

AP - 52

**ANNUAL
MONITORING REPORT**

**YEAR(S):
2007**



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C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
2007 ANNUAL GROUNDWATER
MONITORING REPORT
LEA COUNTY, NEW MEXICO
SRS #2002-10250

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March 28, 2008

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C.S. Cayler
2007 Annual Groundwater Monitoring Report

Plains Marketing, L.P.
Houston, Texas

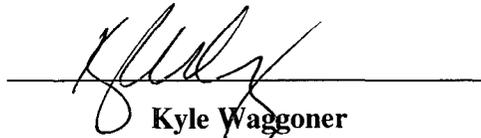
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March 28, 2008

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NMOCD - New Mexico Oil Conservation Division



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2008 APR 1 PM 2 12

March 28, 2008

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

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

Dear Mr. Hansen,

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

CS Caylor	Section 6, Township 17 South, Range 37 East, Lea County
Lovington Deep 6"	Section 6, Township 17 South, Range 36 East, Lea County
Hobbs Junction Mainline	Section 26, Township 18 South, Range 37 East, Lea County
Kimbrough Sweet 8"	Section 3, Township 18 South, Range 37 East, Lea County
8" Moore to Jal #1	Section 16, Township 17 South, Range 37 East, Lea County
8" Moore to Jal #2	Section 16, Township 17 South, Range 37 East, Lea County

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

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

Sincerely,

Camille Reynolds
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

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Figure 3b – PSH Plume & Groundwater Concentration Map (06/26/2007)
Figure 3c – PSH Plume & Groundwater Concentration Map (09/14/2007)
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Appendix D NMOCD C-141

ANNUAL GROUNDWATER MONITORING REPORT

1.0 Introduction

The C.S. Cayler release site is located approximately 7 miles southeast of Lovington, Lea County, New Mexico on property owned by Robert C. Rice. On September 19, 2002, a release of approximately 70 barrels (bbls) occurred from an EOTT Energy Pipeline (EOTT) pipeline at this location. In October 2003, EOTT changed its name to Link Energy, and Plains Pipeline, L.P. (Plains) subsequently purchased the assets of Link Energy on April 1, 2004. Based on available information, no crude oil was initially recovered at the release site. During site reconnaissance, it was observed that the ground surface beyond the current spill area had apparently been impacted by a prior spill or spills; however, the source(s) and date(s) of these spills are unknown.

On February 5, 2007, Talon/LPE was retained by Plains to assume remediation activities at the C.S. Cayler release site. Remediation activities at the site were previously conducted by Environmental Plus, Inc. (EPI).

2.0 Previous Site Investigation/Remediation

Preliminary delineation of the site was initiated by Environmental Plus, Inc., in September 2002, with the advancement of four soil borings. On September 24, 2002, during the advancement of soil boring BH-1, crude oil impacted soil was encountered at the groundwater interface (78 feet below ground surface (bgs)). Soil boring BH-1 was subsequently completed as monitor well MW-1.

Efforts to measure groundwater and PSH levels, and to recover PSH began subsequent to the installation of monitor well MW-1 in September of 2002. PSH recovery was accomplished initially by manual bailing, followed in March of 2003 with the deployment of a portable gasoline powered eductor recovery system designed for continuous operation. In June 2004, an automated electric-powered PSH recovery system was installed and activated.

Impacted soil at the site has been excavated to approximately 7 feet bgs. The rock and soil have been separated and are currently staged on site.

Delineation of groundwater impact at the site began with the installation of groundwater monitor wells MW-2 through MW-5 in May/June 2004 and groundwater monitor wells MW-6 through MW-10 in October 2004. The 2004 groundwater analytical results indicated that the dissolved phase hydrocarbon plume extended laterally beyond the groundwater monitor wells to the north, west, and south. In February of 2006, seven additional groundwater monitor wells, MW-11 through MW-17, were installed to further delineate the lateral extent of groundwater impact at the site. Results from the 2007 gauging and sampling events are discussed in the following sections. A summary of the historical groundwater gauging and PSH recovery data from the C.S. Cayler site is provided as Table 1. Approximately 22,827 gallons (543.5 bbls) of PSH have been recovered to date.

3.0 Groundwater Gradient and PSH Thickness

Based on gauging data collected during 2007, groundwater elevations measured at the site generally varied by two feet to five feet during the course of the calendar year. Additionally, groundwater elevations at the site indicate consistent “mounding” of the potentiometric surface at locations in the central study area, which results in a highly variable apparent groundwater flow direction across the site. The overall groundwater gradient across the site appears to trend generally to the south and east. Based on available data, the groundwater gradient slope is 0.0007 ft/ft.

A portion of the observed “mounding” may be due to an estimated assignment of the specific gravity of crude oil at the site. Groundwater gradient maps are presented as Figures 2a through 2d.

During 2007 gauging events, PSH thickness readings from the monitor wells ranged from “not-present” to a maximum of 9.38 feet (MW-5). Monitor well MW-1 is not deep enough to effectively demonstrate depth to water or PSH thickness measurements. The depth of water is currently deeper than the screened interval at this well. Based on available data, the PSH thickness in monitor wells MW-2 through MW-5 appears stable between the approximate thicknesses of 7 to 9 feet. The PSH thickness readings from monitor wells MW-7 and MW-8 ranged from approximately 6 inches to 4 feet in depth. The PSH-water depth is sometimes deeper than the screened interval, in monitor wells MW-7 and MW-8, resulting in estimated PSH thickness measurements. PSH thickness measurements for selected dates are presented as Figures 3a through 3d.

4.0 PSH Recovery

In November 2007, an automated skimmer recovery system was installed at the site. During 2007, no crude oil recovered from the subsurface was reintroduced into the Plains pipeline system at Lea Station. As of December 31, 2007, the cumulative total of crude oil recovered from the site is approximately 22,827 gallons (543.5 bbls).

5.0 Groundwater Sampling

Groundwater sampling events occurred on April 3, June 13, September 14, and December 3, 2007. During the sampling event conducted on April 3, monitor wells MW-6 and MW-9 through MW-17 were submitted for quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX) using SW-846 Method 8021B, and for quantification of polycyclic-aromatic hydrocarbons (PAH) using EPA/SW-846 Methods 610 and 8270C. For the sampling events conducted on June 13, September 14, and December 3, monitor wells MW-6 and MW-9 through MW-17 samples were submitted for the quantification of BTEX by SW-846 Method 8021B.

Groundwater monitor wells MW-1 through MW-5, MW-7, and MW-8 were not sampled in 2007 due to the presence of PSH.

6.0 Groundwater Analytical Results

Groundwater analytical data from this site was compared to the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards. The following paragraphs provide summaries of the analytical results from each groundwater sampling event of 2007. Analytical results for the four sampling events are summarized in Table 2 (BTEX), Table 3 (PAH) and Figures 3a through 3d. Laboratory data sheets are included as Appendix C.

New Mexico Water Quality Control Commission (NMWQCC) groundwater standards

Compound	mg/L
Benzene	0.010
Toluene	0.750
Ethylbenzene	0.750
Total Xylenes	0.620
PAH's	0.030

April 3, 2007

Analytical results from the March 29, 2007 sampling event indicate that BTEX constituents were detected above the laboratory reporting limits in monitor wells MW-6, MW-9, MW-10, MW-12, MW-13, MW-14, MW-15, MW-16 and MW-17. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in monitor wells MW-6 (0.112 mg/L), MW-9 (0.0186 mg/L), MW-13 (0.0313 mg/L) and MW-16 (0.0665 mg/L). In addition, all BTEX constituent concentrations exceeded NMWQCC groundwater standards in monitor well MW-12 (benzene at 18.4 mg/L, toluene at 4.65 mg/L, ethylbenzene at 1.46 mg/L and total xylenes at 2.455 mg/L). PAH constituents were detected above the NMWQCC groundwater standard of 0.030 mg/L in monitor well MW-12 (naphthalene at 0.091 mg/L).

June 13, 2007

Analytical results from the June 13, 2007 sampling event indicate that BTEX constituents were detected above the laboratory reporting limit in monitor wells MW-6, MW-9, MW-10, MW-12, MW-13, MW-14, MW-15, and MW-16. The BTEX constituent concentrations exceeded NMWQCC groundwater standard in monitor wells MW-6 (benzene at 0.101 mg/L), MW-12 (benzene at 27.6 mg/L, toluene at 4.87 mg/L, ethylbenzene at 1.16 mg/L and total xylenes at 1.05 mg/L), MW-13 (benzene at 0.0122 mg/L) and MW-16 (benzene at 0.0198 mg/L).

September 14, 2007

Analytical results from the September 14, 2007 sampling event indicate that BTEX constituents were detected above the laboratory reporting limit in monitor wells MW-6, MW-9, MW-10, MW-11, MW-12, MW-14, MW-15, and MW-16. These BTEX constituent concentrations exceeded NMWQCC groundwater standard in monitor wells MW-6 (benzene at 0.0968 m/L), MW-12 (benzene at 18.66 mg/L, toluene at 1.490 mg/L, ethylbenzene at

0.7570 mg/L and total xylenes at 1.14 mg/L), MW-15 (benzene at 0.0123 mg/L) and MW-16 (benzene at 0.0240 mg/L).

December 3, 2007

Analytical results from the December 3, 2007 sampling event indicate that BTEX constituents were detected above the laboratory reporting limit in monitor wells MW-6, MW-9, MW-10, MW-11, MW-12, MW-13, MW-15, MW-16, and MW-17. These BTEX constituent concentrations exceeded NMWQCC groundwater standard in monitor wells MW-6 (benzene at 0.1491 m/L), MW-12 (benzene at 24.91 mg/L, toluene at 1.080 mg/L, and total xylenes at 0.9100 mg/L), and MW-16 (benzene at 0.2048 mg/L).

7.0 Recommendations

Based on field monitoring and analytical results collected during 2007, the following activities are recommended for the site:

- 1) Gauge the monitor wells weekly to record water and PSH limits.
- 2) Based on the weekly gauging of monitor wells, add total fluid recovery pumps per the NMOCD request and reconfigure the existing skimmer recovery system to achieve more efficient PSH recovery.
- 3) Monitor wells MW-6 and MW-9 through MW-17 will be sampled and analyzed for BTEX quarterly and PAH annually.
- 4) Monitor wells MW-1 through MW-5, MW-7, and MW-8 will be added to the quarterly sampling/analysis schedule when PSH is no longer present in each well. Pursuant to the request of the NMOCD, Plains will collect a discrete sample below the PSH in the water table from these monitor wells on a yearly basis to evaluate BTEX, TPH, and PAH concentrations in the groundwater.
- 5) One additional monitor well will be installed in March 2008 to address down-gradient delineation of the dissolve-phase plume.
- 6) Plains will implement the NMOCD approved soil backfill plan in 2008.

Appendix A

Drawings

Figure 1 – Site Plan

Figure 2a – Groundwater Gradient Map (04/03/2007)

Figure 2b – Groundwater Gradient Map (06/26/2007)

Figure 2c – Groundwater Gradient Map (09/14/2007)

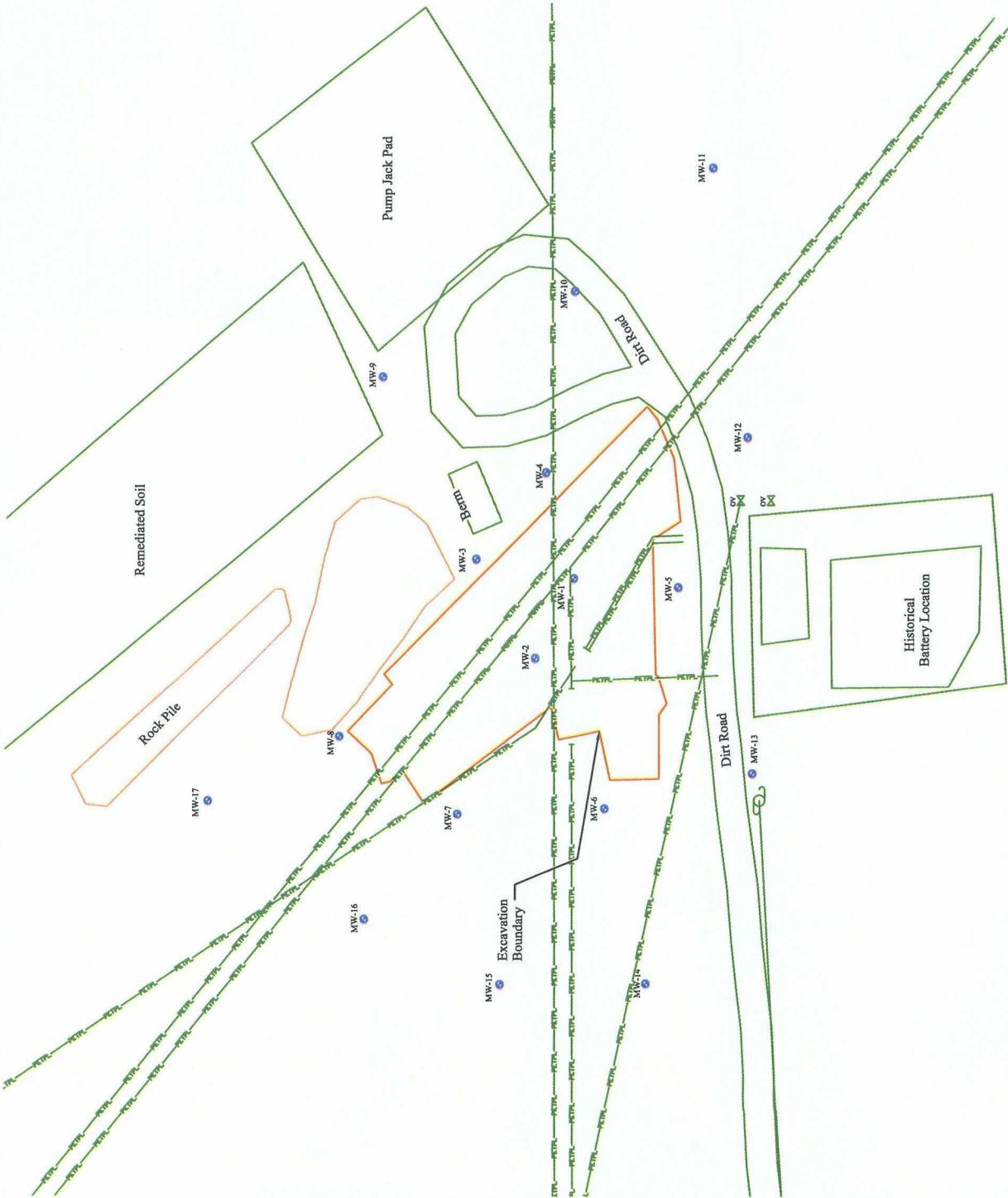
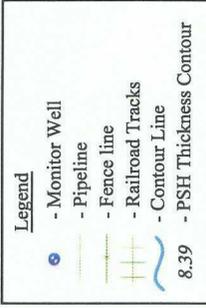
Figure 2d – Groundwater Gradient Map (12/03/2007)

Figure 3a – PSH Plume & Groundwater Concentration Map (04/03/2007)

Figure 3b – PSH Plume & Groundwater Concentration Map (06/26/2007)

Figure 3c – PSH Plume & Groundwater Concentration Map (09/14/2007)

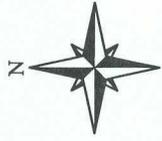
Figure 3d – PSH Plume & Groundwater Concentration Map (12/03/2007)



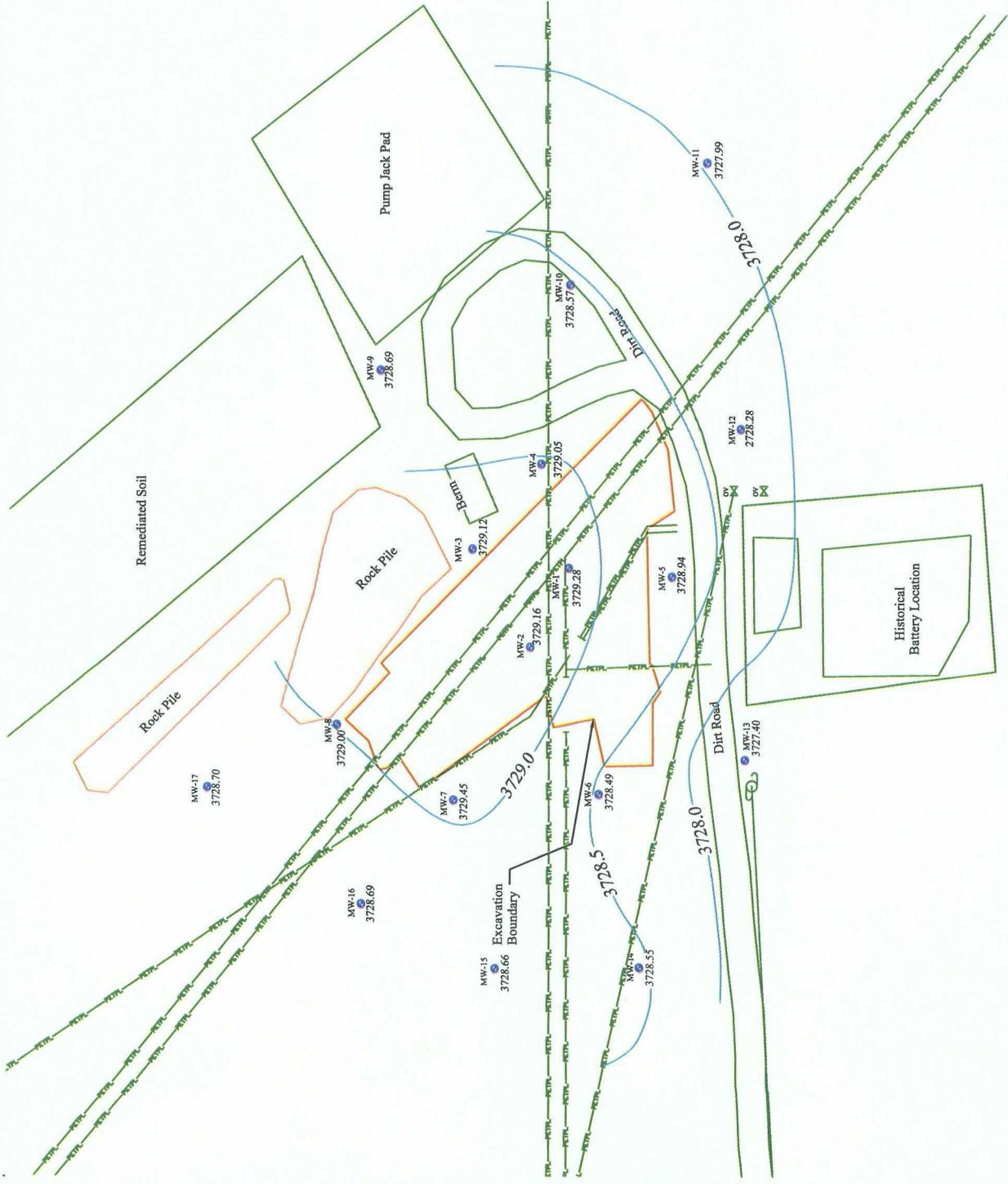
C.S. Cayler (PLAINS044SPL)
SRS # 2002-10250
Lea County, New Mexico
Figure 1 - Site Plan

