38	21-100	
Nitrobenzene-d5	0.033	0.050	66	35-114	
Phenol-d6	0.011	0.050	22	10-94	
Terphenyl-D14	0.036	0.050	72	33-141	
2,4,6-Tribromophenol	0.046	0.050	92	10-123	

** 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 Orders : 319271,

Project ID: 2006-142

Lab Batch #: 742468 **Sample:** 319271-004 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.038	0.050	76	43-116	
2-Fluorophenol	0.019	0.050	38	21-100	
Nitrobenzene-d5	0.033	0.050	66	35-114	
Phenol-d6	0.011	0.050	22	10-94	
Terphenyl-D14	0.037	0.050	74	33-141	
2,4,6-Tribromophenol	0.045	0.050	90	10-123	

Lab Batch #: 742468 **Sample:** 319271-005 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.036	0.050	72	43-116	
2-Fluorophenol	0.017	0.050	34	21-100	
Nitrobenzene-d5	0.032	0.050	64	35-114	
Phenol-d6	0.010	0.050	20	10-94	
Terphenyl-D14	0.033	0.050	66	33-141	
2,4,6-Tribromophenol	0.037	0.050	74	10-123	

Lab Batch #: 742468 **Sample:** 319271-006 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.050	74	43-116	
2-Fluorophenol	0.017	0.050	34	21-100	
Nitrobenzene-d5	0.032	0.050	64	35-114	
Phenol-d6	0.009	0.050	18	10-94	
Terphenyl-D14	0.038	0.050	76	33-141	
2,4,6-Tribromophenol	0.042	0.050	84	10-123	

** 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 Orders : 319271,

Project ID: 2006-142

Lab Batch #: 742468 **Sample:** 319271-007 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.050	74	43-116	
2-Fluorophenol	0.016	0.050	32	21-100	
Nitrobenzene-d5	0.032	0.050	64	35-114	
Phenol-d6	0.009	0.050	18	10-94	
Terphenyl-D14	0.034	0.050	68	33-141	
2,4,6-Tribromophenol	0.037	0.050	74	10-123	

Lab Batch #: 742468 **Sample:** 319271-008 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.038	0.050	76	43-116	
2-Fluorophenol	0.014	0.050	28	21-100	
Nitrobenzene-d5	0.034	0.050	68	35-114	
Phenol-d6	0.009	0.050	18	10-94	
Terphenyl-D14	0.035	0.050	70	33-141	
2,4,6-Tribromophenol	0.039	0.050	78	10-123	

Lab Batch #: 742468 **Sample:** 319271-009 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.038	0.050	76	43-116	
2-Fluorophenol	0.018	0.050	36	21-100	
Nitrobenzene-d5	0.033	0.050	66	35-114	
Phenol-d6	0.011	0.050	22	10-94	
Terphenyl-D14	0.035	0.050	70	33-141	
2,4,6-Tribromophenol	0.041	0.050	82	10-123	

** 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 Orders : 319271, **Project ID:** 2006-142

Lab Batch #: 742468 **Sample:** 520591-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.038	0.050	76	43-116	
2-Fluorophenol	0.026	0.050	52	21-100	
Nitrobenzene-d5	0.034	0.050	68	35-114	
Phenol-d6	0.019	0.050	38	10-94	
Terphenyl-D14	0.038	0.050	76	33-141	
2,4,6-Tribromophenol	0.041	0.050	82	10-123	

Lab Batch #: 742468 **Sample:** 520591-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.036	0.050	72	43-116	
2-Fluorophenol	0.027	0.050	54	21-100	
Nitrobenzene-d5	0.032	0.050	64	35-114	
Phenol-d6	0.021	0.050	42	10-94	
Terphenyl-D14	0.040	0.050	80	33-141	
2,4,6-Tribromophenol	0.043	0.050	86	10-123	

Lab Batch #: 742468 **Sample:** 520591-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L

SVOA PAHs List by EPA 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.039	0.050	78	43-116	
2-Fluorophenol	0.028	0.050	56	21-100	
Nitrobenzene-d5	0.035	0.050	70	35-114	
Phenol-d6	0.020	0.050	40	10-94	
Terphenyl-D14	0.039	0.050	78	33-141	
2,4,6-Tribromophenol	0.042	0.050	84	10-123	

** 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 #: 319271 **Project ID:** 2006-142

Analyst: BHW **Date Prepared:** 12/04/2008 **Date Analyzed:** 12/05/2008

Lab Batch ID: 742525 **Sample:** 520624-1-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	0.1003	100	0.1	0.1030	103	3	70-125	25	
Toluene	ND	0.1000	0.0928	93	0.1	0.0953	95	3	70-125	25	
Ethylbenzene	ND	0.1000	0.0994	99	0.1	0.1027	103	3	71-129	25	
m,p-Xylenes	ND	0.2000	0.1998	100	0.2	0.2061	103	3	70-131	25	
o-Xylene	ND	0.1000	0.0951	95	0.1	0.0978	98	3	71-133	25	

Analyst: ASA **Date Prepared:** 12/05/2008 **Date Analyzed:** 12/06/2008

Lab Batch ID: 742793 **Sample:** 8406040-1-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	0.1089	109	0.1	0.1100	110	1	70-125	25	
Toluene	ND	0.1000	0.0995	100	0.1	0.1002	100	1	70-125	25	
Ethylbenzene	ND	0.1000	0.1041	104	0.1	0.1055	106	1	71-129	25	
m,p-Xylenes	ND	0.2000	0.2083	104	0.2	0.2109	105	1	70-131	25	
o-Xylene	ND	0.1000	0.0991	99	0.1	0.1006	101	2	71-133	25	

Relative Percent Difference RPD = 200*|(C-F)/(C+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

