1R - 2136

Annual GW Mon. REPORTS

DATE:

2010

PLAINS
ALL AMERICAN

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2011 APR -1 A 12:52

March 30, 2011

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

Re: Plains All American – 2010 Annual Monitoring Reports
4 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	Section 06, T17S, R37E, Lea County
Red Byrd #1	1R-0085	Section 01, T20S, R36E, Lea County
DCP Plant to Lea Sta. 6" #2	1R-2136	Section 31, T20S, R37E, Lea County
DCP Plant to Lea Sta. 6" Sec.31	1R-2166	Section 31, T20S, R37E, Lea County
Ballard Grayburg 5-Inch	2R-0053	Section 10, T18S, R29E, Eddy County

Basin Environmental Service Technologies, 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: Geoff Leking, NMOCD, Hobbs, NM
Enclosures

Basin Environmental Service Technologies, LLC

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
bjarguijo@basinenv.com
Office: (575) 396-2378 Fax: (575) 396-1429

Effective Solutions

2010
ANNUAL MONITORING REPORT

PLAINS MARKETING, L.P.
DCP Plant to Lea Station 6-Inch #2
Unit Letter "F" (SENW), Section 31, Township 20 South, Range 37 East
Latitude 32.5316667° North, Longitude 103.2911111° West
Lea County, New Mexico
Plains SRS # 2009-039
NMOCD Reference # 1RP-2136

Prepared For:

PLAINS

Plains Marketing, LP
333 Clay Street, Suite 1600
Houston, Texas 77002

Prepared By:

Basin Environmental Service Technologies, LLC
P. O. Box 301
Lovington, New Mexico 88260

March 2011

Ben J. Arguijo
Project Manager

TABLE OF CONTENTS

INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Plains Pipeline, LP (Plains), is pleased to submit this *Annual Monitoring Report* in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1st 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 2010 only. For reference, a "Site Location Map" is provided as Figure 1.

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

SITE DESCRIPTION AND BACKGROUND INFORMATION

The legal description of the release site is Unit Letter "F" (SENW), Section 31, Township 20 South, Range 37 East, in Lea County, New Mexico. The property affected by the release is owned by The State of New Mexico (ROE permit #1777) and is administered by the New Mexico State Land Office (NMSLO). The geographic coordinates of the release site are 32.5316667° North latitude and 103.2911111° West longitude.

On February 12, 2009, Plains discovered a crude oil release from a six (6)-inch steel pipeline. During initial response activities, Plains installed a temporary clamp on the pipeline to mitigate the release. Approximately twenty-five (25) barrels of crude oil was released from the Plains pipeline, resulting in a surface stain measuring approximately ten (10) feet in width and twelve (12) feet in length. Plains notified the NMOCD Hobbs District Office of the release, and a "Release Notification and Corrective Action" (Form C-141) was submitted. The cause of the release was attributed to external corrosion of the pipeline.

On February 17, 2009, following initial response activities, excavation of hydrocarbon-impacted soil began at the site. Excavated soil was stockpiled on-site on a plastic liner to mitigate the potential leaching of contaminants into the vadose zone. Approximately 2,700 cubic yards (cy) of soil was stockpiled on-site during excavation activities. The final dimensions of the excavation were approximately sixty-six (66) feet in width, approximately eighty (80) feet in length, and approximately fifteen (15) feet in depth. Upon completion of the excavation activities, confirmation soil samples were collected from the excavation and stockpiles. Review of laboratory analytical results indicated soil samples collected from the excavation and stockpiles were less than NMOCD regulatory standards.

On April 15, 2009, a soil boring (SB-1) was advanced at the release site to evaluate the vertical extent of soil impact. During the advancement of the soil boring, groundwater was encountered at approximately sixty-one (61) feet drilling depth, or approximately seventy-six (76) feet below ground surface (bgs). A temporary casing was installed in the soil boring to allow a groundwater

sample to be collected for analysis. During the collection of the groundwater sample, a measurable thickness of PSH was observed on the groundwater. Plains immediately notified NMOCD representatives in the Hobbs District Office and the NMOCD Environmental Bureau (Santa Fe) of the impact to groundwater at the release site. On April 16, 2009, soil boring SB-1 was converted to a four (4) inch monitor well (MW-1).

On June 29, 2009, three (3) additional monitoring wells (MW-2, MW-3, and MW-4) were installed to evaluate the status of the groundwater at the site. Monitor well MW-2 is located approximately seventy-five (75) feet to the northwest (up-gradient) of the release point. The monitor well was installed to a total depth of approximately ninety (90) feet bgs. Monitor well MW-3 is located approximately seventy-five (75) feet to the southwest (cross-gradient) of the release point. The monitor well was installed to a total depth of approximately ninety (90) feet bgs. Monitor well MW-4 is located approximately seventy-five (75) feet to the southeast (down-gradient) of the release point. The monitor well was installed to a total depth of approximately eighty-eight (88) feet bgs. PSH was not observed in monitor wells MW-2, MW-3, or MW-4.

On August 25, 2009, a twenty (20) mil polyurethane liner was installed in the excavation. Monitor well (MW-1), located within the excavation, was extended to the top of the excavation using a four (4)-inch diameter PVC riser. The riser was fitted with a forty (40) mil boot, which was chemically welded to the twenty (20) mil liner to ensure impermeability of the liner. The liner was cushioned by a six (6)-inch layer of sand above and below the liner to protect the liner from damage during backfilling. The excavation was backfilled with the stockpiled soil and compacted in twelve (12)-inch lifts. The disturbed areas were contoured to fit the surrounding topography and seeded with an NMSLO-approved seeding mixture. Supplemental seeding occurred on October 12, 2010.

Currently, a total of five (5) monitor wells are located at the DCP Plant to Lea Station 6-Inch #2 release site. Monitor wells MW-2, MW-3, and MW-4 are gauged and sampled on a quarterly schedule, while MW-1 is gauged weekly but not sampled due to the presence of PSH. Monitor well MW-5 was installed during the first quarter of 2011, and details of the drilling and subsequent sampling events will be provided in the 2011 *Annual Monitoring Report.*

FIELD ACTIVITIES

Product Recovery Efforts

A measurable thickness of PSH was detected in monitor well MW-1 during the initial site investigation. Basin began manual, bi-weekly gauging and recovery of PSH from MW-1 in April 2009. Approximately 1,628 gallons (38.8 barrels) of PSH has been recovered from MW-1 since recovery operations began in 2009, and approximately 1,073 gallons (25.5 barrels) of PSH was recovered from MW-1 during the 2010 reporting period. The average PSH thickness measured in MW-1 during the reporting period was 4.48 feet, and the maximum PSH thickness was 4.99 feet on March 24, 2010. All recovered fluids are disposed of at an NMOCD- approved disposal facility near Monument, New Mexico.

Groundwater Monitoring

The on-site monitor wells were gauged and sampled on March 11 (1Q2010), May 27 (2Q2010), August 26 (3Q2010), and October 29, 2010 (4Q2010). During these quarterly 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 of at an NMOCD-approved disposal facility near Monument, New Mexico.

Locations of the groundwater monitoring wells and the inferred groundwater elevations, which were constructed from the measurements collected during the 2010 quarterly sampling events, are depicted in Figures 2A through 2D. The "Groundwater Gradient Map" from the most recent sampling event (Figure 2D, October 29, 2010) indicates a general gradient of approximately 0.0019 feet/foot to the southeast as measured between groundwater monitor wells MW-2 and MW-4.

On October 29, 2010, the corrected groundwater elevation ranged between 3,459.40 and 3,460.02 feet above mean sea level in monitor wells MW-4 and MW-2, respectively. The "2010 Groundwater Elevation Data" is provided as Table 1.

LABORATORY RESULTS

Groundwater samples collected from the monitor wells during the quarterly sampling events (1Q2010, 2Q2010, 3Q2010, and 4Q2010) were delivered to Xenco Laboratories in Odessa, Texas, for determination of benzene, toluene, ethylbenzene, and total xylenes (BTEX) constituent concentrations by EPA Method SW846-8021b. A summary of benzene and BTEX constituent concentrations is presented in Table 2, "2010 Concentrations of Benzene & BTEX in Groundwater". Laboratory analytical reports are provided as Appendix A. "Groundwater Concentration & Inferred PSH Extent" maps are provided as Figures 3A through 3D.

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 (NMAC).

Monitor well MW-1

Monitor well MW-1 was not sampled during the 2010 reporting period due to the presence of PSH in the monitor well.

Monitor well MW-2

Laboratory analytical results indicated benzene concentrations ranged from 0.0012 mg/L in 4Q2010 to 0.0022 mg/L in 3Q2010. Toluene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory method detection limit (MDL) during all four quarters of the

reporting period. Benzene and BTEX constituent concentrations were less than NMOCD regulatory standards during all four quarters of the reporting period.

Monitor well MW-3

Laboratory analytical results indicated benzene concentrations ranged from 0.0026 mg/L in 3Q2010 to 0.0263 mg/L in 4Q2010. Toluene concentrations ranged from 0.0021 mg/L in 3Q2010 to 0.0107 mg/L in 4Q2010. Ethylbenzene concentrations ranged from less than the laboratory MDL in 1Q2010, 2Q2010, and 4Q2010 to 0.0012 mg/L in 3Q2010. Total xylene concentrations ranged from ranged from less than the laboratory MDL in 1Q2010, 2Q2010, and 4Q2010 to 0.0033 mg/L in 3Q2010. Benzene concentrations exceeded NMOCD regulatory standards in 2Q2010 and 4Q2010. Toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards during all four quarters of the reporting period.

Monitor well MW-4

Laboratory analytical results indicated benzene concentrations ranged from 0.0017 mg/L in 3Q2010 to 0.0525 mg/L in 4Q2010. Toluene concentrations ranged from less than the laboratory MDL in 3Q2010 to 0.0189 mg/L in 4Q2010. Ethylbenzene and total xylene concentrations were less than the appropriate laboratory MDL during all four quarters of the reporting period. Benzene concentrations exceeded NMOCD regulatory standards in 4Q2010. Toluene, ethylbenzene, and total total xylene concentrations were less than NMOCD regulatory standards during all four quarters of the reporting period.

SUMMARY

This report presents the results of the monitoring activities for the 2010 annual monitoring period. Currently, there are five (5) groundwater monitor wells (MW-1, MW-2, MW-3, MW-4, and MW-5) on-site. Monitor well MW-1 was not sampled in 2010 due to the presence of PSH in the monitor well. Monitor wells MW-2, MW-3, and MW-4 were sampled during all four quarters of the monitoring period, and the results of these sampling events are summarized above. Monitor well MW-5 was installed during the first quarter of 2011, and details of the drilling and subsequent sampling events will be provided in the 2011 *Annual Monitoring Report.*

The "Groundwater Gradient Map" from the most recent sampling event (Figure 2D, October 29, 2010) indicates a general gradient of approximately 0.0019 feet/foot to the southeast as measured between groundwater monitor wells MW-2 and MW-4.

