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2014 ANNUAL MONITORING REPORT

#### DCP PLANT TO LEA STATION 6-INCH #2 Unit Letter ''F'' (SE/NW), 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 All American Pipeline, 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 2015

Ben J. Arguijo Project Manager

#### **TABLE OF CONTENTS**

1.0	INTRODUCTION	1
2.0	SITE DESCRIPTION & BACKGROUND INFORMATION	1
3.0	FIELD ACTIVITIES	3
	3.1 Product Recovery Efforts	
	3.2 Groundwater Monitoring	3
	LABORATORY RESULTS	
	SUMMARY	
6.0	ANTICIPATED ACTIONS	6
7.0	LIMITATIONS	7
8.0	DISTRIBUTION	8

#### FIGURES

Figure 1 – Site Location Map

- Figure 2A Inferred Groundwater Gradient Map 1Q2014
- Figure 2B Inferred Groundwater Gradient Map 2Q2014
- Figure 2C Inferred Groundwater Gradient Map 3Q2014
- Figure 2D Inferred Groundwater Gradient Map 4Q2014
- Figure 3A Groundwater Concentration Map 1Q2014
- Figure 3B Groundwater Concentration Map 2Q2014
- Figure 3C Groundwater Concentration Map 3Q2014
- Figure 3D Groundwater Concentration Map 4Q2014

#### TABLES

- Table 1 2014 Groundwater Elevation Data
- Table 2 2014 Concentrations of Benzene & BTEX in Groundwater
- Table 3 Concentrations of Semi-Volatile Compounds in Groundwater

#### **APPENDICES**

- Appendix A Laboratory Analytical Reports
- Appendix B Release Notification and Corrective Action (Form C-141)

#### **1.0 INTRODUCTION**

Basin Environmental Service Technologies, LLC (Basin Environmental), on behalf of Plains All American 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 2014 only. For reference, a "Site Location Map" is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2014 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.

#### 2.0 SITE DESCRIPTION & BACKGROUND INFORMATION

The legal description of the DCP Plant to Lea Station 6" #2 release site is Unit Letter "F" (SE/NW), 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 and 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-inch (6") steel pipeline. During initial response activities, Plains installed a temporary clamp on the pipeline to mitigate the release. Approximately twenty-five barrels (25 bbls) of crude oil was released from the Plains pipeline, resulting in a surface stain measuring approximately ten feet (10') in width and twelve feet (12') 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 two thousand, seven hundred cubic yards (2,700 yd<sup>3</sup>) of soil was stockpiled on-site during excavation activities. The final dimensions of the excavation were approximately sixty-six feet (66') in width, approximately eighty feet (80') in length, and approximately fifteen feet (15') 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.

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 feet (61') drilling depth, or approximately seventy-six feet (76') 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-inch (4") 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 one hundred and thirty-five feet (135') to the northwest (up-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately ninety feet (90') bgs. Monitor well MW-3 is located approximately eighty feet (80') to the southwest (cross-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately ninety feet (90') bgs. Monitor well MW-1. The monitor well was installed to a total depth of approximately ninety feet (90') bgs. Monitor well MW-1 is located approximately one hundred and fifteen feet (115') to the southeast (down-gradient) of monitor well MW-1. The monitor well MW-1 was installed to a total depth of approximately ninety feet (90') bgs. Monitor well MW-4 is located approximately one hundred and fifteen feet (115') to the southeast (down-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately one hundred and fifteen feet (115') to the southeast (down-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately eighty-eight feet (88') 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-inch (4") 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-inch (6") 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-inch (12") 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.

On January 24, 2011, one (1) additional monitoring well (MW-5) was installed to further monitor the down-gradient migration of the PSH plume. Monitor well MW-5 is located approximately fifty feet (50') to the southeast (down-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately ninety-five feet (95') bgs. PSH was not observed in monitor well MW-5. Laboratory analytical results of soil samples collected during the installation of monitor well MW-5 indicated benzene, BTEX, and TPH concentrations were less than NMOCD regulatory standards in all submitted soil samples.

On September 10, 2013, two (2) additional monitoring wells (MW-6 and MW-7) were installed to further monitor the down-gradient migration of the dissolved-phase plume and to delineate the horizontal extent of PSH. Monitor well MW-6 is located approximately one hundred and twenty-five feet (125') to the east-southeast (cross-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately ninety-five feet (95') bgs. Monitor well MW-7 is located approximately one hundred and seventy-five feet (175') to the southeast (down-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately and seventy-five feet (175') to the southeast (down-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately one hundred feet (100') bgs. Laboratory analytical results of soil samples collected during the installation of monitor wells MW-6 and MW-7 indicated benzene, BTEX, and TPH concentrations were less than NMOCD regulatory standards in all submitted soil samples. PSH was not observed in MW-6 or MW-7.

Currently, a total of seven (7) monitor wells are located at the DCP Plant to Lea Station 6-Inch #2 release site. Monitor wells MW-2 through MW-7 are gauged and sampled on a quarterly schedule, while MW-1 is gauged weekly but not sampled due to the presence of PSH.

#### 3.0 FIELD ACTIVITIES

#### **3.1 Product Recovery Efforts**

A measurable thickness of PSH was detected in monitor well MW-1 during the initial site investigation. Basin Environmental began manual, bi-weekly gauging and recovery of PSH from MW-1 in April 2009. Approximately 4,702 gallons (112 barrels) of PSH has been recovered from MW-1 since recovery operations began in 2009, and approximately 707 gallons (16.8 barrels) of PSH was recovered from MW-1 during the 2014 reporting period. The average PSH thickness measured in MW-1 during the reporting period was 2.58 feet, and the maximum PSH thickness was 4.29 feet on May 27 and June 9, 2014.

On July 18, 2012, a Mobile Dual-Phase Extraction (MDPE) unit was installed on monitor well MW-1 by Talon LPE. The MDPE unit is shared with the nearby release site known as DCP Plant to Lea Station 6-Inch Sec. 31 (NMOCD Reference #1RP-2166), and the location of the unit is alternated quarterly. During the 2014 reporting period, approximately 861 gallons (20.5 barrels) of PSH in the vapor phase and approximately 139 gallons (3.3 barrels) of PSH in the liquid phase were recovered by the MDPE unit, for a total of approximately 1,000 equivalent gallons (23.8 barrels) of PSH. To date, approximately 4,258 equivalent gallons (101 barrels) of PSH has been recovered from monitor well MW-1 by MDPE.

All recovered fluids are disposed of at an NMOCD-approved disposal facility.

#### 3.2 Groundwater Monitoring

The on-site monitor wells were gauged and sampled on February 14 (1Q2014), May 8 (2Q2014), August 5 (3Q2014), and November 7, 2014 (4Q2014). The groundwater monitoring events consisted of measuring static water levels in the on-site monitor wells (MW-1 through MW-7), checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. The monitor wells were purged using disposable Teflon bailers of a minimum of three (3) well volumes of water, or until the wells were dry. Groundwater was allowed to recharge, and samples were obtained using clean, disposable Teflon bailers. Water samples were stored in clean, plastic or glass containers provided by the laboratory and placed on ice in the field. Purged water was collected in a trailer-mounted polystyrene tank and disposed of at an NMOCD-approved disposal.

A laboratory error during 4Q2014 necessitated resampling of monitor well MW-5 on November 19, 2014.

A yearly monitoring event for polyaromatic hydrocarbons (PAH) was conducted on May 8, 2014. Based on sampling criteria provided by the NMOCD, only monitor wells MW-5, MW-6, and MW-7 were subject to PAH monitoring during the 2014 calendar year. Locations of the groundwater monitoring wells and the inferred groundwater elevations, which were constructed from measurements collected during the 2014 quarterly sampling events, are depicted in Figures 2A through 2D. The "Groundwater Gradient Map" from the most recent sampling event (Figure 2D, November 7, 2014) indicates a general gradient of approximately 0.002 feet/foot to the southeast as measured between monitor wells MW-2 and MW-7.

On November 7, 2014, the corrected groundwater elevation ranged between 3,458.84 and 3,459.44 feet above mean sea level in monitor wells MW-7 and MW-2, respectively. The "2014 Groundwater Elevation Data" is provided as Table 1.

#### 4.0 LABORATORY RESULTS

Groundwater samples collected from the monitor wells during the during the quarterly and yearly monitoring events were delivered to Xenco Laboratories in Odessa, Texas, for determination of BTEX and/or PAH constituent concentrations by EPA Methods SW846-8021b and SW846 8270C, respectively. A summary of benzene and BTEX constituent concentrations is presented in Table 2, "2014 Concentrations of Benzene & BTEX in Groundwater". A summary of PAH constituent concentrations is presented in Table 3, "Concentrations of Semi-Volatile Compounds in Groundwater". Laboratory analytical reports are provided as Appendix A. "Groundwater Concentration" 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 2014 reporting period due to the presence of PSH in the monitor well.

#### Monitor well MW-2

Laboratory analytical results indicated benzene, ethylbenzene, toluene, and total xylene concentrations were both less than the appropriate laboratory method detection limit (MDL) and less than NMOCD regulatory standards during all four quarters of the reporting period.

#### Monitor well MW-3

Laboratory analytical results indicated benzene, ethylbenzene, toluene, and total xylene concentrations were both less than the appropriate laboratory MDL and 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 less than the laboratory MDL in 1Q2014 and 3Q2014 to 0.0011 mg/L in 4Q2014. Toluene, ethylbenzene, and total xylene

concentrations were less than the appropriate laboratory MDL in all submitted groundwater samples. Benzene, toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards during all four quarters of the reporting period.

#### Monitor well MW-5

Laboratory analytical results indicated benzene concentrations ranged from 0.8950 mg/L in 2Q2014 to 5.11 mg/L in 4Q2014. Toluene concentrations ranged from less than the laboratory MDL in 1Q2014 to 0.3910 mg/L in 4Q2014. Ethylbenzene concentrations ranged from 0.0090 mg/L in 2Q2014 to 0.2390 mg/L in 4Q2014. Total xylene concentrations ranged from less than the laboratory MDL in 1Q2014 to 0.1870 mg/L in 4Q2014. Benzene concentrations exceeded the NMOCD regulatory standard of 0.01 mg/L during all four quarters of the reporting period. Toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards during all four quarters of the reporting period.

PAH constituent concentrations in the groundwater sample collected on May 8, 2014, were both less than the appropriate laboratory MDL and less than NMOCD regulatory standards.

#### Monitor well MW-6

Laboratory analytical results indicated benzene concentrations ranged from less than the laboratory MDL in 1Q2014 to 0.0042 mg/L in 4Q2014. Toluene concentrations ranged from less than the laboratory MDL in 1Q2014, 2Q2014, and 4Q2014 to 0.0064 mg/L in 3Q2014. Ethylbenzene and total xylene concentrations were less than the appropriate laboratory MDL in all submitted groundwater samples. Benzene, toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards during all four quarters of the reporting period.

PAH constituent concentrations in the groundwater sample collected on May 8, 2014, were both less than the appropriate laboratory MDL and less than NMOCD regulatory standards.

#### Monitor well MW-7

Laboratory analytical results indicated benzene, ethylbenzene, toluene, and total xylene concentrations were both less than the appropriate laboratory MDL and less than NMOCD regulatory standards during all four quarters of the reporting period.

PAH constituent concentrations in the groundwater sample collected on May 8, 2014, were both less than the appropriate laboratory MDL and less than NMOCD regulatory standards.

#### 5.0 SUMMARY

This report presents the results of groundwater monitoring activities for the 2014 annual monitoring period. Currently, there are seven (7) groundwater monitor wells (MW-1 through MW-7) on-site. Monitor well MW-1 was not sampled in 2014 due to the presence of PSH in the monitor well. Monitor wells MW-2 through MW-7 were sampled during all four quarters of the monitoring period. The results of these sampling events are summarized above.

The "Groundwater Gradient Map" from the most recent sampling event (Figure 2D, November 7, 2014) indicates a general gradient of approximately 0.002 feet/foot to the southeast as measured between monitor wells MW-2 and MW-7.

A measurable thickness of PSH was detected in monitor well MW-1 throughout the 2014 reporting period. The average PSH thickness measured in MW-1 during the reporting period was 2.58 feet, and the maximum PSH thickness was 4.29 feet on May 27 and June 9, 2014.

During the reporting period, approximately 707 gallons (16.8 barrels) of PSH was recovered, by manual recovery, from monitor well MW-1. Approximately 861 gallons (20.5 barrels) of PSH in the vapor phase and approximately 139 gallons (3.3 barrels) of PSH in the liquid phase were recovered by Mobile Dual-Phase Extraction, for a total of approximately 1,000 equivalent gallons (23.8 barrels) of PSH.

Review of laboratory analytical results generated from analysis of groundwater samples collected in 2014 indicated benzene concentrations were less than the NMOCD regulatory standard in monitor wells MW-2, MW-3, MW-4, MW-6, and MW-7. However, benzene concentrations above NMOCD standards were detected in the groundwater samples collected from monitor well MW-5 during all four quarters of the reporting period. Toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards during all four quarters of the reporting period.

#### 6.0 ANTICIPATED ACTIONS

PSH recovery by Mobile Dual-Phase Extraction from monitor well MW-1 will continue on an alternating quarterly basis during the 2015 monitoring period. During months when the MDPE unit is not active at the site, manual PSH recovery from monitor well MW-1 will be conducted on a semi-weekly schedule. All fluids recovered from MW-1 will be disposed of at an NMOCD-permitted disposal facility.

Monitor wells MW-2 through MW-7 will be monitored and sampled quarterly. Results of the 2015 sampling events will be reported in the *2015 Annual Monitoring Report*, which will be submitted to the NMOCD by April 1, 2016.

#### 7.0 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 Environmental has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. Basin Environmental has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental 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 All American Pipeline, 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 All American Pipeline, LP.