Date: 03/13/2007
Scale: 1" = 100'
Drawn By: WDR





- Legend**
- Monitor Well
 - Pipeline
 - Valve
 - Fence line
 - Groundwater Elevation Contour Line
 - 81.30 - Groundwater Contour Elevation
 - Groundwater Flow Direction

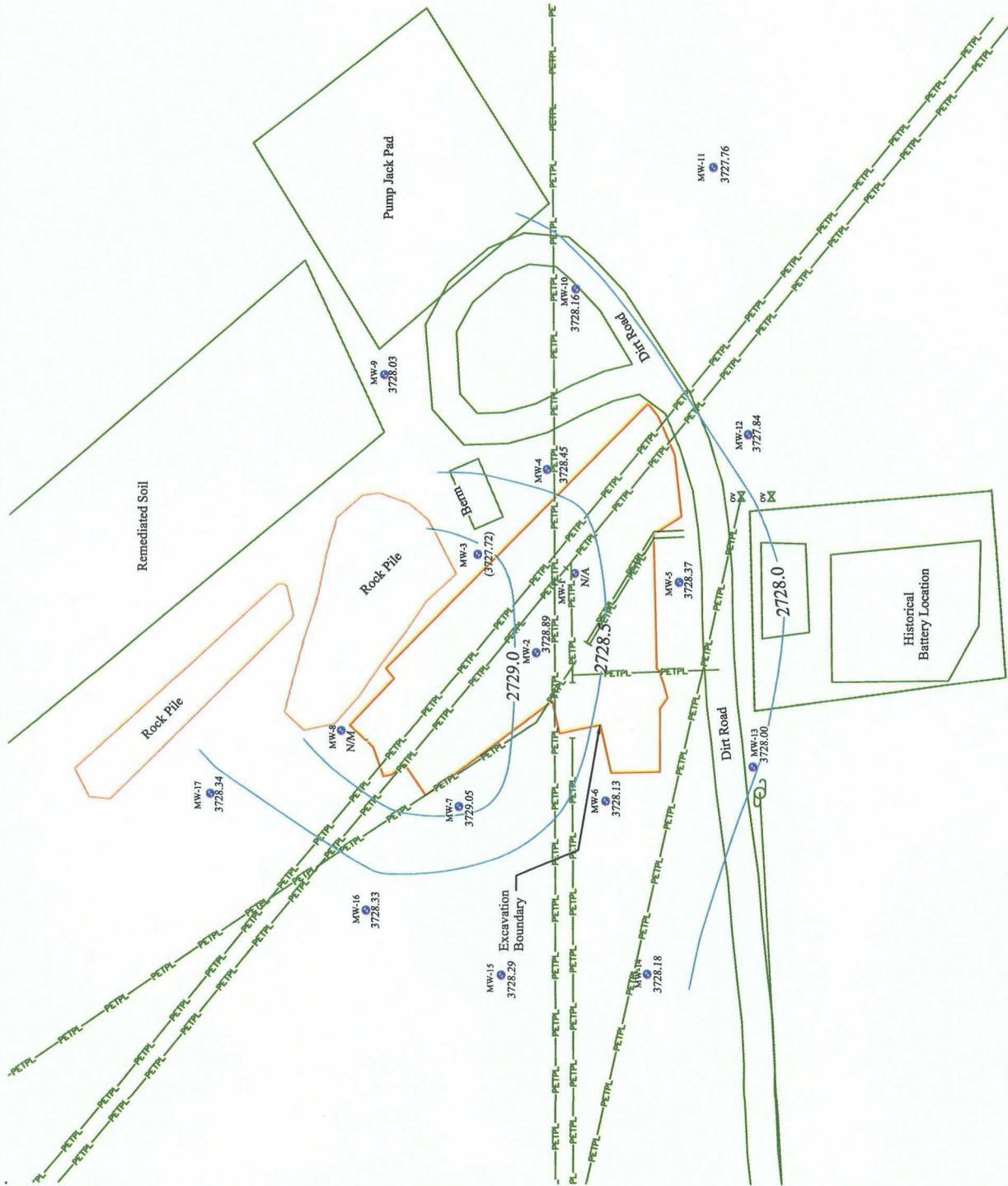


C.S. Cayler (PLAINS044SPL)
SRS # 2002-10250
Lea County, New Mexico

Figure 2a - Groundwater Gradient Map, (04/03/2007)

Date: 02/25/2008
Scale: 1" = 100'
Drawn By: SJA





Date: 02/26/2008

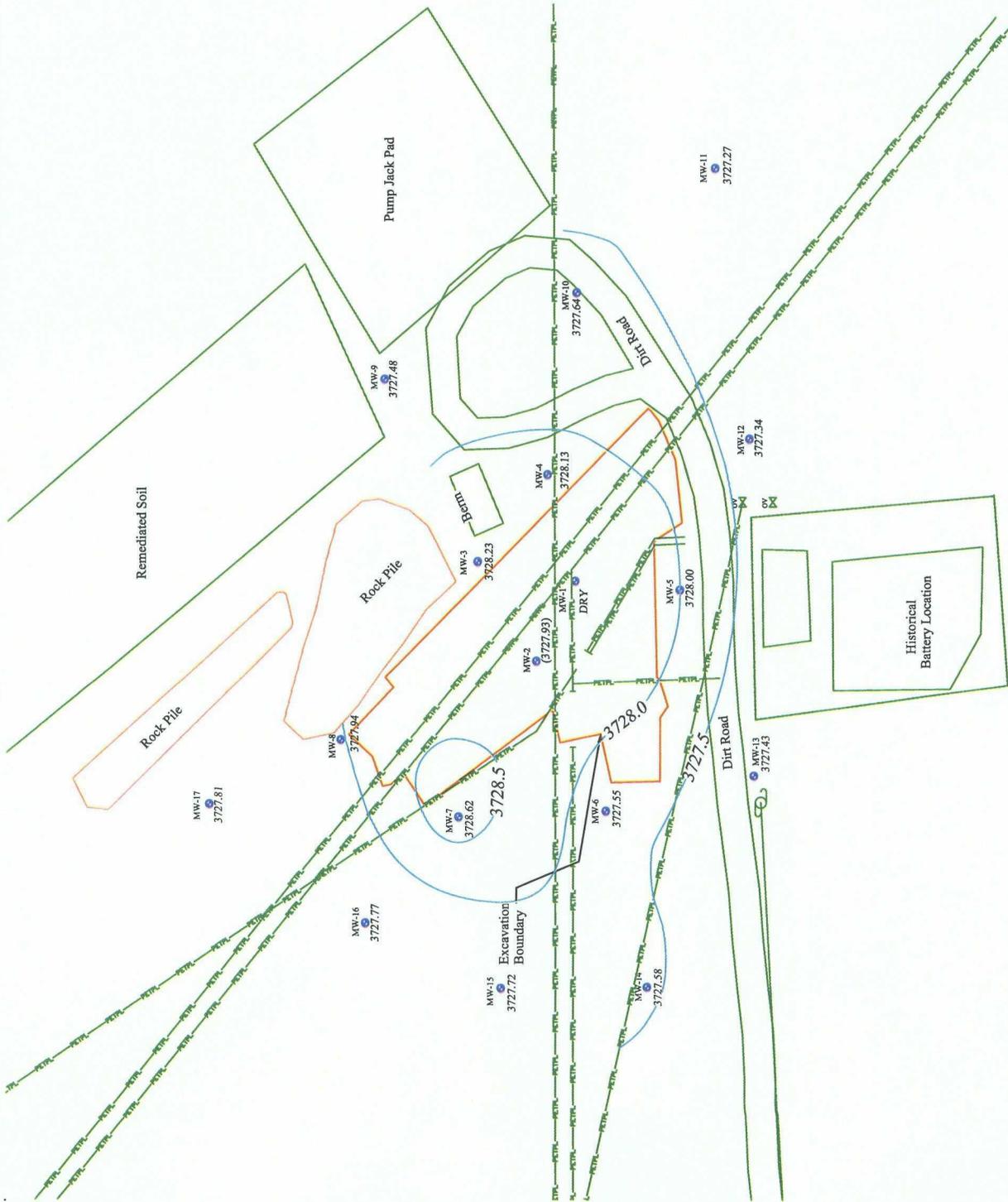
Scale: 1" = 100'

Drawn By: SJA

C.S. Cayler (PLAINS044SPL)
SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, New Mexico
Figure 2b - Groundwater Gradient Map, (06/26/2007)



- Legend**
- Monitor Well
 - Pipeline
 - Valve
 - Fence line
 - Groundwater Elevation Contour Line
 - Groundwater Contour Elevation
 - Groundwater Flow Direction
 - Data Not Used



C.S. Cayler (PLAINS044SPL)
SRS # 2002-10250

Lea County, New Mexico

Figure 2c - Groundwater Gradient Map, (09/14/2007)

Date: 02/25/2008

Scale: 1" = 100'

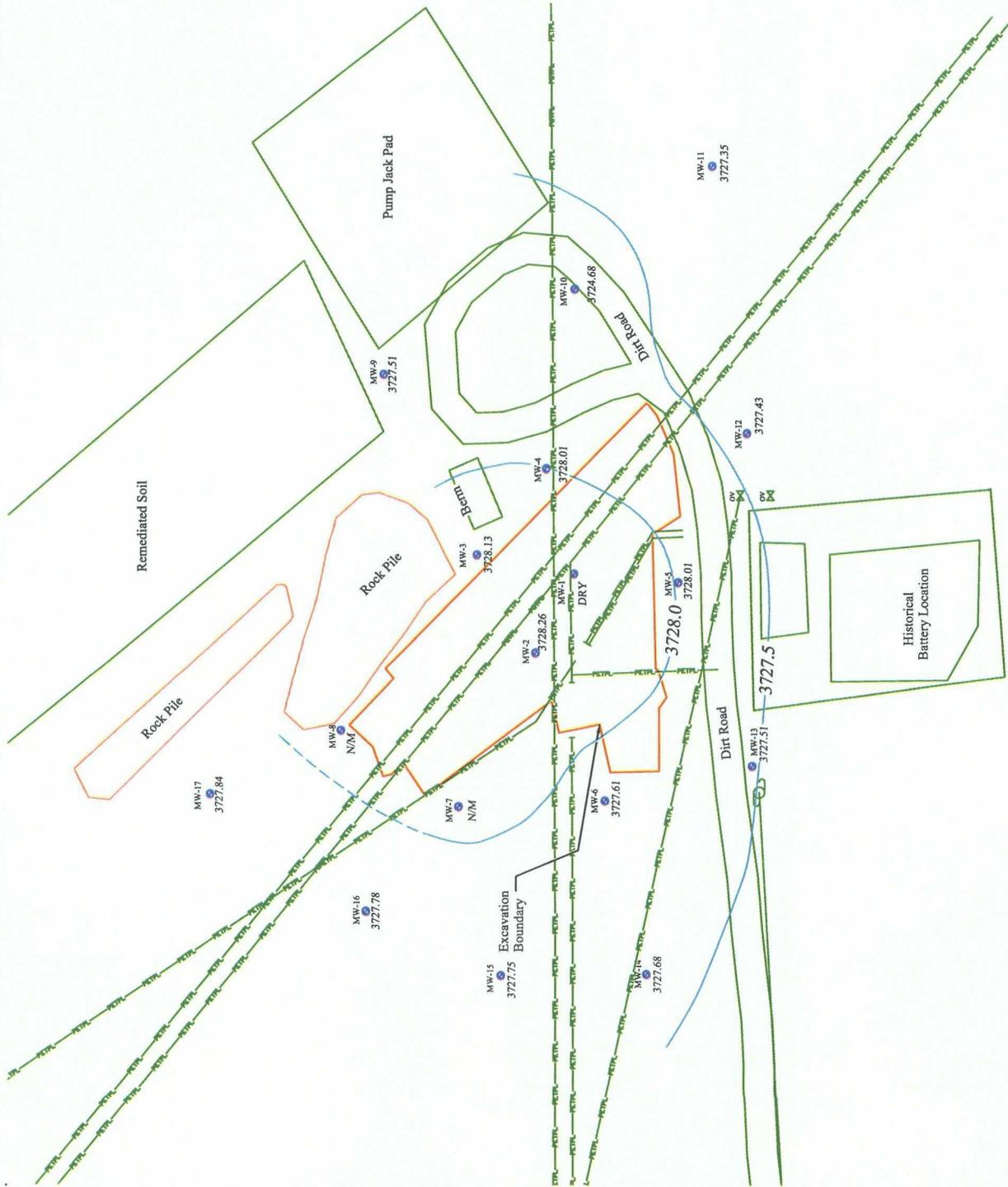
Drawn By: SJA





Legend

- Monitor Well
- Pipeline
- Valve
- Fence line
- Groundwater Elevation Contour Line
- Groundwater Contour Elevation
- Groundwater Flow Direction
- Groundwater Not Detected

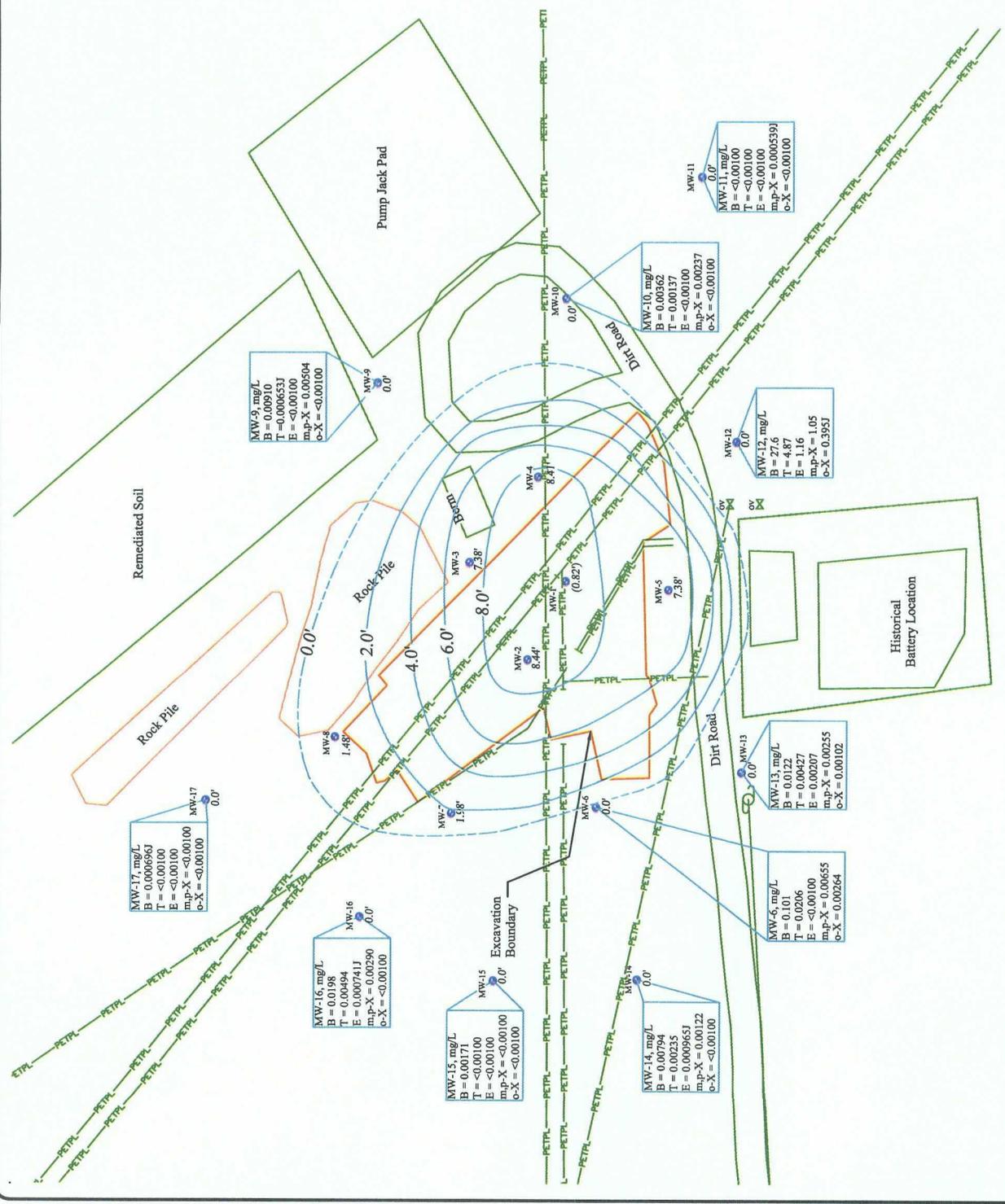
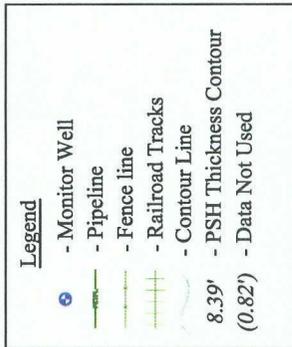


C.S. Cayler (PLAINS044SPL)
 SRS # 2002-10250
 Lea County, New Mexico

Figure 2d - Groundwater Gradient Map, (12/03/2007)

Date: 02/25/2008
 Scale: 1" = 100'
 Drawn By: SJA





Date: 03/05/2008

Scale: 1" = 100'