A measurable thickness of PSH was detected in monitor well MW-1 throughout the 2010 reporting period. The average PSH thickness measured in MW-1 during the reporting period was 4.48 feet, and the maximum PSH thickness was 4.99 feet on March 24, 2010.

During the reporting period, approximately 1,073 gallons (25.5 barrels) of PSH was recovered, by manual recovery, from monitor well MW-1.

Review of laboratory analytical results generated from analysis of groundwater samples collected in 2010 indicated benzene concentrations were less than the NMOCD regulatory standard for monitor well MW-1. However, benzene concentrations above NMOCD standards were detected in the groundwater samples from MW-3 (2Q2010 and 4Q2010) and MW-4 (4Q2010).

ANTICIPATED ACTIONS

PSH recovery from monitor well MW-1 will continue on a bi-weekly schedule. All fluids recovered from MW-1 will be disposed of at an NMOCD-permitted disposal facility. Monitor wells MW-2, MW-3, MW-4, and MW-5 will be monitored and sampled quarterly. Based on the groundwater sampling results for down-gradient monitor wells MW-3 and MW-4 during 2001, Plains will evaluate the need for an additional down-gradient monitor well. Results from the 2011 sampling events will be reported in the 2011 *Annual Monitoring Report*, which will be submitted to the NMOCD by April 1, 2012.

LIMITATIONS

Basin Environmental Service Technologies, LLC, 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 on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein 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 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 Marketing, LP. 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 Environmental Service Technologies, LLC, and/or Plains Marketing, LP.

DISTRIBUTION

Copy 1: Edward Hansen
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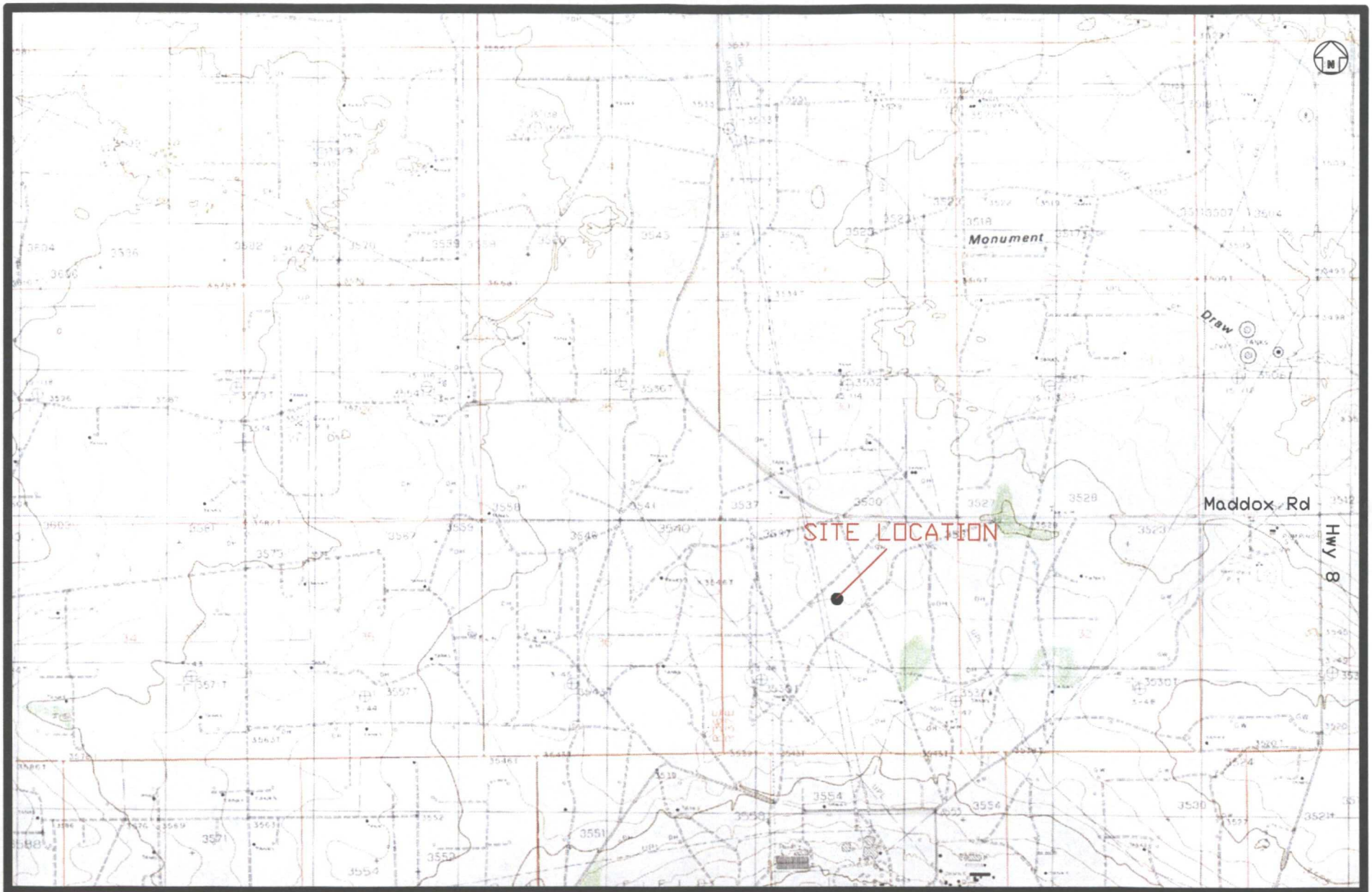
bjarguijo@basinenv.com

Copy Number:_____

Figures



3000 1500 0 1500 3000

Distance in Feet

Figure 1
Site Location Map
Plains Pipeline, L.P.
DCP Plant to Lea Station 6-Inch #2
Lea County, New Mexico
SRS 2009-039
1RP-2136

Basin Environmental Services

Prep By: CDS	Checked By: CDS
March 16, 2009	Scale 1"=3000'

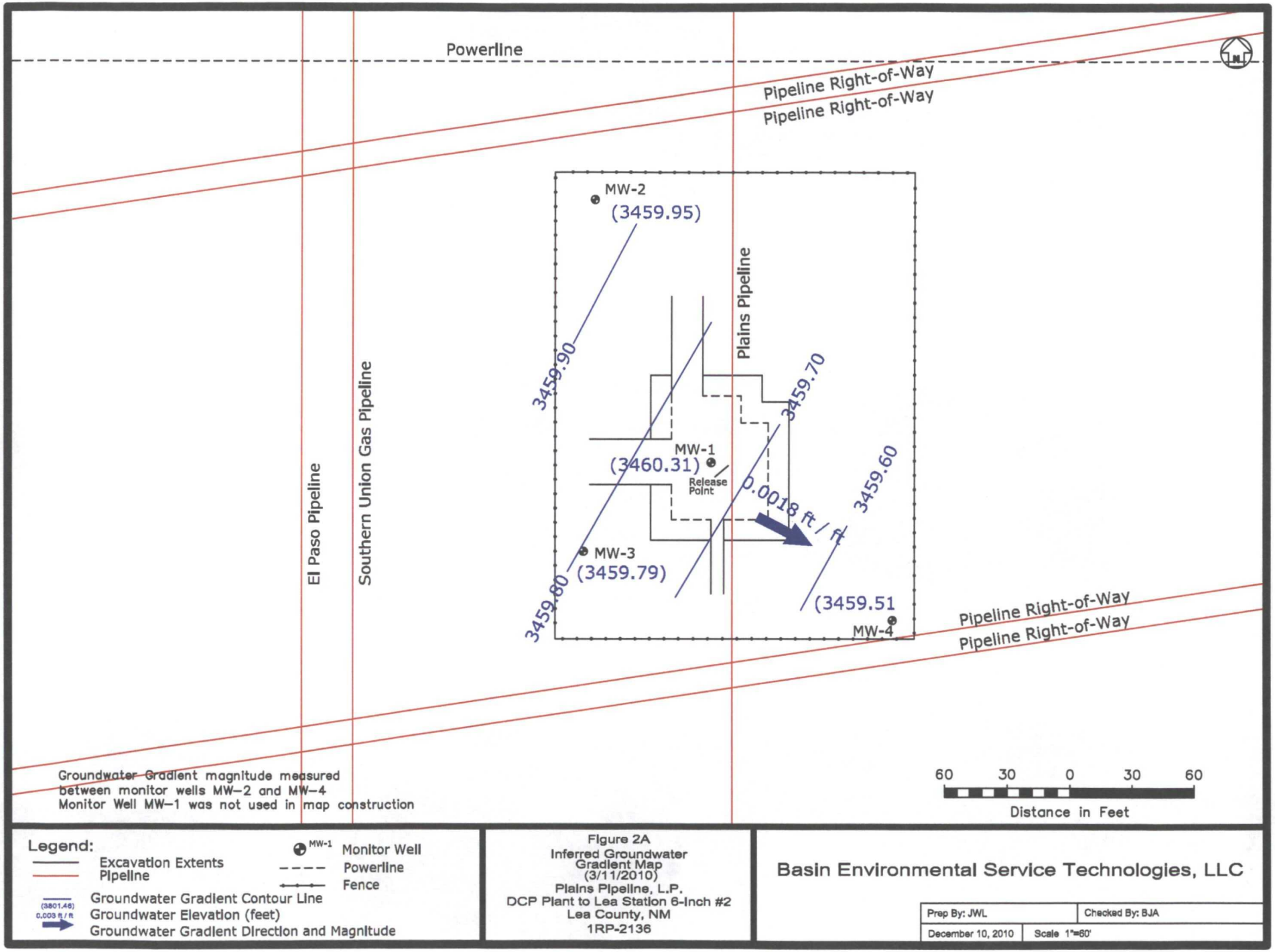
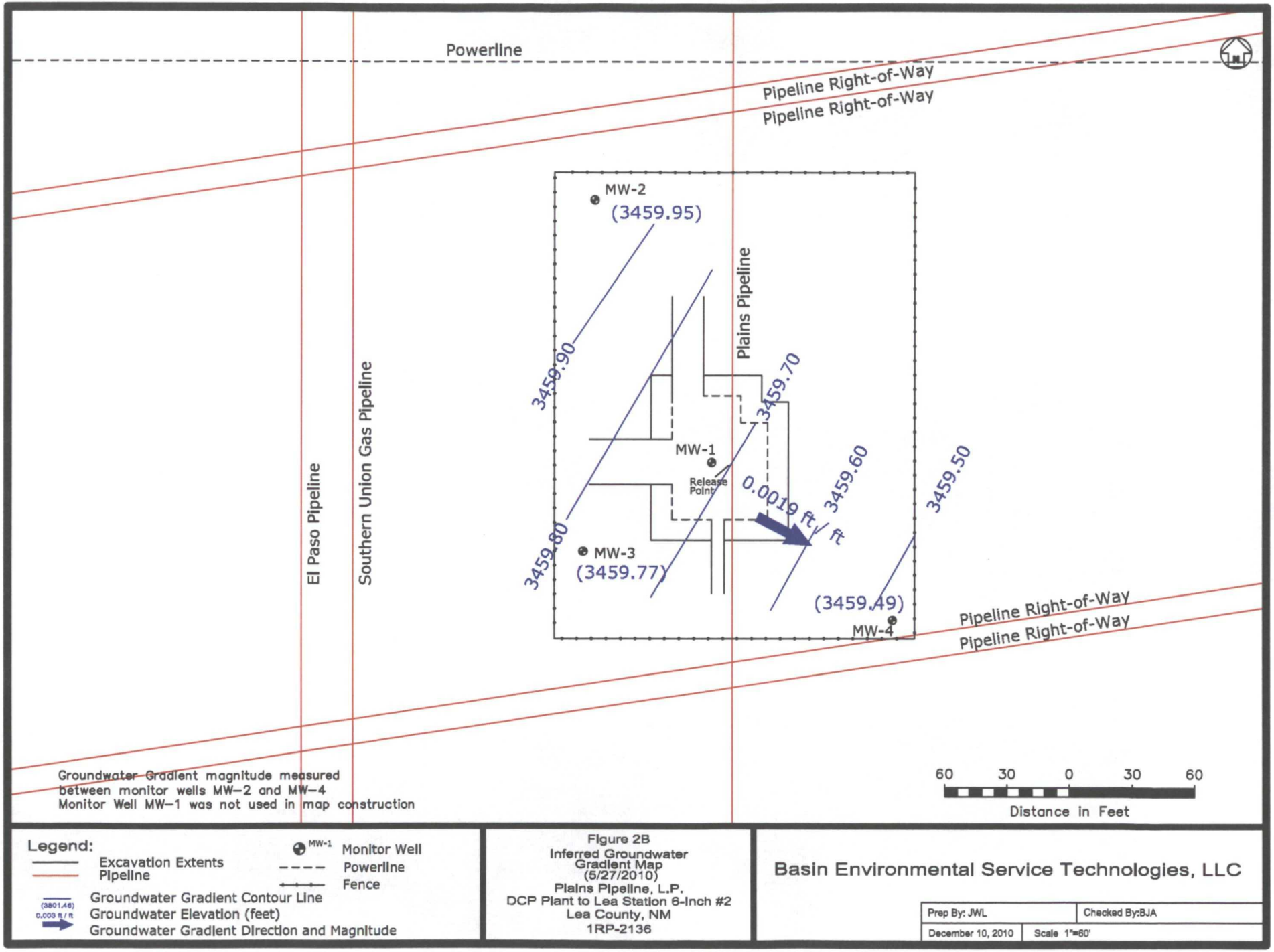