#### 8.0 DISTRIBUTION

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# Figures



















## Tables

## TABLE 12014 GROUNDWATER ELEVATION DATA

#### PLAINS ALL AMERICAN PIPELINE, LP DCP PLANT TO LEA STATION 6-INCH #2 LEA COUNTY, NEW MEXICO PLAINS SRS #: 2009-039 NMOCD REFERENCE #: 1RP-2136

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-1	02/14/2014	3,540.25	*	*	*	*
	05/08/2014	3,540.25	80.06	83.73	3.67	3,459.64
	08/05/2014	3,540.25	*	*	*	*
	11/07/2014	3,540.25	80.75	81.72	0.97	3,459.35
MW-2	02/14/2014	3,538.31	-	78.77	-	3,459.54
	05/08/2014	3,538.31	-	78.76	-	3,459.55
	08/05/2014	3,538.31	-	78.95	-	3,459.36
	11/07/2014	3,538.31	-	78.87	-	3,459.44
MW-3	02/14/2014	3,538.94	-	79.76	-	3,459.18
	05/08/2014	3,538.94	-	79.74	-	3,459.20
	08/05/2014	3,538.94	-	79.92	-	3,459.02
	11/07/2014	3,538.94	-	79.84	-	3,459.10
MW-4	02/14/2014	3,539.67	-	80.61	-	3,459.06
	05/08/2014	3,539.67	-	80.64	-	3,459.03
	08/05/2014	3,539.67	-	80.81	-	3,458.86
	11/07/2014	3,539.67	-	80.78	-	3,458.89
MW-5	02/14/2014	3,539.55	-	80.41	-	3,459.14
	05/08/2014	3,539.55	-	80.38	-	3,459.17
	08/05/2014	3,539.55	-	80.60	-	3,458.95
	11/07/2014	3,539.55	-	80.51	-	3,459.04
MW-6	02/14/2014	3,539.22	-	80.08	-	3,459.14
	05/08/2014	3,539.22	-	80.07	-	3,459.15
	08/05/2014	3,539.22	-	80.26	-	3,458.96
	11/07/2014	3,539.22	-	80.16	-	3,459.06
MW-7	02/14/2014	3,538.97	-	80.03	-	3,458.94
	05/08/2014	3,538.97	-	80.04	-	3,458.93
	08/05/2014	3,538.97	-	80.21	-	3,458.76
	11/07/2014	3,538.97	-	80.13	-	3,458.84

Elevations based on the North American Vertical Datum of 1988

- = Not applicable

\* Due to the presence of a Mobile Dual Phase Extraction (MDPE) unit, monitor well MW-1 was not gauged during

the 1Q2014 quarterly monitoring event.

## TABLE 22014 CONCENTRATIONS OF BENZENE & BTEX IN GROUNDWATER

#### PLAINS ALL AMERICAN PIPELINE, LP DCP PLANT TO LEA STATION 6-INCH #2 LEA COUNTY, NEW MEXICO PLAINS SRS #: 2009-039 NMOCD REFERENCE #: 1RP-2136

				METH	ODS: EPA S	W 846-8021b		
SAMPLE	SAMPLE	BENZENE	TOLUENE	ETHYL-	M,P-	O-XYLENES	TOTAL	TOTAL
LOCATION	DATE			BENZENE	XYLENES		XYLENES	BTEX
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-2	02/14/14	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	05/08/14	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	08/05/14	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	11/07/14	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
MW-3	02/14/14	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	05/08/14	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	08/05/14	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	11/07/14	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
MW-4	02/14/14	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	05/08/14	0.0036	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0036
	08/05/14	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	11/07/14	0.0011	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0011
MW-5	02/14/14	2.64	<0.0200	0.0337	<0.0200	<0.0100	<0.0200	<0.0200
	05/08/14	0.8950	0.0262	0.0090	0.0172	0.0063	0.0235	0.9540
	08/05/14	3.41	0.0902	0.0708	0.0508	<0.0020	0.0508	3.62
	11/19/14	5.11	0.3910	0.2390	0.1190	0.0678	0.1870	5.93
MW-6	02/14/14	< 0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	05/08/14	0.0013	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0013
	08/05/14	0.0019	0.0064	<0.0010	<0.0020	<0.0010	<0.0020	0.0083
	11/07/14	0.0042	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	0.0042
MW-7	02/14/14	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	05/08/14	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	08/05/14	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
	11/07/14	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
NMOCD CRITERIA	A	0.01	0.75	0.75	TOTAL XY	LENES 0.62		

TABLE 3 CONCENTRATIONS OF SEMI-VOLATILE COMPOUNDS IN GROUNDWATER

#### PLAINS ALL AMERICAN PIPELINE, LP DCP PLANT TO LEA STATION 6-INCH #2 LEA COUNTY, NEW MEXICO PLAINS SRS #: 2009-039 NMOCD REFERENCE #: 1RP-2136

All water concentrations are reported in mg/L

									PA SW846	-8270C, 351	10						
SAMPLE LOCATION	SAMPLE DATE	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
MW-5	5/8/2014	<0.000050	<0.000050	<0.000050	<0.000050	< 0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.00050	<0.000050	<0.000050
MW-6	5/8/2014	<0.000050	<0.000050	<0.000050	< 0.000050	< 0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	< 0.000050	< 0.000050	<0.00050	<0.000050	<0.000050
MW-7	5/8/2014	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.00050	<0.000050	<0.000050

## Appendices

# Appendix A Laboratory Analytical Reports

## Analytical Report 479540

## for PLAINS ALL AMERICAN EH&S

Project Manager: Ben Arguijo

DCP Plant to Lea Station 6' #2

2009-039

#### 24-FEB-14

Collected By: Client





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054) New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)





24-FEB-14

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

Reference: XENCO Report No(s): **479540 DCP Plant to Lea Station 6' #2** Project Address: Lea County, NM

#### Ben Arguijo:

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(s) 479540. 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. The uncertainty of measurement associated with the results of analysis reported is available upon request. 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. 479540 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.

Ams Boah

 

 Kelsey Brooks

 Project Manager

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## Sample Cross Reference 479540



### 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	02-14-14 11:15		479540-001
MW-3	W	02-14-14 10:50		479540-002
MW-4	W	02-14-14 09:30		479540-003
MW-5	W	02-14-14 09:50		479540-004
MW-6	W	02-14-14 10:30		479540-005
MW-7	W	02-14-14 10:10		479540-006



### CASE NARRATIVE



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

 Project ID:
 2009-039

 Work Order Number(s):
 479540

Report Date: 24-FEB-14 Date Received: 02/14/2014

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Project Id: 2009-039 Contact: Ben Arguijo Project Location: Lea County, NM

### Certificate of Analysis Summary 479540

PLAINS ALL AMERICAN EH&S, Midland, TX

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



Date Received in Lab: Fri Feb-14-14 03:40 pm

Report Date: 24-FEB-14

					Project Manager:	Kelsey Brooks		
	Lab Id:	479540-001	479540-002	479540-003	479540-004	479540-005	479540-006	
Analysis Proprested	Field Id:	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	
Analysis Requested	Depth:							
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER	
	Sampled:	Feb-14-14 11:15	Feb-14-14 10:50	Feb-14-14 09:30	Feb-14-14 09:50	Feb-14-14 10:30	Feb-14-14 10:10	
BTEX by EPA 8021B	Extracted:	Feb-22-14 14:00	Feb-22-14 14:00	Feb-22-14 14:00	Feb-22-14 14:00	Feb-22-14 14:00	Feb-22-14 14:00	
	Analyzed:	Feb-23-14 17:11	Feb-23-14 17:26	Feb-23-14 17:42	Feb-24-14 10:34	Feb-24-14 08:43	Feb-24-14 08:59	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	
Benzene		ND 0.00100	ND 0.00100	ND 0.00100	2.64 0.0100	ND 0.00100	ND 0.00100	
Toluene		ND 0.00200	ND 0.00200	ND 0.00200	ND 0.0200	ND 0.00200	ND 0.00200	
Ethylbenzene		ND 0.00100	ND 0.00100	ND 0.00100	0.0337 0.0100	ND 0.00100	ND 0.00100	
m_p-Xylenes		ND 0.00200	ND 0.00200	ND 0.00200	ND 0.0200	ND 0.00200	ND 0.00200	
o-Xylene		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.0100	ND 0.00100	ND 0.00100	
Total Xylenes		ND 0.00100	ND 0.00100	ND 0.00100	ND 0.0100	ND 0.00100	ND 0.00100	
Total BTEX		ND 0.00100	ND 0.00100	ND 0.00100	2.67 0.0100	ND 0.00100	ND 0.00100	

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.

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Huns Boah

Kelsey Brooks Project Manager



## **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 affect the recovery of the spike concentration. This condition could also affect 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 quantitation limit and above the detection limit.
- 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.
- \*\* Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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2505 North Falkenburg Rd, Tampa, FL 33619
12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
3725 E. Atlanta Ave, Phoenix, AZ 85040

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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



## Form 2 - Surrogate Recoveries Project Name: DCP Plant to Lea Station 6' #2

Work Ord Lab Batch #:		40, Sample: 479540-001 / SMP	Batcl	Project ID	2009-039 Water		
Units:	mg/L	Date Analyzed: 02/23/14 17:11		RROGATE R		STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
145.0 1		Analytes					
1,4-Difluorobe			0.0310	0.0300	103	80-120	
Lab Batch #:		Sample: 479540-002 / SMP	Batcl	0.0300 n: 1 Matrix	105 : Water	80-120	
Lab Batch #: Units:		•					
Units:	mg/L	Date Analyzed: 02/23/14 17:26	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobe	enzene		0.0339	0.0300	113	80-120	
4-Bromofluor	obenzene		0.0272	0.0300	91	80-120	
Lab Batch #:	934647	Sample: 479540-003 / SMP	Batcl	n: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 02/23/14 17:42	SU	RROGATE R	ECOVERYS	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1,4-Difluorobe			0.0283	0.0300	94	80-120	
4-Bromofluor		Semilar 470540.005 / SMD	0.0314	0.0300	105 : Water	80-120	
Lab Batch #:		Sample: 479540-005 / SMP	Batcl				
Units:	mg/L	Date Analyzed: 02/24/14 08:43	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobe	enzene		0.0288	0.0300	96	80-120	
4-Bromofluor	obenzene		0.0281	0.0300	94	80-120	
Lab Batch #:	934647	Sample: 479540-006 / SMP	Batcl	n: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 02/24/14 08:59	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobe	enzene		0.0298	0.0300	99	80-120	
	obenzene			!	1		

\* 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 Ord Lab Batch #:		Sample: 479540-004 / SMP	Batc	Project ID h: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 02/24/14 10:34	st	JRROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1,4-Difluorobe	enzene		0.0325	0.0300	108	80-120	
4-Bromofluor	obenzene		0.0264	0.0300	88	80-120	
Lab Batch #:	934647	Sample: 651475-1-BLK / BL	K Batc	h: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 02/22/14 15:16	SU	JRROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1.4-Difluorobe	enzene	Anarytes	0.0296	0.0300	99	80-120	
4-Bromofluor			0.0298	0.0300	99	80-120	
Lab Batch #:		<b>Sample:</b> 651475-1-BKS / BK			: Water	00120	
Units:	mg/L	<b>Date Analyzed:</b> 02/22/14 15:32		JRROGATE R		STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1,4-Difluorobe	enzene		0.0316	0.0300	105	80-120	
4-Bromofluor	obenzene		0.0312	0.0300	104	80-120	
Lab Batch #:	934647	Sample: 651475-1-BSD / BS	D Batc	h: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 02/22/14 15:48	SU	JRROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1 4 D'flee and h		Analytes	0.0221	0.0200		00.100	
1,4-Difluorobe			0.0331	0.0300	110	80-120	
Lab Batch #:		Sample: 479243-001 S / MS	0.0331 Batc	0.0300	110 : Water	80-120	
Lab Batch #: Units:	mg/L	<b>Date Analyzed:</b> 02/22/14 16:04		JRROGATE R		STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1,4-Difluorobe	enzene		0.0324	0.0300	108	80-120	
4-Bromofluor	benzene		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.



## Form 2 - Surrogate Recoveries Project Name: DCP Plant to Lea Station 6' #2

	r <b>ders :</b> 4795 #: 934647	40, Sample: 479243-001 SD / N	MSD Batch	Project ID: a: 1 Matrix:				
Units:	mg/L	Date Analyzed:   02/22/14 16:20     SURROGATE   RECOVERY STUDY						
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluor	obenzene		0.0325	0.0300	108	80-120		
4-Bromoflu	orobenzene		0.0309	0.0300	103	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 #: 479540							Proj	ject ID:	2009-039		
Analyst: ARM	<b>Date Prepared:</b> 02/22/2014				<b>Date Analyzed:</b> 02/22/2014						
Lab Batch ID: 934647         Sample: 651475-1-E	<b>BKS Batch #:</b> 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	<0.00100	0.100	0.101	101	0.100	0.107	107	6	70-125	25	
Toluene	< 0.00200	0.100	0.102	102	0.100	0.108	108	6	70-125	25	
Ethylbenzene	< 0.00100	0.100	0.0989	99	0.100	0.104	104	5	71-129	25	
m_p-Xylenes	< 0.00200	0.200	0.194	97	0.200	0.204	102	5	70-131	25	
o-Xylene	< 0.00100	0.100	0.102	102	0.100	0.107	107	5	71-133	25	

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


### Form 3 - MS / MSD Recoveries

# SUP ACCREDUE

#### **Project Name: DCP Plant to Lea Station 6' #2**

Work Order # :	479540						Project II	<b>D:</b> 2009-0	39			
Lab Batch ID:	934647	QC- Sample ID:	479243	-001 S	Ba	tch #:	1 Matrix	<b>k:</b> Water				
Date Analyzed:	02/22/2014	Date Prepared:	02/22/2	014	An	alyst: A	ARM					
<b>Reporting Units:</b>	mg/L		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
]	BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene		<0.00100	0.100	0.106	106	0.100	0.106	106	0	70-125	25	
Toluene		< 0.00200	0.100	0.105	105	0.100	0.106	106	1	70-125	25	
Ethylbenzene		< 0.00100	0.100	0.101	101	0.100	0.103	103	2	71-129	25	
m_p-Xylenes		< 0.00200	0.200	0.198	99	0.200	0.202	101	2	70-131	25	
o-Xylene		< 0.00100	0.100	0.104	104	0.100	0.105	105	1	71-133	25	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/BRelative Percent Difference RPD = 200\*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery  $[G] = 100^{*}(F-A)/E$ 