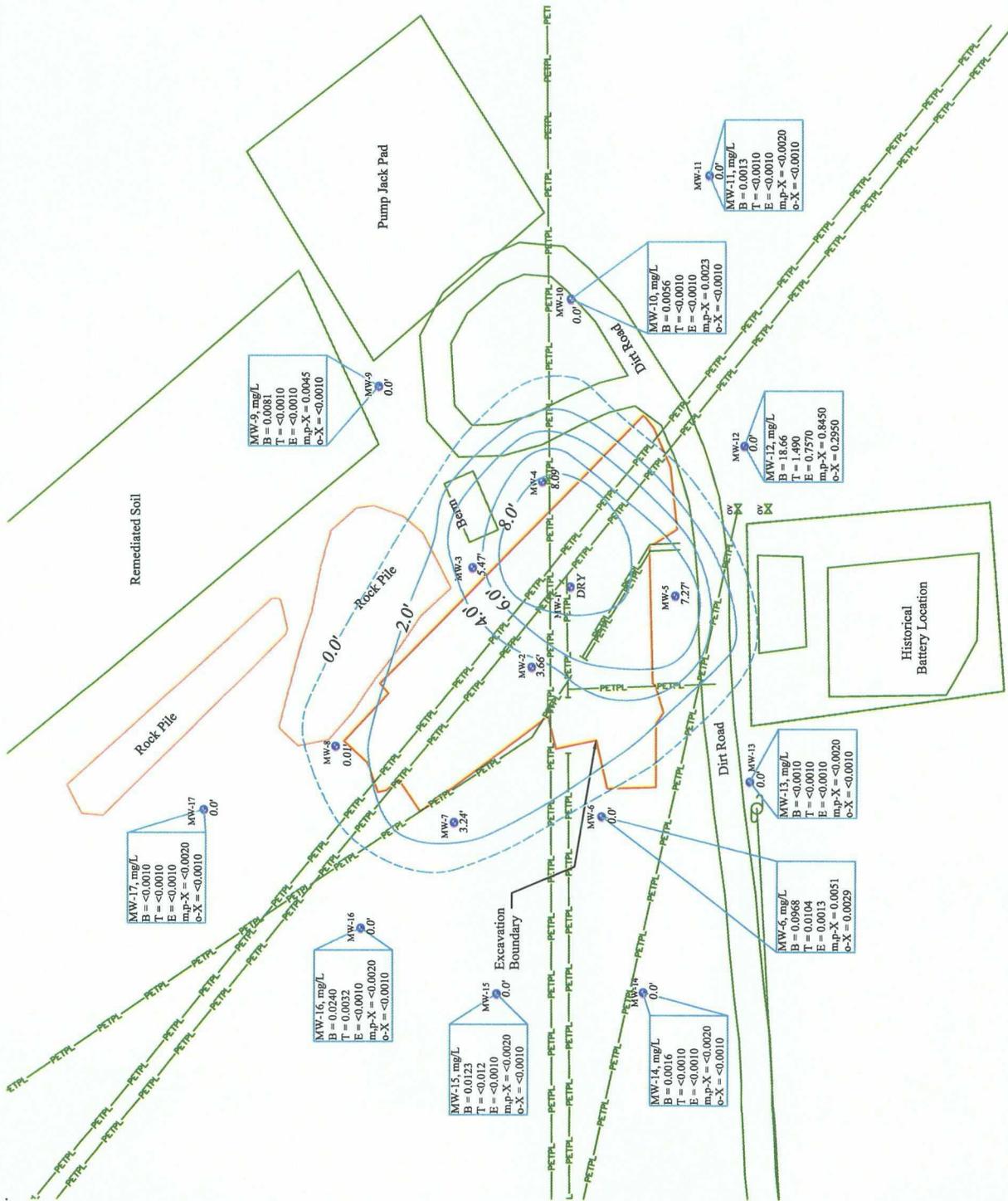
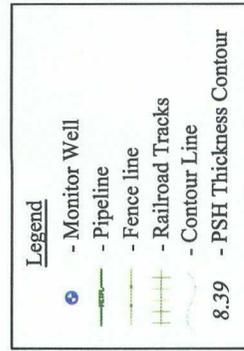
Drawn By: SJA

C.S. Caylor (PLAINS044SPL)

SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)

Lea County, New Mexico

Figure 3b - PSH Plume & Groundwater Concentration Map, (06/26/2007)



Date: 03/05/2008
 Scale: 1" = 100'
 Drawn By: SJA

C.S. Cayler (PLAINS044SPL)
 SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)
 Lea County, New Mexico
 Figure 3c - PSH Plume & Groundwater Concentration Map, (09/14/2007)



Legend

- Monitor Well
- Pipeline
- Fence line
- Railroad Tracks
- Contour Line
- 8.39 - PSH Thickness Contour



MW-9, mg/L
 B = 0.0049
 T = <0.0020
 E = <0.0010
 m.p.-X = 0.0100
 o.-X = <0.0010

MW-11, mg/L
 B = 0.0010
 T = <0.0020
 E = <0.0010
 m.p.-X = <0.0020
 o.-X = <0.0010

MW-10, mg/L
 B = 0.0046
 T = <0.0020
 E = <0.0010
 m.p.-X = <0.0020
 o.-X = <0.0010

MW-12, mg/L
 B = 24.91
 T = 1.080
 E = 0.6060
 m.p.-X = 0.7080
 o.-X = 0.2020

MW-17, mg/L
 B = 0.0022
 T = <0.0020
 E = <0.0010
 m.p.-X = <0.0020
 o.-X = <0.0010

MW-16, mg/L
 B = 0.2048
 T = 0.0040
 E = 0.0015
 m.p.-X = 0.0060
 o.-X = <0.0010

MW-15, mg/L
 B = 0.0013
 T = <0.0020
 E = <0.0010
 m.p.-X = <0.0020
 o.-X = <0.0010

MW-14, mg/L
 B = <0.0010
 T = <0.0020
 E = <0.0010
 m.p.-X = <0.0020
 o.-X = <0.0010

MW-13, mg/L
 B = 0.0021
 T = <0.0020
 E = <0.0010
 m.p.-X = <0.0020
 o.-X = <0.0010

MW-6, mg/L
 B = 0.1491
 T = 0.0209
 E = 0.0011
 m.p.-X = 0.0086
 o.-X = 0.0046



Date: 03/05/2008
 Scale: 1" = 100'
 Drawn By: SJA

C.S. Cayler (PLAINS044SPL)
 SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)
 Lea County, New Mexico
 Figure 3d - PSH Plume & Groundwater Concentration Map, (12/03/2007)

APPENDIX B

Tables

Table 1 – Groundwater Elevations and PSH Thickness

Table 2 – Summary of Groundwater Analytical Results

Table 3 – Summary of Groundwater Polycyclic Aromatic Hydrocarbon (PAH) Analytical Results



Table 1
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses
Plains Pipeline, L.P.
C. S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, NM SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)
	10/17/02	WELL INSTALLED 17-Oct-02				
	3/7/03	3,803.97	72.28	84.20	3,730.50	11.92
	3/11/03		72.30	84.19	3,730.48	11.89
	3/17/03		72.33	84.25	3,730.45	11.92
	3/22/03		72.35	84.24	3,730.43	11.89
	5/6/03		71.55	83.11	3,731.26	11.56
	5/7/03		71.58	83.05	3,731.24	11.47
	5/8/03		71.55	83.03	3,731.27	11.48
	5/9/03		71.53	83.00	3,731.29	11.47
	5/15/03		71.57	83.01	3,731.26	11.44
	5/16/03		71.59	82.90	3,731.25	11.31
	5/28/03		71.65	82.50	3,731.24	10.85
	6/11/03		71.75	82.57	3,731.14	10.82
	8/14/03		63.45	73.41	3,739.52	9.96
	1/2/04		64.31	73.63	3,738.73	9.32
	4/12/04		64.74	73.74	3,738.33	9.00
	6/1/04		64.87	73.52	3,738.24	8.65
	6/21/04		65.04	73.49	3,738.09	8.45
	7/14/04		67.52	75.92	3,735.61	8.40
	10/17/04		68.38	73.28	3,735.10	4.90
	10/29/04		68.53	73.45	3,734.95	4.92
	3/31/05		68.23	73.00	3,735.26	4.77
	4/25/05		68.56	72.68	3,735.00	4.12
	5/31/05		68.57	72.61	3,735.00	4.04
	6/29/05		68.88	73.72	3,734.61	4.84
	9/15/05		69.79	73.63	3,733.80	3.84
	11/14/05		70.44	73.26	3,733.25	2.82
	1/23/06		70.72	73.80	3,732.94	3.08
	3/1/06		70.41	73.59	3,733.24	3.18
	5/25/06		71.05	73.20	3,732.71	2.15
	8/14/06		72.46	73.76	3,731.38	1.30
	11/29/06		73.31	73.69	3,730.62	0.38
	1/11/07		73.31	73.69	3,730.62	0.38
	2/8/07		73.38	73.73	3,730.56	0.35
	4/3/07		73.86	82.21	3,729.28	8.35
	4/11/07		74.06	82.27	3,729.09	8.21
	4/17/07		74.21	82.63	3,728.92	8.42
	5/14/07		74.06	82.00	3,729.12	7.94
	6/26/07		73.80			0.82**
	6/28/07		DRY			
	9/14/07		DRY			
	9/26/07		DRY			
	10/5/07		DRY			
	10/9/07		DRY			
	10/19/07		DRY			
	10/24/07		DRY			
	10/31/07		DRY			
	11/28/07		DRY			
	12/3/07		DRY			



Table 1
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses
Plains Pipeline, L.P.
C. S. Cayler
NMOCDF REF. # AP-052 (OLD 1R-0382)
Lea County, NM SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness	
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)	
MW-2	5/28/04	WELL INSTALLED 28-May-04					
	6/1/04	3,803.93	67.17	77.76	3,735.70	10.59	
	6/21/04		67.27	77.93	3,735.59	10.66	
	7/14/04		67.38	78.09	3,735.48	10.71	
	10/16/04		68.79	74.04	3,734.62	5.25	
	10/29/04		67.97	77.70	3,734.99	9.73	
	3/31/05		68.23	78.50	3,734.67	10.27	
	4/25/05		68.37	77.03	3,734.69	8.66	
	5/31/05		68.46	76.97	3,734.62	8.51	
	6/29/05		69.09	76.12	3,734.14	7.03	
	9/15/05		69.75	79.14	3,733.24	9.39	
	11/14/05		70.66	78.44	3,732.49	7.78	
	1/23/06		70.95	78.27	3,732.25	7.32	
	3/1/06		70.53	77.41	3,732.71	6.88	
	5/25/06		72.19	75.49	3,731.41	3.30	
	8/14/06		73.08	78.31	3,730.33	5.23	
	11/29/06		74.09	78.20	3,729.43	4.11	
	12/12/06		74.53	77.57	3,729.10	3.04	
	1/11/07		74.22	78.81	3,729.25	4.59	
	2/8/07		75.11	75.18	3,728.81	0.07	
	4/3/07		73.95	82.11	3,729.16	8.16	
	4/11/07		74.02	82.30	3,729.08	8.28	
	4/17/07		74.02	82.41	3,729.07	8.39	
	5/14/07		74.03	82.55	3,729.05	8.52	
	6/26/07		74.20	82.64	3,728.89	8.44	
	6/28/07		74.36	82.48	3,728.76	8.12	
	8/13/07		74.71	81.91	3,728.50	7.20	
	8/17/07		75.66	79.30	3,727.91	3.64	
	8/21/07			76.19	3,727.74		
	8/28/07		75.84	78.91	3,727.78	3.07	
	9/14/07		75.63	79.29	3,727.93	3.66	
	9/26/07		74.88	82.41	3,728.30	7.53	
	10/5/07		74.85	82.70	3,728.30	7.85	
	10/8/07		74.87	82.71	3,728.28	7.84	
	10/19/07		74.87	82.96	3,728.25	8.09	
10/24/07		74.87	83.04	3,728.24	8.17		
10/31/07		74.88	83.11	3,728.23	8.23		
11/12/07		74.82	83.19	3,728.27	8.37		
11/28/07		74.89	83.27	3,728.20	8.38		
12/3/07		74.83	83.20	3,728.26	8.37		



Table 1
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses
Plains Pipeline, L.P.

C. S. Cayler
 NMOCD REF. # AP-052 (OLD 1R-0382)
 Lea County, NM SRS# 2002-10250
 Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness	
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)	
MW-3	5/31/04	WELL INSTALLED 31-May-04					
	6/21/04	3.810.20	75.51	75.51	3.734.69		
	7/14/04		74.39	81.31	3.735.12	6.92	
	8/26/04		74.75	84.31	3.734.49	9.56	
	10/16/04		75.53	77.55	3.734.47	2.02	
	10/29/04		75.45	79.00	3.734.40	3.55	
	3/31/05		74.65	83.60	3.734.66	8.95	
	4/25/05		74.81	82.74	3.734.60	7.93	
	5/31/05		75.00	82.16	3.734.48	7.16	
	6/29/05		75.83	80.44	3.733.91	4.61	
	9/15/05		76.09	85.47	3.733.17	9.38	
	11/14/05		77.81	81.11	3.732.06	3.30	
	1/23/06		77.78	81.74	3.732.02	3.96	
	3/1/06		77.43	81.49	3.732.36	4.06	
	5/25/06		78.49	81.15	3.731.44	2.66	
	8/14/06		79.51	84.36	3.730.21	4.85	
	1/11/07		80.78	84.05	3.729.09	3.27	
	2/8/07		83.65	83.66	3.726.55	0.01	
	4/3/07		80.25	88.51	3.729.12	8.26	
	4/11/07		80.69	88.97	3.728.68	8.28	
	4/17/07		80.38	88.78	3.728.98	8.40	
	5/14/07		80.43	89.56	3.728.86	9.13	
	6/26/07		81.74	89.12	3.727.72	7.38	
	6/28/07		80.69	89.05	3.728.67	8.36	
	8/13/07		81.08	89.43	3.728.29	8.35	
	8/17/07		82.05	83.50	3.728.01	1.45	
	8/21/07		82.65	82.68	3.727.55	0.03	
	8/28/07		81.51	88.44	3.728.00	6.93	
	9/14/07		81.42	86.89	3.728.23	5.47	
	9/26/07		81.22	88.92	3.728.21	7.70	
	10/5/07		81.14	88.99	3.728.28	7.85	
	10/8/07		81.14	89.00	3.728.27	7.86	
10/19/07		81.23	89.39	3.728.15	8.16		
10/24/07		81.24	89.35	3.728.15	8.11		
10/31/07		81.24	89.47	3.728.14	8.23		
11/12/07		81.25	89.39	3.728.14	8.14		
11/28/07		81.26	89.44	3.728.12	8.18		
12/3/07		81.26	89.36	3.728.13	8.10		



Table 1
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses
Plains Pipeline, L.P.
C. S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, NM SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)
MW-4	6/1/04					
	6/21/04	3,810.70	76.04	76.04	3,734.66	
	7/14/04		74.51	83.91	3,735.25	9.40
	8/26/04		74.21	83.61	3,735.55	9.40
	10/16/04		75.77	80.56	3,734.45	4.79
	10/17/04		75.76	80.96	3,734.42	5.20
	10/29/04		75.56	81.42	3,734.55	5.86
	3/31/05		73.51	81.95	3,736.35	8.44
	4/25/05		75.53	82.62	3,734.46	7.09
	5/31/05		75.55	82.86	3,734.42	7.31
	6/29/05		75.96	83.51	3,733.99	7.55
	9/15/05		76.71	86.23	3,733.04	9.52
	11/14/05		77.64	85.38	3,732.29	7.74
	1/23/06		77.79	84.93	3,732.20	7.14
	3/1/06		77.48	84.12	3,732.56	6.64
	5/25/06		78.28	85.22	3,731.73	6.94
	8/14/06		79.78	86.67	3,730.23	6.89
	11/29/06		80.29	85.15	3,729.92	4.86
	12/12/06		81.71	86.01	3,728.56	4.30
	1/11/07		80.03	82.77	3,730.40	2.74
	2/8/07		81.28	82.70	3,729.28	1.42
	4/3/07		80.78	89.44	3,729.05	8.66
	4/11/07		80.85	89.55	3,728.98	8.70
	4/17/07		80.92	89.05	3,728.97	8.13
	5/14/07		80.96	89.68	3,728.87	8.72
	6/26/07		81.41	89.82	3,728.45	8.41
	6/28/07		81.28	89.71	3,728.58	8.43
	8/13/07		81.76	89.92	3,728.12	8.16
	8/17/07		80.36	87.55	3,729.62	7.19
	8/21/07		82.01	89.41	3,727.95	7.40
	8/28/07			79.50	3,731.20	
	9/14/07		81.76	89.85	3,728.13	8.09
	9/26/07		81.73	88.89	3,728.25	7.16
	10/5/07		81.66	89.80	3,728.23	8.14
	10/8/07		81.65	89.78	3,728.24	8.13
	10/19/07		81.80	90.05	3,728.08	8.25
	10/24/07		81.80	89.99	3,728.08	8.19
	10/31/07		81.82	90.07	3,728.06	8.25
	11/12/07		82.02	89.84	3,727.90	7.82
	11/28/07		81.93	89.82	3,727.98	7.89
12/3/07		81.91	89.72	3,728.01	7.81	



Table 1
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses
Plains Pipeline, L.P.
C. S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, NM SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness	
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)	
MW-5	6/5/04	WELL INSTALLED 05-Jun-04					
	6/21/04	3.809.05		74.42	3,734.63		
	7/14/04			74.53	3,734.52		
	10/29/04			75.00	3,734.05		
	11/19/04			75.10	3,733.95		
	3/31/05			75.18	3,733.87		
	4/25/05			75.19	3,733.86		
	5/12/05			75.22	3,733.83		
	5/31/05			75.25	3,733.80		
	6/29/05			75.67	3,733.38		
	8/22/05			76.64	3,732.41		
	9/15/05			76.75	3,732.30		
	11/14/05			77.39	3,731.66		
	1/23/06			77.21	79.19	3,731.64	1.98
	3/1/06			76.59	79.18	3,732.20	2.59
	5/25/06			77.41	79.93	3,731.39	2.52
	8/14/06			78.99	80.63	3,729.90	1.64
	11/29/06			78.91	85.95	3,729.44	7.04
	1/11/07			78.85	86.30	3,729.46	7.45
	2/8/07			78.82	86.29	3,729.48	7.47
	2/20/07			79.22	85.66	3,729.19	6.44
	3/6/07			79.15	86.07	3,729.21	6.92
	3/14/07			78.68	85.60	3,729.68	6.92
	3/27/07			79.64	86.03	3,728.77	6.39
	3/29/07			79.36	86.25	3,729.00	6.89
	4/3/07			79.38	86.71	3,728.94	7.33
	4/11/07			79.91	87.02	3,728.43	7.11
	4/17/07			79.52	88.90	3,728.59	9.38
	5/24/07			79.54	86.90	3,728.77	7.36
	6/26/07			79.94	87.32	3,728.37	7.38
	6/28/07			79.84	87.25	3,728.47	7.41
	8/13/07			80.26	81.66	3,728.65	1.40
	8/21/07			80.39	87.63	3,727.94	7.24
	8/28/07			80.49	87.64	3,727.85	7.15
	9/14/07			80.32	87.59	3,728.00	7.27
	9/26/07			81.72	87.66	3,726.74	5.94
	10/5/07			80.22	87.51	3,728.10	7.29
	10/8/07			80.20	87.52	3,728.12	7.32
	10/19/07			80.44	87.66	3,727.89	7.22
	10/24/07			80.36	87.73	3,727.95	7.37
10/31/07			80.37	87.85	3,727.93	7.48	
11/12/07			80.36	87.51	3,727.98	7.15	
12/28/07			80.83	87.61	3,727.54	6.78	
12/3/07			80.34	87.35	3,728.01	7.01	