Figure 2A
Inferred Groundwater Gradient Map
(3/11/2010)
Plains Pipeline, L.P.
DCP Plant to Lea Station 6-Inch #2
Lea County, NM
1RP-2136

Basin Environmental Service Technologies, LLC

Prep By: JWL	Checked By: BJA
December 10, 2010	Scale 1"=60'


Powerline
Pipeline Right-of-Way
Pipeline Right-of-Way
MW-2
(3459.95)
Plains Pipeline
3459.90
3459.70
MW-1
Release Point
0.0019 ft / ft
3459.60
3459.50
3459.80
MW-3
(3459.77)
(3459.49)
MW-4
El Paso Pipeline
Southern Union Gas Pipeline
Pipeline Right-of-Way
Pipeline Right-of-Way
Groundwater Gradient magnitude measured between monitor wells MW-2 and MW-4
Monitor Well MW-1 was not used in map construction
60 30 0 30 60
Distance in Feet
Legend:
MW-1 Monitor Well
Excavation Extents
Pipeline
Powerline
Fence
(3801.46) 0.003 ft / ft
Groundwater Gradient Contour Line
Groundwater Elevation (feet)
Groundwater Gradient Direction and Magnitude
Figure 2B
Inferred Groundwater Gradient Map
(5/27/2010)
Plains Pipeline, L.P.
DCP Plant to Lea Station 6-Inch #2
Lea County, NM
1RP-2136
Basin Environmental Service Technologies, LLC
Prep By: JWL
Checked By:BJA
December 10, 2010
Scale 1"=60'

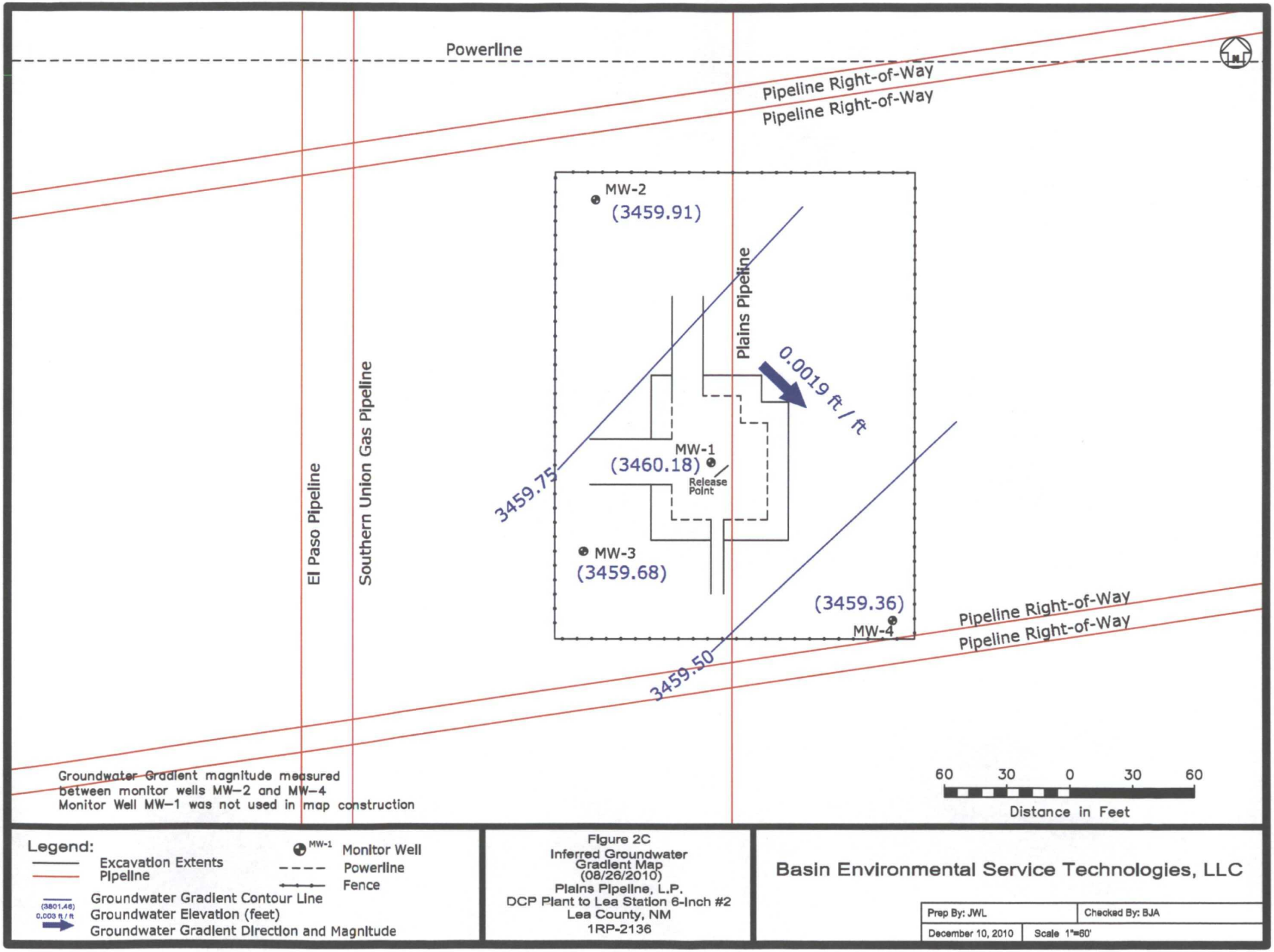


Figure 2C
Inferred Groundwater Gradient Map
(08/26/2010)
Plains Pipeline, L.P.
DCP Plant to Lea Station 6-Inch #2
Lea County, NM
1RP-2136

Basin Environmental Service Technologies, LLC

Prep By: JWL	Checked By: BJA
December 10, 2010	Scale 1"=60'