XE	NCO							DY RE						Pa	age1_	of 1			* Container Ty	be Codes
	Houston: 4143 Greenbri Hobbs: 4008 N Grimes	ar Dr. Stafford, Hobbs, NM 88	TX 77477 (28 240 (575)392-7	1)240-4200 7550	Odes	ssa: 12	2600 W	est I-20 East	Odessa,	TX 79765	(432)563-	1800		W.O	#:		1799	540	VC Vial Clear TS VP Vial Pre-preserved AC GA Glass Amber TB	Encore Sampler FerraCore Sampler Air Canister Tedlar Bag Zip Lock Bag
Company	Basin Environmental Service Tec	hnologies, LL	C	Phone:	(575)	)396-2	2378	TAT W	ork Da	vs = D	Need	results		billable	Hrs :	Tie	ne:		PA Plastic Amber PC PC Plastic Clear Other	Plastic Clear
Address:	3100 Plains Hwy.			Fax:	(575)	)396-1	429		-				4D <u>5D</u>						Size(s): 2oz, 4oz, 8oz, 16oz, 32oz 40ml, 125 ml, 250 ml, 500 ml, 1L	: , 1Gal
City:	Lovington		State: NM	Zip:	8826	60							SES RE			Other			40ml, 125 ml, 250 ml, 500 ml, 1L ** Preservative T	
PM/Attn:	Ben Arguijo		Email:	cjbryant@ bjarguijo@			1	Cont Type * VC	VP	Τ	1	T				1	1	1		
Project ID	SRS #2009-039			PO#:	PAA-	C. Brya	ant	Pres Type** E, 1	E,I							1			A. None E. HCL I. Id B. HNO <sub>3</sub> F. MeOH J. M H <sub>2</sub> SO <sub>4</sub> G. Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K. ZnA D. NaOH H. NaHSO <sub>4</sub> L A	ICAA C.
Invoice To	Camille Bryant Plains All Am	erican		Quote #	:			60						1				AH the se	0.	
Sampler S	ignature:	Circle One Semi-Annua	Event: Daily al Annual	Weekly N/A	Month	nly Q	uartely	ample s by 82	BTEX									Sample Run PAH Only If	A Matrix Type GW Ground Water S Sc WW Waste Water W W DW Drinking Water A Ai	il/Sediment/Solid
Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers											Hold Sa (CALL ) on Highest TPH	SW Surface Water O Oi OW Ocean/Sea Water T Tit PL Product-Liquid U Ur PS Product-Solid B Bio SL Sludge Other	ine
								# Cont	Lab Onl	y:							_		REMARK	(S
_1	MW-2	2.14.14	11:15	GW			3		Х											
2	MW-3	2-14/4	10:50	GW			3		Х											
3	MW-4	2.14.14	09:30	GW			3		Х								1	1		
4	MW-5	21414	09:50	GW			3		Х								1			
5	MW-6	2.14.14	10:30	GW			3		Х						1	-				
6	MW-7	2.14.14	10:10	GW			3		X											
_7			6																	
8							÷			1										
9	}				-					-										
0																				
	. Program / Clean-up Std		for Certs &		QA	VQC I	Level	& Certifica	tion		EDDs		COC &	Labels	(	Coolers	Temp °	011	Lab Use Only	YES NO N/A
CTLs TRR Other:	P DW NPDES LPST DryCln	FL TX GA N AL NM Othe			1 <u>2</u> NELAC	3 4 DoD-	CLP ELAP	AFCEE QAP Other:		ADaPT XLS Othe		RPIMS		ncomplete Unclear	1	2	3	1.1.1	Non-Conformances found?	_×_
1	Relinquisted by		Affiliati			Date				Re		by .		ation	Da	atę	1	me	Samples intact upon arrival? Received on Wet Ice?	×
2	mp engin		Basin 6	57	2-1	4-1	4	3:40		VII	ion	Lo	MS	)	211	44	3:1	40	Labeled with proper preservatives? Received within holding time?	××
3					_		$\rightarrow$			Dijc	nM		tero	20-35	2/13	HIY	18:0	00	Custody seals intact? VOCs rec'd w/o headspace? Proper containers used?	×
4																			pH verified-acceptable, excl VOCs? Received on time to meet HTs?	×
B&A Labo	pratories: Hobbs 575-392-7550	Dallas 214	-902-0300	Housto	n 281	-242-	-4200	Odessa	432-56	3-1800	San An	tonio 2	210-509-	3334 P	hoenix	602-43	7-0330		C.O.C. Serial #	

300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330 FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full. Revision Date: Nov 12, 2009



### XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: PLAINS ALL AMERICAN EH&S

Date/ Time Received: 02/14/2014 03:40:00 PM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 479540

Temperature Measuring device used :

Sample Receipt Checklis	t	Comments
#1 *Temperature of cooler(s)?	18.1	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6 *Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of Custody?	Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquished/ received?	Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of Custody?	Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	Yes	
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	No	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes	

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

( July Charles Ruriko Konuma

Date: 02/18/2014

Checklist reviewed by:

ms roam . Kelsey Brooks

Date: 02/18/2014

# Analytical Report 485068

# for PLAINS ALL AMERICAN EH&S

Project Manager: Ben Arguijo

DCP PLANT TO LEA STATION 6" #2

#### SRS #2009-039

#### 16-MAY-14

Collected By: Client





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054) New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)





16-MAY-14

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

#### Reference: XENCO Report No(s): **485068 DCP PLANT TO LEA STATION 6'' #2** Project Address: NM

#### Ben Arguijo:

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(s) 485068. 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. The uncertainty of measurement associated with the results of analysis reported is available upon request. 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. 485068 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.

Ams Boah

 

 Kelsey Brooks

 Project Manager

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# Sample Cross Reference 485068



### 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	05-08-14 08:30		485068-001
MW-3	W	05-08-14 09:00		485068-002
MW-4	W	05-08-14 09:30		485068-003
MW-5	W	05-08-14 10:30		485068-004
MW-6	W	05-08-14 11:30		485068-005
MW-7	W	05-08-14 12:30		485068-006



### CASE NARRATIVE



Client Name: PLAINS ALL AMERICAN EH&S Project Name: DCP PLANT TO LEA STATION 6'' #2

 Project ID:
 SRS #2009-039

 Work Order Number(s):
 485068

Report Date:16-MAY-14Date Received:05/09/2014

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Project Id: SRS #2009-039 Contact: Ben Arguijo

Project Location: NM

**Certificate of Analysis Summary 485068** PLAINS ALL AMERICAN EH&S, Midland, TX Project Name: DCP PLANT TO LEA STATION 6'' #2



Date Received in Lab: Fri May-09-14 03:30 pm

Report Date: 16-MAY-14

							1					
							Project Ma	mager:	Kelsey Brook	S		
Lab Id:	485068-0	001	485068-0	002	485068-	003	485068-	004	485068-0	005	485068-	006
Field Id:	MW-2	2	MW-3	3	MW-4	4	MW-:	5	MW-6	5	MW-	7
Depth:												
Matrix:	WATE	R	WATE	R	WATE	R	WATE	R	WATE	R	WATE	ĒR
Sampled:	May-08-14	08:30	May-08-14	09:00	May-08-14	09:30	May-08-14	10:30	May-08-14	11:30	May-08-14	12:30
Extracted:	May-15-14	16:00	May-15-14	16:00	May-15-14	16:00	May-15-14	16:00	May-15-14	16:00	May-15-14	16:00
Analyzed:	May-15-14	21:44	May-15-14	22:00	May-15-14	22:17	May-16-14	13:47	May-16-14	13:14	May-15-14	23:06
Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
	ND	0.00100	ND	0.00100	0.00364	0.00100	0.895	0.00500	0.00131	0.00100	ND	0.00100
	ND	0.00200	ND	0.00200	ND	0.00200	0.0262	0.0100	ND	0.00200	ND	0.00200
	ND	0.00100	ND	0.00100	ND	0.00100	0.00895	0.00500	ND	0.00100	ND	0.00100
	ND	0.00200	ND	0.00200	ND	0.00200	0.0172	0.0100	ND	0.00200	ND	0.00200
	ND	0.00100	ND	0.00100	ND	0.00100	0.00630	0.00500	ND	0.00100	ND	0.00100
	ND	0.00100	ND	0.00100	ND	0.00100	0.0235	0.00500	ND	0.00100	ND	0.00100
	ND	0.00100	ND	0.00100	0.00364	0.00100	0.954	0.00500	0.00131	0.00100	ND	0.00100
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed:	Field Id:     MW-2       Depth:        Matrix:     WATE       Sampled:     May-08-14       Extracted:     May-15-14       Analyzed:     May-15-14       Units/RL:     mg/L       ND     ND       ND     ND       ND     ND	Field Id:     MW-2       Depth:     WATER       Matrix:     WATER       Sampled:     May-08-14       Sampled:     May-08-14       Extracted:     May-15-14       Analyzed:     May-15-14       Units/RL:     mg/L     RL       ND     0.00100       ND     0.00200       ND     0.00100       ND     0.00100	Field Id:         MW-2         MW-3           Depth:           MW-3           Matrix:         WATER         WATE           Sampled:         May-08-14 08:30         May-08-14           Extracted:         May-15-14 16:00         May-15-14           Analyzed:         May-15-14 21:44         May-15-14           Units/RL:         mg/L         RL         mg/L           ND         0.00100         ND           ND         0.00100         ND	Field Id:         MW-2         MW-3           Depth:              Matrix:         WATER         WATER         WATER           Sampled:         May-08-14 08:30         May-08-14 09:00            Extracted:         May-15-14 16:00         May-15-14 16:00         May-15-14 16:00           Malyzed:         May-15-14 21:44         May-15-14 22:00            Units/RL:         mg/L         RL         mg/L         RL           ND         0.00100         ND         0.00100         0.00100           Image:         ND         0.00100         ND         0.00100           Image:         ND         0.00100         ND         0.00100           Image:         ND         0.00100         ND         0.00100	Field Id:         MW-2         MW-3         MW-4           Depth:	Field Id:       MW-2       MW-3       MW-4         Depth:       Matrix:       WATER       WATER       WATER       WATER         Sampled:       May-08-14 08:30       May-08-14 09:00       May-08-14 09:30       May-08-14 09:30         Extracted:       May-15-14 16:00       May-15-14 16:00       May-15-14 16:00       May-15-14 16:00       May-15-14 16:00         Manalyzed:       May-15-14 21:44       May-15-14 22:00       May-15-14 22:17       May-15-14 22:17         Units/RL:       mg/L       RL       mg/L       RL       mg/L       RL         ND       0.00100       ND       0.00100       ND       0.00200       ND       0.00200         ND       0.00100       ND       0.00100       ND       0.00100       ND       0.00100         ND       0.00100       ND       0.00100       ND       0.00100       ND       0.00100	Lab Id:       485068-001       485068-002       485068-003       485068-003         Field Id:       MW-2       MW-3       MW-4       MW-3         Depth:       Matrix:       WATER       WATER       WATER       WATER       WATER         Sampled:       May-08-14 08:30       May-08-14 09:00       May-08-14 09:30       May-08-14       May-08-14         Extracted:       May-15-14 16:00       May-15-14 16:00       May-15-14 16:00       May-15-14 16:00       May-15-14         Matrix:       mg/L       RL       mg/L       RL       mg/L       May-15-14         May-08-14 08:30       May-08-14 09:00       May-08-14 09:30       May-08-14       May-08-14         Extracted:       May-15-14 16:00       May-15-14 16:00       May-15-14 16:00       May-15-14         May-15-14 21:44       May-15-14 22:00       May-15-14 22:17       May-16-14         Units/RL:       mg/L       RL       mg/L       mg/L       mg/L         ND       0.00100       ND       0.00100       0.00200       0.0262         ND       0.00200       ND       0.00200       ND       0.00200       0.0172         ND       0.00100       ND       0.00100       ND       0.00100	Lab Id:         485068-001         485068-002         485068-003         485068-004           Field Id:         MW-2         MW-3         MW-4         MW-5           Depth:         Matrix:         WATER         WATER         WATER         WATER         WATER           Sampled:         May-08-14 08:30         May-08-14 09:00         May-08-14 09:30         May-08-14 10:30           Extracted:         May-15-14 16:00         May-16-14 13:47           Units/RL:         mg/L         RL         mg/L         RL         mg/L         RL         mg/L         RL           ND         0.00100         ND         0.00100         ND         0.00200         ND         0.00200         0.0220         0.0262         0.00500           ND         0.00200         ND         0.00100         ND         0.00100         ND         0.00200         ND         0.00200         0.00200         0.00202         0.0172         0.00500           MD         0.00100         ND         0.00100         ND         0.00100         ND         0.00500		Lab Id:         485068-001         485068-002         485068-003         485068-004         485068-005           Field Id:         MW-2         MW-3         MW-3         MW-4         MW-5         MW-6           Depth:         Matrix:         WATER         WATER         WATER         WATER         WATER         WATER         May-08-14 09:30         May-08-14 10:30         May-08-14 11:30           Extracted:         May-15-14 16:00         May-15-14 16:00         May-15-14 16:00         May-15-14 16:00         May-15-14 16:00         May-16-14 13:47         May-16-14 13:14           Units/RL:         mg/L         RL         mg/L         RL         mg/L         RL         mg/L         RL           ND         0.00100         ND         0.00100         0.00364         0.00100         0.0895         0.00500         0.00131         0.00100           ND         0.00100         ND         0.00100         ND         0.00100         ND         0.00200         ND         0.00200           May-10-14         ND         0.00100         ND         0.00100         ND         0.00100         ND         0.00100         ND         0.00100           May-15-14         May-15-14         May-15-14         May-15-14	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

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.