Table 1
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses
Plains Pipeline, L.P.
C. S. Caylor
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, NM SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness	
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)	
MW-6	10/21/04	WELL INSTALLED 21-Oct-04					
	10/27/04	3,809.17		75.13	3,734.04		
	10/29/04			75.13	3,734.04		
	11/19/04			75.23	3,733.94		
	3/31/05			75.33	3,733.84		
	4/25/05			75.27	3,733.90		
	5/12/05			75.30	3,733.87		
	5/31/05			75.33	3,733.84		
	6/29/05			75.68	3,733.49		
	8/22/05			76.63	3,732.54		
	9/15/05			76.80	3,732.37		
	11/14/05			77.41	3,731.76		
	1/23/06			77.60	3,731.57		
	3/1/06			77.01	3,732.16		
	5/25/06			77.92	3,731.25		
	8/14/06			79.18	3,729.99		
	11/29/06			80.12	3,729.05		
	12/12/06			80.19	3,728.98		
	1/11/07			80.20	3,728.97		
	2/8/07			79.99	3,729.18		
	2/20/07			80.36	3,728.81		
	3/6/07			80.40	3,728.77		
	3/14/07			79.92	3,729.25		
	3/27/07			80.62	3,728.55		
	3/29/07			80.34	3,728.83		
	4/3/07			80.68	3,728.49		
4/11/07			81.03	3,728.14			
4/17/07			80.82	3,728.35			
6/13/07			80.88	3,728.29			
6/26/07			81.04	3,728.13			
9/14/07			81.62	3,727.55			
10/19/07			81.64	3,727.53			
12/3/07			81.56	3,727.61			
MW-7	10/21/04	WELL INSTALLED 21-Oct-04					
	10/27/04	3,809.95	75.82	76.05	3,734.11	0.23	
	10/29/04		75.82	76.05	3,734.11	0.23	
	11/19/04		75.21	79.14	3,734.35	3.93	
	3/31/05		75.22	79.18	3,734.33	3.96	
	4/25/05		74.37	82.84	3,734.73	8.47	
	5/31/05		75.41	78.75	3,734.21	3.34	
	6/29/05		74.86	83.31	3,734.25	8.45	
	9/15/05		75.92	83.58	3,733.26	7.66	
	11/14/05		76.75	83.17	3,732.56	6.42	
	1/23/06		77.16	83.54	3,732.15	6.38	
	3/1/06		76.71	82.60	3,732.65	5.89	
	5/25/06		77.71	79.37	3,732.07	1.66	
	8/14/06		78.61	83.34	3,730.87	4.73	
	11/29/06		79.51	83.15	3,730.08	3.64	
	12/12/06		79.95	83.00	3,729.70	3.05	
	1/11/07		79.77	84.41	3,729.72	4.64	
	2/8/07		79.63	84.15	3,729.87	4.52	
	4/3/07		80.09	84.18	3,729.45	4.09	
	4/11/07		80.73	84.91	3,728.80	4.18	
	4/17/07		80.74	84.96	3,728.79	4.22	
	5/14/07		80.30	84.42	3,729.24	4.12	
	6/26/07		80.70	82.68	3,729.05	1.98	
	6/28/07		80.52	83.66	3,729.12	3.14	
	8/13/07		81.22	83.66	3,728.49	2.44	
	8/21/07		81.37	83.44	3,728.37	2.07	
9/14/07		81.01	84.25	3,728.62	3.24		
9/26/07		80.97	84.30	3,728.65	3.33		
10/5/07		80.92	84.33	3,728.69	3.41		
10/8/07		80.92	84.32	3,728.69	3.40		
10/19/07		81.04	84.30	3,728.58	3.26		
10/24/07		81.05	84.30	3,728.58	3.25		
10/31/07		81.08	84.34	3,728.54	3.26		
11/12/07		81.02	84.35	3,728.60	3.33		
11/28/07		80.89			3.46**		
12/3/07		80.98			3.43**		



Table 1
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses
Plains Pipeline, L.P.
C. S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, NM SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness	
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)	
MW-8	10/20/04	WELL INSTALLED 20-Oct-04					
	10/27/04	3,810.29		76.20	3,734.09	ND	
	10/29/04			76.20	3,734.09	ND	
	11/19/04			76.26	3,734.03	ND	
	3/31/05			76.30	3,733.99	ND	
	4/25/05			76.29	3,734.00	ND	
	5/12/05			76.32	3,733.97	ND	
	5/31/05			76.34	3,733.95	ND	
	6/29/05			76.62	3,733.67	ND	
	8/22/05		77.42	78.08	3,732.80	0.66	
	11/14/05		78.16	79.40	3,732.01	1.24	
	1/23/06		78.25	80.13	3,731.85	1.88	
	3/1/06		77.60	80.55	3,732.40	2.95	
	5/25/06		78.43	81.31	3,731.57	2.88	
	8/14/06		79.63	82.84	3,730.34	3.21	
	11/29/06		80.50	83.79	3,729.46	3.29	
	12/12/06		80.59	83.90	3,729.37	3.31	
	1/11/07		80.63	83.88	3,729.34	3.25	
	2/8/07		80.66	83.94	3,729.30	3.28	
	2/20/07		80.81	84.07	3,729.15	3.26	
	3/6/07		80.88	84.11	3,729.09	3.23	
	3/14/07		80.09	83.26	3,729.88	3.17	
	3/27/07		80.13	83.24	3,729.85	3.11	
	4/3/07		81.10	83.04	3,729.00	1.94	
	4/11/07		81.59	83.49	3,728.51	1.90	
	4/17/07		81.61	83.51	3,728.49	1.90	
	5/24/07		81.33			1.77**	
	6/26/07		81.62			1.48**	
	6/28/07		81.52			1.58**	
	8/13/07		81.86			2.1**	
	8/21/07		81.96			1.79**	
	8/28/07		82.02			1.73**	
	9/14/07		82.35	82.36	3,727.94	0.01	
9/26/07		81.99	83.03	3,728.20	1.04		
10/5/07		81.97	84.33	3,728.08	2.36		
10/8/07		81.96	83.63	3,728.16	1.67		
10/19/07		82.04	82.41	3,728.21	0.37		
11/12/07		82.04	82.43	3,728.21	0.39		
11/28/07		82.04			0.46**		
12/3/07		82.11			0.48**		



Table 1
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses
Plains Pipeline, L.P.
C. S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, NM SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness	
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)	
MW-9	10/19/04	WELL INSTALLED 19-Oct-04					
	10/27/04	3,809.81		75.85	3,733.96		
	10/29/04			75.85	3,733.96		
	11/19/04			75.91	3,733.90		
	3/31/05			76.97	3,733.84		
	4/25/05			75.91	3,733.90		
	5/12/05			75.96	3,733.85		
	5/31/05			75.99	3,733.82		
	6/29/05			76.34	3,733.47		
	8/22/05			77.31	3,732.50		
	9/15/05			77.48	3,732.33		
	11/14/05			78.15	3,731.66		
	1/23/06			78.33	3,731.48		
	3/1/06			77.78	3,732.03		
	5/25/06			78.67	3,731.14		
	8/14/06			79.90	3,729.91		
	11/29/06			80.87	3,728.94		
	12/12/06			80.93	3,728.88		
	1/11/07			90.94	3,718.87		
	2/8/07			80.70	3,729.11		
	2/20/07			81.09	3,728.72		
	3/6/07			81.15	3,728.66		
	3/14/07			80.65	3,729.16		
	3/27/07			81.34	3,728.47		
	3/29/07			81.11	3,728.70		
	4/3/07			81.12	3,728.69		
	4/11/07			81.50	3,728.31		
	4/17/07			81.60	3,728.21		
	5/21/07			81.61	3,728.20		
	6/13/07			81.65	3,728.16		
6/26/07			81.78	3,728.03			
9/14/07			82.33	3,727.48			
10/19/07			82.37	3,727.44			
12/3/07			82.30	3,727.51			



Table 1
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses
Plains Pipeline, L.P.

C. S. Cayler
 NMOCD REF. # AP-052 (OLD 1R-0382)
 Lea County, NM SRS# 2002-10250
 Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness	
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)	
MW-10	10/20/04	WELL INSTALLED 20-Oct-04					
	10/27/04	3,809.64		75.76	3,733.88		
	10/29/04			75.76	3,733.88		
	11/19/04			75.84	3,733.80		
	3/31/05			75.87	3,733.77		
	4/25/05			75.85	3,733.79		
	5/12/05			75.96	3,733.68		
	5/31/05			75.91	3,733.73		
	6/29/05			76.30	3,733.34		
	8/22/05			77.32	3,732.32		
	9/15/05			77.46	3,732.18		
	11/14/05			78.08	3,731.56		
	1/23/06			78.22	3,731.42		
	3/1/06			77.58	3,732.06		
	5/25/06			78.66	3,730.98		
	8/14/06			79.96	3,729.68		
	11/29/06			80.84	3,728.80		
	12/12/06			80.91	3,728.73		
	1/11/07			80.84	3,728.80		
	2/8/07			80.59	3,729.05		
	2/20/07			81.00	3,728.64		
	3/6/07			81.08	3,728.56		
	3/14/07			80.52	3,729.12		
	3/27/07			81.33	3,728.31		
	3/29/07			81.07	3,728.57		
	4/3/07			81.37	3,728.27		
	4/11/07			81.46	3,728.18		
	4/17/07			81.53	3,728.11		
	5/24/07			81.54	3,728.10		
	6/13/07			81.59	3,728.05		
6/26/07			81.78	3,727.86			
9/14/07			82.30	3,727.34			
10/19/07			82.33	3,727.31			
12/3/07			85.26	3,724.38			



Table 1
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses
Plains Pipeline, L.P.
C. S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, NM SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness	
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)	
MW-11	2/21/06	WELL INSTALLED 2/21/06					
	3/1/06	3,808.95		76.95	3,732.00		
	5/25/06			78.06	3,730.89		
	8/14/06			79.57	3,729.38		
	11/29/06			80.26	3,728.69		
	12/12/06			80.27	3,728.68		
	1/11/07			80.19	3,728.76		
	2/8/07			79.91	3,729.04		
	2/20/07			80.35	3,728.60		
	3/6/07			80.42	3,728.53		
	3/14/07			80.01	3,728.94		
	3/27/09			80.43	3,728.52		
	3/29/09			80.46	3,728.49		
	4/3/07			80.96	3,727.99		
	4/11/07			80.86	3,728.09		
	4/17/07			80.94	3,728.01		
	5/24/07			80.89	3,728.06		
6/13/07			81.08	3,727.87			
6/26/07			81.19	3,727.76			
9/14/07			81.68	3,727.27			
10/19/07			81.76	3,727.19			
12/3/07			81.60	3,727.35			
MW-12	2/23/06	WELL INSTALLED 2/23/06					
	3/1/06	3,809.63		77.60	3,732.03		
	5/25/06			78.68	3,730.95		
	8/14/06			79.99	3,729.64		
	11/29/06			80.86	3,728.77		
	12/12/06			80.90	3,728.73		
	1/11/07			80.81	3,728.82		
	2/8/07			80.55	3,729.08		
	2/20/07			80.96	3,728.67		
	3/6/07			81.04	3,728.59		
	3/14/07			81.15	3,728.48		
	3/27/07			81.31	3,728.32		
	3/29/07			81.15	3,728.48		
	4/3/07			81.35	3,728.28		
	4/11/07			81.87	3,727.76		
	4/17/07			81.50	3,728.13		
	5/24/07			81.45	3,728.18		
6/26/07			81.79	3,727.84			
9/14/07			82.29	3,727.34			
10/19/07			82.36	3,727.27			
12/3/07			82.20	3,727.43			



Table 1
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses
Plains Pipeline, L.P.
C. S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, NM SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness	
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)	
MW-13	2/22/06	WELL INSTALLED 2/22/06					
	3/1/06	3,809.42		77.33	3,732.09		
	5/25/06			78.35	3,731.07		
	8/14/06			79.59	3,729.83		
	11/29/06			80.51	3,728.91		
	12/12/06			80.68	3,728.74		
	1/11/07			80.48	3,728.94		
	2/8/07			80.25	3,729.17		
	2/20/07			80.86	3,728.56		
	3/6/07			80.71	3,728.71		
	3/14/07			80.82	3,728.60		
	3/27/07			79.97	3,729.45		
	3/29/07			80.70	3,728.72		
	4/3/07			81.02	3,728.40		
	4/11/07			81.62	3,727.80		
	4/17/07			81.17	3,728.25		
	5/24/07			81.19	3,728.23		
6/26/07			81.42	3,728.00			
9/14/07			81.99	3,727.43			
10/19/07			82.02	3,727.40			
12/3/07			81.91	3,727.51			
MW-14	2/21/06	WELL INSTALLED 2/21/06					
	3/1/06	3,809.46		77.31	3,732.15		
	5/25/06			78.29	3,731.17		
	8/14/06			79.41	3,730.05		
	11/29/06			80.37	3,729.09		
	12/12/06			80.51	3,728.95		
	1/11/07			80.53	3,728.93		
	2/8/07			80.20	3,729.26		
	2/20/07			80.61	3,728.85		
	3/6/07			80.65	3,728.81		
	3/14/07			80.02	3,729.44		
	3/27/07			80.85	3,728.61		
	3/29/07			80.59	3,728.87		
	4/3/07			80.91	3,728.55		
	4/11/07			80.59	3,728.87		
	4/17/07			81.04	3,728.42		
	5/24/07			81.10	3,728.36		
6/26/07			81.28	3,728.18			
9/14/07			81.88	3,727.58			
10/19/07			81.89	3,727.57			
12/3/07			81.78	3,727.68			



Table 1
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses
Plains Pipeline, L.P.
C. S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, NM SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness	
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)	
MW-15	2/22/06		WELL INSTALLED 2/22/06				
	3/1/06	3,810.77		78.50	3,732.27		
	5/25/06			79.41	3,731.36		
	8/14/06			80.54	3,730.23		
	11/29/06			81.54	3,729.23		
	12/12/06			81.63	3,729.14		
	1/11/07			81.67	3,729.10		
	2/8/07			81.43	3,729.34		
	2/20/07			81.81	3,728.96		
	3/6/07			81.85	3,728.92		
	3/14/07			81.16	3,729.61		
	3/27/07			82.07	3,728.70		
	3/29/07			81.40	3,729.37		
	4/3/07			82.11	3,728.66		
	4/11/07			82.70	3,728.07		
	4/17/07			82.24	3,728.53		
	5/24/07			82.30	3,728.47		
6/26/07			82.48	3,728.29			
9/14/07			83.05	3,727.72			
10/19/07			83.06	3,727.71			
12/3/07			83.02	3,727.75			
MW-16	2/23/06		WELL INSTALLED 2/23/06				
	3/1/06	3,812.02		79.72	3,732.30		
	5/25/06			80.58	3,731.44		
	8/14/06			81.71	3,730.31		
	11/29/06			82.74	3,729.28		
	12/12/06			82.84	3,729.18		
	1/11/07			82.90	3,729.12		
	2/8/07			82.66	3,729.36		
	2/20/07			83.06	3,728.96		
	3/6/07			83.07	3,728.95		
	3/14/07			82.69	3,729.33		
	3/27/07			83.27	3,728.75		
	3/29/07			83.01	3,729.01		
	4/3/07			83.33	3,728.69		
	4/11/07			84.02	3,728.00		
	4/17/07			83.44	3,728.58		
	5/24/07			83.55	3,728.47		
6/26/07			83.69	3,728.33			
9/14/07			84.25	3,727.77			
10/19/07			84.28	3,727.74			
12/3/07			84.24	3,727.78			



Table 1
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses
Plains Pipeline, L.P.
C. S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, NM SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness	
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)	
	2/23/06	WELL INSTALLED 2/23/06					
	3/1/06	3.810.40		78.07	3,732.33		
	5/25/06			78.92	3,731.48		
	8/14/06			80.02	3,730.38		
	11/29/06			81.10	3,729.30		
	12/12/06			81.20	3,729.20		
	1/11/07			81.25	3,729.15		
	2/8/07			81.06	3,729.34		
	2/20/07			81.45	3,728.95		
	3/6/07			81.48	3,728.92		
MW-17	3/14/07			80.89	3,729.51		
	3/27/07			81.65	3,728.75		
	3/29/07			81.40	3,729.00		
	4/3/07			81.70	3,728.70		
	4/11/07			82.11	3,728.29		
	4/17/07			81.83	3,728.57		
	5/22/07			81.92	3,728.48		
	6/26/07			82.06	3,728.34		
	9/14/07			82.59	3,727.81		
	10/19/07			82.60	3,727.80		
	12/3/07			82.56	3,727.84		

Top of casing elevations referenced to groundwater monitoring well MW-3, which was assigned an elevation of 3,760 feet amsl.

* Corrected Groundwater Elevation = Top of Casing Elevation - (Depth to Water Below Top of Casing - (SG)(PSH Thickness)).