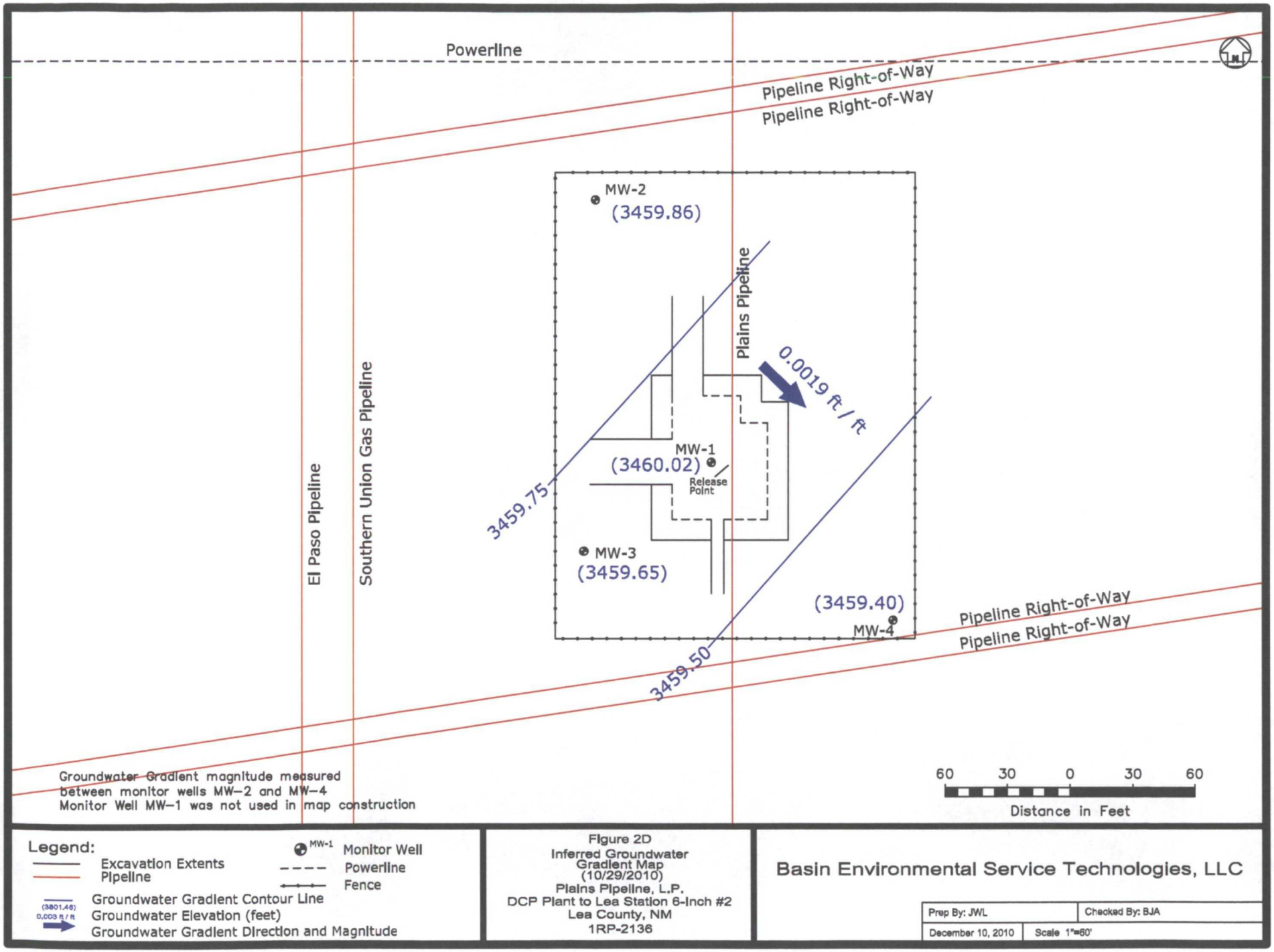
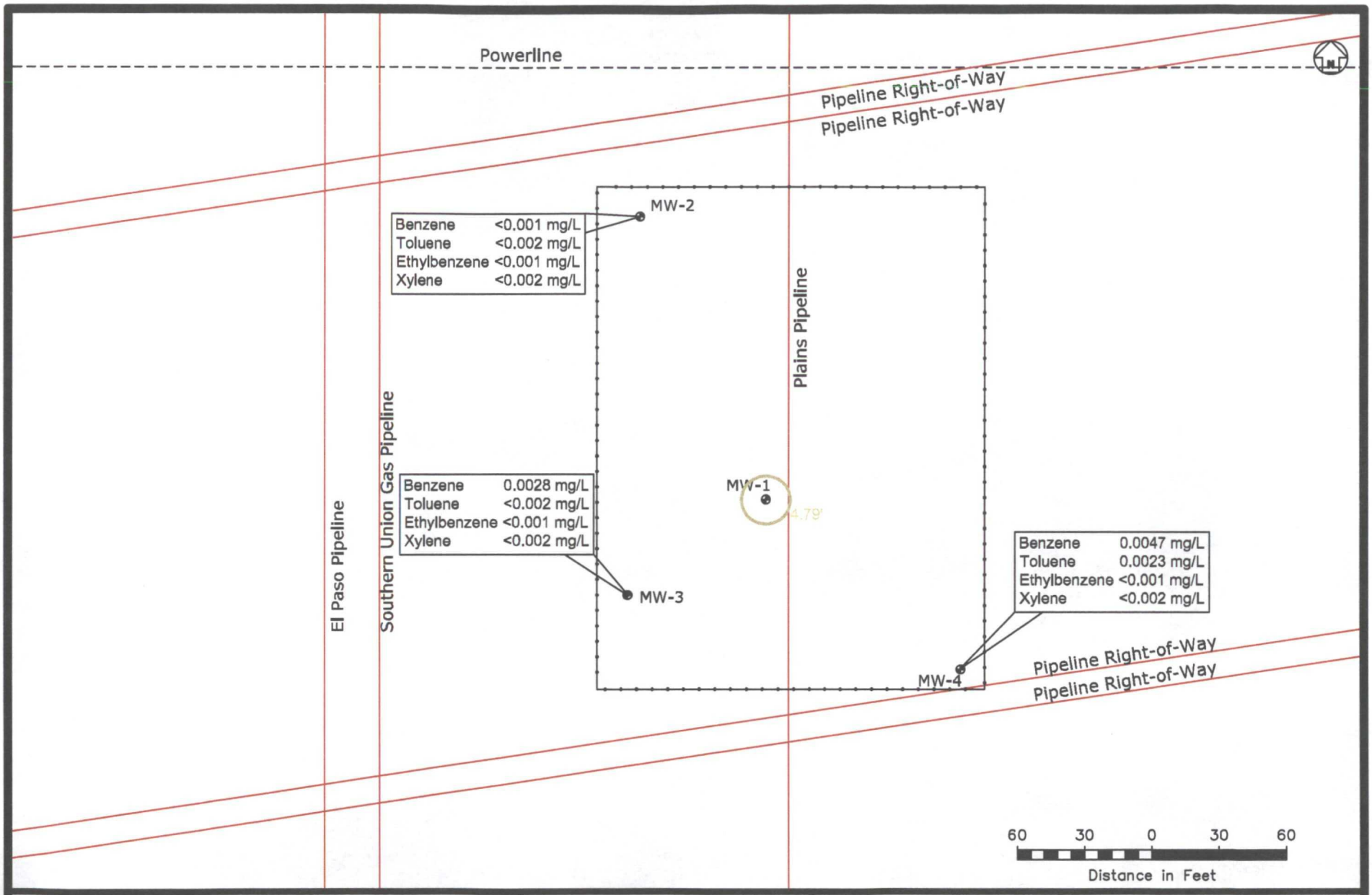


Figure 2D
Inferred Groundwater Gradient Map
(10/29/2010)
Plains Pipeline, L.P.
DCP Plant to Lea Station 6-Inch #2
Lea County, NM
1RP-2136

Basin Environmental Service Technologies, LLC

Prep By: JWL	Checked By: BJA
December 10, 2010	Scale 1"=60'



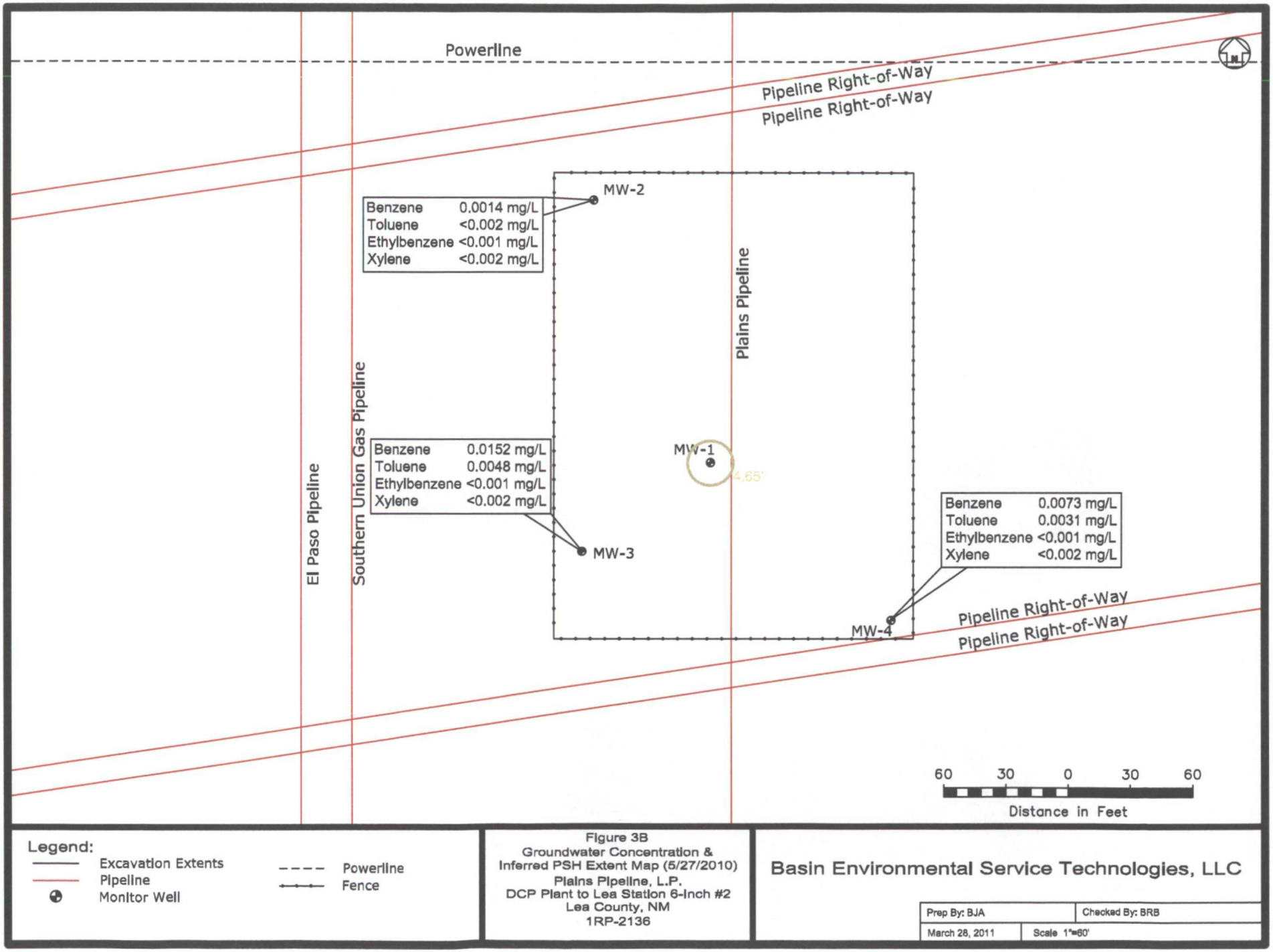
Legend:

- Excavation Extents
- Pipeline
- Monitor Well
- Powerline
- Fence

Figure 3A
Groundwater Concentration &
Inferred PSH Extent Map (3/11/2010)
Plains Pipeline, L.P.
DCP Plant to Lea Station 6-Inch #2
Lea County, NM
1RP-2136

Basin Environmental Service Technologies, LLC

Prep By: BJA	Checked By: BRB
March 28, 2011	Scale 1"=60'