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Huns Roah

Kelsey Brooks Project Manager



Project Id: SRS #2009-039 Contact: Ben Arguijo

Project Location: NM

### **Certificate of Analysis Summary 485068** PLAINS ALL AMERICAN EH&S, Midland, TX Project Name: DCP PLANT TO LEA STATION 6'' #2



Date Received in Lab: Fri May-09-14 03:30 pm

Report Date: 16-MAY-14

roject Location: NM							
			1	1	Project Manager:	Kelsey Brooks	
	Lab Id:	485068-001	485068-002	485068-003	485068-004	485068-005	485068-006
Anglusia Degregated	Field Id:	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
Analysis Requested	Depth:						
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	Sampled:	May-08-14 08:30	May-08-14 09:00	May-08-14 09:30	May-08-14 10:30	May-08-14 11:30	May-08-14 12:30
PAHs by GCMS SIM	Extracted:				May-12-14 15:09	May-12-14 15:12	May-12-14 15:15
SUB: E871002	Analyzed:				May-13-14 17:00	May-13-14 17:18	May-13-14 17:36
	Units/RL:				mg/L RL	mg/L RL	mg/L RL
Acenaphthene					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Acenaphthylene					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Anthracene					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Benzo(a)anthracene					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Benzo(a)pyrene					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Benzo(b)fluoranthene					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Benzo(g,h,i)perylene					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Benzo(k)fluoranthene					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Chrysene					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Dibenz(a,h)anthracene					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Dibenzofuran					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Fluoranthene					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Fluorene					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Indeno(1,2,3-c,d)Pyrene					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Naphthalene					ND 0.00050		ND 0.000500
Phenanthrene					ND 0.000050	0 ND 0.0000500	ND 0.0000500
Pyrene					ND 0.000050	0 ND 0.0000500	ND 0.0000500

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.

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Kms Boah

Kelsey Brooks Project Manager

Final 1.000



# **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 affect the recovery of the spike concentration. This condition could also affect 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 quantitation limit and above the detection limit.
- 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.
- \*\* Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
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(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Phone



Work Orders : Lab Batch #: 9408		8, <b>Sample:</b> 485068-004 / SMP	Batc		SRS #2009- Water	-039	
Units: mg/l		Date Analyzed: 05/13/14 17:00		RROGATE R	-	STUDY	
	PAHs	s by GCMS SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Nitrobenzene-d5			0.702	1.00	70	35-114	
2-Fluorobiphenyl			0.662	1.00	66	43-116	
Terphenyl-D14			0.746	1.00	75	33-141	
Lab Batch #: 9408	365	Sample: 485068-005 / SMP	Batc	h: 1 Matrix	: Water	I	
U <b>nits:</b> mg/l	L	Date Analyzed: 05/13/14 17:18	st	RROGATE R	ECOVERY S	STUDY	
	PAHs	s by GCMS SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Nitrobenzene-d5			0.780	1.00	78	35-114	
2-Fluorobiphenyl			0.702	1.00	70	43-116	
Terphenyl-D14			0.811	1.00	81	33-141	
Lab Batch #: 9408	865	Sample: 485068-006 / SMP	Batc	h: 1 Matrix	Water	1	
U <b>nits:</b> mg/l	L	Date Analyzed: 05/13/14 17:36	st	RROGATE R	ECOVERY S	STUDY	
	PAHs	s by GCMS SIM	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
Nitrobenzene-d5			0.778	1.00	78	35-114	
2-Fluorobiphenyl			0.729	1.00	73	43-116	
Terphenyl-D14	1 / 0	Complex 495079 001 / CMD	0.819	1.00	82	33-141	
Lab Batch #: 9411		Sample: 485068-001 / SMP	Batc		: Water		
U <b>nits:</b> mg/l	L.	Date Analyzed: 05/15/14 21:44	st	<b>RROGATE R</b>	ECOVERY	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene			0.0270	0.0300	90	80-120	
4-Bromofluorobenze	ne		0.0289	0.0300	96	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



work Or Lab Batch	<b>ders :</b> 48506 #: 941148	Sample: 485068-002 / SMP	Batcl		: SRS #2009- : Water	-0.57						
Units:	mg/L	Date Analyzed: 05/15/14 22:00	SURROGATE RECOVERY STUDY									
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1.4-Difluoro	benzene	Anarytes	0.0283	0.0300	94	80-120						
4-Bromoflu			0.0293	0.0300	98	80-120						
Lab Batch		Sample: 485068-003 / SMP										
Units:	mg/L	Date Analyzed: 05/15/14 22:17		RROGATE R	ECOVERY S	STUDY						
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1.4-Difluoro	benzene	Analytes	0.0267	0.0300	89	80-120						
4-Bromoflu			0.0306	0.0300	102	80-120						
Lab Batch		Sample: 485068-006 / SMP	Batcl		: Water	00 120						
Units:	mg/L	<b>Date Analyzed:</b> 05/15/14 23:06		RROGATE R		STUDY						
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1,4-Difluoro	honzono	Analytes	0.0249	0.0200		00.120						
4-Bromoflu			0.0248	0.0300	83	80-120						
Lab Batch		Sample: 485068-005 / SMP	0.0289	0.0300 h: 1 Matrix	96 • Water	80-120						
Units:	mg/L	<b>Date Analyzed:</b> 05/16/14 13:14	Batch: 1 Matrix: Water SURROGATE RECOVERY STUDY									
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1,4-Difluoro	obenzene		0.0263	0.0300	88	80-120						
4-Bromoflu			0.0291	0.0300	97	80-120						
Lab Batch	#: 941148	Sample: 485068-004 / SMP	Batch	h: 1 Matrix	: Water	1						
Units:	mg/L	Date Analyzed: 05/16/14 13:47	SU	RROGATE R	ECOVERY	STUDY						
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1,4-Difluoro	obenzene		0.0310	0.0300	103	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



Work Or Lab Batch	<b>ders :</b> 4850 #: 940865	68, <b>Sample:</b> 655248-1-BLK / B	LK Bate		: SRS #2009- : Water	039	
Units:	mg/L	<b>Date Analyzed:</b> 05/13/14 15:32		JRROGATE R		STUDY	
	PAH	Is by GCMS SIM	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Nitrobenzen		Analytes	0.788	1.00	79	35-114	
2-Fluorobip			0.788	1.00	79	43-116	
Terphenyl-E	•		0.720	1.00	83	43-110 33-141	
Lab Batch		Sample: 655595-1-BLK / B			: Water	55-141	
Units:		Date Analyzed: 05/15/14 20:05					
Juits:	mg/L	Date Analyzed: 03/13/14 20:03	st	JRROGATE R	ECOVERYS	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	benzene		0.0263	0.0300	88	80-120	
4-Bromoflue	orobenzene		0.0282	0.0300	94	80-120	
Lab Batch	#: 940865	Sample: 655248-1-BKS / B			: Water		
U <b>nits:</b>	mg/L	Date Analyzed: 05/13/14 15:50	SU	JRROGATE R	ECOVERY	STUDY	
	PAH	Is by GCMS SIM	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes	[ <sup>2</sup> ¥]	[10]	[D]	/ <b>U</b> K	
Nitrobenzen	ie-d5		0.818	1.00	82	35-114	
2-Fluorobip	henyl		0.785	1.00	79	43-116	
Terphenyl-D	<b>D</b> 14		0.824	1.00	82	33-141	
Lab Batch	#: 941148	Sample: 655595-1-BKS / B	KS Bate	h: 1 Matrix	: Water	1 1	
U <b>nits:</b>	mg/L	Date Analyzed: 05/15/14 20:21	SU	JRROGATE R	ECOVERY	STUDY	
	BTE	CX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro	benzene		0.0278	0.0300	93	80-120	
4-Bromoflue	orobenzene		0.0332	0.0300	111	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



	r <b>ders :</b> 48506 #: 940865	58, Sample: 655248-1-BSD / BS	SD Batcl		SRS #2009- Water	039			
Units:	mg/L	<b>Date Analyzed:</b> 05/13/14 16:08		RROGATE R	-	STUDY			
	PAH	s by GCMS SIM	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
Nitrobenzer	ne-d5		0.812	1.00	81	35-114			
2-Fluorobip	bhenyl		0.771	1.00	77	43-116			
Terphenyl-l	D14		0.837	1.00	84	33-141			
Lab Batch	<b>#:</b> 941148	Sample: 655595-1-BSD / B	SD Batcl	h: 1 Matrix	: Water				
Units:	mg/L	Date Analyzed: 05/15/14 20:38	8 SURROGATE RECOVERY STUDY						
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluor	obenzene		0.0284	0.0300	95	80-120			
4-Bromoflu	orobenzene		0.0340	0.0300	113	80-120			
Lab Batch	#: 941148	Sample: 485068-001 S / MS	Batel	h: 1 Matrix	: Water				
Units:	mg/L	Date Analyzed: 05/15/14 20:54	SU	RROGATE R	ECOVERY	STUDY			
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluor	obenzene		0.0288	0.0300	96	80-120			
4-Bromoflu	orobenzene		0.0347	0.0300	116	80-120			
Lab Batch	#: 941148	Sample: 485068-001 SD / M	ISD Batc	h: 1 Matrix	: Water				
Units:	mg/L	Date Analyzed: 05/15/14 21:11	SU	RROGATE R	ECOVERY	STUDY			
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluor			0.0285	0.0300	95	80-120			
4-Bromoflu	orobenzene		0.0345	0.0300	115	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



# **BS / BSD Recoveries**



### Project Name: DCP PLANT TO LEA STATION 6" #2

Work Order #: 485068							Pro	ject ID:	SRS #2009-	-039	
Analyst: ARM	I	Date Prepa	red: 05/15/201	4			Date A	nalyzed: (	05/15/2014		
Lab Batch ID: 941148Sa	mple: 655595-1-BKS	Batc	<b>h #:</b> 1					Matrix: V	Water		
Units: mg/L		BLAN	K /BLANK	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOV	ERY STUD	ΟY	
BTEX by EPA 802	IB 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	<0.00100	0.100	0.103	103	0.100	0.106	106	3	70-125	25	
Toluene	<0.00200	0.100	0.104	104	0.100	0.106	106	2	70-125	25	
Ethylbenzene	<0.00100	0.100	0.111	111	0.100	0.114	114	3	71-129	25	
m,p-Xylenes	< 0.00200	0.200	0.229	115	0.200	0.235	118	3	70-131	25	
o-Xylene	< 0.00100	0.100	0.115	115	0.100	0.118	118	3	71-133	25	

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



### **BS / BSD Recoveries**



### Project Name: DCP PLANT TO LEA STATION 6" #2

						Proj	ect ID:	SRS #2009	-039	
D	ate Prepar	ed: 05/12/201	4			Date A	nalyzed: (	05/13/2014		
BKS	Batch	n#: 1					Matrix: V	Water		
	BLAN	K/BLANK S	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUI	ЭY	
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
<0.0000500	0.00100	0.000777	78	0.00100	0.000764	76	2	57-90	25	
< 0.0000500	0.00100	0.000780	78	0.00100	0.000763	76	2	47-95	25	
< 0.0000500	0.00100	0.000807	81	0.00100	0.000803	80	0	56-90	25	
< 0.0000500	0.00100	0.000828	83	0.00100	0.000840	84	1	51-100	25	
< 0.0000500	0.00100	0.000803	80	0.00100	0.000807	81	0	49-97	25	
< 0.0000500	0.00100	0.000844	84	0.00100	0.000832	83	1	41-114	25	
< 0.0000500	0.00100	0.000798	80	0.00100	0.000792	79	1	51-105	25	
< 0.0000500	0.00100	0.000731	73	0.00100	0.000746	75	2	54-103	25	
< 0.0000500	0.00100	0.000843	84	0.00100	0.000850	85	1	60-101	25	
< 0.0000500	0.00100	0.000827	83	0.00100	0.000824	82	0	50-109	25	
< 0.0000500	0.00100	0.000856	86	0.00100	0.000843	84	2	55-91	25	
< 0.0000500	0.00100	0.000811	81	0.00100	0.000802	80	1	58-93	25	
< 0.0000500	0.00100	0.000773	77	0.00100	0.000762	76	1	58-93	25	
< 0.0000500	0.00100	0.000825	83	0.00100	0.000827	83	0	52-108	25	
< 0.000500	0.00100	0.000761	76	0.00100	0.000766	77	1	51-100	25	
< 0.0000500	0.00100	0.000832	83	0.00100	0.000823	82	1	43-97	25	
< 0.0000500	0.00100	0.000801	80	0.00100	0.000825	83	3	51-95	25	
	BKS           Blank           Sample Result           [A]   <	BKS         Batcl           BLAN         BLAN           Blank         Spike           Added         [A]           [A]         [B]           <0.0000500	BKS         Batch #: 1           BLANK /BLANK S           Blank Sample Result [A]         Spike Added         Blank Spike Result [C]           <0.0000500	Blank Sample Result [A]         Spike Added [B]         Blank Spike Result [C]         Blank Spike %R [D]           <0.0000500	BKS         Batch #: 1           Blank         Spike         Blank         Spike         Blank         Spike         Added         Image: Spike         Spike	BKS         Batch #: 1           Blank         Spike         Spike         Blank         Spike         Spike         Spike         Spike         Spike         Spike         Spike         Spike         Spike	Bate Prepared:         05/12/2014         Date A           BKS         Batch #: 1         1           BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE           Blank sample Result [A]         Spike Added         Blank Spike Result [C]         Spike ND         Blank Spike (C]         Spike ND         Blank Spike ND         Spike ND         Spi	Date Preparet:         05/12/2014         Date Analyzed:         Oate Analyz	Bate Prepared:         0.5/12/2014         Date Analyzed:         0.5/13/2014           BKS         Batch #:         1         Matrix:         Watrix:         Watrix:           Blank         Spike         Blank         Spike         Blank         Spike         Blank         Spike         Blank         Spike         Control Limits           8         Maded         Spike         Blank         Spike         Spike         Spike         Blank         Spike         Control Limits         Spike         Control Limits         Spike         Spike         Spike         Spike         Spike         Control Limits         Spike         Spike	BKS         Batch #: 1         Matrix: Watr           BLANK /BLANK SPIKE / BLANK SPIKE DUPL/CATE         RECOVERY STUDY           Blank Sample Result [A]         Spike Result [B]         Blank Spike Result [C]         Spike [D]         Blank Spike [E]         Spike Result [F]         Blank Spike Result [F]         Blank Spike (G)         Spike Result [F]         Blank Spike (G)         Spike Result [F]         Blank Spike Result [F]         Blank S