** TD of well used for calculation of PSH thickness

-- = Not Detected

BTOC = Below Top of Casing



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
CS CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO - SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Ethyl-benzene	m,p-Xylenes	o-Xylene	Toluene
MW-1	03/29/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/14/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/03/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	03/29/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/14/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/03/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	03/29/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/14/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/03/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	03/29/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/14/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/03/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	03/29/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/14/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/03/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-6	03/29/07	0.112	0.00184	0.00841	0.00302	0.0220
	06/13/07	0.101	<0.001	0.00655	0.00264	0.0206
	09/14/07	0.0968	0.0013	0.0051	0.0029	0.0104
	12/03/07	0.1491	0.0011	0.0086	0.0046	0.0209
MW-7	03/29/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/14/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/03/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	03/29/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	06/13/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	09/14/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
	12/03/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
CS CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO - SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Ethyl-benzene	m,p-Xylenes	o-Xylene	Toluene
MW-9	03/29/07	0.0186	0.000281	0.00157	<0.001	0.000482
	06/13/07	0.00910	<0.001	0.00504	<0.001	0.000653
	09/14/07	0.0081	<0.001	0.0045	<0.001	<0.001
	12/03/07	0.0049	<0.001	0.0100	<0.001	<0.002
MW-10	03/29/07	0.00696	0.000309	0.00151	<0.001	0.00140
	06/13/07	0.00362	<0.001	0.00237	<0.001	0.00137
	09/14/07	0.0056	<0.001	0.0023	<0.001	<0.001
	12/03/07	0.0046	<0.001	<0.002	<0.001	<0.002
MW-11	03/29/07	0.000623	<0.001	0.000946	<0.001	<0.001
	06/13/07	<0.001	<0.001	0.000539	<0.001	<0.001
	09/14/07	0.0013	<0.001	<0.002	<0.001	<0.001
	12/03/07	0.0010	<0.001	<0.002	<0.001	<0.002
MW-12	03/29/07	18.4	1.46	1.71	0.745	4.65
	06/13/07	27.6	1.16	1.05	0.395	4.87
	09/14/07	18.66	0.7570	0.8450	0.2950	1.490
	12/03/07	24.91	0.6060	0.7080	0.2020	1.080
MW-13	03/29/07	0.0313	0.00508	0.00824	0.00304	0.00911
	06/13/07	0.0122	0.00207	0.00255	0.00102	0.00427
	09/14/07	<0.001	<0.001	<0.002	<0.001	<0.001
	12/03/07	0.0021	<0.001	<0.002	<0.001	<0.002
MW-14	03/29/07	0.00402	0.000542	0.000669	<0.001	0.00139
	06/13/07	0.00794	0.000965	0.00122	<0.001	0.00235
	09/14/07	0.0016	<0.001	<0.002	<0.001	<0.001
	12/03/07	<0.001	<0.001	<0.002	<0.001	<0.002
MW-15	03/29/07	0.00291	0.000344	<0.001	<0.001	0.000877
	06/13/07	0.00171	<0.001	<0.001	<0.001	<0.001
	09/14/07	0.0123	<0.001	<0.002	<0.001	0.0012
	12/03/07	0.0013	<0.001	<0.002	<0.001	<0.002
MW-16	03/29/07	0.0665	0.00154	0.00636	0.000648	0.0132
	06/13/07	0.0198	0.000741	0.00290	<0.001	0.00494
	09/14/07	0.0240	<0.001	<0.002	<0.001	0.0032
	12/03/07	0.2048	0.0015	0.0060	<0.001	0.0040
MW-17	03/29/07	0.00177	<0.001	<0.001	<0.001	0.000399
	06/13/07	0.000696	<0.001	<0.001	<0.001	<0.001
	09/14/07	<0.001	<0.001	<0.002	<0.001	<0.001
	12/03/07	0.0022	<0.001	<0.002	<0.001	<0.002
NMWQCC Remedial Limits		0.010	0.750	Total Xylenes 0.620		0.750

***Bolded** values are in excess of the NMWQCC Remediation Thresholds*



TABLE 3
SUMMARY OF GROUNDWATER POLY-AROMATIC
HYDROCARBON (PAH) ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
CS CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO - SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

All concentrations are in mg/L

Sample Location	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[ghi]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
MW-1	03/29/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-2	03/29/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-3	03/29/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-4	03/29/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-5	03/29/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-6	03/29/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-7	03/29/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-8	03/29/07	Not sampled Due to Presence of Phase Separated Hydrocarbons															
MW-9	04/03/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-10	03/29/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-11	03/29/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-12	03/29/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.091	<0.005	<0.005
MW-13	03/29/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-14	03/29/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-15	03/29/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-16	03/29/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-17	03/29/07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
NMWQCC Remedial Limits		0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030

***Bolded** values are in excess of the NMWQCC Remediation Thresholds*

APPENDIX C

Laboratory Analytical Reports and Chain of Custody Documentation

Analytical Report 279975

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

C.S. Caylor

2002-10250

04-APR-07



12600 West I-20 East Odessa, Texas 79765

NELAC certification numbers:

Houston, TX E87603 - Miami, FL E86678 - Tampa, FL E86675

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



04-APR-07

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

Reference: XENCO Report No: **279975**
C.S. Caylor
Project Address:

Camille Reynolds:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 279975. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 279975 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron

Odessa Laboratory Director

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Certificate of Analysis Summary 279975

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Name: C.S. Caylor

Project Id: 2002-10250

Date Received in Lab: Mar-30-07 08:45 am

Contact: Camille Reynolds

Report Date: 04-APR-07

Project Location:

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	279975-001	279975-003	279975-004	279975-005			
	Field Id:	MW-6	MW-10	MW-11	MW-12			
	Depth:							
	Matrix:	WATER	WATER	WATER	WATER			
	Sampled:	Mar-29-07 14:27	Mar-29-07 13:40	Mar-29-07 13:53	Mar-29-07 14:04			
SVOA PAHs List by EPA 8270C	Extracted:	Apr-02-07 10:36	Apr-02-07 10:38	Apr-02-07 10:40	Apr-02-07 10:42			
	Analyzed:	Apr-03-07 16:33	Apr-03-07 17:16	Apr-03-07 18:00	Apr-03-07 18:43			
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL			
Acenaphthene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Acenaphthylene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Anthracene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(a)anthracene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(a)pyrene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(b)fluoranthene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(k)fluoranthene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(g,h,i)perylene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Chrysene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Dibenz(a,h)Anthracene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Fluoranthene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Fluorene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Indeno(1,2,3-c,d)Pyrene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Naphthalene	ND	0.005	ND	0.005	ND	0.005	0.091	0.005
Phenanthrene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Pyrene	ND	0.005	ND	0.005	ND	0.005	ND	0.005

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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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 279975

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Name: C.S. Caylor

Project Id: 2002-10250

Date Received in Lab: Mar-30-07 08:45 am

Contact: Camille Reynolds

Report Date: 04-APR-07

Project Location:

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	279975-006	279975-007	279975-008	279975-009				
	<i>Field Id:</i>	MW-13	MW-14	MW-15	MW-16				
	<i>Depth:</i>								
	<i>Matrix:</i>	WATER	WATER	WATER	WATER				
	<i>Sampled:</i>	Mar-29-07 14:14	Mar-29-07 14:21	Mar-29-07 14:37	Mar-29-07 14:40				
SVOA PAHs List by EPA 8270C	<i>Extracted:</i>	Apr-02-07 10:44	Apr-02-07 10:46	Apr-02-07 10:48	Apr-02-07 10:50				
	<i>Analyzed:</i>	Apr-03-07 19:26	Apr-03-07 20:09	Apr-03-07 20:52	Apr-03-07 21:35				
	<i>Units/RL:</i>	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Acenaphthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Acenaphthylene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Anthracene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(a)anthracene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(a)pyrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(b)fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(k)fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Benzo(g,h,i)perylene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Chrysene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Dibenz(a,h)Anthracene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Fluoranthene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Fluorene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Indeno(1,2,3-c,d)Pyrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Naphthalene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Phenanthrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Pyrene		ND	0.005	ND	0.005	ND	0.005	ND	0.005

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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Brent Barron

Odessa Laboratory Director



Certificate of Analysis Summary 279975

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Name: C.S. Caylor

Project Id: 2002-10250

Date Received in Lab: Mar-30-07 08:45 am

Contact: Camille Reynolds

Report Date: 04-APR-07

Project Location:

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	279975-010	
	Field Id:	MW-17	
	Depth:		
	Matrix:	WATER	
	Sampled:	Mar-29-07 14:27	
SVOA PAHs List by EPA 8270C	Extracted:	Apr-02-07 10:52	
	Analyzed:	Apr-03-07 22:19	
	Units/RL:	mg/L	RL
Acenaphthene	ND	0.005	
Acenaphthylene	ND	0.005	
Anthracene	ND	0.005	
Benzo(a)anthracene	ND	0.005	
Benzo(a)pyrene	ND	0.005	
Benzo(b)fluoranthene	ND	0.005	
Benzo(k)fluoranthene	ND	0.005	
Benzo(g,h,i)perylene	ND	0.005	
Chrysene	ND	0.005	
Dibenz(a,h)Anthracene	ND	0.005	
Fluoranthene	ND	0.005	
Fluorene	ND	0.005	
Indeno(1,2,3-c,d)Pyrene	ND	0.005	
Naphthalene	ND	0.005	
Phenanthrene	ND	0.005	
Pyrene	ND	0.005	

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 Brent Barron
 Odessa Laboratory Director

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

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(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries



Project Name: C.S. Caylor

Work Order #: 279975

Project ID: 2002-10250

Lab Batch #: 694393

Sample: 279817-001 S / MS

Batch: 1 Matrix: Sludge

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.184	0.250	74	43-116	
2-Fluorophenol	0.158	0.250	63	21-100	
Nitrobenzene-d5	0.172	0.250	69	35-114	
Phenol-d6	0.134	0.250	54	10-94	
Terphenyl-D14	0.203	0.250	81	33-141	
2,4,6-Tribromophenol	0.210	0.250	84	10-123	

Lab Batch #: 694393

Sample: 279975-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.050	74	43-116	
2-Fluorophenol	0.019	0.050	38	21-100	
Nitrobenzene-d5	0.036	0.050	72	35-114	
Phenol-d6	0.011	0.050	22	10-94	
Terphenyl-D14	0.038	0.050	76	33-141	
2,4,6-Tribromophenol	0.042	0.050	84	10-123	

Lab Batch #: 694393

Sample: 279975-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.035	0.050	70	43-116	
2-Fluorophenol	0.014	0.050	28	21-100	
Nitrobenzene-d5	0.032	0.050	64	35-114	
Phenol-d6	0.008	0.050	16	10-94	
Terphenyl-D14	0.032	0.050	64	33-141	
2,4,6-Tribromophenol	0.040	0.050	80	10-123	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries



Project Name: C.S. Caylor

Work Order #: 279975

Project ID: 2002-10250

Lab Batch #: 694393

Sample: 279975-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
SVOA PAHs List by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.036	0.050	72	43-116	
2-Fluorophenol	0.016	0.050	32	21-100	
Nitrobenzene-d5	0.036	0.050	72	35-114	
Phenol-d6	0.009	0.050	18	10-94	
Terphenyl-D14	0.040	0.050	80	33-141	
2,4,6-Tribromophenol	0.042	0.050	84	10-123	

Lab Batch #: 694393

Sample: 279975-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
SVOA PAHs List by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.033	0.050	66	43-116	
2-Fluorophenol	0.014	0.050	28	21-100	
Nitrobenzene-d5	0.033	0.050	66	35-114	
Phenol-d6	0.009	0.050	18	10-94	
Terphenyl-D14	0.034	0.050	68	33-141	
2,4,6-Tribromophenol	0.042	0.050	84	10-123	

Lab Batch #: 694393

Sample: 279975-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
SVOA PAHs List by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.039	0.050	78	43-116	
2-Fluorophenol	0.019	0.050	38	21-100	
Nitrobenzene-d5	0.039	0.050	78	35-114	
Phenol-d6	0.010	0.050	20	10-94	
Terphenyl-D14	0.042	0.050	84	33-141	
2,4,6-Tribromophenol	0.043	0.050	86	10-123	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries



Project Name: C.S. Caylor

Work Order #: 279975

Project ID: 2002-10250

Lab Batch #: 694393

Sample: 279975-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.035	0.050	70	43-116	
2-Fluorophenol	0.016	0.050	32	21-100	
Nitrobenzene-d5	0.034	0.050	68	35-114	
Phenol-d6	0.009	0.050	18	10-94	
Terphenyl-D14	0.037	0.050	74	33-141	
2,4,6-Tribromophenol	0.041	0.050	82	10-123	

Lab Batch #: 694393

Sample: 279975-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.064	0.100	64	43-116	
2-Fluorophenol	0.029	0.100	29	21-100	
Nitrobenzene-d5	0.064	0.100	64	35-114	
Phenol-d6	0.016	0.100	16	10-94	
Terphenyl-D14	0.064	0.100	64	33-141	
2,4,6-Tribromophenol	0.075	0.100	75	10-123	

Lab Batch #: 694393

Sample: 279975-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.034	0.050	68	43-116	
2-Fluorophenol	0.014	0.050	28	21-100	
Nitrobenzene-d5	0.033	0.050	66	35-114	
Phenol-d6	0.008	0.050	16	10-94	
Terphenyl-D14	0.036	0.050	72	33-141	
2,4,6-Tribromophenol	0.038	0.050	76	10-123	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries



Project Name: C.S. Caylor

Work Order #: 279975

Project ID: 2002-10250

Lab Batch #: 694393

Sample: 279975-010 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.035	0.050	70	43-116	
2-Fluorophenol	0.019	0.050	38	21-100	
Nitrobenzene-d5	0.036	0.050	72	35-114	
Phenol-d6	0.010	0.050	20	10-94	
Terphenyl-D14	0.037	0.050	74	33-141	
2,4,6-Tribromophenol	0.037	0.050	74	10-123	

Lab Batch #: 694393

Sample: 493724-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.038	0.050	76	43-116	
2-Fluorophenol	0.030	0.050	60	21-100	
Nitrobenzene-d5	0.036	0.050	72	35-114	
Phenol-d6	0.022	0.050	44	10-94	
Terphenyl-D14	0.041	0.050	82	33-141	
2,4,6-Tribromophenol	0.042	0.050	84	10-123	

Lab Batch #: 694393

Sample: 493724-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.050	74	43-116	
2-Fluorophenol	0.028	0.050	56	21-100	
Nitrobenzene-d5	0.036	0.050	72	35-114	
Phenol-d6	0.020	0.050	40	10-94	
Terphenyl-D14	0.041	0.050	82	33-141	
2,4,6-Tribromophenol	0.039	0.050	78	10-123	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries



Project Name: C.S. Caylor

Work Order #: 279975

Project ID: 2002-10250

Lab Batch #: 694393

Sample: 493724-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SVOA PAHs List by EPA 8270C		SURROGATE RECOVERY STUDY			
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.041	0.050	82	43-116	
2-Fluorophenol	0.032	0.050	64	21-100	
Nitrobenzene-d5	0.039	0.050	78	35-114	
Phenol-d6	0.023	0.050	46	10-94	
Terphenyl-D14	0.043	0.050	86	33-141	
2,4,6-Tribromophenol	0.045	0.050	90	10-123	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

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



BS / BSD Recoveries



Project Name: C.S. Caylor

Work Order #: 279975

Project ID: 2002-10250

Analyst: TTD

Date Analyzed: 04/03/2007

Date Prepared: 04/02/2007

Lab Batch ID: 694393

Batch #: 1

Matrix: Water

Sample: 493724-1-BKS

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acenaphthene	ND	0.050	0.037	74	0.05	0.040	80	8	27-132	31	
Acenaphthylene	ND	0.050	0.037	74	0.05	0.040	80	8	46-108	25	
Anthracene	ND	0.050	0.038	76	0.05	0.040	80	5	47-145	25	
Benzo(a)anthracene	ND	0.050	0.039	78	0.05	0.041	82	5	33-143	25	
Benzo(a)pyrene	ND	0.050	0.039	78	0.05	0.041	82	5	65-135	25	
Benzo(b)fluoranthene	ND	0.050	0.040	80	0.05	0.043	86	7	24-159	25	
Benzo(k)fluoranthene	ND	0.050	0.039	78	0.05	0.040	80	3	25-125	25	
Benzo(g,h,i)perylene	ND	0.050	0.041	82	0.05	0.043	86	5	65-135	25	
Chrysene	ND	0.050	0.039	78	0.05	0.041	82	5	65-135	25	
Dibenz(a,h)Anthracene	ND	0.050	0.040	80	0.05	0.042	84	5	50-125	25	
Fluoranthene	ND	0.050	0.040	80	0.05	0.042	84	5	47-125	25	
Fluorene	ND	0.050	0.038	76	0.05	0.041	82	8	48-139	25	
Indeno(1,2,3-c,d)Pyrene	ND	0.050	0.039	78	0.05	0.041	82	5	27-160	25	
Naphthalene	ND	0.050	0.036	72	0.05	0.040	80	11	26-175	25	
Phenanthrene	ND	0.050	0.039	78	0.05	0.040	80	3	65-135	25	
Pyrene	ND	0.050	0.039	78	0.05	0.041	82	5	23-152	31	

Relative Percent Difference RPD = $200 * [(D-F)/(D+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: C.S. Caylor

Work Order #: 279975

Lab Batch #: 694393

Project ID: 2002-10250

Date Analyzed: 04/03/2007

Date Prepared: 04/02/2007

Analyst: TTD

QC- Sample ID: 279817-001 S

Batch #: 1

Matrix: Sludge

Reporting Units: mg/L

MATRIX / MATRIX SPIKE RECOVERY STUDY

SVOA PAHs List by EPA 8270C	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Acenaphthene	ND	0.250	0.183	73	27-132	
Acenaphthylene	ND	0.250	0.174	70	46-108	
Anthracene	ND	0.250	0.189	76	47-145	
Benzo(a)anthracene	ND	0.250	0.189	76	33-143	
Benzo(a)pyrene	ND	0.250	0.190	76	65-135	
Benzo(b)fluoranthene	ND	0.250	0.199	80	24-159	
Benzo(k)fluoranthene	ND	0.250	0.194	78	25-125	
Benzo(g,h,i)perylene	ND	0.250	0.106	42	65-135	X
Chrysene	ND	0.250	0.187	75	65-135	
Dibenz(a,h)Anthracene	ND	0.250	0.114	46	50-125	X
Fluoranthene	ND	0.250	0.193	77	47-125	
Fluorene	ND	0.250	0.188	75	48-139	
Indeno(1,2,3-c,d)Pyrene	ND	0.250	0.113	45	27-160	
Naphthalene	ND	0.250	0.180	72	26-175	
Phenanthrene	ND	0.250	0.188	75	65-135	
Pyrene	ND	0.250	0.199	80	23-152	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference [E] = 200*(C-A)/(C+B)