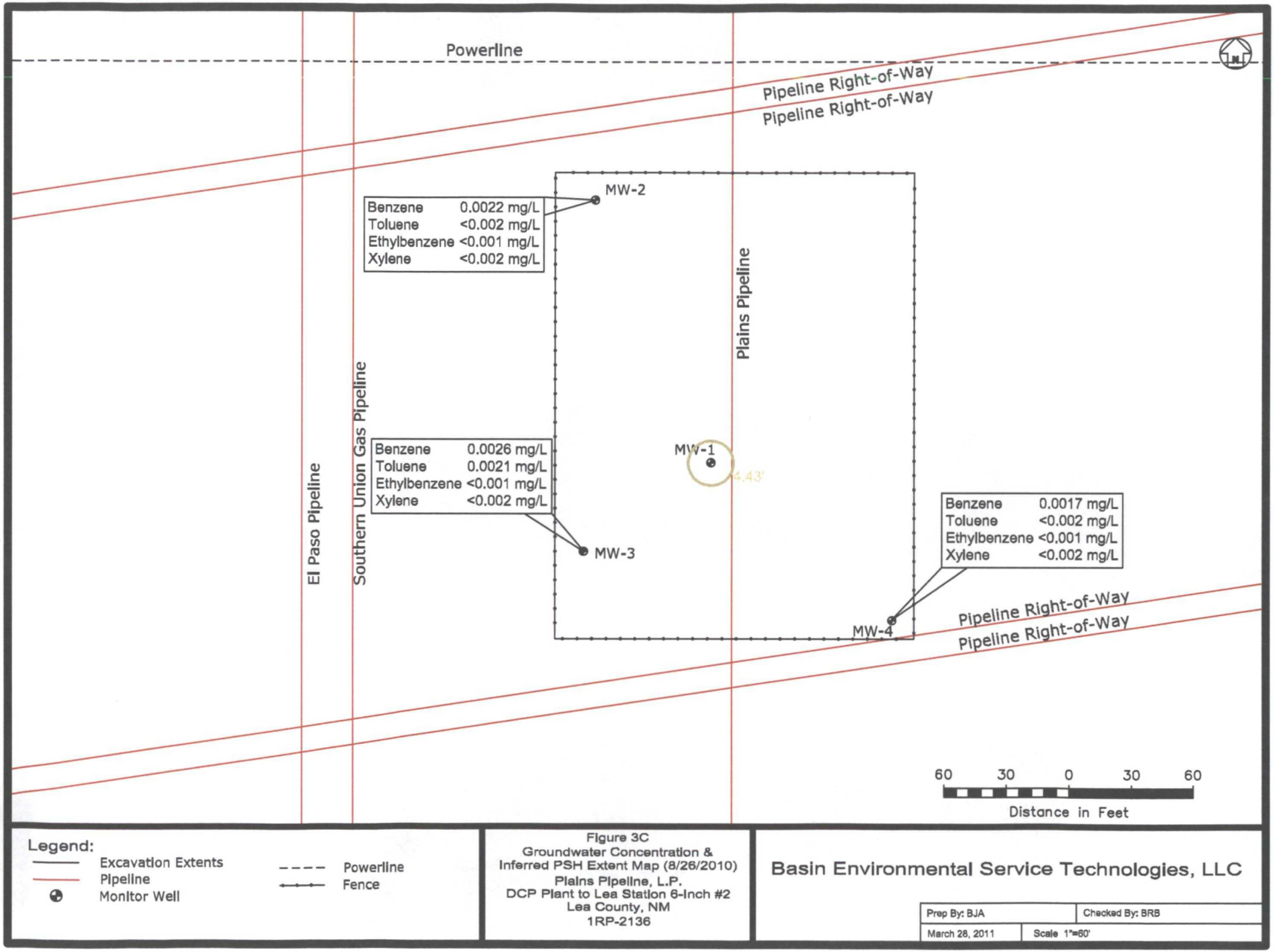
Legend:

- Excavation Extents
- Pipeline
- Monitor Well
- Powerline
- Fence

Figure 3B
Groundwater Concentration &
Inferred PSH Extent Map (5/27/2010)
Plains Pipeline, L.P.
DCP Plant to Lea Station 6-Inch #2
Lea County, NM
1RP-2136

Basin Environmental Service Technologies, LLC

Prep By: BJA	Checked By: BRB
March 28, 2011	Scale 1"=60'



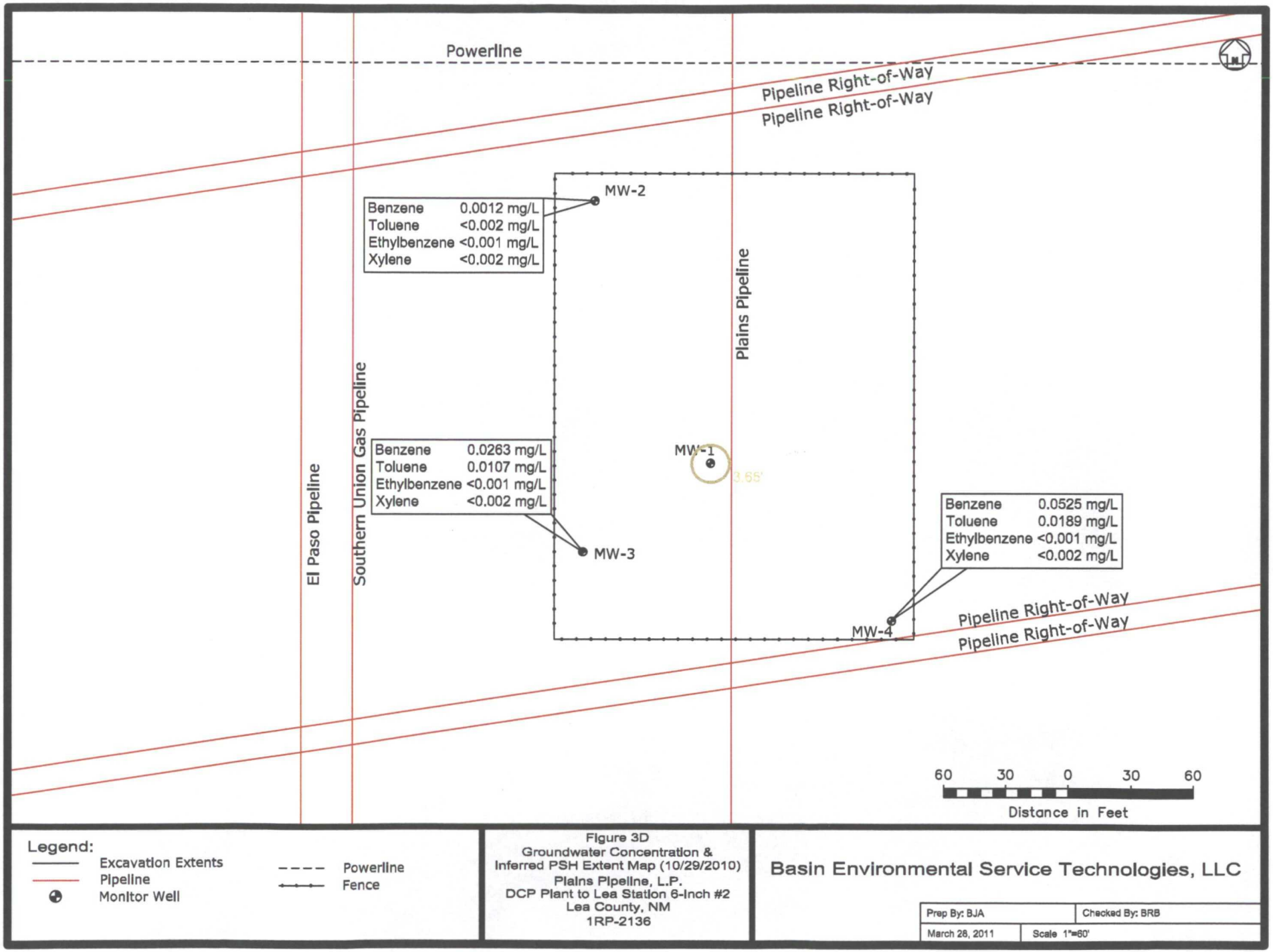
Legend:

- Excavation Extents
- Pipeline
- Monitor Well
- Powerline
- Fence

Figure 3C
Groundwater Concentration & Inferred PSH Extent Map (8/26/2010)
Plains Pipeline, L.P.
DCP Plant to Lea Station 6-Inch #2
Lea County, NM
1RP-2136

Basin Environmental Service Technologies, LLC

Prep By: BJA	Checked By: BRB
March 28, 2011	Scale 1"=60'



Legend:

- Excavation Extents
- Pipeline
- Monitor Well
- Powerline
- Fence

Figure 3D
Groundwater Concentration &
Inferred PSH Extent Map (10/29/2010)
Plains Pipeline, L.P.
DCP Plant to Lea Station 6-Inch #2
Lea County, NM
1RP-2136

Basin Environmental Service Technologies, LLC

Prep By: BJA	Checked By: BRB
March 28, 2011	Scale 1"=60'

Tables

TABLE 1

2010 GROUNDWATER ELEVATION DATA

PLAINS PIPELINE, L.P.
DCP PLANT TO LEA STATION 6-INCH #2
LEA COUNTY, NEW MEXICO
PLAINS SRS NO: 2009-039
NMOCD REF NO: 1RP-2136

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-1	03/11/10	3,540.25	79.28	84.07	4.79	3,460.25
MW-1	05/27/10	3,540.25	79.23	83.88	4.65	3,460.32
MW-1	08/26/10	3,540.25	79.42	83.84	4.43	3,460.18
MW-1	10/29/10	3,540.25	79.68	83.33	3.65	3,460.02
MW-2	03/11/10	3,538.31	-	78.36	0.00	3,459.95
MW-2	05/27/10	3,538.31	-	78.36	0.00	3,459.95
MW-2	08/26/10	3,538.31	-	78.40	0.00	3,459.91
MW-2	10/29/10	3,538.31	-	78.45	0.00	3,459.86
MW-3	03/11/10	3,539.03	-	79.24	0.00	3,459.79
MW-3	05/27/10	3,539.03	-	79.26	0.00	3,459.77
MW-3	08/26/10	3,539.03	-	79.35	0.00	3,459.68
MW-3	10/29/10	3,539.03	-	79.38	0.00	3,459.65
MW-4	03/11/10	3,539.66	-	80.15	0.00	3,459.51
MW-4	05/27/10	3,539.66	-	80.17	0.00	3,459.49
MW-4	08/26/10	3,539.66	-	80.30	0.00	3,459.36
MW-4	10/29/10	3,539.66	-	80.26	0.00	3,459.40