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



### Form 3 - MS / MSD Recoveries



#### Project Name: DCP PLANT TO LEA STATION 6" #2

Work Order # :	485068						Project II	): SRS #2	2009-039			
Lab Batch ID:	941148	QC- Sample ID:	485068	3-001 S	Ba	tch #:	1 Matrix	: Water				
Date Analyzed:	05/15/2014	Date Prepared:	05/15/2	2014	An	alyst: A	ARM					
<b>Reporting Units:</b>	mg/L		Ν	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA'	TE REC	OVERY	STUDY		
]	BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene		<0.00100	0.100	0.105	105	0.100	0.111	111	6	70-125	25	
Toluene		<0.00200	0.100	0.106	106	0.100	0.112	112	6	70-125	25	
Ethylbenzene		< 0.00100	0.100	0.114	114	0.100	0.119	119	4	71-129	25	
m,p-Xylenes		< 0.00200	0.200	0.234	117	0.200	0.245	123	5	70-131	25	
o-Xylene		< 0.00100	0.100	0.117	117	0.100	0.123	123	5	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 Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



### **XENCO** Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: PLAINS ALL AMERICAN EH&S

Date/ Time Received: 05/09/2014 03:30:00 PM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 485068

**Temperature Measuring device used :** Comments Sample Receipt Checklist

#1 *Temperature of cooler(s)?	11
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	No

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 05/09/2014

Checklist completed by: Kelsey Brooks Checklist reviewed by: Kelsey Brooks Kelsey Brooks

Date: 05/09/2014

# Analytical Report 491033

# for PLAINS ALL AMERICAN EH&S

Project Manager: Ben Arguijo

DCP Plant to Lea Station 6' #2

2009-039

18-AUG-14

Collected By: Client





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054) New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

> Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





18-AUG-14

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

Reference: XENCO Report No(s): **491033 DCP Plant to Lea Station 6' #2** Project Address: Lea County, NM

#### Ben Arguijo:

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(s) 491033. 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. The uncertainty of measurement associated with the results of analysis reported is available upon request. 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. 491033 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.

Kms Boah

 

 Kelsey Brooks

 Project Manager

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# Sample Cross Reference 491033



### 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	08-05-14 11:15		491033-001
MW-3	W	08-05-14 11:45		491033-002
MW-4	W	08-05-14 12:05		491033-003
MW-5	W	08-05-14 12:15		491033-004
MW-6	W	08-05-14 10:15		491033-005
MW-7	W	08-05-14 10:10		491033-006



### CASE NARRATIVE



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

 Project ID:
 2009-039

 Work Order Number(s):
 491033

Report Date:18-AUG-14Date Received:08/07/2014

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Project Id: 2009-039 Contact: Ben Arguijo Project Location: Lea County, NM

### Certificate of Analysis Summary 491033

PLAINS ALL AMERICAN EH&S, Midland, TX

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



Date Received in Lab: Thu Aug-07-14 11:21 am

Report Date: 18-AUG-14

								Project Ma	nager:	Kelsey Brook	CS		
	Lab Id:	491033-	001	491033-002		491033-003		491033-004		491033-005		491033-006	
Analysis Requested	Field Id:	MW-2	2	MW-3	3	MW-4	4	MW-3	5	MW-	6	MW-	-7
Analysis Kequestea	Depth:												
	Matrix:	WATE	R	WATE	R	WATE	R	WATE	R	WATE	R	WATE	ER
	Sampled:	Aug-05-14	05-14 11:15 Aug-0		11:45	Aug-05-14	12:05	Aug-05-14 12:15		Aug-05-14	10:15	Aug-05-14 10:10	
BTEX by EPA 8021B	Extracted:	Aug-15-14	17:00	Aug-15-14	17:00	Aug-15-14	17:00	Aug-15-14	17:00	Aug-15-14	17:00	Aug-15-14	17:00
	Analyzed:	Aug-15-14	23:03	Aug-15-14	23:52	Aug-16-14	00:09	Aug-16-14	16:21	Aug-16-14	00:25	Aug-16-14	4 00:42
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		ND	0.00100	ND	0.00100	ND	0.00100	3.41	0.0200	0.00189	0.00100	ND	0.00100
Toluene		ND	0.00200	ND	0.00200	ND	0.00200	0.0902	0.0400	0.00636	0.00200	ND	0.00200
Ethylbenzene		ND	0.00100	ND	0.00100	ND	0.00100	0.0708	0.0200	ND	0.00100	ND	0.00100
m_p-Xylenes		ND	0.00200	ND	0.00200	ND	0.00200	0.0508	0.0400	ND	0.00200	ND	0.00200
o-Xylene		ND	0.00100	ND	0.00100	ND	0.00100	ND	0.0200	ND	0.00100	ND	0.00100
Total Xylenes		ND	0.00100	ND	0.00100	ND	0.00100	0.0508	0.0200	ND	0.00100	ND	0.00100
Total BTEX		ND	0.00100	ND	0.00100	ND	0.00100	3.62	0.0200	0.00825	0.00100	ND	0.00100

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.

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Huns Boah

Kelsey Brooks Project Manager



# **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 affect the recovery of the spike concentration. This condition could also affect 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 quantitation limit and above the detection limit.
- 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.
- \*\* Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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2505 North Falkenburg Rd, Tampa, FL 33619
12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
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(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



# Form 2 - Surrogate Recoveries Project Name: DCP Plant to Lea Station 6' #2

Lab Batch #	lers: 49103 : 948384	Sample: 491033-001 / SMP	Batc	Project ID h: 1 Matrix	Water			
Units:	mg/L	Date Analyzed: 08/15/14 23:03	SU	RROGATE R	ECOVERY	STUDY		
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag	
		Analytes			[D]			
1,4-Difluorob	enzene		0.0312	0.0300	104	80-120		
4-Bromofluoi	obenzene		0.0275	0.0300	92	80-120		
Lab Batch #	: 948384	Sample: 491033-002 / SMP	Batc	h: 1 Matrix	: Water			
Units:	mg/L	Date Analyzed: 08/15/14 23:52	SU	RROGATE R	ECOVERY S	STUDY		
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag	
1,4-Difluorob	0007000	Analytes	0.0319	0.0200		80.120		
4-Bromofluor			0.0319	0.0300	106 91	80-120 80-120		
Lab Batch #		Sample: 491033-003 / SMP	Batc		Water	80-120		
Units:	mg/L	Date Analyzed: 08/16/14 00:09						
Omts.	IIIg/L	Date Analyzed: 00/10/14 00:09	SU	STUDY				
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage	
		Analytes			[D]			
1,4-Difluorob	enzene		0.0295	0.0300	98	80-120		
4-Bromofluor			0.0265	0.0300	88	80-120		
Lab Batch #	: 948384	Sample: 491033-005 / SMP	Batc	h: 1 Matrix	: Water			
Units:	mg/L	Date Analyzed: 08/16/14 00:25	SU	RROGATE R	ECOVERY	STUDY		
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag	
1,4-Difluorob	enzene		0.0294	0.0300	98	80-120		
4-Bromofluor			0.0266	0.0300	89	80-120		
Lab Batch #		Sample: 491033-006 / SMP	Batc		: Water			
Units:	mg/L	<b>Date Analyzed:</b> 08/16/14 00:42		RROGATE R		STUDY		
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag	
1,4-Difluorob	enzene	<i>u</i> · · · ·	0.0298	0.0300	99	80-120		
,			0.02/0	0.0000	1 11	00 120		

\* 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



# Form 2 - Surrogate Recoveries Project Name: DCP Plant to Lea Station 6' #2

WORK OR Lab Batch	<b>ders :</b> 49103 #: 948384	Sample: 491033-004 / SMP	Batc	Project ID h: 1 Matrix	: 2009-039 :: Water		
Units:	mg/L	Date Analyzed: 08/16/14 16:21	su	JRROGATE R	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1,4-Difluoro	obenzene		0.0305	0.0300	102	80-120	
4-Bromoflue	orobenzene		0.0250	0.0300	83	80-120	
Lab Batch	#: 948384	Sample: 660133-1-BLK / BL	K Batc	h: 1 Matrix	Water	<u>.</u>	
Units:	mg/L	Date Analyzed: 08/15/14 21:24	SU	JRROGATE R	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1,4-Difluoro	honzono	Analytes	0.0200	0.0200		00.120	
4-Bromoflue			0.0300	0.0300	100	80-120	
Lab Batch		Sample: 660133-1-BKS / BK	0.0261	0.0300	87	80-120	
Lab Batch Units:		-					
Units:	mg/L	Date Analyzed: 08/15/14 21:40	SU	JRROGATE R	ECOVERYS	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1,4-Difluoro	obenzene		0.0299	0.0300	100	80-120	
4-Bromoflue			0.0297	0.0300	99	80-120	
Lab Batch	#: 948384	Sample: 660133-1-BSD / BS	D Batc	h: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 08/15/14 21:57	SU	JRROGATE R	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1,4-Difluoro	benzene		0.0299	0.0300	100	80-120	
4-Bromoflue	orobenzene		0.0298	0.0300	99	80-120	
Lab Batch	#: 948384	Sample: 491033-001 S / MS	Batc	h: 1 Matrix	Water	1	
Units:	mg/L	Date Analyzed: 08/15/14 22:13	SU	JRROGATE R	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1,4-Difluoro	benzene	· · · · · · · · · · · · · · · · · · ·	0.0301	0.0300	100	80-120	
, , , Dinuolo	o chilene		0.0501	0.0500	100	00-120	

\* 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



# Form 2 - Surrogate Recoveries Project Name: DCP Plant to Lea Station 6' #2

	rders: 49103 n#: 948384	3, Sample: 491033-001 SD / N	Project ID: 2009-039 MSD Batch: 1 Matrix: Water										
Units:	mg/L	Date Analyzed: 08/15/14 22:30	22:30 SURROGATE RECOVERY STUDY Amount True Control										
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1,4-Difluor	robenzene		0.0308	0.0300	103	80-120							
4-Bromoflu	uorobenzene		0.0307	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



### **BS / BSD Recoveries**



#### **Project Name: DCP Plant to Lea Station 6' #2**

Work Order #: 491033							Proj	ject ID:	2009-039					
Analyst: ARM	D	ate Prepar	red: 08/15/201	4		<b>Date Analyzed:</b> 08/15/2014								
Lab Batch ID: 948384         Sample: 660133-1-E	BKS	Bate	<b>h #:</b> 1					Matrix: \	Water					
Units: mg/L	BLANK /BLANK SPIKE / BLANK SPIKE DUPI							PLICATE 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	<0.00100	0.100	0.104	104	0.100	0.104	104	0	70-125	25				
Toluene	<0.00200	0.100	0.103	103	0.100	0.103	103	0	70-125	25				
Ethylbenzene	< 0.00100	0.100	0.110	110	0.100	0.109	109	1	71-129	25				
m_p-Xylenes	< 0.00200	0.200	0.215	108	0.200	0.212	106	1	70-131	25				
o-Xylene	< 0.00100	0.100	0.104	104	0.100	0.103	103	1	71-133	25				

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



### Form 3 - MS / MSD Recoveries

# SUP ACCREDUE

#### **Project Name: DCP Plant to Lea Station 6' #2**

Work Order # :	491033						Project II	<b>):</b> 2009-0	39			
Lab Batch ID:	948384	QC- Sample ID:	491033-	-001 S	Ba	tch #:	1 Matrix	: Water				
Date Analyzed:	08/15/2014	Date Prepared:	08/15/2	014	An	alyst: A	ARM					
<b>Reporting Units:</b>	mg/L	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
]	BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene		< 0.00100	0.100	0.104	104	0.100	0.110	110	6	70-125	25	
Toluene		< 0.00200	0.100	0.103	103	0.100	0.109	109	6	70-125	25	
Ethylbenzene		< 0.00100	0.100	0.108	108	0.100	0.116	116	7	71-129	25	
m_p-Xylenes		< 0.00200	0.200	0.211	106	0.200	0.227	114	7	70-131	25	
o-Xylene		< 0.00100	0.100	0.102	102	0.100	0.109	109	7	71-133	25	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/BRelative Percent Difference RPD = 200\*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery  $[G] = 100^{*}(F-A)/E$ 