BS / BSD Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 319271 **Project ID:** 2006-142

Analyst: KAN **Date Prepared:** 12/04/2008 **Date Analyzed:** 12/04/2008

Lab Batch ID: 742468 **Sample:** 520591-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C 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
Acenaphthene	ND	0.050	0.046	92	0.05	0.048	96	4	54-114	25	
Acenaphthylene	ND	0.050	0.046	92	0.05	0.048	96	4	53-113	25	
Anthracene	ND	0.050	0.048	96	0.05	0.050	100	4	56-116	25	
Benzo(a)anthracene	ND	0.050	0.047	94	0.05	0.049	98	4	59-116	25	
Benzo(a)pyrene	ND	0.050	0.050	100	0.05	0.052	104	4	58-118	25	
Benzo(b)fluoranthene	ND	0.050	0.049	98	0.05	0.052	104	6	54-123	25	
Benzo(k)fluoranthene	ND	0.050	0.050	100	0.05	0.052	104	4	52-122	25	
Benzo(g,h,i)perylene	ND	0.050	0.050	100	0.05	0.052	104	4	47-129	25	
Chrysene	ND	0.050	0.047	94	0.05	0.049	98	4	58-116	25	
Dibenz(a,h)Anthracene	ND	0.050	0.050	100	0.05	0.051	102	2	46-131	25	
Fluoranthene	ND	0.050	0.049	98	0.05	0.051	102	4	55-120	25	
Fluorene	ND	0.050	0.049	98	0.05	0.050	100	2	56-114	25	
Indeno(1,2,3-c,d)Pyrene	ND	0.050	0.051	102	0.05	0.053	106	4	44-132	25	
1-Methylnaphthalene	ND	0.050	0.046	92	0.05	0.048	96	4	47-113	25	
2-Methylnaphthalene	ND	0.050	0.051	102	0.05	0.054	108	6	57-106	25	H
Naphthalene	ND	0.050	0.045	90	0.05	0.048	96	6	53-110	25	
Phenanthrene	ND	0.050	0.048	96	0.05	0.050	100	4	56-116	25	
Pyrene	ND	0.050	0.048	96	0.05	0.050	100	4	57-119	25	

Relative Percent Difference RPD = 200*|(C-F)/(C+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 # : 319271 **Project ID:** 2006-142

Lab Batch ID: 742525 **QC- Sample ID:** 319271-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/05/2008 **Date Prepared:** 12/04/2008 **Analyst:** BHW

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	0.1021	102	0.1000	0.1026	103	1	70-125	25	
Toluene	ND	0.1000	0.0927	93	0.1000	0.0960	96	3	70-125	25	
Ethylbenzene	ND	0.1000	0.0972	97	0.1000	0.1059	106	9	71-129	25	
m,p-Xylenes	ND	0.2000	0.1954	98	0.2000	0.2025	101	3	70-131	25	
o-Xylene	ND	0.1000	0.0945	95	0.1000	0.0987	99	4	71-133	25	

Lab Batch ID: 742793 **QC- Sample ID:** 319397-002 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/06/2008 **Date Prepared:** 12/05/2008 **Analyst:** ASA

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	0.0733	0.1000	0.1467	73	0.1000	0.1500	77	5	70-125	25	
Toluene	ND	0.1000	0.0643	64	0.1000	0.0655	66	3	70-125	25	X
Ethylbenzene	0.0014	0.1000	0.0636	62	0.1000	0.0653	64	3	71-129	25	X
m,p-Xylenes	ND	0.2000	0.1267	63	0.2000	0.1308	65	3	70-131	25	X
o-Xylene	ND	0.1000	0.0596	60	0.1000	0.0617	62	3	71-133	25	X

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

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: Curt Stanley PAGE 01 OF 01

Company Name: Basin Environmental Service Technologies, LLC

Company Address: P. O. Box 301

City/State/Zip: Lovington, NM 88260

Telephone No: (505) 441-2244 Fax No: (505) 396-1429

Sampler Signature: [signature] e-mail: cstanley@basinenv.com

Project Name: Lovington Gathering WTI

Project #: 2006-142

Project Loc: Lea County, NM

PO #: PAA - D.M. Bryant

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 319271

Analyze For: TCLP: / TOTAL: X

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers 1 Liter amber, 2 VOA's	Ice	HNO_3	HCl	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	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	RCI	N.O.R.M.	PAH 8270			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW-5			12/2/2008	835		3	X		X						GW									X			X				X
02	MW-4			12/2/2008	855		3	X		X						GW									X			X				X
03	MW-6			12/2/2008	925		3	X		X						GW									X			X				X
04	MW-9			12/2/2008	945		3	X		X						GW									X			X				X
05	MW-1			12/2/2008	1010		3	X		X						GW									X			X				X
06	MW-3			12/2/2008	1030		3	X		X						GW									X			X				X
07	MW-2			12/2/2008	1240		3	X		X						GW									X			X				X
08	MW-8			12/2/2008	1300		3	X		X						GW									X			X				X
09	MW-7			12/2/2008	1315		3	X		X						GW									X			X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	12/3/08	917			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: [signature]	12/03/08	9:17

Laboratory Comments: VOA 41 g.a. per 5x5

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: 2.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Basin Env. / Plains

Date/ Time: 12/03/05 9:17

Lab ID # : 319271

Initials: ALLH

Sample Receipt Checklist

	Yes	No		Client Initials
#1 Temperature of container/ cooler?	(Yes)	No	2.C °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
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company Plains Pipeline	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.*

Received Hobbs OCD

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:505-441-0965

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: Expiration Date:

Conditions of Approval: Attached ☐

application - pPAC0611639267

facility - fPAC0611638437
incident - nPAC0611638542