TABLE 2

CONCENTRATIONS OF BENZENE AND BTEX IN GROUNDWATER

PLAINS PIPELINE, L.P.
DCP PLANT TO LEA STATION 6-INCH #2
LEA COUNTY, NEW MEXICO
PLAINS SRS NO. 2009-039
NMOCD REFERENCE NO: 1R-2136

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8021b					
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M,P-XYLENES (mg/L)	O-XYLENES (mg/L)	TOTAL BTEX (mg/L)
MW-2	03/11/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020
	05/27/10	0.0014	<0.0020	<0.0010	<0.0020	<0.0010	0.0014
	08/26/10	0.0022	<0.0020	<0.0010	<0.0020	<0.0010	0.0022
	10/29/10	0.0012	<0.0020	<0.0010	<0.0020	<0.0010	0.0012
MW-3	03/11/10	0.0028	<0.0020	<0.0010	<0.0020	<0.0010	0.0028
	05/27/10	**0.0152**	0.0048	<0.0010	<0.0020	<0.0010	0.0200
	08/26/10	0.0026	0.0021	0.0012	0.0023	0.0010	0.0092
	10/29/10	**0.0263**	0.0107	<0.0010	<0.0020	<0.0010	0.0370
MW-4	03/11/10	0.0047	0.0023	<0.0010	<0.0020	<0.0010	0.0070
	05/27/10	0.0073	0.0031	<0.0010	<0.0020	<0.0010	0.0104
	08/26/10	0.0017	<0.0020	<0.0010	<0.0020	<0.0010	0.0017
	10/29/10	**0.0525**	0.0189	<0.0010	<0.0020	<0.0010	0.0714
NMOCD CRITERIA		0.01	0.75	0.75	TOTAL XYLENES 0.62		

Appendices

Appendix A

Laboratory Analytical Reports

Analytical Report 366360

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

DCP Plant to Lea Station 6 Inch # 2

2009-039

24-MAR-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

XENCO Laboratories

24-MAR-10

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

Reference: XENCO Report No: **366360**
DCP Plant to Lea Station 6 Inch # 2
Project Address: Lea County, NM

Jason Henry:

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 366360. 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. 366360 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

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

XENCO Laboratories

Sample Cross Reference 366360

PLAINS ALL AMERICAN EH&S, Midland, TX

DCP Plant to Lea Station 6 Inch # 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-2	W	Mar-11-10 12:00		366360-001
MW-3	W	Mar-11-10 13:00		366360-002
MW-4	W	Mar-11-10 14:00		366360-003

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: DCP Plant to Lea Station 6 Inch # 2

Project ID:	*2009-039*	*Report Date:*	*24-MAR-10*
Work Order Number:	*366360*	*Date Received:*	*03/19/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-799583 BTEX by EPA 8021
None

Certificate of Analysis Summary 366360

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: DCP Plant to Lea Station 6 Inch # 2

Project Id: 2009-039
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Fri Mar-19-10 04:47 pm
Report Date: 24-MAR-10
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	366360-001		366360-002		366360-003					
	Field Id:	MW-2		MW-3		MW-4					
	Depth:										
	Matrix:	WATER		WATER		WATER					
	Sampled:	Mar-11-10 12:00		Mar-11-10 13:00		Mar-11-10 14:00					
BTEX by EPA 8021	***Extracted:***	Mar-23-10 08:00		Mar-23-10 08:00		Mar-23-10 08:00					
	Analyzed:	Mar-23-10 12:18		Mar-23-10 12:41		Mar-23-10 13:04					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL				
Benzene		ND	0.0010	0.0028	0.0010	0.0047	0.0010				
Toluene		ND	0.0020	ND	0.0020	0.0023	0.0020				
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010				
m,p-Xylenes		ND	0.0020	ND	0.0020	ND	0.0020				
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010				
Xylenes, Total		ND	0.0010	ND	0.0010	ND	0.0010				
Total BTEX		ND	0.0010	0.0028	0.0010	0.0070	0.0010				

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

Brent Barron, II
Odessa Laboratory Manager

XENCO Laboratories

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.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: DCP Plant to Lea Station 6 Inch # 2

Work Orders : 366360,

Project ID: 2009-039

Lab Batch #: 799583 **Sample:** 558913-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/23/10 10:04

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 799583 **Sample:** 558913-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/23/10 10:26

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

Lab Batch #: 799583 **Sample:** 558913-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/23/10 11:34

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0240	0.0300	80	80-120	
4-Bromofluorobenzene	0.0308	0.0300	103	80-120	

Lab Batch #: 799583 **Sample:** 366360-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/23/10 12:18

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0319	0.0300	106	80-120	

Lab Batch #: 799583 **Sample:** 366360-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/23/10 12:41

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

* Surrogate outside of Laboratory QC limits

** 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.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: DCP Plant to Lea Station 6 Inch # 2

Work Orders : 366360, **Project ID:** 2009-039

Lab Batch #: 799583 **Sample:** 366360-003 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/23/10 13:04

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0243	0.0300	81	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 799583 **Sample:** 366350-001 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/23/10 20:11

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0268	0.0300	89	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 799583 **Sample:** 366350-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 03/23/10 20:33

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

* Surrogate outside of Laboratory QC limits

** 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: DCP Plant to Lea Station 6 Inch # 2

Work Order #: 366360 **Project ID:** 2009-039

Analyst: ASA **Date Prepared:** 03/23/2010 **Date Analyzed:** 03/23/2010

Lab Batch ID: 799583 **Sample:** 558913-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 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	0.0967	97	0.1	0.0999	100	3	70-125	25	
Toluene	ND	0.1000	0.0966	97	0.1	0.0987	99	2	70-125	25	
Ethylbenzene	ND	0.1000	0.0968	97	0.1	0.1008	101	4	71-129	25	
m,p-Xylenes	ND	0.2000	0.1894	95	0.2	0.1966	98	4	70-131	25	
o-Xylene	ND	0.1000	0.0910	91	0.1	0.0946	95	4	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

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: DCP Plant to Lea Station 6 Inch # 2

Work Order # : 366360 **Project ID:** 2009-039

Lab Batch ID: 799583 **QC- Sample ID:** 366350-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 03/23/2010 **Date Prepared:** 03/23/2010 **Analyst:** ASA

Reporting Units: mg/L

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
BTEX by EPA 8021 **Analytes**	**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	0.0720	0.1000	0.1522	80	0.1000	0.1568	85	3	70-125	25	
Toluene	0.0243	0.1000	0.1053	81	0.1000	0.1072	83	2	70-125	25	
Ethylbenzene	0.0020	0.1000	0.0831	81	0.1000	0.0839	82	1	71-129	25	
m,p-Xylenes	ND	0.2000	0.1560	78	0.2000	0.1564	78	0	70-131	25	
o-Xylene	0.0017	0.1000	0.0771	75	0.1000	0.0771	75	0	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: Camille Bryant PAGE 01 OF 01

Company Name: Basin Environmental Consulting,

Company Address: P.O. Box 381

City/State/Zip: Lovington, NM 88260

Telephone No: (575)605-7210 Fax No: (505) 396-1429

Sampler Signature: A. Hughes for C. Bryant e-mail: cjbryant@basin-consulting.com

Project Name: DCP Plant to Lea Station 6 Inch #2

Project #: 2009-039

Project Loc: Lea County, NM

PO #: PAA- J. Henry

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

(lab use only)

ORDER #: 346340

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/Sod; NP = Non-Potable Specify Oth	Analyze For: TCLP: TPH: 418.1 8015M TX 1005	TOTAL: TPH: 8015B TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW-2			3/11/2010	12:00		3	X		X						GW									X				X
02	MW-3			3/11/2010	1:00		3	X		X						GW									X				X
03	MW-4			3/11/2010	2:00		3	X		X						GW									X				X

Special Instructions:

	Date	Time		Date	Time
Relinquished by: A. Hughes	3/19/10	1647	Received by:		
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Sam	Date 3.19.10	Time 16:47

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. ? by Courier? UPS DHL FedEx Lone Star 4 on ice

Temperature Upon Receipt: 3.6 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Basin Env. / Plains

Date/ Time: 3.19.10 16:47

Lab ID # : 346360

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	3.6 °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 374689

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

DCP Plant to Lea Station 6" # 2

2009-039

03-JUN-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

XENCO Laboratories

03-JUN-10

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

Reference: XENCO Report No: **374689**
DCP Plant to Lea Station 6" # 2
Project Address: Lea County, NM

Jason Henry:

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 374689. 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. 374689 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

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

Sample Cross Reference 374689

PLAINS ALL AMERICAN EH&S, Midland, TX

DCP Plant to Lea Station 6" # 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-2	W	May-27-10 09:00		374689-001
MW-3	W	May-27-10 09:45		374689-002
MW-4	W	May-27-10 10:30		374689-003

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: DCP Plant to Lea Station 6" # 2

Project ID:	*2009-039*	*Report Date:*	*03-JUN-10*
Work Order Number:	*374689*	*Date Received:*	*05/27/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-809036 BTEX by EPA 8021
SW8021BM

Batch 809036, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 374689-001.

Certificate of Analysis Summary 374689

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: DCP Plant to Lea Station 6" # 2

Project Id: 2009-039
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Thu May-27-10 01:40 pm
Report Date: 03-JUN-10
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	374689-001		374689-002		374689-003				
	Field Id:	MW-2		MW-3		MW-4				
	Depth:									
	Matrix:	WATER		WATER		WATER				
	Sampled:	May-27-10 09:00		May-27-10 09:45		May-27-10 10:30				
BTEX by EPA 8021	*Extracted:*	Jun-01-10 14:30		Jun-01-10 14:30		Jun-01-10 14:30				
	Analyzed:	Jun-02-10 08:45		Jun-02-10 09:08		Jun-02-10 10:15				
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL			
Benzene		0.0014	0.0010	0.0152	0.0010	0.0073	0.0010			
Toluene		ND	0.0020	0.0048	0.0020	0.0031	0.0020			
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010			
m,p-Xylenes		ND	0.0020	ND	0.0020	ND	0.0020			
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010			
Xylenes, Total		ND	0.0010	ND	0.0010	ND	0.0010			
Total BTEX		0.0014	0.0010	0.0200	0.0010	0.0104	0.0010			

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

Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1.000

XENCO Laboratories

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.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: DCP Plant to Lea Station 6" # 2

Work Orders : 374689,

Project ID: 2009-039

Lab Batch #: 809036 **Sample:** 564762-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/01/10 15:26

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 809036 **Sample:** 564762-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/01/10 15:48

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	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	0.0313	0.0300	104	80-120	

Lab Batch #: 809036 **Sample:** 564762-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/01/10 16:34

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0245	0.0300	82	80-120	
4-Bromofluorobenzene	0.0326	0.0300	109	80-120	