	Houston: 4143 Greenbri Hobbs: 4008 N Grimes			1)240-4200							432)563-1	800		Pag W.O # illable H		of_1 40	103	33	* Container Type Codes VA Vial Amber ES Encore Sampler VC Vial Clear TS TerraCore Sampler VP Vial Pre-preserved AC Air Canister GA Glass Amber TB Tedlar Bag GC Glass Clear ZB Zip Lock Bag PA Plastic Amber PC Plastic Clear
Compa	ny: Basin Environmental Service Tec	hnologies, LL	.C	Phone:	(575)3	96-237	78	TAT Wo	ork Day	s=D	Need r	esults b				Tim	e:		PC Plastic Clear Other
Addres	3100 Plains Hwy.			Fax:	(575)3	96-142	29	(	Std (5-	7D) 5H	s 1D 2	2D 3D	4D <u>5D</u>	<u>7D</u> 100	0 14D	Other_			Size(s): 2oz, 4oz, 8oz, 16oz, 32oz , 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other
City:	Lovington		State: NM	Zip:	88260			(			AN	ALYSE	ES RE	QUES	TED				** Preservative Type Codes
PM/Attr	: Ben Arguijo		Email:	cjbryant@ bjarguijo@				Cont Type * VC	VP	GA									A. None E. HCL I. Ice
Project	ID: DCP Plant to Lea Station 6" #2 SRS #2009-039			PO#:	PAA-C	. Bryant	t	Pres Type** E, I	E,I										B. HNO <sub>3</sub> F. MeOH J. MCAA C. H <sub>2</sub> SO <sub>4</sub> G. Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K. ZnAc&NaOH D. NaOH H. NaHSO <sub>4</sub> L Asbc Acid&NaOH
Invoice	To: Camille Bryant Plains All Am	nerican		Quote #:				560										e n PAH Only If	^ Matrix Type Codes
Sample	Signature:		Event: Daily al Annual	Weekly N/A	Monthl	y Qua	rtely	s by 82	BTEX	P/AB-					e.			Sampl Ru H	GW Ground Water S Soil/Sediment/Solid
Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N) Total # of	containers	Example Volatiles by 8260	В									Hold Si (CALL) on Highest TPH	PL Product-Liquid U Urine PS Product-Solid B Blood
Sa								# Cont	Lab Only	<i>r</i> :									REMARKS
1	MW-2	8-5-14	11:15	GW			3		Х					_			1	14	
2	MW-3	8.5.14	11:45	GW			3		Х	_				—	_				
3	MW-4	8.5.14	12:05	GW			3		Х		_			_					
4	MW-5	85.14	12:15	GW		3	4		Х										
5	MW-6	8.5-14	10:15	GW		3	4		Х				_						
6	MW-7	8.5.14	10:10	GW		3	4		Х		_						1		
7		1			-								-			-			
8																			
9						-													
0		_								_									
	Reg. Program / Clean-up Std	STATE	for Certs 8	Regs				& Certifica			EDDs		COC 8	Labels		Coolers	Temp °	°C	Lab Use Only YES NO N/A
CTLs Other:	TRRP DW NPDES LPST DryCln	FL TX GA AL NM Ot	NC SC NJ P her:	A OK LA		3 4 DoD-E		AFCEE QAI Other:	PP	ADaPT XLS Othe	SEDD E	ERPIMS	Match I Absent	ncomplete Unclear	1	2	3 7	3.0	Non-Conformances found? Samples intact upon arrival?
	Relinquished by		Affilia			Date		Tim			eceived			ation	D	ate	1 S	ime	Received on Wet Ice?
1	Duly Softa		Basin E	nuiron.	0-1	5-14	7	4:3	O pin	Ker	RIO		Vei		21-	114	4!	38	Received within holding time? Custody seals intact?
3	/						$\rightarrow$			HML .	KIU	5	Xe	IW	8	114	1.	$\sim$	VOCs rec'd w/o headspace?
4									_					_					pH verified-acceptable, excl VOCs? Received on time to meet HTs?
	aboratories: Hobbs 575-392-75	Dallas 2	14 002 030	Houst	00 28	1.242	4200	0 Odessa	132-5	3-1800	San A	ntonio	210-509	2224 0	hoonix	602 42	7 0220		C.O.C. Serial #

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330 FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.



### **XENCO** Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: PLAINS ALL AMERICAN EH&S

#2 \*Shipping container in good condition?

Date/ Time Received: 08/07/2014 11:21:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 491033

#1 \*Temperature of cooler(s)?

Temperature Measu	ring device used :
Sample Receipt Checklist	Comments
1	l
Ye	es
Ye	es

#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	No

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Mrs. Hoak Kelsey Brooks

Date: 08/07/2014

Checklist reviewed by:

Date:

# Analytical Report 497003

# for PLAINS ALL AMERICAN EH&S

Project Manager: Ben Arguijo

**DCP PLant to Lea Station 6'' #2** 

#### SRS#2009-039

#### 17-NOV-14

Collected By: Client





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054) New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

> Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





17-NOV-14

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

Reference: XENCO Report No(s): 497003 DCP PLant to Lea Station 6'' #2 Project Address: Lea County, NM

#### Ben Arguijo:

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(s) 497003. 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. The uncertainty of measurement associated with the results of analysis reported is available upon request. 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. 497003 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.

Kms Boah

 

 Kelsey Brooks

 Project Manager

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# Sample Cross Reference 497003



### PLAINS ALL AMERICAN EH&S, Midland, TX

DCP PLant to Lea Station 6" #2

Matrix	Date Collected	Sample Depth	Lab Sample Id
W	11-07-14 13:00		497003-001
W	11-07-14 11:40		497003-002
W	11-07-14 11:00		497003-003
W	11-07-14 13:05		497003-005
W	11-07-14 13:30		497003-006
W	11-07-14 10:10		Not Analyzed
	W W W W	W         11-07-14 13:00           W         11-07-14 11:40           W         11-07-14 11:00           W         11-07-14 13:05           W         11-07-14 13:30	W       11-07-14 13:00         W       11-07-14 11:40         W       11-07-14 11:00         W       11-07-14 13:05         W       11-07-14 13:30



### CASE NARRATIVE



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

Project ID: SRS#2009-039 Work Order Number(s): 497003 Report Date: *17-NOV-14* Date Received: *11/12/2014* 

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Project Id: SRS#2009-039 Contact: Ben Arguijo Project Location: Lea County, NM

### Certificate of Analysis Summary 497003

PLAINS ALL AMERICAN EH&S, Midland, TX

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



Date Received in Lab: Wed Nov-12-14 01:55 pm

Report Date: 17-NOV-14

								Project Ma	nager:	Kelsey Brook	S	
	Lab Id:	497003-001	497003-001		497003-002		497003-003		005	497003-006		
Analysis Requested	Field Id:	MW-2		MW-3		MW-4		MW-6		MW-7		
Anulysis Kequesieu	Depth:											
	Matrix:	WATER		WATER		WATER		WATER		WATER		
	Sampled:	Nov-07-14 13:0	Nov-07-14 13:00		Nov-07-14 11:40		Nov-07-14 11:00		Nov-07-14 13:05		13:30	
BTEX by EPA 8021	Extracted:	Nov-12-14 15:00		Nov-12-14 15:00		Nov-12-14 15:00		Nov-12-14 15:00		Nov-12-14 15:00		
	Analyzed:	Nov-12-14 23:	Nov-12-14 23:04		Nov-12-14 23:20		Nov-12-14 23:36		23:53	Nov-13-14 00:09		
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	
Benzene		ND 0.0	00100	ND	0.00100	0.00114	0.00100	0.00417	0.00100	ND	0.00100	
Toluene		ND 0.0	00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	
Ethylbenzene		ND 0.0	00100	ND	0.00100	ND	0.00100	ND	0.00100	ND	0.00100	
m_p-Xylenes		ND 0.0	00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	
o-Xylene		ND 0.0	00100	ND	0.00100	ND	0.00100	ND	0.00100	ND	0.00100	
Xylenes, Total		ND 0.0	00100	ND	0.00100	ND	0.00100	ND	0.00100	ND	0.00100	
Total BTEX		ND 0.0	00100	ND	0.00100	0.00114	0.00100	0.00417	0.00100	ND	0.00100	

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.

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Huns Roah

Kelsey Brooks Project Manager


## **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 affect the recovery of the spike concentration. This condition could also affect 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 quantitation limit and above the detection limit.
- 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.
- \*\* Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection		
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation		

- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	

Final 1.000



Work Ord Lab Batch #:		Sample: 497003-001 / SMP	Batcl		: SRS#2009-0 : Water	557	
Units:	mg/L	Date Analyzed: 11/12/14 23:04		RROGATE R		STUDY	
	BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorobe	n70n0	Analytes	0.0297	0.0300		80-120	
4-Bromofluoro			0.0297	0.0300	99	80-120	
Lab Batch #:		Sample: 497003-002 / SMP	Batcl		: Water	80-120	
Lab Daten #. Units:	mg/L	Date Analyzed: 11/12/14 23:20		RROGATE R		STUDV	
	6		50				
	BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobe	enzene		0.0308	0.0300	103	80-120	
4-Bromofluoro	obenzene		0.0293	0.0300	98	80-120	
Lab Batch #:	955234	Sample: 497003-003 / SMP	Batcl	n: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 11/12/14 23:36	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobe	n70n0	Analytes	0.0288	0.0200		90.120	
4-Bromofluoro			0.0288	0.0300	96	80-120	
Lab Batch #:		Sample: 497003-005 / SMP	0.0286 Batcl		Water	80-120	
Lab Daten #. Units:	mg/L	Date Analyzed: 11/12/14 23:53		RROGATE R		TUDV	
	g 2			1			
	BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobe	enzene		0.0301	0.0300	100	80-120	
4-Bromofluoro	obenzene		0.0297	0.0300	99	80-120	
Lab Batch #:	955234	Sample: 497003-006 / SMP	Batcl	n: 1 Matrix	: Water	·	
Units:	mg/L	Date Analyzed: 11/13/14 00:09	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobe	enzene		0.0294	0.0300	98	80-120	
	obenzene		0.0287	0.0300	96	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



<b>.</b>	(T	Sample: 664359-1-BLK / B									
Units:	mg/L	<b>Date Analyzed:</b> 11/12/14 17:23	SU	RROGATE R	ECOVERY	STUDY					
	BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage				
		Analytes			[D]						
1,4-Difluorol			0.0295	0.0300	98	80-120					
4-Bromofluo		0 L ((4250 L DK0 / D	0.0292	0.0300	97	80-120					
Lab Batch #		Sample: 664359-1-BKS / B			: Water						
Units:	mg/L	<b>Date Analyzed:</b> 11/12/14 17:40	SU	RROGATE R	ECOVERY	STUDY					
	BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1,4-Difluorol	oenzene		0.0305	0.0300	102	80-120					
4-Bromofluo			0.0322	0.0300	107	80-120					
Lab Batch #		Sample: 664359-1-BSD / B			: Water						
Units:	mg/L	Date Analyzed: 11/12/14 17:56		RROGATE R	ECOVERY	STUDY					
	BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
		Analytes	[-]	L= 1	[D]	,					
1,4-Difluorol	benzene		0.0306	0.0300	102	80-120					
4-Bromofluo	robenzene		0.0319	0.0300	106	80-120					
Lab Batch #	<b>:</b> 955234	Sample: 496966-001 S / MS	AS Batch: 1 Matrix: Water								
Units:	mg/L	Date Analyzed: 11/12/14 18:12	SU	RROGATE R	ECOVERY	STUDY					
	BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1,4-Difluorol	benzene		0.0307	0.0300	102	80-120					
4-Bromofluo	robenzene		0.0317	0.0300	106	80-120					
Lab Batch #	<b>:</b> 955234	Sample: 496966-001 SD / N	ASD Bate	h: 1 Matrix	: Water	1					
Units:	mg/L	Date Analyzed: 11/12/14 18:29	SU	RROGATE R	ECOVERY	STUDY					
	BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage				
				1							
1.4-Difluorol	oenzene		0.0307	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



## **BS / BSD Recoveries**



#### **Project Name: DCP PLant to Lea Station 6'' #2**

Work Order #: 497003, 497003							Proj	ject ID:	SRS#2009-	039		
Analyst: ARM	D	ate Prepar	red: 11/12/201	4			Date A	nalyzed:	<b>1:</b> 11/12/2014			
Lab Batch ID: 955234 Sample: 664359-1-E	BKS Batch #: 1							Matrix: \	Water			
Units: mg/L		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RE							OVERY 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	<0.00100	0.100	0.0852	85	0.100	0.0858	86	1	70-125	25		
Toluene	< 0.00200	0.100	0.0921	92	0.100	0.0932	93	1	70-125	25		
Ethylbenzene	< 0.00100	0.100	0.0991	99	0.100	0.0996	100	1	71-129	25		
m_p-Xylenes	< 0.00200	0.200	0.205	103	0.200	0.205	103	0	70-131	25		
o-Xylene	< 0.00100	0.100	0.0966	97	0.100	0.0969	97	0	71-133	25		

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



## Form 3 - MS / MSD Recoveries

## TNI PACCREOLE

#### **Project Name: DCP PLant to Lea Station 6'' #2**

Work Order # :	497003						Project II	<b>):</b> SRS#2	009-039			
Lab Batch ID:	955234	C- Sample ID:	496966	-001 S	Ba	tch #:	1 Matrix	K: Water				
Date Analyzed:	11/12/2014	Date Prepared:	11/12/2	014	An	alyst: A	ARM					
<b>Reporting Units:</b>	mg/L		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	BTEX by EPA 8021	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene		<0.00100	0.100	0.0883	88	0.100	0.0870	87	1	70-125	25	
Toluene		<0.00200	0.100	0.0956	96	0.100	0.0941	94	2	70-125	25	
Ethylbenzene		<0.00100	0.100	0.103	103	0.100	0.101	101	2	71-129	25	
m_p-Xylenes		<0.00200	0.200	0.212	106	0.200	0.208	104	2	70-131	25	
o-Xylene		<0.00100	0.100	0.0983	98	0.100	0.0973	97	1	71-133	25	

Matrix Spike Percent Recovery  $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference RPD =  $200^{\circ}|(C-F)/(C+F)|$  Matrix Spike Duplicate Percent Recovery  $[G] = 100^{*}(F-A)/E$ 