All Results are based on MDL and Validated for QC Purposes

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Tulon Plains
 Date/ Time: 3/30/07 8:45
 Lab ID #: 7CB0004
 Initials: CK

Sample Receipt Checklist

				Client Initials
1 Temperature of container/ cooler?	Yes	No	0.5 ° C	
2 Shipping container in good condition?	Yes	No		
3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
5 Chain of Custody present?	Yes	No		
6 Sample instructions complete of Chain of Custody?	Yes	No		
7 Chain of Custody signed when relinquished/ received?	Yes	No		
8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
9 Container label(s) legible and intact?	Yes	No	Not Applicable	
10 Sample matrix/ properties agree with Chain of Custody?	Yes	No		
11 Containers supplied by ELOT?	Yes	No		
12 Samples in proper container/ bottle?	Yes	No	See Below	
13 Samples properly preserved?	Yes	No	See Below	
14 Sample bottles intact?	Yes	No		
15 Preservations documented on Chain of Custody?	Yes	No		
16 Containers documented on Chain of Custody?	Yes	No		
17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
18 All samples received within sufficient hold time?	Yes	No	See Below	
19 Subcontract of sample(s)?	Yes	No	Not Applicable	
20 VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

ENVIRONMENTAL LAB OF



12600 West Loop West, Suite 1000, Houston, Texas 77069

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: C.S. Cayler

Project Number: 2002-10250

Location: None Given

Lab Order Number: 7C30004

Report Date: 04/06/07

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6	7C30004-01	Water	03/29/07 14:27	03-30-2007 08:45
MW-9	7C30004-02	Water	03/29/07 13:29	03-30-2007 08:45
MW-10	7C30004-03	Water	03/29/07 13:40	03-30-2007 08:45
MW-11	7C30004-04	Water	03/29/07 13:53	03-30-2007 08:45
MW-12	7C30004-05	Water	03/29/07 14:04	03-30-2007 08:45
MW-13	7C30004-06	Water	03/29/07 14:14	03-30-2007 08:45
MW-14	7C30004-07	Water	03/29/07 14:21	03-30-2007 08:45
MW-15	7C30004-08	Water	03/29/07 14:37	03-30-2007 08:45
MW-16	7C30004-09	Water	03/29/07 14:40	03-30-2007 08:45
MW-17	7C30004-10	Water	03/29/07 14:27	03-30-2007 08:45

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

Project: C.S. Cayler
 Project Number: 2002-10250
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC
 Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (7C30004-01) Water									
Benzene	0.112	0.00100	mg/L	1	ED70506	04/05/07	04/05/07	EPA 8021B	
Toluene	0.0220	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00184	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00841	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00302	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		111 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.4 %	80-120		"	"	"	"	
MW-9 (7C30004-02) Water									
Benzene	0.0186	0.00100	mg/L	1	ED70506	04/05/07	04/05/07	EPA 8021B	
Toluene	J [0.000482]	0.00100	"	"	"	"	"	"	
Ethylbenzene	J [0.000281]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00157	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		106 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.6 %	80-120		"	"	"	"	
MW-10 (7C30004-03) Water									
Benzene	0.00696	0.00100	mg/L	1	ED70506	04/05/07	04/05/07	EPA 8021B	
Toluene	0.00140	0.00100	"	"	"	"	"	"	
Ethylbenzene	J [0.000309]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00151	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		106 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	80-120		"	"	"	"	
MW-11 (7C30004-04) Water									
Benzene	J [0.000623]	0.00100	mg/L	1	ED70506	04/05/07	04/05/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	J [0.000946]	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.6 %	80-120		"	"	"	"	

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

Project: C.S. Cayler
 Project Number: 2002-10250
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12 (7C30004-05) Water									
Benzene	18.4	0.0500	mg/L	50	ED70506	04/05/07	04/06/07	EPA 8021B	
Toluene	4.65	0.0500	"	"	"	"	"	"	
Ethylbenzene	1.46	0.0500	"	"	"	"	"	"	
Xylene (p/m)	1.71	0.0500	"	"	"	"	"	"	
Xylene (o)	0.745	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		110 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.6 %		80-120	"	"	"	"	
MW-13 (7C30004-06) Water									
Benzene	0.0313	0.00100	mg/L	1	ED70506	04/05/07	04/05/07	EPA 8021B	
Toluene	0.00911	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00508	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00824	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00304	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		108 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.6 %		80-120	"	"	"	"	
MW-14 (7C30004-07) Water									
Benzene	0.00402	0.00100	mg/L	1	ED70506	04/05/07	04/05/07	EPA 8021B	
Toluene	0.00139	0.00100	"	"	"	"	"	"	
Ethylbenzene	J [0.000542]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	J [0.000669]	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		106 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.2 %		80-120	"	"	"	"	
MW-15 (7C30004-08) Water									
Benzene	0.00291	0.00100	mg/L	1	ED70506	04/05/07	04/05/07	EPA 8021B	
Toluene	J [0.000877]	0.00100	"	"	"	"	"	"	
Ethylbenzene	J [0.000344]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		103 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %		80-120	"	"	"	"	

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 Midland TX, 79706-4476

Project: C.S. Cayler
 Project Number: 2002-10250
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC
 Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-16 (7C30004-09) Water

Benzene	0.0665	0.00100	mg/L	1	ED70506	04/05/07	04/05/07	EPA 8021B	
Toluene	0.0132	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00154	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00636	0.00100	"	"	"	"	"	"	
Xylene (o)	J [0.000648]	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		111 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.6 %	80-120	"	"	"	"	"	

MW-17 (7C30004-10) Water

Benzene	0.00177	0.00100	mg/L	1	ED70506	04/05/07	04/05/07	EPA 8021B	
Toluene	J [0.000399]	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		101 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.2 %	80-120	"	"	"	"	"	

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED70506 - EPA 5030C (GC)										
Blank (ED70506-BLK1)										
Prepared & Analyzed: 04/05/07										
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	53.5		ug/l	50.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	44.5		"	50.0		89.0	80-120			
LCS (ED70506-BS1)										
Prepared & Analyzed: 04/05/07										
Benzene	0.0493	0.00100	mg/L	0.0500		98.6	80-120			
Toluene	0.0466	0.00100	"	0.0500		93.2	80-120			
Ethylbenzene	0.0489	0.00100	"	0.0500		97.8	80-120			
Xylene (p/m)	0.0910	0.00100	"	0.100		91.0	80-120			
Xylene (o)	0.0499	0.00100	"	0.0500		99.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	49.8		ug/l	50.0		99.6	80-120			
Surrogate: 4-Bromofluorobenzene	47.0		"	50.0		94.0	80-120			
Calibration Check (ED70506-CCV1)										
Prepared & Analyzed: 04/05/07										
Benzene	55.0		ug/l	50.0		110	80-120			
Toluene	50.8		"	50.0		102	80-120			
Ethylbenzene	50.8		"	50.0		102	80-120			
Xylene (p/m)	91.8		"	100		91.8	80-120			
Xylene (o)	52.7		"	50.0		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	54.8		"	50.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	48.1		"	50.0		96.2	80-120			
Matrix Spike (ED70506-MS1)										
Source: 7C30008-01										
Prepared & Analyzed: 04/05/07										
Benzene	0.0531	0.00100	mg/L	0.0500	ND	106	80-120			
Toluene	0.0495	0.00100	"	0.0500	ND	99.0	80-120			
Ethylbenzene	0.0488	0.00100	"	0.0500	ND	97.6	80-120			
Xylene (p/m)	0.0931	0.00100	"	0.100	ND	93.1	80-120			
Xylene (o)	0.0527	0.00100	"	0.0500	ND	105	80-120			
Surrogate: a,a,a-Trifluorotoluene	55.2		ug/l	50.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	51.0		"	50.0		102	80-120			

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

Project: C.S. Cayler
 Project Number: 2002-10250
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC - Quality Control
 Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED70506 - EPA 5030C (GC)										
Matrix Spike Dup (ED70506-MSD1)		Source: 7C30008-01		Prepared & Analyzed: 04/05/07						
Benzene	0.0526	0.00100	mg/L	0.0500	ND	105	80-120	0.948	20	
Toluene	0.0493	0.00100	"	0.0500	ND	98.6	80-120	0.405	20	
Ethylbenzene	0.0504	0.00100	"	0.0500	ND	101	80-120	3.42	20	
Xylene (p/m)	0.0919	0.00100	"	0.100	ND	91.9	80-120	1.30	20	
Xylene (o)	0.0521	0.00100	"	0.0500	ND	104	80-120	0.957	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	52.3		ug/l	50.0		105	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.0		"	50.0		96.0	80-120			

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By: Coley D. Keene

Date: 04/06/07

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

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

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

Page 7 of 7

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Analytical Report 280290

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

C.S. Cayler

SRS# 2002-10250

12-APR-07



12600 West I-20 East Odessa, Texas 79765

NELAC certification numbers:

Houston, TX E87603 - Miami, FL E86678 - Tampa, FL E86675

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



12-APR-07

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

Reference: XENCO Report No: **280290**
C.S. Cayler
Project Address: Lea County, NM

Camille Reynolds:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 280290. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 280290 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron

Odessa Laboratory Director

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Certificate of Analysis Summary 280290

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Name: C.S. Cayler

Project Id: SRS# 2002-10250
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Apr-05-07 12:35 pm
Report Date: 30-APR-07
Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	280290-001	<i>Field Id:</i>	MW-9
	<i>Depth:</i>		<i>Matrix:</i>	WATER
	<i>Sampled:</i>	Apr-03-07 12:35		
SVOA PAHs List by EPA 8270C	<i>Extracted:</i>	Apr-06-07 14:06		
	<i>Analyzed:</i>	Apr-09-07 16:27		
	<i>Units/RL:</i>	mg/L RL		
Acenaphthene		ND	0.005	
Acenaphthylene		ND	0.005	
Anthracene		ND	0.005	
Benzo(a)anthracene		ND	0.005	
Benzo(a)pyrene		ND	0.005	
Benzo(b)fluoranthene		ND	0.005	
Benzo(k)fluoranthene		ND	0.005	
Benzo(g,h,i)perylene		ND	0.005	
Chrysene		ND	0.005	
Dibenz(a,h)Anthracene		ND	0.005	
Fluoranthene		ND	0.005	
Fluorene		ND	0.005	
Indeno(1,2,3-c,d)Pyrene		ND	0.005	
Naphthalene		ND	0.005	
Phenanthrene		ND	0.005	
Pyrene		ND	0.005	

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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Version: 1.001

Brent Barron
 Odessa Laboratory Director

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

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(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: C.S. Cayler



Work Order #: 280290

Project ID: SRS# 2002-10250

Lab Batch #: 694754

Sample: 280290-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.034	0.050	68	43-116	
2-Fluorophenol	0.016	0.050	32	21-100	
Nitrobenzene-d5	0.032	0.050	64	35-114	
Phenol-d6	0.008	0.050	16	10-94	
Terphenyl-D14	0.033	0.050	66	33-141	
2,4,6-Tribromophenol	0.039	0.050	78	10-123	

Lab Batch #: 694754

Sample: 493968-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.041	0.050	82	43-116	
2-Fluorophenol	0.031	0.050	62	21-100	
Nitrobenzene-d5	0.037	0.050	74	35-114	
Phenol-d6	0.020	0.050	40	10-94	
Terphenyl-D14	0.042	0.050	84	33-141	
2,4,6-Tribromophenol	0.043	0.050	86	10-123	

Lab Batch #: 694754

Sample: 493968-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.040	0.050	80	43-116	
2-Fluorophenol	0.028	0.050	56	21-100	
Nitrobenzene-d5	0.037	0.050	74	35-114	
Phenol-d6	0.017	0.050	34	10-94	
Terphenyl-D14	0.044	0.050	88	33-141	
2,4,6-Tribromophenol	0.040	0.050	80	10-123	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries



Project Name: C.S. Cayler

Work Order #: 280290

Project ID: SRS# 2002-10250

Lab Batch #: 694754

Sample: 493968-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.039	0.050	78	43-116	
2-Fluorophenol	0.029	0.050	58	21-100	
Nitrobenzene-d5	0.036	0.050	72	35-114	
Phenol-d6	0.018	0.050	36	10-94	
Terphenyl-D14	0.042	0.050	84	33-141	
2,4,6-Tribromophenol	0.043	0.050	86	10-123	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

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



BS / BSD Recoveries



Project Name: C.S. Cayler

Work Order #: 280290

Analyst: TTD

Date Prepared: 04/06/2007

Project ID: SRS# 2002-10250

Date Analyzed: 04/09/2007

Lab Batch ID: 694754

Sample: 493968-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
SVOA PAHs List by EPA 8270C											
Acenaphthene	ND	0.050	0.041	82	0.05	0.040	80	2	27-132	31	
Acenaphthylene	ND	0.050	0.041	82	0.05	0.040	80	2	46-108	25	
Anthracene	ND	0.050	0.042	84	0.05	0.041	82	2	47-145	25	
Benzo(a)anthracene	ND	0.050	0.042	84	0.05	0.041	82	2	33-143	25	
Benzo(a)pyrene	ND	0.050	0.043	86	0.05	0.042	84	2	65-135	25	
Benzo(b)fluoranthene	ND	0.050	0.042	84	0.05	0.042	84	0	24-159	25	
Benzo(k)fluoranthene	ND	0.050	0.044	88	0.05	0.042	84	5	25-125	25	
Benzo(g,h,i)perylene	ND	0.050	0.040	80	0.05	0.040	80	0	65-135	25	
Chrysene	ND	0.050	0.042	84	0.05	0.041	82	2	65-135	25	
Dibenz(a,h)Anthracene	ND	0.050	0.039	78	0.05	0.039	78	0	50-125	25	
Fluoranthene	ND	0.050	0.044	88	0.05	0.042	84	5	47-125	25	
Fluorene	ND	0.050	0.042	84	0.05	0.041	82	2	48-139	25	
Indeno(1,2,3-c,d)Pyrene	ND	0.050	0.041	82	0.05	0.039	78	5	27-160	25	
Naphthalene	ND	0.050	0.040	80	0.05	0.040	80	0	26-175	25	
Phenanthrene	ND	0.050	0.042	84	0.05	0.041	82	2	65-135	25	
Pyrene	ND	0.050	0.042	84	0.05	0.042	84	0	23-152	31	

Relative Percent Difference RPD = $100 * |(D-F)/(D+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Environmental Lab of Texas
 Variance/ Corrective Action Report- Sample Log-In

Client: Plains
 Date/ Time: 4-5-07 12:35
 Lab ID #: 7D05008
 Initials: GL

Sample Receipt Checklist

Client Initials

	Yes	No		° C	
#1 Temperature of container/ cooler?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0		
#2 Shipping container in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
#3 Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Present		
#4 Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Present		
#5 Chain of Custody present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
#6 Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
#7 Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
#8 Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID written on Cont./ Lid		
#9 Container label(s) legible and intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Applicable		
#10 Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
#11 Containers supplied by ELOT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
#12 Samples in proper container/ bottle?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below		
#13 Samples properly preserved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below		
#14 Sample bottles intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
#15 Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
#16 Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
#17 Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below		
#18 All samples received within sufficient hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below		
#19 Subcontract of sample(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Applicable		
#20 VOC samples have zero headspace?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Applicable		

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

ENVIRONMENTAL LAB OF



12000 North Loop East, Suite 1000, Houston, Texas 77060

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: C.S. Cayler Gathering

Project Number: 2002-10250

Location: Lea County, NM

Lab Order Number: 7F15001

Report Date: 06/22/07

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

Project: C.S. Cayler Gathering
Project Number: 2002-10250
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6	7F15001-01	Water	06/13/07 14:42	06-14-2007 16:15
MW-9	7F15001-02	Water	06/13/07 14:04	06-14-2007 16:15
MW-10	7F15001-03	Water	06/13/07 14:09	06-14-2007 16:15
MW-11	7F15001-04	Water	06/13/07 14:18	06-14-2007 16:15
MW-12	7F15001-05	Water	06/13/07 14:25	06-14-2007 16:15
MW-13	7F15001-06	Water	06/13/07 14:31	06-14-2007 16:15
MW-14	7F15001-07	Water	06/13/07 14:38	06-14-2007 16:15
MW-15	7F15001-08	Water	06/13/07 14:50	06-14-2007 16:15
MW-16	7F15001-09	Water	06/13/07 14:55	06-14-2007 16:15
MW-17	7F15001-10	Water	06/13/07 15:02	06-14-2007 16:15

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

Project: C.S. Cayler Gathering
 Project Number: 2002-10250
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (7F15001-01) Water									
Benzene	0.101	0.00100	mg/L	1	EF71907	06/19/07	06/20/07	EPA 8021B	
Toluene	0.0206	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00655	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00264	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	80-120		"	"	"	"	
MW-9 (7F15001-02) Water									
Benzene	0.00910	0.00100	mg/L	1	EF71907	06/19/07	06/20/07	EPA 8021B	
Toluene	I [0.000653]	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00504	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		115 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.4 %	80-120		"	"	"	"	
MW-10 (7F15001-03) Water									
Benzene	0.00362	0.00100	mg/L	1	EF71907	06/19/07	06/20/07	EPA 8021B	
Toluene	0.00137	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00237	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		103 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.6 %	80-120		"	"	"	"	
MW-11 (7F15001-04) Water									
Benzene	ND	0.00100	mg/L	1	EF71907	06/19/07	06/20/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	I [0.000539]	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		101 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.2 %	80-120		"	"	"	"	

Environmental Lab of Texas

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

Project: C.S. Cayler Gathering
 Project Number: 2002-10250
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12 (7F15001-05) Water									
Benzene	27.6	1.00	mg/L	1000	EF71907	06/19/07	06/22/07	EPA 8021B	
Toluene	4.87	1.00	"	"	"	"	"	"	
Ethylbenzene	1.16	1.00	"	"	"	"	"	"	
Xylene (p/m)	1.05	1.00	"	"	"	"	"	"	
Xylene (o)	J [0.395]	1.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		106 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.6 %	80-120		"	"	"	"	
MW-13 (7F15001-06) Water									
Benzene	0.0122	0.00100	mg/L	1	EF71907	06/19/07	06/20/07	EPA 8021B	
Toluene	0.00427	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00207	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00255	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00102	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.2 %	80-120		"	"	"	"	
MW-14 (7F15001-07) Water									
Benzene	0.00794	0.00100	mg/L	1	EF71907	06/19/07	06/20/07	EPA 8021B	
Toluene	0.00235	0.00100	"	"	"	"	"	"	
Ethylbenzene	J [0.000965]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00122	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		103 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.2 %	80-120		"	"	"	"	
MW-15 (7F15001-08) Water									
Benzene	0.00171	0.00100	mg/L	1	EF71907	06/19/07	06/20/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.6 %	80-120		"	"	"	"	