Lab Batch #: 809036 **Sample:** 374689-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 08:45

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0228	0.0300	76	80-120	*
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 809036 **Sample:** 374689-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 09:08

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0248	0.0300	83	80-120	
4-Bromofluorobenzene	0.0262	0.0300	87	80-120	

* Surrogate outside of Laboratory QC limits

** 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.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: DCP Plant to Lea Station 6" # 2

Work Orders : 374689,

Project ID: 2009-039

Lab Batch #: 809036 **Sample:** 374689-003 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 10:15

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0248	0.0300	83	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

Lab Batch #: 809036 **Sample:** 374248-007 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 14:00

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

Lab Batch #: 809036 **Sample:** 374248-007 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 06/02/10 14:22

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

* Surrogate outside of Laboratory QC limits

** 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: DCP Plant to Lea Station 6" # 2

Work Order #: 374689 **Project ID:** 2009-039

Analyst: ASA **Date Prepared:** 06/01/2010 **Date Analyzed:** 06/01/2010

Lab Batch ID: 809036 **Sample:** 564762-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 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	0.0917	92	0.1	0.0967	97	5	70-125	25	
Toluene	ND	0.1000	0.0906	91	0.1	0.0950	95	5	70-125	25	
Ethylbenzene	ND	0.1000	0.0938	94	0.1	0.0970	97	3	71-129	25	
m,p-Xylenes	ND	0.2000	0.1887	94	0.2	0.1943	97	3	70-131	25	
o-Xylene	ND	0.1000	0.0913	91	0.1	0.0952	95	4	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

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: DCP Plant to Lea Station 6" # 2

Work Order # : 374689 **Project ID:** 2009-039

Lab Batch ID: 809036 **QC- Sample ID:** 374248-007 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 06/02/2010 **Date Prepared:** 06/01/2010 **Analyst:** ASA

Reporting Units: mg/L

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
BTEX by EPA 8021 **Analytes**	**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	0.0906	91	0.1000	0.0914	91	1	70-125	25	
Toluene	ND	0.1000	0.0873	87	0.1000	0.0885	89	1	70-125	25	
Ethylbenzene	ND	0.1000	0.0882	88	0.1000	0.0888	89	1	71-129	25	
m,p-Xylenes	ND	0.2000	0.1752	88	0.2000	0.1735	87	1	70-131	25	
o-Xylene	ND	0.1000	0.0864	86	0.1000	0.0862	86	0	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

Xenco Laboratories

The 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: Camille Bryant
Company Name: Basin Environmental ~~Service Technologies~~ Consulting, LLC CBR
Company Address: P.O. Box 301
City/State/Zip: Hobbs, NM 88242
Telephone No: 575-605-7210
Sampler Signature:

Project Name: DCP Plant to Lea Station 6"#2
Project #: 2009-039
Project Loc: Lea County, NM
PO #: PAA-J. Henry
Fax No: 575-396-1429
e-mail: cjbryant@basin-consulting.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 374689

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 40mL VOA	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge; GW=Groundwater S=Soil/Solid; NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 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 8260B CBR	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW 1			5-27-10	9:00		3	X		X						GW								X				X
02	MW 3			5-27-10	9:45		3	X		X						GW								X				X
03	MW 4			5-27-10	10:30		3	X		X						GW								X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	5-27-10	1340			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Sam	Date 5-27-10	Time 13:40

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Custody seals on container(s) Y N
Sample Hand Delivered by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 3.6 °C

XENCO Laboratories	Document Title: Sample Receipt Checklist Document No.: SYS - SRC Revision/Date : No.00 , 05/18/10 Effective Date: 05/20/10 Page No.: 1 of 1

XENCO Laboratories
Atlanta, Corpus Christi, Dallas, Houston, Miami, Midland, Philadelphia, San Antonio, Tampa

Prelogin / Nonconformance Report – Sample Log-In

Client: Basin Env. / Plains

Date/Time: 5-27-10 13:40

Lab ID #: 374689

Initials: AL

Sample Receipt Checklist

1. Sample on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Yes)	No	N/A	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample lable(s)?	(Yes)	No		
9. Container labels legible legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	(N/A)	
17. Voc sample have zero head space?	(Yes)	No	N/A	

18. Cooler 1 No.		Cooler 2 No.		Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
lbs	3.6 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

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

Regarding: _____

_____

Corrective ActionTaken:_____

_____

_____

Check all that apply: ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

☐ Initial and Backup Temperature confirm out of temperature conditions

☐ Client understands and would like to proceed with analysis

Analytical Report 387522

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

DCP Plant to Lea Station 6" #2

2009-039

07-SEP-10

Celebrating 20 Years of commitment to excellence in Environmental Testing Services

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL01273):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):
Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

07-SEP-10

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

Reference: XENCO Report No: **387522**
DCP Plant to Lea Station 6" #2
Project Address: Lea County, NM

Jason Henry:

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 387522. 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. 387522 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

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

XENCO Laboratories

Sample Cross Reference 387522

PLAINS ALL AMERICAN EH&S, Midland, TX

DCP Plant to Lea Station 6" #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-2	W	Aug-26-10 09:00		387522-001
MW-4	W	Aug-26-10 10:00		387522-002
MW-3	W	Aug-26-10 11:00		387522-003

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: DCP Plant to Lea Station 6" #2

Project ID:	*2009-039*	*Report Date:*	*07-SEP-10*
Work Order Number:	*387522*	*Date Received:*	*08/27/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-821762 BTEX by EPA 8021
None

Certificate of Analysis Summary 387522

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: DCP Plant to Lea Station 6" #2

Project Id: 2009-039
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Fri Aug-27-10 02:40 pm
Report Date: 07-SEP-10
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	387522-001		387522-002		387522-003					
	Field Id:	MW-2		MW-4		MW-3					
	Depth:										
	Matrix:	WATER		WATER		WATER					
	Sampled:	Aug-26-10 09:00		Aug-26-10 10:00		Aug-26-10 11:00					
BTEX by EPA 8021	***Extracted:***	Sep-03-10 22:42		Sep-03-10 22:42		Sep-03-10 22:42					
	Analyzed:	Sep-04-10 02:12		Sep-04-10 01:49		Sep-04-10 04:07					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL				
Benzene		0.0022	0.0010	0.0017	0.0010	0.0026	0.0010				
Toluene		ND	0.0020	ND	0.0020	0.0021	0.0020				
Ethylbenzene		ND	0.0010	ND	0.0010	0.0012	0.0010				
m,p-Xylenes		ND	0.0020	ND	0.0020	0.0023	0.0020				
o-Xylene		ND	0.0010	ND	0.0010	0.0010	0.0010				
Xylenes, Total		ND	0.0010	ND	0.0010	0.0033	0.0010				
Total BTEX		0.0022	0.0010	0.0017	0.0010	0.0092	0.0010				

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

Brent Barron, II
Odessa Laboratory Manager

Final 1.000

XENCO Laboratories

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.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: DCP Plant to Lea Station 6" #2

Work Orders : 387522,

Project ID: 2009-039

Lab Batch #: 821762 **Sample:** 572537-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/03/10 20:45

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0356	0.0300	119	80-120	
4-Bromofluorobenzene	0.0340	0.0300	113	80-120	

Lab Batch #: 821762 **Sample:** 572537-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/03/10 21:09

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0353	0.0300	118	80-120	
4-Bromofluorobenzene	0.0333	0.0300	111	80-120	

Lab Batch #: 821762 **Sample:** 572537-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/03/10 22:19

BTEX by EPA 8021 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	0.0316	0.0300	105	80-120	

Lab Batch #: 821762 **Sample:** 387522-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/04/10 01:49

BTEX by EPA 8021 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	0.0326	0.0300	109	80-120	

Lab Batch #: 821762 **Sample:** 387522-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/04/10 02:12

BTEX by EPA 8021 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	0.0320	0.0300	107	80-120	

* Surrogate outside of Laboratory QC limits

** 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.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: DCP Plant to Lea Station 6" #2

Work Orders : 387522,

Project ID: 2009-039

Lab Batch #: 821762 **Sample:** 387522-001 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/04/10 02:35

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	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	0.0317	0.0300	106	80-120	

Lab Batch #: 821762 **Sample:** 387522-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/04/10 02:58

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0313	0.0300	104	80-120	

Lab Batch #: 821762 **Sample:** 387522-003 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 09/04/10 04:07

BTEX by EPA 8021	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	0.0328	0.0300	109	80-120	

* Surrogate outside of Laboratory QC limits

** 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: DCP Plant to Lea Station 6" #2

Work Order #: 387522 **Project ID:** 2009-039

Analyst: ASA **Date Prepared:** 09/03/2010 **Date Analyzed:** 09/03/2010

Lab Batch ID: 821762 **Sample:** 572537-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 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	0.1079	108	0.1	0.1103	110	2	70-125	25	
Toluene	ND	0.1000	0.1056	106	0.1	0.1077	108	2	70-125	25	
Ethylbenzene	ND	0.1000	0.1091	109	0.1	0.1115	112	2	71-129	25	
m,p-Xylenes	ND	0.2000	0.2101	105	0.2	0.2145	107	2	70-131	25	
o-Xylene	ND	0.1000	0.1094	109	0.1	0.1114	111	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

Final 1.000

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: DCP Plant to Lea Station 6" #2

Work Order # : 387522 **Project ID:** 2009-039

Lab Batch ID: 821762 **QC- Sample ID:** 387522-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/04/2010 **Date Prepared:** 09/03/2010 **Analyst:** ASA

Reporting Units: mg/L

BTEX by EPA 8021 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	0.0022	0.1000	0.0979	96	0.1000	0.0977	96	0	70-125	25	
Toluene	ND	0.1000	0.0930	93	0.1000	0.0932	93	0	70-125	25	
Ethylbenzene	ND	0.1000	0.0950	95	0.1000	0.0954	95	0	71-129	25	
m,p-Xylenes	ND	0.2000	0.1834	92	0.2000	0.1837	92	0	70-131	25	
o-Xylene	ND	0.1000	0.0952	95	0.1000	0.0963	96	1	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: Camille Bryant

Company Name: Basin Environmental Consulting

Company Address: P.O.Box 381

City/State/Zip: Lovington, NM 88260

Telephone No: (575)605-7210 Fax No: (505) 396-1429

Sampler Signature:

e-mail: cjbryant@basin-consulting.com

Project Name: DCP Plant to Lea Station 6" #2

Project #: 2009-039

Project Loc: Lea County, NM

PO #: PAA- J. Henry

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

(lab use only)
ORDER #: 387522

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: TCLP: TPH: 418.1 8015M	TOTAL: 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	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
	MW-2			8/26/2010	9:00		3	X		X						GW										X					X
	MW-4			8/26/2010	10:00		3	X		X						GW										X					X
	MW-3			8/26/2010	11:00		3	X		X						GW										X					X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date 8-27-10	Time 14:40	Received by ELOT:	Date 8/27/10	Time 14:40