	Houston: 4143 Greenbrian	Dr. Stafford	CHAI								(400)500	4000		Pa	age_1	_of_1	_			Encore Sampler
Enviror	Hobbs: 4008 N Grimes H mental Asbestas Radiochemistry	obbs, NM 882	240 (575)392-7	550	o des	5d. 12	500 996	est 1-20 East	Odessa,	1X /9/65	(432)563	1800		W.O i billable		40	7700	13	VP Vial Pre-preserved AC A GA Glass Amber TB T GC Glass Clear ZB 2	FerraCore Sampler Air Canister Tedlar Bag Zip Lock Bag
	pany: Basin Environmental Service Tech	nologies, LL	С	Phone:	(575)	396-2	378	TAT W	ork Da	s=D	Need	results				Tir	ne:		PA Plastic Amber PC PC Plastic Clear Other	Plastic Clear
	ress: 3100 Plains Hwy.			Fax:	(575)	396-14	429		Std (5-	7D) 5H				7D 10	)D 140	O Other	52		Size(s): 2oz, 4oz, 8oz, 16oz, 32oz 40ml, 125 ml, 250 ml, 500 ml, 1L	: , 1Gal
City:	Edvington		State: NM	Zip:	8826	0				/			ES RE						** Preservative Ty	
PM/	Ben Arguijo		Email:	cjbryant@ bjarguijo@				Cont Type*	VP	GA			1						A. None E. HCL I. Ic	
	ect ID: DCP Plant to Lea Station 6" #2 SRS #2009-039			PO#:	PAA-(	C. Brya	nt	Pres Type** E, I	E,I	- 1-									B. HNO <sub>3</sub> F. MeOH J. M H <sub>2</sub> SO <sub>4</sub> G. Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K. ZnAc D. NaOH H. NaHSO <sub>4</sub> L A	ICAA ( c&NaOH
	ce To: Camille Bryant Plains All Ame	rican		Quote #	:			260										le in PAH	Matrix Type	Codes
Sam	pler Signature: D. Saxton	Circle One Semi-Annua	Event: Daily I Annual	Weekly N/A	Month	ly Qu	artely	ample as by 8	BTEX									Samp	GW Ground Water S So WW Waste Water W Wi DW Drinking Water A Air	pil/Sediment/Solid ipe
Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	Example Volatiles by 8260	Ē									ALL_)	OW Ocean/Sea Water T Tis PL Product-Liquid U Uri PS Product-Solid B Blo	ine
Sa						50	<u>ë ö</u>	# Cont	Lab Only	<i>r</i> :			1					0.8	Other	10
1	MW-2	11/7/14	1300	GW			3		Х	_			1		1	1	1			
2	MW-3	11/7/14	1140	GW			3		X											
3		11/7/14	1100	GW			3		X											
4	MW-5	11/7/14	1010	GW			3		Х							1				
5	MW-6	11/7/14	1305	GW			3		Х											
6	MW-7	11/7/14	1330	GW			3		Х					e.						
7																				
8		- C.																		
9																				
_0																				
	Reg. Program / Clean-up Std	STATE	for Certs &	Regs	QA	/QC L	.evel	& Certifica	ition		EDDs	1	COC &	Labels		Coolers	Temp °		Lab Use Only	YES NO N/A
CTLs Other:		FL TX GA N AL NM Othe	C SC NJ PA	OK LA	1 <u>2</u> NELAC			AFCEE QAP		ADaPT XLS Othe		ERPIMS	Match I	ncomplete	1	2	.1	4.07	Non-Conformances found?	
	Relinquished by		Affiliati	on		Date		Time			ceived	by	Absent Affilia	Unclear ation		∠ ate		ime	Samples intact upon arrival? Received on Wet Ice?	
1	O. Saxton		Basin		11/7	7/19	1	1700		1	the		Bugis	n Env.	1 7	1,4		.00	Labeled with proper preservatives? Received within holding time?	
2	11/2 A		basink	EnV.	11/11	114	,	1130		<u>for</u>	Ble	kay.	0 1	Siw	1 100	1-14		1:30	Custody seals intact? VOCs rec'd w/o headspace?	
3	Blakm		BASIN	V	14	1-10	4	12:5	5	phyle	ale:	sends	MC	5	11-1	11-14	12.	22'	Proper containers used? pH verified-acceptable, excl VOCs?	
4	Laboratories: Hobbs 575-392-7550									M	TIO	Б	XPM	W	11/10	2114	[3]	55	Received on time to meet HTs?	

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330 FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

C.O.C. Serial #

Final 1.000

Page 11 of 12

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.



#### **XENCO Laboratories** Prelogin/Nonconformance Report- Sample Log-In



Client: PLAINS ALL AMERICAN EH&S

Date/ Time Received: 11/12/2014 01:55:00 PM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 497003

**Temperature Measuring device used :** 

Sample Receipt Checkli	st	Comments
#1 *Temperature of cooler(s)?	1	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	No	
#5 Custody Seals intact on sample bottles?	No	
#6 *Custody Seals Signed and dated?	No	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of Custody?	Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquished/ received?	Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of Custody?	Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	Yes	
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	No	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	Yes	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	No	

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 11/12/2014

 Checklist completed by:
 Mmg Moah

 Kelsey Brooks
 Kelsey Brooks

 Checklist reviewed by:
 Mmg Moah

 Kelsey Brooks
 Kelsey Brooks

Date: 11/12/2014

## Analytical Report 497685

## for PLAINS ALL AMERICAN EH&S

Project Manager: Ben Arguijo

DCP PLant to Lea Station 6" #2

#### SRS#2009-039

#### 01-DEC-14

Collected By: Client





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054) New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

> Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





01-DEC-14

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

Reference: XENCO Report No(s): 497685 DCP PLant to Lea Station 6'' #2 Project Address: Lea County, NM

#### Ben Arguijo:

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(s) 497685. 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. The uncertainty of measurement associated with the results of analysis reported is available upon request. 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. 497685 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.

Kms Boah

 

 Kelsey Brooks

 Project Manager

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## Sample Cross Reference 497685



## 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-5	W	11-19-14 14:50		497685-001



## CASE NARRATIVE



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

Project ID: SRS#2009-039 Work Order Number(s): 497685 
 Report Date:
 01-DEC-14

 Date Received:
 11/22/2014

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Project Id: SRS#2009-039 Contact: Ben Arguijo Project Location: Lea County, NM

## Certificate of Analysis Summary 497685

PLAINS ALL AMERICAN EH&S, Midland, TX

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



Date Received in Lab: Sat Nov-22-14 10:45 am

**Report Date:** 01-DEC-14

Project Manager: Kelsey Brooks

	Lab Id:	497685-0	01			
Analysis Requested	Field Id:	MW-5				
Analysis Kequestea	Depth:					
	Matrix:	WATEI	λ			
	Sampled:	Nov-19-14	14:50			
BTEX by EPA 8021	Extracted:	Nov-24-14	11:00			
	Analyzed:	Nov-25-14	07:31			
	Units/RL:	mg/L	RL			
Benzene		5.11	0.0250			
Toluene		0.391	0.0500			
Ethylbenzene		0.239	0.0250			
m_p-Xylenes		0.119	0.0500			
o-Xylene		0.0678	0.0250			
Xylenes, Total		0.187	0.0250			
Total BTEX		5.93	0.0250			

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.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Huns Roah

Kelsey Brooks Project Manager

Page 5 of 11



## **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 affect the recovery of the spike concentration. This condition could also affect 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 quantitation limit and above the detection limit.
- 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.
- \*\* Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection		
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation		

- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Final 1.000



WORK ORC Lab Batch #	lers: 49768 : 956072	5, Sample: 497685-001 / SMP	Batch		: SRS#2009-0 : Water	727	
Units:	mg/L	Date Analyzed: 11/25/14 07:31	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorob	enzene		0.0287	0.0300	96	80-120	
4-Bromofluor	obenzene		0.0282	0.0300	94	80-120	
Lab Batch #	: 956072	Sample: 664874-1-BLK / BL	K Batcl	h: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 11/24/14 13:53	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
140.01		Analytes	0.0000	0.0200		00.100	
1,4-Difluorob			0.0298	0.0300	99	80-120	
4-Bromofluor		9 (C4074-1 DVS / DV	0.0284	0.0300	95	80-120	
Lab Batch #		Sample: 664874-1-BKS / BK			: Water		
Units:	mg/L	Date Analyzed: 11/24/14 14:09	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorob	enzene		0.0301	0.0300	100	80-120	
4-Bromofluor	robenzene		0.0305	0.0300	102	80-120	
Lab Batch #	: 956072	<b>Sample:</b> 664874-1-BSD / BSI	D Batcl	h: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 11/24/14 14:25	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorob			0.0305	0.0300	102	80-120	
4-Bromofluor			0.0310	0.0300	103	80-120	
Lab Batch #		Sample: 497630-001 S / MS	Batch		: Water		
Units:	mg/L	Date Analyzed: 11/24/14 14:41	SU	<b>RROGATE R</b>	ECOVERY S	STUDY	
	BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		v					
1,4-Difluorob	enzene		0.0309	0.0300	103	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



<b>Work Orders :</b> 4976 <b>Lab Batch #:</b> 956072 <b>Units:</b> mg/L	Sample: 497630-001 SD / N			Water		
Units: mg/L	Date Analyzed: 11/24/14 14:58	SU	RROGATE RE	ECOVERY S	STUDY	
BT	EX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0313	0.0300	104	80-120	
4-Bromofluorobenzene		0.0314	0.0300	105	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



## **BS / BSD Recoveries**



#### **Project Name: DCP PLant to Lea Station 6'' #2**

Work Order #: 497685							Proj	ject ID:	SRS#2009-	039	
Analyst: ARM	D	ate Prepar	ed: 11/24/201	4			Date A	nalyzed:	11/24/2014		
Lab Batch ID: 956072         Sample: 664874-1-1	BKS	Bate	<b>h #:</b> 1					Matrix: \	Water		
Units: mg/L		BLAN	K /BLANK S	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
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	< 0.00100	0.100	0.0882	88	0.100	0.0885	89	0	70-125	25	
Toluene	< 0.00200	0.100	0.0949	95	0.100	0.0950	95	0	70-125	25	
Ethylbenzene	< 0.00100	0.100	0.0999	100	0.100	0.100	100	0	71-129	25	
m_p-Xylenes	< 0.00200	0.200	0.205	103	0.200	0.206	103	0	70-131	25	
o-Xylene	< 0.00100	0.100	0.0956	96	0.100	0.0964	96	1	71-133	25	

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



## Form 3 - MS / MSD Recoveries



#### **Project Name: DCP PLant to Lea Station 6'' #2**

Work Order # :	497685						Project II	<b>):</b> SRS#2	009-039			
Lab Batch ID:	956072	QC- Sample ID:	497630	-001 S	Ba	tch #:	1 Matrix	: Water				
Date Analyzed:	11/24/2014	Date Prepared:	11/24/2	014	An	alyst: A	ARM					
<b>Reporting Units:</b>	mg/L		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA'	TE REC	OVERYS	STUDY		
	BTEX by EPA 8021	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene		<0.00100	0.100	0.0902	90	0.100	0.0866	87	4	70-125	25	
Toluene		<0.00200	0.100	0.0980	98	0.100	0.0931	93	5	70-125	25	
Ethylbenzene		< 0.00100	0.100	0.106	106	0.100	0.0992	99	7	71-129	25	
m_p-Xylenes		< 0.00200	0.200	0.217	109	0.200	0.204	102	6	70-131	25	
o-Xylene		< 0.00100	0.100	0.100	100	0.100	0.0952	95	5	71-133	25	

Matrix Spike Percent Recovery  $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference RPD =  $200^{\circ}|(C-F)/(C+F)|$  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 Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Labo Wironmental	Houston: 4143 Gree Houston: 4143 Gree Hobbs: 4008 N Grin		010)002	81)240-420	00 Od	essa: 12	2600 W	DY R	ECC Odessa	<b>TX 7976</b>	5 (432)56	63-1800		в W.(		_of	1_ 971	685	Kontainer Type (     VA Vial Amber ES Encor VC Vial Clear TS Terra VP Vial Pre-preserved AC Air Ca GA Glass Amber TB Tedlar	e Sampler Core Samp nister Bag
ompany:	Basin Environmental Service	Technologies, Ll	LC	Phone	: (57	5)396-2	378	TAT M	lork De				Fiel	d billab	e Hrs :		10	$\mathcal{O}^{\omega}$	GC Glass Clear ZB Zip Lo PA Plastic Amber PC Plasti	ck Bag
ddress:	3100 Plains Hwy.			Fax:	25	5)396-1-		TAT W							_	T	ime: 🔄		PC Plastic Clear Other	
ity:	Lovington		State: NM	Zip:	882	60	122134112		Std (5	5-7D) 5	Hrs 10	) 2D 3	D 4D (5	<u>5D 7D</u>	10D 14	D Othe	ər		Size(s): 2oz, 4oz, 8oz, 16oz, 32oz , 1Ga 40ml, 125 ml, 250 ml, 500 ml, 1L, Othe	al er
M/Attn:	Ben Arguijo		Email:	cjbryant	@paalp.	.com,		Cont Type *	-			NALY	SES F	REQUI	STED				** Preservative Type	Code
oject ID:	DCP Plant to Lea Station 6" #2 SRS #2009-039	2		PO#:		env.com -C. Brya		VC Pres Type**	VP	GA				_		_			A. None E. HCL I. Ice B. HNO <sub>3</sub> F. MeOH J. MCAA	
voice To:	Camille Bryant Plains All	American		Quote #	<i>‡</i> :			E, I	E,I					_		_		_	H <sub>2</sub> SO <sub>4</sub> G. Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K. ZnAc&Na D. NaOH H. NaHSO <sub>4</sub> L Asbc A O.	OH kcid&NaO
mpler <del>Şi</del>	Paley Saxton	Circle One Semi-Annua	Event: Daily I Annual	Weekly N/A	Mont	hly Qu	artely	mple by 826	ВТЕХ									Sample Run PAH	GW Ground Water S Soil/Sedi	
	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	Example Volatiles by 8260					1					Hold Sa (CALL)	DW Drinking Water A Air SW Surface Water O Oil OW Ocean/Sea Water T Tissue PL Product-Liquid U Urine PS Product-Solid B Blood	
1	MW-5	11/19/14	1450	CW/				# Cont	Lab Only	/:									REMARKS	
2		11/10/14	1430	GW			3		Х										Resample	
3							-					-							1	
4				-						-										
5							+												-	
3										-										
7																				
3																				
Deel																				
TRRP	Program / Clean-up Std DW NPDES LPST DryCln	STATE fo	or Certs & R					Certificati			EDDs		COC &	Labels	С	oolers	Temp °(	c	Lab Use Only YES	NO N/A
	Relinquished by	AL NM Other:	Affiliation	N		DoD-EL/	LP AF AP Ot		1000	DaPT S			Match I Absent	ncomplete Unclear			3	1	Non-Conformances found?	
D	Santen		Bosiner		and the second second	1.14				Red	ceived I	by	Affilia	ation	Da	te	Tir	ne F	Samples intact upon arrival?	
4			BASIN ENV	1.	11/2	1/14			· .	AS.	RA	lat	Ba-	nlent.	11/19, [FZ1	114	170	U R	Received with proper preservatives?	
DE	black und		L	/	11-2	1-14			1	1a:1	Ser	ices	1Xe		1-21			P	OCs rec'd w/o headspace?	
Labora	tories: Hobbs 575-392-7550 Centers: Atlanta 770-449-8	Delles Office	00.00						E	5/c.1	Ma	sting	Xe				10:45		H verified-acceptable, excl VOCs? eceived on time to meet HTs?	

akeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099 1x 002-437-0330

C.O.C. Serial #

Final 1.000

Page 11 of 11

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full. *Revision Date: Nov 12, 2009* 

# 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 9000 Rio Brazos Road, Aztec, NM 87410 District IV 220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Name of Company       Plains Pipeline, IP       Contact       Jason Henry         Address       2530 Hwy 214 - Denver City, Tx 79323       Telephone No. (575) 441-1099         Facility Name       DCP Plant to Les Station 6-inch #2       Facility Type         Surface Owner NM SLO       Mineral Owner       Loc ATION OF RELEASE       Usr'd Facility Type         Unit Letter       Township       Range       Feet from the       North/South Line       Feet from the       Loc ATION OF RELEASE       Usr'd Facility Type         Unit Letter       Township       Range       Feet from the       North/South Line       Feet from the       Dark facility Name         Source of Release       6 'Steel Pipeline       Date and Hour of Occurrence       02122009       Date and Hour of Occurrence       02122009       Date and Hour of Discovery         Was Immediate Notice Given?       Yes I No       Not Required       Lary Obinson (revised release volume on 0255009(0)       Date and Hour of 0255009(0)       Date and Hou						OPERA'	TOR		Initia	al Report		Final Repo
Address       2330 Hwy 214 - Denver City, Tx 79233       Telephone No. (375) 441-1099         Facility Name       DCP Plant to Lea Station 6-inch #2       Facility Type       Pipeline         Surface Owner NM SLO       Immeral Owner       Lease No. 30: 00 5 - 00 / 20 / 20 / 20 / 20 / 20 / 20 / 20	Name of Company	Plains Pipel	ine, LP	******						1	Brought	
Surface Owner NM SLO       Mineral Owner       Lease No. 30-05 5-06/282         Unit Letter       Section       Township       Range       Control NOF RELEASE       Dark Flacting         Unit Letter       Section       Township       Range       Feet from the       North/South Line       Peet from the       East/West Line       County         Latitude N 32.5316667° Longitude W 103.2911111°       NATURE OF RELEASE       Volume of Release 25 bbis       Date and Hour of Discovery       Matersourse       <	Address			nver City, Tx 79				1099				
LOCATION OF RELEASE       Use of Factory         Unit Letter       Section       Township       Range       Feet from the       North/South Line       Feet from the       East/West Line       County         Latitude N 32.5316667*       Longitude W 103.2911111*       NATURE OF RELEASE       Dotte and Hour of Discovery       Date and Hour of Occurrence       Date and Hour of Discovery       02122009       Discovery       Discovery <td>Facility Name</td> <td>DCP Plant to</td> <td>o Lea Sta</td> <td>ation 6-inch #2</td> <td>F</td> <td>Facility Typ</td> <td>e Pipeline</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Facility Name	DCP Plant to	o Lea Sta	ation 6-inch #2	F	Facility Typ	e Pipeline					
Unit Letter       Section       Township       Range       Feet from the       North/South Line       Peet from the       Last/West Line       County         Lastitude       N 32.5316667**       Longitude       W 103.2911111*       Last/West Line       County       Last         Specifies       6*       Steel Pipeline       Date and Hour of Coursence       Date and Hour of Discovery       0/21/22009       12/30         Specifies       6*       Steel Pipeline       Date and Hour of Discovery       0/21/22009       12/30       12/32         By Mhom?       Jassen Henry       Date and Hour of Discovery       0/21/22009       12/30       12/32       0/30       12/32         By Whom?       Jassen Henry       Date and Hour of Discoverse       0/21/22009       12/30       12/32       0/30       12/32       0/30       11       11       11       11       11       11       11       11       11       11       11       11       11       12/32       12/32       12/32       12/32       10/30       12/32       12/32       10/30       12/32       10/30       12/32       10/30       12/32       10/30       12/32       10/30       12/32       10/30       12/32       10/30       12/32       10/30	Surface Owner NM	SLO		Mineral C	)wner				Lease N			
F       208       37E       Les         Latitude N 32.316667° Longitude W 103.2911111°         NATURE OF RELEASE         Type of Release       Crude Oil       Volume Recovered 0 bbis         Source of Release       Crude Oil       Volume Recovered 0 bbis         Was Immediate Notice Given?       Yes       No       Not Required       Volume of Release 25 bbis       Volume Recovered 0 bbis         Was Immediate Notice Given?       Yes       No       Not Required       If Yes To Whon?       Larry Johnson (revised release volume on 0225/2009)         By Whom? Jason Henry       Date and Hour 0725/2009 @14:00       If YES, Volume Impacting the Watercourse.         If a Watercourse was Impacted, Describe Fully.*       RECEIVED         MAR 2 3 2009       MAR 2 3 2009         Describe Cause of Problem and Remedial Action Taken.*       HOBBSOCCU         External corrosion of 6' inch pipeline caused a release of crude oil. A clamp was installed on the pipeline at the release point is approximately 2' bgs. The H2S concentration in the crude is less than 10 pm 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 carify that the information given above is true and complete to the bet of my knowledge and understand that pursuan	,	N		LOCA	TION	OF RE	LEASE			Classist	Fo	21.4
NATURE OF RELEASE         Type of Release       Crude Oil       Volume of Release 25 bbls       Volume Recovered 0 bbls         Source of Release       6' Steel Pipeline       02/12/2009 <td></td> <td></td> <td></td> <td>Feet from the</td> <td>North/:</td> <td>South Line</td> <td>Feet from the</td> <td>East/W</td> <td>est Line</td> <td></td> <td></td> <td></td>				Feet from the	North/:	South Line	Feet from the	East/W	est Line			
Type of Release       Crude Oil       Volume of Release       25 bbls       Volume and Hour of Occurrence (02/12/2009       Date and Hour of Occurrence (02/12/2009       Date and Hour of Discovery (02/12/2009       Discovery (02/12/2009       Discovery (02/12/2009			L					110				
Source of Release       6" Steel Pipeline       Date and Hour of Occurrence (2/12/2009       Date and Hour of Occurrence (2/12/2009       Date and Hour of Discovery (2/12/2009       Date and Hour of Discovery (2/12/2009 </td <td>Cuma of Dalassa C</td> <td>auda Oil</td> <td></td> <td>NAI</td> <td>UKE</td> <td></td> <td></td> <td>- 1</td> <td>Volume</td> <td>ecovered (</td> <td>bble</td> <td></td>	Cuma of Dalassa C	auda Oil		NAI	UKE			- 1	Volume	ecovered (	bble	
Was Immediate Notice Given?       Q2(12/2009       Q2(12/2009       Q2(12/2009       Q2(12/2009)         Was Immediate Notice Given?       If YES, To Whom?       Itary Johnson (revised release volume on Q2/25/2009)       Date and Hour       Q2/22/2009       Q2/12/2009       Q2/12/2029       Q2/12/2029       Q2/12/2009       Q2/12/2009       Q2/12/2009 </td <td>Supervision water and a second second to be a second</td> <td></td> <td></td> <td></td> <td></td> <td>And the second s</td> <td>And a second state and a second state of the second s</td> <td></td> <td>the state of the s</td> <td>testanged was deren spectrum</td> <td>and a second second</td> <td></td>	Supervision water and a second second to be a second					And the second s	And a second state and a second state of the second s		the state of the s	testanged was deren spectrum	and a second	
Yes       No       Not Required       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 a Watercourse was Impacted, Describe Fully.*       RECEIVED         MAR 2 : 2009       MAR 2 : 2009         Describe Cause of Problem and Remedial Action Taken.*       HOBDSOCU         External corrosion of 6° inch pipeline caused a release of crude oil. A clamp was installed on the pipeline at the release. Throughput for the subject line is 660 bbl/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.         1 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 heath or the environment. In addition, NMOCD acceptance of a C-141 report by the NMOCD marked as "Tina Report" does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.         Signature:       Mark 1 Jason Henry       Approved by District Supervisor:		Cristi i politi				02/12/200	9				-	
Was a Watercourse Reached?       Yes Xo         If YES, Volume Impacting the Watercourse.         If a Watercourse was Impacted, Describe Fully.*         MAR 2 3 2009         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. Th 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 release 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 addres water, human health or the environment. The acceptance of a C-141 report does not relieve the operator of liability should their operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.         Signature:       Moon         Printed Name:       Jason Henry         Printed Name:       Jason Henry	Was Immediate Notice		Yes D	No 🗌 Not R	equired			ase volun	ne on 02/2	5/2009)		
Was a Watercourse Reached?       If YES, Volume Impacting the Watercourse.         If a Watercourse was Impacted, Describe Fully.*       RECEIVED         MAR 2 3 2009       MAR 2 3 2009         Describe Cause of Problem and Remedial Action Taken.*       HOBBSOCU         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 upipeline is 45 psi. The depth of the pipeline at the release point is approximately 2' bgs. Th 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.         It 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 opublic health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of inability should their operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.         Signature:       Mannet       Approved by District Supervisor:         Printed Name: Jason Henry       Approved by District Supervisor:         Title: Remediation Coordinator       Expiration Date:         E-mail Address: Jhenry@paalp.com       Conditions of	By Whom? Jason Her	nry		()		Date and I	Hour 02/25/20	09 @ 14:	00			
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:  Must Agproved by District Supervisor:  Printed Name: Jason Henry  Printed Name: Jason Henry  Printed Name: Signal. Conditions of Approval:  Conditions of Approval:  Conditions of Approval:  Approved by District Supervisof:  Altrached  A			Yes D	No		If YES, V	olume Impacting					the second of the second s
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:  Must Agproved by District Supervisor:  Printed Name: Jason Henry  Title: Remediation Coordinator  E-mail Address: jhenry@paalp.com Conditions of Approval:  Approval Date:  Conditions of Approval:  ARP- 2136	f a Watercourse was I	mpacted, Descri	ibe Fully.	*		<u> </u>		RE	CEIV	ED		ang kanang panang panang kanang kanang kanang kanang panang kanang kanang kanang kanang kanang kanang kanang ka
Describe Cause of Problem and Remedial Action Taken.*       HOBBSOCO         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. Th 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 regulations 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:       Juan         Printed Name: Jason Henry       Approved by District Supervisor:         Title: Remediation Coordinator       Conditions of Approval:         L-mail Address: jhenry@paalp.com       Conditions of Approval:         Date: 03/23/2009       Phone: (575								MA	R 232	009		
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 y the NMOCD marked as "final Report" does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Signature: Printed Name: Jason Henry Title: Remediation Coordinator E-mail Address: jhenry@paalp.com Date: 03/23/2009 Phone: (575) 441-1099 Phon												
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Signature:       Denty       OIL CONSERVATION DIVISION         Signature:       Date:       Date:       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:       Attached         Date:       03/23/2009       Phone: (575) 441-1099       A.R.P. 2136	External corrosion of ( abject line is 660 bble 12S concentration in ( Describe Area Affecte	5" inch pipeline s/day and the op he crude is less d and Cleanup /	caused a erating pi than 10 p Action Ta	release of crude of essure of the pipe pm and the gravit ken.*	line is 45 y of the c	5 psi. The de crude is 65.	epth of the pipelin	ine to mit le at the r	igate the release poi	elease. Thro nt is approxi	mately	2' bgs. Th
Approved by District Supervisor:         Printed Name: Jason Henry       Approved by District Supervisor:         Title: Remediation Coordinator       Approval Date:       Expiration Date:         E-mail Address: jhenry@paalp.com       Conditions of Approval:       Attached         Date:       O3/23/2009       Phone: (575) 441-1099       Artached	External corrosion of ( abject line is 660 bble 12S concentration in ( Describe Area Affecte The released crude res hereby certify that the regulations all operato bublic health or the en- should their operation or the environment. In	5" inch pipeline s/day and the op he crude is less d and Cleanup / ulted in a surfac e information g rs are required to vironment. The s have failed to n addition, NMC	caused a erating pi than 10 p Action Ta e stain th iven abov o report a e acceptan adequatel OCD acce	release of crude of essure of the pipe pm and the gravity ken.* . at measured appro- e is true and comp nd/or file certain of ce of a C-141 rep y investigate and	line is 45 y of the o eximately olete to the release no ort by the remediate	7 10' x 12'. he best of my otifications a e NMOCD n e contaminal	pth of the pipelin The impacted are whowledge and and perform corre- narked as "Final I tion that pose a th	a will be understar ective acti Report <sup>a</sup> d great to gr	remediate ad that pur ons for re oes not rel ound wate	elease. Thro nt is approxi d per applica suant to NM leases which lieve the ope r, surface wa	oCD may e rator o ater, hu	idelines. rules and endanger if liability uman health
Printed Name:     Jason Henry     Approval Date:     Expiration Date:       Title:     Remediation Coordinator     Approval Date:     Expiration Date:       E-mail Address:     jhenry@paalp.com     Conditions of Approval:     Attached       Date:     03/23/2009     Phone: (575) 441-1099     ARP-2136	External corrosion of ( aubject line is 660 bble 12S concentration in a Describe Area Affecte The released crude res hereby certify that the regulations all operato public health or the en- should their operation or the environment. In	5" inch pipeline s/day and the op he crude is less d and Cleanup / ulted in a surfac e information g rs are required to vironment. The s have failed to n addition, NMC	caused a erating pi than 10 p Action Ta e stain th iven abov o report a e acceptan adequatel OCD acce	release of crude of essure of the pipe pm and the gravity ken.* . at measured appro- e is true and comp nd/or file certain of ce of a C-141 rep y investigate and	line is 45 y of the o eximately olete to the release no ort by the remediate	7 10' x 12'. he best of my otifications a e NMOCD n e contaminal	with of the pipelin The impacted are with the impacted are and perform corre- narked as "Final 1 tion that pose a the ve the operator of	ine to mit he at the r a will be understar ective acti Report <sup>a</sup> d great to gr f responsi	remediate ad that pur ons for re oes not re ound wate bility for o	elease. Thro nt is approxi d per applica suant to NM leases which lieve the ope r, surface was compliance w	ocD may e may e rator o ater, hu with an	idelines. rules and endanger if liability uman health
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