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

Project: C.S. Cayler Gathering
 Project Number: 2002-10250
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-16 (7F15001-09) Water									
Benzene	0.0198	0.00100	mg/L	1	EF71907	06/19/07	06/20/07	EPA 8021B	
Toluene	0.00494	0.00100	"	"	"	"	"	"	
Ethylbenzene	I [0.000741]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00290	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		73.8 %	80-120		"	"	"	"	S-04
MW-17 (7F15001-10) Water									
Benzene	I [0.000696]	0.00100	mg/L	1	EF71907	06/19/07	06/20/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		106 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.2 %	80-120		"	"	"	"	

Environmental Lab of Texas

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

Project: C.S. Cayler Gathering
 Project Number: 2002-10250
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71907 - EPA 5030C (GC)										
Blank (EF71907-BLK1) Prepared: 06/19/07 Analyzed: 06/20/07										
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	51.5		ug/l	50.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	45.5		"	50.0		91.0	80-120			
LCS (EF71907-BS1) Prepared: 06/19/07 Analyzed: 06/20/07										
Benzene	0.0487	0.00100	mg/L	0.0500		97.4	80-120			
Toluene	0.0489	0.00100	"	0.0500		97.8	80-120			
Ethylbenzene	0.0531	0.00100	"	0.0500		106	80-120			
Xylene (p/m)	0.0940	0.00100	"	0.100		94.0	80-120			
Xylene (o)	0.0515	0.00100	"	0.0500		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	50.7		ug/l	50.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	48.4		"	50.0		96.8	80-120			
Calibration Check (EF71907-CCV1) Prepared: 06/19/07 Analyzed: 06/20/07										
Benzene	0.0450		mg/L	0.0500		90.0	80-120			
Toluene	0.0451		"	0.0500		90.2	80-120			
Ethylbenzene	0.0449		"	0.0500		89.8	80-120			
Xylene (p/m)	0.0817		"	0.100		81.7	80-120			
Xylene (o)	0.0460		"	0.0500		92.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	51.4		ug/l	50.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	49.3		"	50.0		98.6	80-120			
Matrix Spike (EF71907-MS1) Source: 7F14024-01 Prepared: 06/19/07 Analyzed: 06/20/07										
Benzene	0.0495	0.00100	mg/L	0.0500	0.00614	86.7	80-120			
Toluene	0.0491	0.00100	"	0.0500	0.00436	89.5	80-120			
Ethylbenzene	0.0488	0.00100	"	0.0500	ND	97.6	80-120			
Xylene (p/m)	0.0846	0.00100	"	0.100	0.000642	84.0	80-120			
Xylene (o)	0.0475	0.00100	"	0.0500	ND	95.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	52.5		ug/l	50.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	48.2		"	50.0		96.4	80-120			

Environmental Lab of Texas

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

Project: C.S. Cayler Gathering
 Project Number: 2002-10250
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch EF71907 - EPA 5030C (GC)

Matrix Spike Dup (EF71907-MSD1)

Source: 7F14024-01

Prepared: 06/19/07 Analyzed: 06/20/07

Benzene	0.0445	0.00100	mg/L	0.0500	0.00614	76.7	80-120	12.2	20	M8
Toluene	0.0454	0.00100	"	0.0500	0.00436	82.1	80-120	8.62	20	
Ethylbenzene	0.0445	0.00100	"	0.0500	ND	89.0	80-120	9.22	20	
Xylene (p/m)	0.0774	0.00100	"	0.100	0.000642	76.8	80-120	8.96	20	M8
Xylene (o)	0.0431	0.00100	"	0.0500	ND	86.2	80-120	9.71	20	
Surrogate: a,a,a-Trifluorotoluene	54.6		ug/l	50.0		109	80-120			
Surrogate: 4-Bromofluorobenzene	49.2		"	50.0		98.4	80-120			

Environmental Lab of Texas

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Page 6 of 7

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

Project: C.S. Cayler Gathering
Project Number: 2002-10250
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: _____



Date: 6/22/2007

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

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

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

Environmental Lab of Texas

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Page 7 of 7

Analytical Report 289708

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

C. S. Cayler

2002-10250

21-SEP-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers:

Houston, TX T104704215

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

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



21-SEP-07

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

Reference: XENCO Report No: **289708**
C. S. Cayler
Project Address: Lea County, NM

Camille Reynolds:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 289708. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 289708 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron

Odessa Laboratory Director

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Sample Cross Reference 289708



PLAINS ALL AMERICAN EH&S, Midland, TX

C. S. Cayler

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-6	W	Sep-14-07 13:39		289708-001
MW-9	W	Sep-14-07 13:05		289708-002
MW-10	W	Sep-14-07 13:15		289708-003
MW-11	W	Sep-14-07 13:19		289708-004
MW-12	W	Sep-14-07 13:23		289708-005
MW-13	W	Sep-14-07 13:27		289708-006
MW-14	W	Sep-14-07 13:11		289708-007
MW-15	W	Sep-14-07 14:09		289708-008
MW-16	W	Sep-14-07 13:31		289708-009
MW-17	W	Sep-14-07 13:35		289708-010



Certificate of Analysis Summary 289708

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Id: 2002-10250

Contact: Camille Reynolds

Project Location: Lea County, NM

Project Name: C. S. Cayler

Date Received in Lab: Mon Sep-17-07 10:45 am

Report Date: 21-SEP-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	289708-001	289708-002	289708-003	289708-004	289708-005	289708-006
	Field Id:	MW-6	MW-9	MW-10	MW-11	MW-12	MW-13
	Depth:						
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	Sampled:	Sep-14-07 13:39	Sep-14-07 13:05	Sep-14-07 13:15	Sep-14-07 13:19	Sep-14-07 13:23	Sep-14-07 13:27
	Extracted:	Sep-19-07 09:01	Sep-19-07 09:01	Sep-19-07 09:01	Sep-20-07 08:40	Sep-20-07 08:40	Sep-20-07 08:40
	Analyzed:	Sep-20-07 00:34	Sep-20-07 00:56	Sep-20-07 01:18	Sep-20-07 10:51	Sep-20-07 11:53	Sep-20-07 11:13
	Units/RL:	mg/L RL					
Benzene		0.0968 0.0010	0.0081 0.0010	0.0056 0.0010	0.0013 0.0010	18.66 0.1000	ND 0.0010
Toluene		0.0104 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	1.490 0.1000	ND 0.0010
Ethylbenzene		0.0013 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	0.7570 0.1000	ND 0.0010
m,p-Xylene		0.0051 0.0020	0.0045 0.0020	0.0023 0.0020	ND 0.0020	0.8450 0.2000	ND 0.0020
o-Xylene		0.0029 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	0.2950 0.1000	ND 0.0010
Total Xylenes		0.008	0.0045	0.0023	ND	1.14	ND
Total BTEX		0.1165	0.0126	0.0079	0.0013	22.047	ND

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

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 289708

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Id: 2002-10250

Contact: Camille Reynolds

Project Location: Lea County, NM

Project Name: C. S. Cayler

Date Received in Lab: Mon Sep-17-07 10:45 am

Report Date: 21-SEP-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	289708-007	289708-008	289708-009	289708-010
	Field Id:	MW-14	MW-15	MW-16	MW-17
	Depth:				
	Matrix:	WATER	WATER	WATER	WATER
	Sampled:	Sep-14-07 13:11	Sep-14-07 14:09	Sep-14-07 13:31	Sep-14-07 13:35
BTEX by EPA 8021B	Extracted:	Sep-20-07 08:40	Sep-19-07 09:01	Sep-19-07 09:01	Sep-20-07 13:10
	Analyzed:	Sep-20-07 11:31	Sep-20-07 03:07	Sep-20-07 03:29	Sep-20-07 17:29
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Benzene		0.0016 0.0010	0.0123 0.0010	0.0240 0.0010	ND 0.0010
Toluene		ND 0.0010	0.0012 0.0010	0.0032 0.0010	ND 0.0010
Ethylbenzene		ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010
m,p-Xylene		ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020
o-Xylene		ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010
Total Xylenes		ND	ND	ND	ND
Total BTEX		0.0016	0.0135	0.0272	ND

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Brent Barron
Odessa Laboratory Director



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL and above the SQL.
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: C. S. Cayler



Work Order #: 289708

Project ID: 2002-10250

Lab Batch #: 704631

Sample: 289708-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0330	0.0300	110	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 704631

Sample: 289708-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0338	0.0300	113	80-120	
4-Bromofluorobenzene	0.0265	0.0300	88	80-120	

Lab Batch #: 704631

Sample: 289708-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0275	0.0300	92	80-120	

Lab Batch #: 704631

Sample: 289708-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 704631

Sample: 289708-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0268	0.0300	89	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: C. S. Cayler



Work Order #: 289708

Project ID: 2002-10250

Lab Batch #: 704631

Sample: 289708-009 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

Lab Batch #: 704631

Sample: 289708-009 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

Lab Batch #: 704631

Sample: 499480-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0285	0.0300	95	80-120	

Lab Batch #: 704631

Sample: 499480-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0325	0.0300	108	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

Lab Batch #: 704631

Sample: 499480-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0304	0.0300	101	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: C. S. Cayler



Work Order #: 289708

Project ID: 2002-10250

Lab Batch #: 704669

Sample: 289708-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 704669

Sample: 289708-004 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 704669

Sample: 289708-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	3.104	3.000	103	80-120	
4-Bromofluorobenzene	2.462	3.000	82	80-120	

Lab Batch #: 704669

Sample: 289708-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

Lab Batch #: 704669

Sample: 289708-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0259	0.0300	86	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: C. S. Cayler



Work Order #: 289708

Project ID: 2002-10250

Lab Batch #: 704669

Sample: 499554-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

Lab Batch #: 704669

Sample: 499554-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0333	0.0300	111	80-120	
4-Bromofluorobenzene	0.0270	0.0300	90	80-120	

Lab Batch #: 704669

Sample: 499554-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 704749

Sample: 289699-010 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 704749

Sample: 289708-010 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries



Project Name: C. S. Caylor

Work Order #: 289708

Project ID: 2002-10250

Lab Batch #: 704749

Sample: 499592-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

Lab Batch #: 704749

Sample: 499592-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	80-120	

Lab Batch #: 704749

Sample: 499592-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Project Name: C. S. Cayler

Work Order #: 289708

Analyst: JBU

Lab Batch ID: 704631

Sample: 499480-1-BKS

Date Prepared: 09/19/2007

Batch #: 1

Project ID: 2002-10250

Date Analyzed: 09/19/2007

Matrix: Water

Units: mg/L

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
	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	
BTEX by EPA 8021B												
Benzene	ND	0.1000	0.0983	98	0.1	0.0986	99	0	70-125	25		
Toluene	ND	0.1000	0.0981	98	0.1	0.0981	98	0	70-125	25		
Ethylbenzene	ND	0.1000	0.0976	98	0.1	0.0972	97	0	71-129	25		
m,p-Xylene	ND	0.2000	0.1945	97	0.2	0.1938	97	0	70-131	25		
o-Xylene	ND	0.1000	0.1000	100	0.1	0.0992	99	1	71-133	25		

Analyst: JBU

Lab Batch ID: 704669

Sample: 499554-1-BKS

Date Prepared: 09/20/2007

Batch #: 1

Date Analyzed: 09/20/2007

Matrix: Water

Units: mg/L

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
	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	
BTEX by EPA 8021B												
Benzene	ND	0.1000	0.1013	101	0.1	0.1016	102	0	70-125	25		
Toluene	ND	0.1000	0.0987	99	0.1	0.1003	100	2	70-125	25		
Ethylbenzene	ND	0.1000	0.0980	98	0.1	0.1018	102	4	71-129	25		
m,p-Xylene	ND	0.2000	0.1950	98	0.2	0.2033	102	4	70-131	25		
o-Xylene	ND	0.1000	0.1009	101	0.1	0.1048	105	4	71-133	25		

Relative Percent Difference RPD = $200 * (D-F) / (D+F)$

Blank Spike Recovery [D] = $100 * (C) / (B)$

Blank Spike Duplicate Recovery [G] = $100 * (F) / (E)$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: C. S. Cayler

Work Order #: 289708

Analyst: JBU

Lab Batch ID: 704749

Sample: 499592-1-BKS

Date Prepared: 09/20/2007

Batch #: 1

Project ID: 2002-10250

Date Analyzed: 09/20/2007

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B											
Benzene	ND	0.1000	0.1019	102	0.1	0.1028	103	1	70-125	25	
Toluene	ND	0.1000	0.1038	104	0.1	0.1143	114	10	70-125	25	
Ethylbenzene	ND	0.1000	0.1106	111	0.1	0.1077	108	3	71-129	25	
m,p-Xylene	ND	0.2000	0.2210	111	0.2	0.2141	107	3	70-131	25	
o-Xylene	ND	0.1000	0.1098	110	0.1	0.1058	106	4	71-133	25	

Relative Percent Difference RPD = $200 * [(D-F)/(D+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: C. S. Cayler

Work Order #: 289708

Lab Batch #: 704669

Date Analyzed: 09/20/2007

QC- Sample ID: 289708-004 S

Reporting Units: mg/L

Project ID: 2002-10250

Analyst: JBU

Date Prepared: 09/20/2007

Batch #: 1

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Benzene	0.0013	0.1000	0.0960	95	70-125	
Toluene	ND	0.1000	0.0927	93	70-125	
Ethylbenzene	ND	0.1000	0.0919	92	71-129	
m,p-Xylene	ND	0.2000	0.1820	91	70-131	
o-Xylene	ND	0.1000	0.0943	94	71-133	

Lab Batch #: 704749

Date Analyzed: 09/20/2007

QC- Sample ID: 289699-010 S

Reporting Units: mg/L

Date Prepared: 09/20/2007

Analyst: JBU

Batch #: 1

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Benzene	ND	0.1000	0.0764	76	70-125	
Toluene	ND	0.1000	0.0765	77	70-125	
Ethylbenzene	ND	0.1000	0.0785	79	71-129	
m,p-Xylene	ND	0.2000	0.1550	78	70-131	
o-Xylene	ND	0.1000	0.0768	77	71-133	

Matrix Spike Percent Recovery [D] = $100 \cdot (C-A)/B$
 Relative Percent Difference [E] = $200 \cdot (C-A)/(C+B)$
 All Results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: C. S. Cayler

Work Order #: 289708
 Lab Batch ID: 704631
 Date Analyzed: 09/20/2007
 Reporting Units: mg/L
 Project ID: 2002-10250
 QC- Sample ID: 289708-009 S
 Date Prepared: 09/19/2007
 Batch #: 1
 Matrix: Water
 Analyst: JBU

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B											
Benzene	0.0240	0.1000	0.1126	89	0.1000	0.1133	89	0	70-125	25	
Toluene	0.0032	0.1000	0.0923	89	0.1000	0.0944	91	2	70-125	25	
Ethylbenzene	ND	0.1000	0.0893	89	0.1000	0.0916	92	3	71-129	25	
m,p-Xylene	ND	0.2000	0.1763	88	0.2000	0.1811	91	3	70-131	25	
o-Xylene	ND	0.1000	0.0927	93	0.1000	0.0951	95	2	71-133	25	

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

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

ent: Talon / Plains
 Date/ Time: 9-17-07 10:45
 Lab ID #: 289708
 Initials: AL

Sample Receipt Checklist

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

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 293901

for

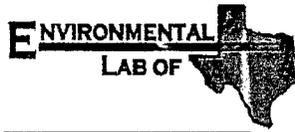
PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

C.S. Cayler

SRS# 2002-10250

12-DEC-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers:

Houston, TX T104704215

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

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



12-DEC-07

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

Reference: XENCO Report No: **293901**
C.S. Cayler
Project Address: Hobbs, NM

Camille Reynolds:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 293901. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 293901 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 293901



PLAINS ALL AMERICAN EH&S, Midland, TX

C.S. Cayler

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-6	W	Dec-03-07 11:44		293901-001
MW-9	W	Dec-03-07 11:27		293901-002
MW-10	W	Dec-03-07 11:34		293901-003
MW-11	W	Dec-03-07 11:30		293901-004
MW-12	W	Dec-03-07 11:39		293901-005
MW-13	W	Dec-03-07 11:54		293901-006
MW-14	W	Dec-03-07 11:49		293901-007
MW-15	W	Dec-03-07 12:04		293901-008
MW-16	W	Dec-03-07 12:09		293901-009
MW-17	W	Dec-03-07 11:59		293901-010



Certificate of Analysis Summary 293901

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Id: SRS# 2002-10250
 Contact: Camille Reynolds
 Project Location: Hobbs, NM

Project Name: C.S. Caylor

Date Received in Lab: Tue Dec-04-07 08:40 am
 Report Date: 12-DEC-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293901-001	293901-002	293901-003	293901-004	293901-005	293901-006
	Field Id:	MW-6	MW-9	MW-10	MW-11	MW-12	MW-13
Depth:							
Matrix:		WATER	WATER	WATER	WATER	WATER	WATER
Sampled:		Dec-03-07 11:44	Dec-03-07 11:27	Dec-03-07 11:34	Dec-03-07 11:30	Dec-03-07 11:39	Dec-03-07 11:54
Extracted:		Dec-06-07 12:45	Dec-06-07 12:45	Dec-06-07 14:46	Dec-06-07 14:46	Dec-12-07 08:24	Dec-06-07 14:46
Analyzed:		Dec-06-07 21:46	Dec-06-07 22:03	Dec-07-07 02:17	Dec-07-07 00:18	Dec-12-07 13:30	Dec-07-07 00:51
Units/RL:		mg/L RL					
Benzene		0.1491 0.0010	0.0049 0.0010	0.0046 0.0010	0.0010 0.0010	24.91 0.2000	0.0021 0.0010
Toluene		0.0209 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	1.080 0.4000	ND 0.0020
Ethylbenzene		0.0011 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	0.6060 0.2000	ND 0.0010
m,p-Xylenes		0.0086 0.0020	0.0100 0.0020	ND 0.0020	ND 0.0020	0.7080 0.4000	ND 0.0020
o-Xylene		0.0046 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	0.2020 0.2000	ND 0.0010
Xylenes, Total		0.0132	0.01	ND	ND	0.91	ND
Total BTEX		0.1843	0.0149	0.0046	0.001	27.506	0.0021

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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Brent Barron
 Odessa Laboratory Director



Certificate of Analysis Summary 293901

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Id: SRS# 2002-10250
 Contact: Camille Reynolds
 Project Location: Hobbs, NM

Project Name: C.S. Caylor

Date Received in Lab: Tue Dec-04-07 08:40 am
 Report Date: 12-DEC-07

Project Manager: Brent Barron, II

Analysis Requested		Lab Id:	293901-007	293901-008	293901-009	293901-010	
		Field Id:	MW-14	MW-15	MW-16	MW-17	
		Depth:					
		Matrix:	WATER	WATER	WATER	WATER	
		Sampled:	Dec-03-07 11:49	Dec-03-07 12:04	Dec-03-07 12:09	Dec-03-07 11:59	
		Extracted:	Dec-06-07 14:46	Dec-06-07 14:46	Dec-06-07 14:46	Dec-06-07 14:46	
		Analyzed:	Dec-07-07 01:09	Dec-07-07 01:26	Dec-07-07 01:43	Dec-07-07 01:59	
		Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL	
Benzene			ND 0.0010	0.0013 0.0010	0.2048 0.0010	0.0022 0.0010	
Toluene			ND 0.0020	ND 0.0020	0.0040 0.0020	ND 0.0020	
Ethylbenzene			ND 0.0010	ND 0.0010	0.0015 0.0010	ND 0.0010	
m,p-Xylenes			ND 0.0020	ND 0.0020	0.0060 0.0020	ND 0.0020	
o-Xylene			ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	
Xylenes, Total			ND	ND	0.006	ND	
Total BTEX			ND	0.0013	0.2163	0.0022	

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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Brent Barron
 Odessa Laboratory Director



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F RPD exceeded lab control limits.
 - J The target analyte was positively identified below the MQL and above the SQL.
 - U Analyte was not detected.
 - L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: C.S. Cayler



Work Order #: 293901

Project ID: SRS# 2002-10250

Lab Batch #: 710056

Sample: 293896-054 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

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

Lab Batch #: 710056

Sample: 293896-054 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

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

Lab Batch #: 710056

Sample: 293901-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0268	0.0300	89	80-120	

Lab Batch #: 710056

Sample: 293901-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0250	0.0300	83	80-120	

Lab Batch #: 710056

Sample: 502290-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

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

** 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: C.S. Cayler



Work Order #: 293901

Project ID: SRS# 2002-10250

Lab Batch #: 710056

Sample: 502290-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

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

Lab Batch #: 710056

Sample: 502290-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

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

Lab Batch #: 710059

Sample: 293901-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	80-120	
4-Bromofluorobenzene	0.0244	0.0300	81	80-120	

Lab Batch #: 710059

Sample: 293901-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0259	0.0300	86	80-120	

Lab Batch #: 710059

Sample: 293901-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	80-120	
4-Bromofluorobenzene	0.0252	0.0300	84	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries



Project Name: C.S. Cayler

Work Order #: 293901

Project ID: SRS# 2002-10250

Lab Batch #: 710059

Sample: 293901-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0319	0.0300	106	80-120	
4-Bromofluorobenzene	0.0243	0.0300	81	80-120	

Lab Batch #: 710059

Sample: 293901-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0319	0.0300	106	80-120	
4-Bromofluorobenzene	0.0239	0.0300	80	80-120	

Lab Batch #: 710059

Sample: 293901-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 710059

Sample: 293901-009 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene	0.0307	0.0300	102	80-120	

Lab Batch #: 710059

Sample: 293901-009 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: C.S. Cayler



Work Order #: 293901

Project ID: SRS# 2002-10250

Lab Batch #: 710059

Sample: 293901-010 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 710059

Sample: 502295-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0333	0.0300	111	80-120	
4-Bromofluorobenzene	0.0313	0.0300	104	80-120	

Lab Batch #: 710059

Sample: 502295-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 710059

Sample: 502295-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

Lab Batch #: 710260

Sample: 293901-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0329	0.0300	110	80-120	
4-Bromofluorobenzene	0.0256	0.0300	85	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: C.S. Cayler



Work Order #: 293901

Project ID: SRS# 2002-10250

Lab Batch #: 710260

Sample: 502403-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0262	0.0300	87	80-120	

Lab Batch #: 710260

Sample: 502403-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

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

Lab Batch #: 710260

Sample: 502403-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



BS / BSD Recoveries



Project Name: C.S. Cayler

Work Order #: 293901

Analyst: SHE

Lab Batch ID: 710056

Date Prepared: 12/06/2007

Batch #: 1

Sample: 502290-1-BKS

Project ID: SRS# 2002-10250

Date Analyzed: 12/06/2007

Matrix: Water

Units: mg/L

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

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

Date Prepared: 12/06/2007

Date Analyzed: 12/06/2007

Analyst: SHE

Lab Batch ID: 710059

Sample: 502295-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B											
Benzene	ND	0.1000	0.0837	84	0.1	0.0906	91	8	70-125	25	
Toluene	ND	0.1000	0.0841	84	0.1	0.0908	91	8	70-125	25	
Ethylbenzene	ND	0.1000	0.0881	88	0.1	0.0943	94	7	71-129	25	
m,p-Xylenes	ND	0.2000	0.1723	86	0.2	0.1834	92	6	70-131	25	
o-Xylene	ND	0.1000	0.0883	88	0.1	0.0940	94	6	71-133	25	

Relative Percent Difference RPD = $200 * [(D-F)/(D+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: C.S. Cayler

Work Order #: 293901

Analyst: SHE

Lab Batch ID: 710260

Sample: 502403-1-BKS

Date Prepared: 12/12/2007

Batch #: 1

Project ID: SRS# 2002-10250

Date Analyzed: 12/12/2007

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B											
Benzene	ND	0.1000	0.1012	101	0.1	0.1038	104	3	70-125	25	
Toluene	ND	0.1000	0.0984	98	0.1	0.1011	101	3	70-125	25	
Ethylbenzene	ND	0.1000	0.0966	97	0.1	0.1000	100	3	71-129	25	
m,p-Xylenes	ND	0.2000	0.1897	95	0.2	0.1965	98	4	70-131	25	
o-Xylene	ND	0.1000	0.0939	94	0.1	0.0971	97	3	71-133	25	

Relative Percent Difference RPD = $200 * (D-F) / (D+F)$

Blank Spike Recovery [D] = $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: C.S. Cayler

Work Order #: 293901

Project ID: SRS# 2002-10250

Lab Batch ID: 710056

QC-Sample ID: 293896-054 S

Batch #: 1 Matrix: Water

Date Analyzed: 12/06/2007

Date Prepared: 12/06/2007

Analyst: SHE

Reporting Units: mg/L

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

Lab Batch ID: 710059

QC-Sample ID: 293901-009 S

Batch #: 1 Matrix: Water

Date Analyzed: 12/07/2007

Date Prepared: 12/06/2007

Analyst: SHE

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B											
Benzene	0.2048	0.1000	0.2391	34	0.1000	0.2404	36	6	70-125	25	X
Toluene	0.0040	0.1000	0.1140	110	0.1000	0.1142	110	0	70-125	25	
Ethylbenzene	0.0015	0.1000	0.0965	95	0.1000	0.0970	96	1	71-129	25	
m,p-Xylenes	0.0060	0.2000	0.1936	94	0.2000	0.1945	94	0	70-131	25	
o-Xylene	ND	0.1000	0.1009	101	0.1000	0.1023	102	1	71-133	25	

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

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

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

XENCO
LABORATORY

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD
Lab Only: 179636 Page 1 of 1

1181 Meadowlark, Suite L, Houston TX 77062 281-588-0652
 5309 Wurzbach, Suite 104, San Antonio, TX 78238 210-597-3334
 1078 Johnson Lane, Suite D, Dallas, TX 75226 972-481-9999

Company: Labcorp
 Project Name: PLAINS
 Project ID: PLAINS044512
 Prof. Manager: C.S. Caylor
 e-mail to: SSmith@labcorp.com
 Fax Results to: SSmith@labcorp.com
 Invoices to: Accounting Inv Invoice must have I.P.O.
 Bill to: PLAINS Amble Reynolds 6828 2002-10-20
 Quote No.: _____ P.O. No.: _____ Call for a P.O.
 Reg Program: CLP ARCEE TRRP DW UST State Other
 Target DCL: (DW CRDL TRRP OAPP MDLs See Lab PM Attached Call)
 TRRP PCLs: Tier 1 Residential Industrial
 LPST No.: (Required) _____
 Sampler Name: Lab Vessels Signature: _____

TAT: 5h 12h 24h 48h 3d 7d 10d 21d Standard TAT is project specific.
 It is typically 5-7 Working days for level II and 10+ Working days for level III and IV data.

Sample ID	Sampling Date	Time	Depth ft in m	Matrix	Composite	# Containers	Container Size	Container Type	Preservatives	RETEX by 8021	TPH by TX105 FL-Pro	PAHs by 8270	VOCs by 8021	SVOCS by 8270	FL Prekum - Reversed:	Adcn: PAH above	TAT	Remarks
MW-6	12/30/07	1144				2	V	C	ML	X	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	7d 10d 21d	
MW-9	12/30/07	1127				2	V	C	ML	X	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	7d 10d 21d	
MW-10	12/30/07	1134				2	V	C	ML	X	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	7d 10d 21d	
MW-11	12/30/07	1130				2	V	C	ML	X	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	7d 10d 21d	
MW-12	12/30/07	1159				2	V	C	ML	X	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	7d 10d 21d	
MW-13	12/30/07	1154				2	V	C	ML	X	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	7d 10d 21d	
MW-14	12/30/07	1249				2	V	C	ML	X	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	7d 10d 21d	
MW-15	12/30/07	1204				2	V	C	ML	X	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	7d 10d 21d	
MW-16	12/30/07	1203				2	V	C	ML	X	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	7d 10d 21d	
MW-17	12/30/07	1159				2	V	C	ML	X	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	8260 824 824	7d 10d 21d	
Relinquished by: <u>[Signature]</u> Date & Time: <u>12/30/07 1159</u>										Relinquished to: <u>[Signature]</u> Date & Time: <u>12/30/07 1159</u>								

All XENCO Standard Terms and Conditions Apply
 Containers Received: 174571 X40
 Cooler Temperature: _____
 Cont. Type: Glass Amp (A), Glass Clear (C), Plastic (P), Other (O)
 Mark: Air (A), Product (P), Solid(S), Water (W)
 SDBE Committed to Excellence in Service and Quality since 1990
 www.xenco.com



ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Lab One:

- 11381 Meadowglen, Suite L, Houston TX 77062 281-569-0822
- 5757 N.W. 15th Street, Miami Lakes, FL 33014 305-493-8500
- 5309 Murchach, Suite 104, San Antonio, TX 78238 210-509-3334
- 1078 Horizon Lane, Suite P, Dallas, TX 75229 972-481-9898
- 2618 South Falmouth Rd, Riverview, FL 33569 813-420-8000

Serial #: 179836

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TAT: 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Company/Chy

Project Name

Site

Project ID

Remarks

Sample Clean-ups are pre-approved. Hold Analyses (Surcharges will apply)

Address: PAH above mg/L W, mg/kg S Highest mt

TAT: 5h 12h 24h 48h 3d 5d 7d 10d 21d

FL Preburn - Revised: Virgin Non-Virgin

SVOCs by 8270 625 PAHs BNA TCL PPs

VOA VOA PPs TCL

Metals by 8020 200 & 8190A To Pb TCL PPs 837AL

PAHs by 8270 8310

TPH by TX1005 FL-Pro 1694 8015GRD 8015DRD 418.1

BTEX by 8021 8260 602 824 Other

BTEX-MTBE by 8021 8260 624 Other

Other

Reg Program: CLP AFCEE TRRP DW UST Sig: Other

Target DUL: DW CRDL TRRP OMPs MDLs See Lab PM Attached Call

TRRP PCLs: Tier 1 Residential Industrial

LPST No. (Required)

Sampler Name

Signature

Sample ID

Sampling Date

Time

Depth

Matrix

Composite

Containers

Container Type

Preservatives

Container Size

Relinquished by (Initials and Sign)

Date & Time

Relinquished to (Initials and Sign)

Date & Time

Relinquished to (Initials and Sign)

Date & Time

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Plains
 Date/ Time: 12/10/07 8:40
 Lab ID #: 292901
 Initials: JK

Sample Receipt Checklist

	Yes	No	Client Initials
#1 Temperature of container/ cooler?			<u>JK</u> ° C
#2 Shipping container in good condition?	<u>Yes</u>	No	
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	<u>Not Present</u>
#4 Custody Seals Intact on sample bottles/ container?	<u>Yes</u>	No	Not Present
#5 Chain of Custody present?	<u>Yes</u>	No	
#6 Sample instructions complete of Chain of Custody?	<u>Yes</u>	No	
#7 Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No	
#8 Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont / Lid
#9 Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable
#10 Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
#11 Containers supplied by EL0T?	<u>Yes</u>	No	
#12 Samples in proper container/ bottle?	<u>Yes</u>	No	See Below
#13 Samples properly preserved?	<u>Yes</u>	No	See Below
#14 Sample bottles intact?	<u>Yes</u>	No	
#15 Preservations documented on Chain of Custody?	<u>Yes</u>	No	
#16 Containers documented on Chain of Custody?	<u>Yes</u>	No	
#17 Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below
#18 All samples received within sufficient hold time?	<u>Yes</u>	No	See Below
#19 Subcontract of sample(s)?	Yes	No	<u>Not Applicable</u>
#20 VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

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

APPENDIX D

NMOCD C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

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

Release Notification and Corrective Action

OPERATOR "INFORMATION ONLY NON-REPORTABLE" Initial Report Final Report

Name of Company EOTT Energy Pipeline	Contact Frank Hernandez
Address 5805 East Highway 80 / P.O. Box 1660, Midland, TX 79703	Telephone No. 915.638.3799
Facility Name: Moore to Kimbrough 8" Sweet Vacuum (C.S. Cayler) 9-19-02 #2002-10250	Facility Type Crude Oil Pipeline

Surface Owner Robert C. Rice	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter B	Section 6	Township 17S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea Lat.: 32°52'2.45"N Lon: 103°17'17.73"W
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NATURE OF RELEASE

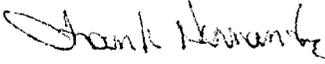
Type of Release Crude Oil	Volume of Release 70 bbls	Volume Recovered 0 bbls
Source of Release 8" steel pipeline	Date and Hour of Occurrence 9-19-02 8:00 AM	Date and Hour of Discovery 9-19-02 12:00 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Paul Sheeley, Hobbs NMOCD	
By Whom? Pat McCasland (Environmental Plus, Inc.)	Date and Hour: NMOCD notified on 9-19-02 3:15 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The cause of the leak was internal/external corrosion. The contaminated soil was stockpiled on a plastic barrier on site awaiting remediation.

Describe Area Affected and Cleanup Action Taken.*
Spill Area = ~2,199 ft² Near surface soil will be characterized in accordance with 40 CFR 261 and with NMOCD approval, disposed of in a NMOCD approved facility. The site will be delineated and remediated.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Frank Hernandez	Approved by District Supervisor:	
Title: District Environmental Supervisor	Approval Date:	Expiration Date:
Date: October 2, 2002 Phone: 915.638.3799	Conditions of Approval:	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

EOTT Energy Pipeline
 Site Information and Metrics

Incident Date and NMOCD Notified?:
 Discovered 9-19-02 NMOCD verbally notified on 9-19-02

SITE: 8" Sweet Vacuum (C.S. Cayler) 9-19-02		Assigned Site Reference #: #2002-10250	
Company: EOTT Energy Pipeline			
Street Address: 5805 East Highway 80			
Mailing Address: P.O. Box 1660			
City, State, Zip: Midland, Texas 79703			
Representative: Frank Hernandez, District Environmental Supervisor			
Representative Telephone: 915.638.3799			
Telephone:			
Fluid volume released (bbls): 70 bbls		Recovered (bbls): 0	
----->25-bbls--Notify-NMOCD-verbally-within-24-hrs-and-submit-form-C-141-within-15-days. (Also applies to unauthorized releases >500 mcf Natural Gas)			
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)			
Leak, Spill, or Pit (LSP) Name: 8" Sweet Vacuum (C.S. Cayler) 9-19-02 #2002-10250			
Source of contamination: Crude Oil Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: Robert C. Rice			
LSP Dimensions 85' X 45'			
LSP Area: Spill Area 2,199 ft ²			
Location of Reference Point (RP)			
Location distance and direction from RP			
Latitude: 32°52'2.45"N			
Longitude: 103°17'17.73"W			
Elevation above mean sea level: ~3,805 'amsl			
Feet from South Section Line			
Feet from West Section Line			
Location- Unit or 1/4: UL-B NW 1/4 of the NE 1/4			
Location- Section: 6			
Location- Township: 17S			
Location- Range: 37E			
Surface water body within 1000' radius of site: None			
Domestic water wells within 1000' radius of site: None			
Agricultural water wells within 1000' radius of site: None			
Public water supply wells within 1000' radius of site: None			
Depth from land surface to ground water (DG) ~40.0' below ground surface			
Depth of contamination (DC) - ?			
Depth to ground water (DG - DC = DtGW) - to be determined			
1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water Body	
If Depth to GW <50 feet: 20 points	If <1000' from water source, or; <200' from private domestic water source: 20 points	<200 horizontal feet: 20 points	
If Depth to GW 50 to 99 feet: 10 points	If >1000' from water source, or; >200' from private domestic water source: 0 points	200-100 horizontal feet: 10 points	
If Depth to GW >100 feet: 0 points		>1000 horizontal feet: 0 points	
Ground water Score = 20	Wellhead Protection Area Score = 0	Surface Water Score = 0	
Site Rank (1+2+3) = 20			
Total Site Ranking Score and Acceptable Concentrations			
Parameter	>19 (Surface to 40.0'bgs)	10-19	0-9
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX ¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm
¹ 100 ppm field VOC headspace measurement may be substituted for lab analysis			