Laboratory Comments:

VOCs Free of Headspace? Y N

Custody seals on container(s) Y N

Sample Hand Delivered by Sampler/Client Rep.? Y N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 5.6 °C

Final 1.000

XENCO Laboratories	Document Title: Sample Receipt Checklist
Atlanta, Boca Raton, Corpus Christi, Dallas	Document No.: SYS-SRC
Houston, Miami, Odessa, Philadelphia	Revision/Date: No. 01, 5/27/2010
Phoenix, San Antonio, Tampa	Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Basin Environmental

Date/Time: 8/27/10 14:40

Lab ID # : 387522

Initials: TTS

Sample Receipt Checklist

1. Samples on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Yes)	No	N/A	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	(Yes)	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	(No)	N/A	
17. VOC sample have zero head space?	(Yes)	No	N/A	

18. Cooler 1 No.		Cooler 2 No.		Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
lbs	5.6 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis

Analytical Report 396286

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

DCP Plant to Lea Station 6" #2

2009-039

09-NOV-10

Celebrating 20 Years of commitment to excellence in Environmental Testing Services

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL01273):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):
Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

09-NOV-10

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

Reference: XENCO Report No: **396286**
DCP Plant to Lea Station 6" #2
Project Address: Lea County, NM

Jason Henry:

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 396286. 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. 396286 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

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

Sample Cross Reference 396286

PLAINS ALL AMERICAN EH&S, Midland, TX

DCP Plant to Lea Station 6" #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-2	W	Oct-29-10 12:10		396286-001
MW-4	W	Oct-29-10 13:35		396286-002
MW-3	W	Oct-29-10 13:00		396286-003

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: DCP Plant to Lea Station 6" #2

Project ID:	*2009-039*	*Report Date:*	*09-NOV-10*
Work Order Number:	*396286*	*Date Received:*	*11/05/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Certificate of Analysis Summary 396286

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: DCP Plant to Lea Station 6" #2

Project Id: 2009-039
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Fri Nov-05-10 03:15 pm
Report Date: 09-NOV-10
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	396286-001		396286-002		396286-003					
	Field Id:	MW-2		MW-4		MW-3					
	Depth:										
	Matrix:	WATER		WATER		WATER					
	Sampled:	Oct-29-10 12:10		Oct-29-10 13:35		Oct-29-10 13:00					
BTEX by EPA 8021B	***Extracted:***	Nov-08-10 11:45		Nov-08-10 11:45		Nov-08-10 11:45					
	Analyzed:	Nov-09-10 01:31		Nov-09-10 01:53		Nov-09-10 02:16					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL				
Benzene		0.0012	0.0010	0.0525	0.0010	0.0263	0.0010				
Toluene		ND	0.0020	0.0189	0.0020	0.0107	0.0020				
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010				
m,p-Xylenes		ND	0.0020	ND	0.0020	ND	0.0020				
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010				
Total Xylenes		ND	0.0010	ND	0.0010	ND	0.0010				
Total BTEX		0.0012	0.0010	0.0714	0.0010	0.0370	0.0010				

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

Brent Barron, II
Odessa Laboratory Manager

Final 1.000

XENCO Laboratories

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.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: DCP Plant to Lea Station 6" #2

Work Orders : 396286,

Project ID: 2009-039

Lab Batch #: 831143 **Sample:** 578218-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/08/10 23:36

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 831143 **Sample:** 578218-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/08/10 23:59

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0304	0.0300	101	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

Lab Batch #: 831143 **Sample:** 578218-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/09/10 01:08

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0278	0.0300	93	80-120	

Lab Batch #: 831143 **Sample:** 396286-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/09/10 01:31

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 831143 **Sample:** 396286-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/09/10 01:53

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

* Surrogate outside of Laboratory QC limits

** 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: DCP Plant to Lea Station 6" #2

Work Orders : 396286, **Project ID:** 2009-039

Lab Batch #: 831143 **Sample:** 396286-003 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/09/10 02:16

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	0.0271	0.0300	90	80-120	

Lab Batch #: 831143 **Sample:** 396347-003 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/09/10 05:16

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	0.0313	0.0300	104	80-120	

Lab Batch #: 831143 **Sample:** 396347-003 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/09/10 05:39

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	0.0321	0.0300	107	80-120	

* Surrogate outside of Laboratory QC limits

** 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: DCP Plant to Lea Station 6" #2

Work Order #: 396286 **Project ID:** 2009-039

Analyst: ASA **Date Prepared:** 11/08/2010 **Date Analyzed:** 11/08/2010

Lab Batch ID: 831143 **Sample:** 578218-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.1061	106	0.1	0.1150	115	8	70-125	25	
Toluene	ND	0.1000	0.0974	97	0.1	0.1060	106	8	70-125	25	
Ethylbenzene	ND	0.1000	0.0944	94	0.1	0.1031	103	9	71-129	25	
m,p-Xylenes	ND	0.2000	0.1928	96	0.2	0.2106	105	9	70-131	25	
o-Xylene	ND	0.1000	0.0949	95	0.1	0.1031	103	8	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

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: DCP Plant to Lea Station 6" #2

Work Order # : 396286 **Project ID:** 2009-039

Lab Batch ID: 831143 **QC- Sample ID:** 396347-003 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 11/09/2010 **Date Prepared:** 11/08/2010 **Analyst:** ASA

Reporting Units: mg/L

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
BTEX by EPA 8021B **Analytes**	**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	0.1139	114	0.1000	0.1149	115	1	70-125	25	
Toluene	ND	0.1000	0.1043	104	0.1000	0.1044	104	0	70-125	25	
Ethylbenzene	ND	0.1000	0.1018	102	0.1000	0.1020	102	0	71-129	25	
m,p-Xylenes	ND	0.2000	0.2049	102	0.2000	0.1988	99	3	70-131	25	
o-Xylene	ND	0.1000	0.1018	102	0.1000	0.1012	101	1	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

Xenco Laboratories

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: Ben J. Arguijo

Company Name: Basin Environmental Service Technologies, LLC

Company Address: P.O. Box 301

City/State/Zip: Lovington, NM 88260

Telephone No: (575)396-2378 Fax No: (575) 396-1429

Sampler Signature: [signature]

e-mail: pm@basinenv.com

Project Name: DCP Plant to Lea Station 6" #2

Project #: 2009-039

Project Loc: Lea County, NM

PO #: PAA- J. Henry

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

(lab use only)

ORDER #: 396286

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	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 4 DAY
	MW-2			10/29/2010	1210		3	X		X						GW									X								X
	MW-4			10/29/2010	1335		3	X		X						GW									X								X
	MW-3			10/29/2010	1300		3	X		X						GW									X								X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date 11/5/10	Time 1575	Received by ELOT: Lisa Murdock	Date 11-5-10	Time 15:15

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. ?		N

by Courier? UPS DHL FedEx Lone Star

VCA

Temperature Upon Receipt: 2.6 °C

Final 1.000

XENCO Laboratories	XENCO Laboratories Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Orlando, Memphis Phoenix, San Antonio, Tampa	Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Basin Environmental

Date/Time: 11-5-10 15:15

Lab ID #: 396286

Initials: KM

Sample Receipt Checklist

1. Samples on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Yes)	No	N/A	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	(Yes)	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	(No)	N/A	
17. VOC sample have zero headspace?	(Yes)	No	N/A	

18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.		Cooler 5 No.	
lbs 2.6 °C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that apply: ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.
☐ Initial and backup Temperature confirm out of temperature conditions
☐ Client understands and would like to proceed with analysis

Appendix B

Release Notification &

Corrective Action (Form C-141)

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Plains Pipeline, LP	Contact	Jason Henry
Address	2530 Hwy 214 – Denver City, Tx 79323	Telephone No.	(575) 441-1099
Facility Name	DCP Plant to Lea Station 6-inch #2	Facility Type	Pipeline

Surface Owner NM SLO	Mineral Owner	Lease No. 30-025-01283

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	30	20S	37E					Lea

Latitude N 32.5316667° Longitude W 103.2911111°

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 25 bbls	Volume Recovered 0 bbls
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 02/12/2009	Date and Hour of Discovery 02/12/2009 12:30
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? Larry Johnson (revised release volume on 02/25/2009)	
By Whom? Jason Henry	Date and Hour 02/25/2009 @ 14:00	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED
MAR 23 2009
HOBBSOCD

Describe Cause of Problem and Remedial Action Taken.*

External corrosion of 6" inch pipeline caused a release of crude oil. A clamp was installed on the pipeline to mitigate the release. Throughput for the subject line is 660 bbls/day and the operating pressure of the pipeline is 45 psi. The depth of the pipeline at the release point is approximately 2' bgs. The H2S concentration in the crude is less than 10 ppm and the gravity of the crude is 65.

Describe Area Affected and Cleanup Action Taken.*

The released crude resulted in a surface stain that measured approximately 10' x 12'. The impacted area will be remediated per applicable guidelines.

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: Jason Henry	OIL CONSERVATION DIVISION
Printed Name: Jason Henry	Approved by District Supervisor:
Title: Remediation Coordinator	Approval Date: / Expiration Date:
E-mail Address: jhenry@paalp.com	Conditions of Approval: 1 RP-2136 / Attached ☐
Date: 03/23/2009 Phone: (575) 441-1099	

Attach Additional Sheets If Necessary

1R - 2136

L,

Please place behind this thumbnail.
Thanks,
EI

APPROVALS

YEAR(S):

2011

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Thursday, November 10, 2011 2:04 PM
To: 'Jason Henry'
Cc: Leking, Geoffrey R, EMNRD; 'Jeffrey P Dann'
Subject: Anticipated Actions Approval (1R-2136) - Plains DCP Plant to lea Station 6-Inch #2 Release Site

RE: Annual Monitoring Report (2010) for the Plains Marketing's DCP Plant to lea Station 6-Inch #2 Release Site (1R-2136) Unit F, Section 31, T20S, R37E, NMPM, Lea County, New Mexico Anticipated Actions Approval

Dear Mr. Henry:

The New Mexico Oil Conservation Division (OCD) has received Plains' report (including proposed "Anticipated Actions") the above-referenced site (dated March 2011). The above-referenced report, submitted in partial fulfillment of 19.15.29 NMAC (Rule 29, formally, Rule 116), indicates that Plains has partially met the requirements of 19.15.29 NMAC for this site. Therefore, the OCD hereby approves the Anticipated Actions for the DCP Plant to lea Station 6-Inch #2 Release Site.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact at 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau