

AP - 52

STAGE 1 & 2 REPORTS

DATE:

6-24-08



**PLAINS
PIPELINE**

RECEIVED
2008 JUN 26 PM 3 40

June 24, 2008

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

Re: Plains Pipeline, L. P. C. S. Cayler Release Site
NMOCD Reference # AP-052
Unit Letter B of Section 6, Township 17 South, Range 37 East
Lea County, New Mexico

Dear Mr. Hansen,

Plains Pipeline, L. P. is pleased to submit the attached Quarterly Report, dated June 20, 2008, for the C. S. Cayler release site located in Section 6 of Township 17 South, and Range 37 East of Lea County, New Mexico. This document details soil and groundwater activities conducted in the first quarter of 2008.

Should you have any questions or comments, please contact me at (505) 441-0965.

Sincerely,

Camille Bryant
Remediation Coordinator
Plains Pipeline

CC: Larry Johnson, NMOCD, Hobbs Office

Enclosure



June 23, 2008

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

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

AUSTIN
3003 Tom Gary Cove
Building C-100
Round Rock, Texas 78664
Phone 512.989.3428
Fax 512.989.3487

Re: Plains Pipeline, L.P. C.S. Cayler (Plains SRS#2002-10250)
NMOCD Reference # AP-052 (OLD 1R-0382)
UL-B (NW¼ of the NE¼) of Section 6, T17S, R37E
Latitude: 32° 52' 2.45"N and Longitude: 103° 17' 17.73"W
Landowner: Robert C. Rice
Lea County, New Mexico

MIDLAND
2901 State Highway 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

Dear Mr. Hansen:

SAN ANTONIO
17170 Jordan Road
Suite 102
Selma, Texas 78154
Phone 210.579.0235
Fax 210.568.2191

Talon/LPE, on behalf of Plains Pipeline, L.P. (Plains), submits this letter summarizing the first quarter activities.

TULSA
9906 East 43rd Street
Suite G
Tulsa, Oklahoma 74146
Phone 918.742.0871
Fax 918.742.0876

On March 10, 2008, 20 barrels of recovered crude oil was reintroduced into the Plains pipeline system. Skimmer pumps are located in monitor wells MW-2 through MW-5, and MW-7. A summary of the historical groundwater gauging data is provided in Table 1.

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88241
Phone 505.393.4261
Fax 505.393.4658

The First Quarter 2008 groundwater sampling event occurred on March 12, 2008. During the sampling event, monitor wells MW-6, MW-9 through MW-17 were sampled and groundwater samples from each monitor well were submitted for quantification of benzene, toluene, ethylbenzene, and total xylenes (BTEX) using SW-846 Method 8021B. Groundwater monitor wells MW-2 through MW-5, MW-7, and MW-8 were not sampled due to the presence of phase separated hydrocarbons (PSH). Monitor well MW-1 was not sampled because the well was dry. Analytical results for the first quarter sampling event are summarized in Table 2 and Figure 3a. A groundwater gradient map is presented in Figure 2a.

TYLER
719 West Front Street
Suite 255
Tyler, Texas 75702
Phone 903.531.9971
Fax 903.531.9979

Analytical results from the March 12, 2008, 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 New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of 0.010 mg/L in monitor wells MW-6 (0.138 mg/L), MW-10 (0.179 mg/L), MW-13 (0.021 mg/L), and MW-16 (0.165 mg/L). All BTEX constituents exceeded NMWQCC groundwater standards in monitor well MW-12 (benzene 31.5 mg/L, toluene 1.12 mg/L, ethylbenzene 0.875 mg/L, and xylenes 1.090 mg/L).

HOUSTON
3233 West 11th Street
Suite 400
Houston, Texas 77008
Phone 713.861.0081
Fax 713.868.3208

On March 18, 2008, Plains installed monitor well MW-18 to further delineate the extent of groundwater impact as requested by the NMOCD. The BTEX and total petroleum hydrocarbon (TPH) concentrations, from soil samples collected from the 5', 40', and 75' sampling intervals, were below laboratory reporting limits. Analytical results from the soil samples are summarized in Table 4.

ENVIRONMENTAL CONSULTING
ENGINEERING
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Toll Free: 866.742.0742
www.talonlpe.com



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921 North Bivins
Amarillo, Texas 79107
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Analytical results from the groundwater sampling event conducted on monitor well MW-18, on March 25, 2008, indicated BTEX and polycyclic aromatic hydrocarbons (PAH) constituents below laboratory reporting limits except for isopropylbenzene (0.0021 mg/L). There is not a maximum contaminant level (MCL) for isopropylbenzene. The analytical results for monitor well MW-18 are summarized in Table 3.

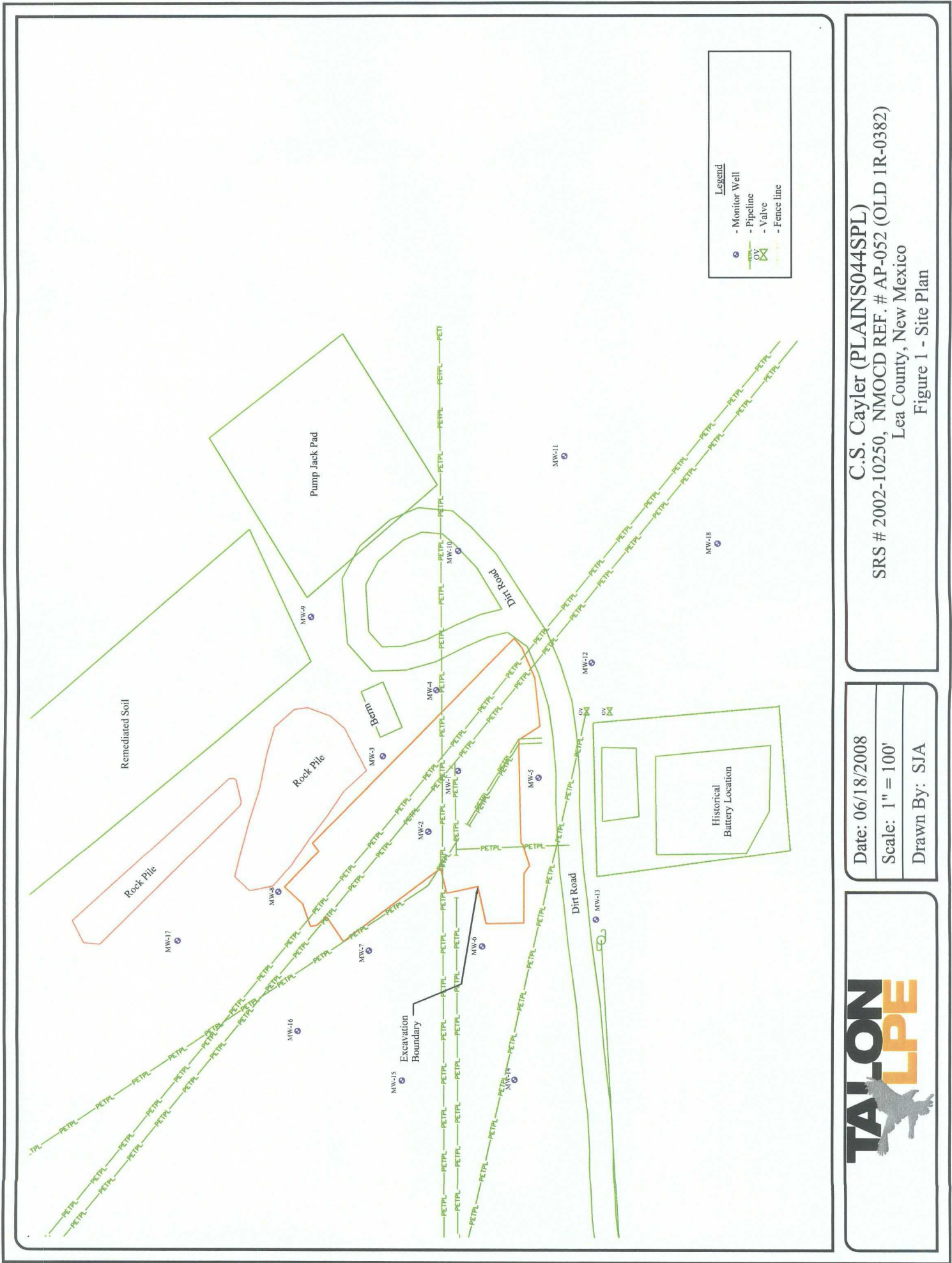
Due to an oversight during the initial sampling event conducted on monitor well MW-18 (i.e. general chemistry and metals were not sampled), the general chemistry and metals parameters will be sampled from MW-18 during the next sampling event in June 2008.

If you have any questions or require further information, please contact me at (432) 522-2133 or Ms. Camille Bryant at (505) 441-0965.

Sincerely,


Shanna L. Smith
Project Manager

Enclosures



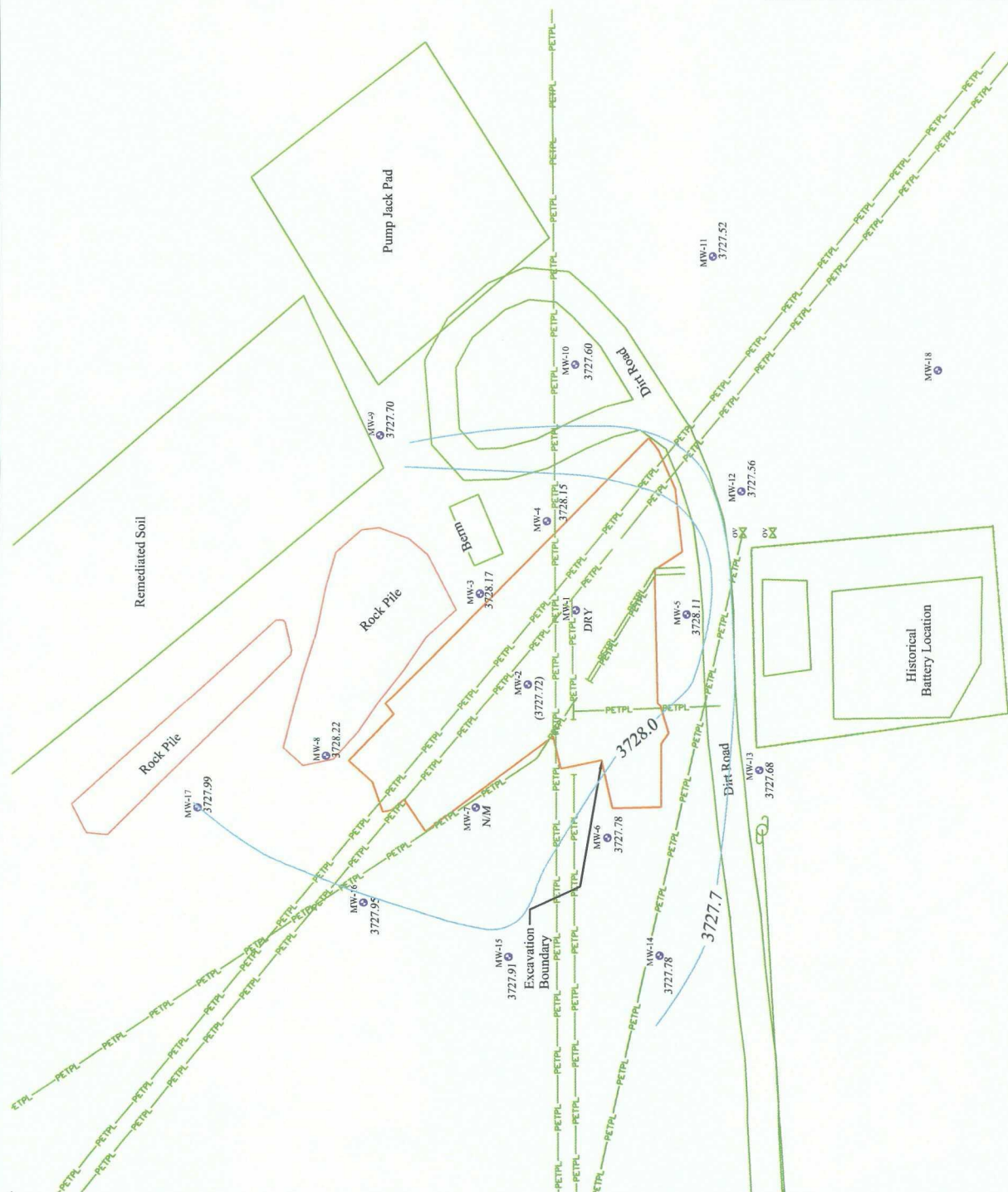
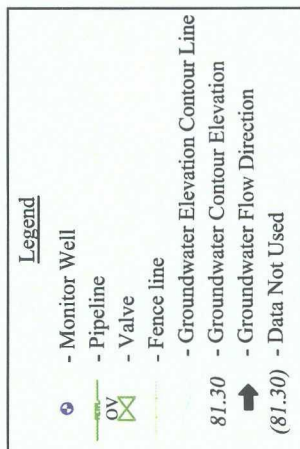
C.S. Cayler (PLAINS044SPL)
 SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)
 Lea County, New Mexico
 Figure 1 - Site Plan

Date: 06/18/2008
 Scale: 1" = 100'
 Drawn By: SJA





0 50 100
Scale in Feet



MW-18 not included in Data

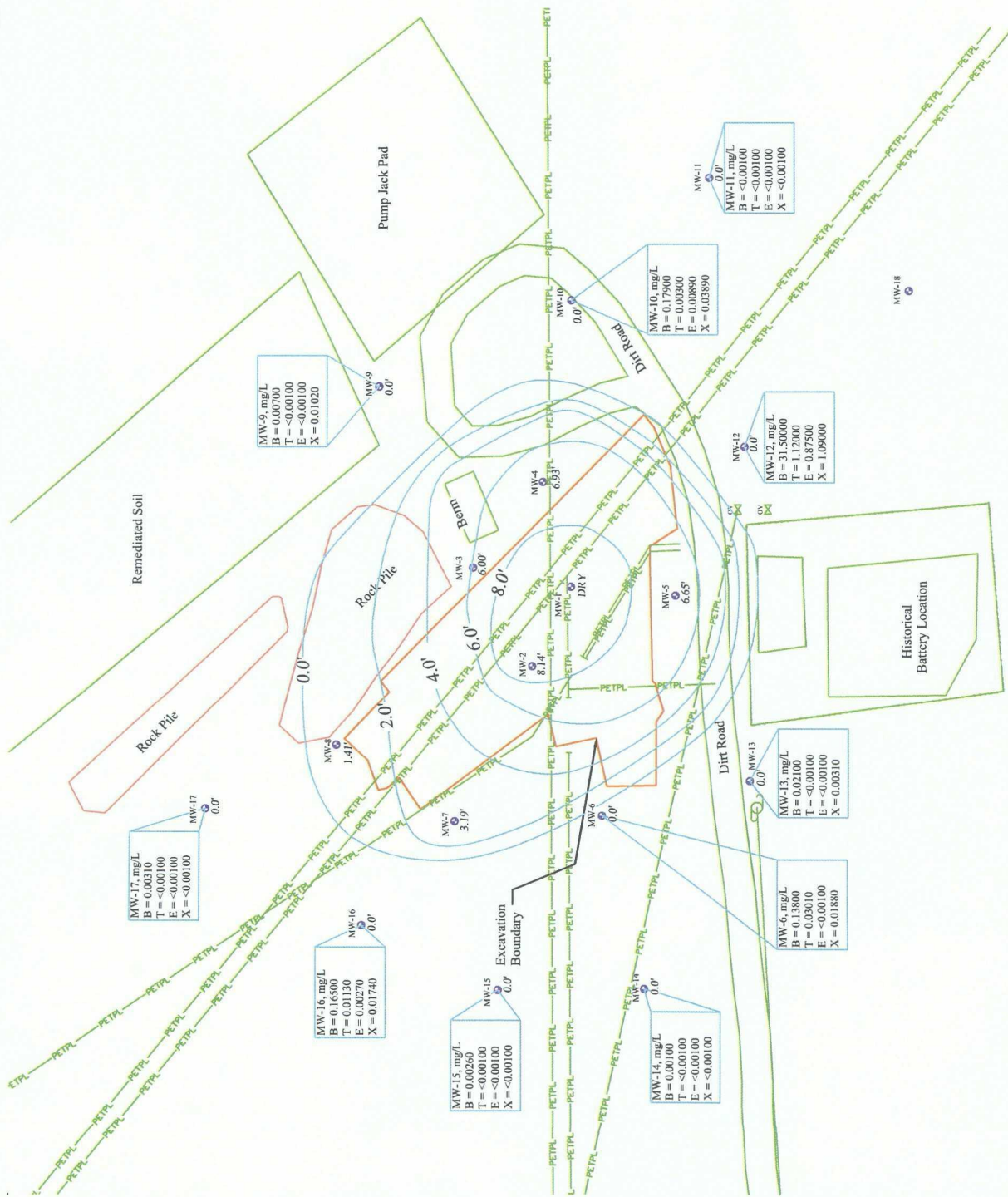
C.S. Cayler (PLAINS044SPL)
SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, New Mexico
Figure 2a - Groundwater Gradient Map, (03/12/2008)

Date: 06/23/2008

Scale: 1" = 100'

Drawn By: SJA





MW-18 not included in Data

C.S. Cayler (PLAINS044SPL)

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

Lea County, New Mexico

Figure 3a - PSH Plume & Groundwater Concentration Map, (03/12/2008)

Date: 06/23/2008

Scale: 1" = 100'

Drawn By: SJA



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-1	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	NA	NA	NA
	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			
	1/3/08		DRY			
1/8/08		DRY				
1/14/08		DRY				
1/23/08		DRY				
1/28/08		DRY				
2/11/08		DRY				
3/12/08		DRY				
3/26/08		DRY				



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-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		NA	76.19	NA	NA
	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
	1/3/08		75.32	83.50	3,727.79	8.18
	1/8/08		74.76	82.25	3,728.42	7.49
	1/14/08		75.49	83.23	3,727.67	7.74
	1/23/08		75.45	83.43	3,727.68	7.98
	1/28/08		75.38	83.47	3,727.74	8.09
	2/11/08		74.94	83.02	3,728.18	8.08
	3/12/08		75.40	83.54	3,727.72	8.14
	3/26/08		75.14	83.99	3,727.91	8.85

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
	1/3/08		81.17	89.41	3,728.21	8.24
	1/8/08		81.11	89.05	3,728.30	7.94
	1/14/08		81.62	88.39	3,727.90	6.77
	1/23/08		80.84	87.89	3,728.66	7.05
	1/28/08		80.31	88.20	3,729.10	7.89
	2/11/08		81.92	88.49	3,727.62	6.57
	3/12/08		81.43	87.43	3,728.17	6.00
	3/26/08		80.57	88.54	3,728.83	7.97



Table 1
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses
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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-4	6/1/04	WELL INSTALLED 01-Jun-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		NA	79.50	NA	NA
	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
	1/3/08		81.66	89.19	3.728.29	7.53
	1/8/08		81.70	89.31	3.728.24	7.61
	1/14/08		81.98	88.87	3.728.03	6.89
	1/23/08		82.17	87.76	3.727.97	5.59
	1/28/08		81.77	89.17	3.728.19	7.40
	2/11/08		81.29	88.75	3.728.66	7.46
	3/12/08		81.86	88.79	3.728.15	6.93
	3/26/08		82.67	86.36	3.727.66	3.69

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

[illegible]



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-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	
	1/8/08			81.78	3,727.39	
	1/28/08			81.39	3,727.78	
	3/12/08			81.39	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)
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	NA	NA	3.46**
	12/3/07		80.98	NA	NA	3.43**
	1/3/08		79.83	NA	NA	4.56**
	1/8/08		80.92	NA	NA	3.48**
	1/14/08		81.34	NA	NA	3.03**
	3/12/08		81.20	NA	NA	3.19**
	3/26/08		81.54	NA	NA	2.91**



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	NA	NA	1.77**
	6/26/07		81.62	NA	NA	1.48**
	6/28/07		81.52	NA	NA	1.58**
	8/13/07		81.86	NA	NA	2.1**
	8/21/07		81.96	NA	NA	1.79**
	8/28/07		82.02	NA	NA	1.73**
	9/14/07		82.35	82.36	3,727.94	0.01
	9/26/07		81.99	NA	NA	1.03**
	10/5/07		81.97	NA	NA	1.67**
	10/8/07		81.96	NA	NA	1.67**
	10/19/07		82.04	NA	NA	0.37**
	11/12/07		82.04	NA	NA	0.39**
	11/28/07		82.04	NA	NA	0.46**
	12/3/07		82.11	NA	NA	0.48**
	1/3/08		81.84	NA	NA	0.61**
	1/8/08		81.85	NA	NA	0.71
	1/14/08		82.13	83.33	3,728.04	1.20
	1/23/08		82.12	83.09	3,728.07	0.97
	1/28/08		82.04	83.30	3,728.12	1.26
	2/11/08		81.97	83.34	3,728.18	1.37
	3/12/08		81.93	NA	NA	1.41**



Table 1
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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	3,732.84	
	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	
	1/8/08			82.10	3,727.71	
	1/28/08			82.12	3,727.69	
	3/12/08			82.11	3,727.70	



Table 1
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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	
	1/8/08			82.01	3,727.63	
	1/28/08			82.02	3,727.62	
	3/12/08			82.04	3,727.60	



Table 1
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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	
	1/8/08			81.35	3,727.60	
	1/28/08			81.36	3,727.59	
	3/12/08			81.43	3,727.52	
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	
	1/8/08			81.99	3,727.64	
	1/28/08			81.98	3,727.65	
	3/12/08			82.07	3,727.56	



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C. S. Cayler
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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	
	1/8/08			81.71	3,727.71	
	1/28/08			81.71	3,727.71	
	3/12/08			81.74	3,727.68	
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	
	1/8/08			81.66	3,727.80	
	1/28/08			81.68	3,727.78	
	3/12/08			81.68	3,727.78	



Table 1
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Phase Separated Hydrocarbon (PSH) Thicknesses
Plains Pipeline, L.P.
C. S. Cayler
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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	
	1/8/08			82.89	3,727.88	
	1/28/08			82.81	3,727.96	
	3/12/08			82.86	3,727.91	
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	
	1/8/08			84.10	3,727.92	
	1/28/08			84.09	3,727.93	
	3/12/08			84.07	3,727.95	



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-17	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	
	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	
	1/8/08			82.48	3,727.92	
	1/28/08			82.47	3,727.93	
	3/12/08			82.41	3,727.99	
MW-18	3/18/08	WELL INSTALLED 3/18/08				
	3/25/08	3,809.09		82.07	3,728.33	

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

** Estimated Product Thickness using Total Depth of Well as the Depth to Water.

-- = Not Detected

BTOC = Below Top of Casing

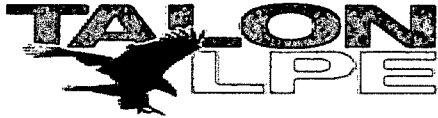


TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
CS CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO - SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-1	03/12/08	Not sampled Due to Dry Well				
MW-2	03/12/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	03/12/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	03/12/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	03/12/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-6	03/12/08	0.138	0.03010	<0.001	0.01880	0.1870
MW-7	03/12/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	03/12/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				



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	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-9	03/12/08	0.0070	<0.001	<0.001	0.0102	0.0172
MW-10	03/12/08	0.17900	0.030	0.00890	0.0389	0.25700
MW-11	03/12/08	<0.001	<0.001	<0.001	<0.001	<0.001
MW-12	03/12/08	31.5	1.12	0.875	1.090	34.60
MW-13	03/12/08	0.0210	<0.001	<0.001	0.00310	0.02410
MW-14	03/12/08	0.00100	<0.001	<0.001	<0.001	0.00100
MW-15	03/12/08	0.00260	<0.001	<0.001	<0.001	0.00260
MW-16	03/12/08	0.165	0.0113	0.00270	0.0174	0.1960

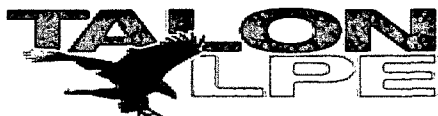


TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
CS CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO - SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-17	03/12/08	0.00310	<0.001	<0.001	<0.001	0.00310
MW-18	03/28/08	<0.001	<0.001	<0.001	<0.001	<0.001
NMWQCC Remedial Limits		0.010	0.750	0.750	0.620	

¹ **Bolded** values are in excess of the NMWQCC Remediation Thresholds



Table 3
Summary of Semi-Volatile and
Volatile Groundwater Analytical Results
Plains Pipeline, L.P.
C.S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, New Mexico - SRS# 2002-10257
Talon/LPE Project Number PLAINS044SPL

Parameter	Sample Date	MW-18	Units
Pyridine	03/25/08	<0.00500	mg/L
N-Nitrosodimethylamine	03/25/08	<0.00500	mg/L
2-Picoline	03/25/08	<0.00500	mg/L
Methyl methanesulfonate	03/25/08	<0.00500	mg/L
Ethyl methanesulfonate	03/25/08	<0.00500	mg/L
Phenol	03/25/08	<0.00500	mg/L
Aniline	03/25/08	<0.00500	mg/L
bis(2-chloroethyl)ether	03/25/08	<0.00500	mg/L
2-Chlorophenol	03/25/08	<0.00500	mg/L
1,3-Dichlorobenzene (meta)	03/25/08	<0.00500	mg/L
1,4-Dichlorobenzene (para)	03/25/08	<0.00500	mg/L
Benzyl alcohol	03/25/08	<0.00500	mg/L
1,2-Dichlorobenzene (ortho)	03/25/08	<0.00500	mg/L
2-Methylphenol	03/25/08	<0.00500	mg/L
bis(2-chloroisopropyl)ether	03/25/08	<0.00500	mg/L
4-Methylphenol / 3-Methylphenol	03/25/08	<0.00500	mg/L
N-Nitrosodi-n-propylamine	03/25/08	<0.00500	mg/L
Hexachloroethane	03/25/08	<0.00500	mg/L
Acetophenone	03/25/08	<0.00500	mg/L
Nitrobenzene	03/25/08	<0.00500	mg/L
N-Nitrosopiperidine	03/25/08	<0.00500	mg/L
Isophorone	03/25/08	<0.00500	mg/L
2-Nitrophenol	03/25/08	<0.00500	mg/L
2,4-Dimethylphenol	03/25/08	<0.00500	mg/L
bis(2-chloroethoxy)methane	03/25/08	<0.00500	mg/L
2,4-Dichlorophenol	03/25/08	<0.00500	mg/L
1,2,4-Trichlorobenzene	03/25/08	<0.00500	mg/L
Benzoic acid	03/25/08	<0.00500	mg/L
Naphthalene	03/25/08	<0.00500	mg/L
a,a-Dimethylphenethylamine	03/25/08	<0.00500	mg/L
4-Chloroaniline	03/25/08	<0.00500	mg/L
2,6-Dichlorophenol	03/25/08	<0.0100	mg/L



Table 3
Summary of Semi-Volatile and
Volatile Groundwater Analytical Results
Plains Pipeline, L.P.
C.S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, New Mexico - SRS# 2002-10257
Talon/LPE Project Number PLAINS044SPL

Parameter	Sample Date	MW-18	Units
Hexachlorobutadiene	03/25/08	<0.00500	mg/L
N-Nitroso-di-n-butylamine	03/25/08	<0.00500	mg/L
4-Chloro-3-methylphenol	03/25/08	<0.00500	mg/L
2-Methylnaphthalene	03/25/08	<0.00500	mg/L
1-Methylnaphthalene	03/25/08	<0.00500	mg/L
1,2,4,5-Tetrachlorobenzene	03/25/08	<0.00500	mg/L
Hexachlorocyclopentadiene	03/25/08	<0.00500	mg/L
2,4,6-Trichlorophenol	03/25/08	<0.0100	mg/L
2,4,5-Trichlorophenol	03/25/08	<0.00500	mg/L
2-Chloronaphthalene	03/25/08	<0.00500	mg/L
1-Chloronaphthalene	03/25/08	<0.00500	mg/L
2-Nitroaniline	03/25/08	<0.00500	mg/L
Dimethylphthalate	03/25/08	<0.00500	mg/L
Acenaphthylene	03/25/08	<0.00500	mg/L
2,6-Dinitrotoluene	03/25/08	<0.00500	mg/L
3-Nitroaniline	03/25/08	<0.00500	mg/L
Aceaphthene	03/25/08	<0.00500	mg/L
2,4-Dinitrophenol	03/25/08	<0.00500	mg/L
Dibenzofuran	03/25/08	<0.00500	mg/L
Pentachlorobenzene	03/25/08	<0.00500	mg/L
4-Nitrophenol	03/25/08	<0.0250	mg/L



Table 3
Summary of Semi-Volatile and
Volatile Groundwater Analytical Results
Plains Pipeline, L.P.
C.S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, New Mexico - SRS# 2002-10257
Talon/LPE Project Number PLAINS044SPL

Parameter	Sample Date	MW-18	Units
2,4-Dinitrotoluene	03/25/08	<0.00500	mg/L
1-Naphthylamine	03/25/08	<0.00500	mg/L
2,3,4,6-Tetrachlorophenol	03/25/08	<0.0100	mg/L
2-Naphthylamine	03/25/08	<0.00500	mg/L
Fluorene	03/25/08	<0.00500	mg/L
4-chloropheyl-phenylether	03/25/08	<0.00500	mg/L
Diethylphthalate	03/25/08	<0.00500	mg/L
4-Nitroaniline	03/25/08	<0.00500	mg/L
diphenylhydrazine	03/25/08	<0.00500	mg/L
4,6-Dinitro-2-methylphenol	03/25/08	<0.00500	mg/L
diphenylhydrazine	03/25/08	<0.00500	mg/L
4,6-Dinitro-2-methylphenol	03/25/08	<0.00500	mg/L
Diphenylamine	03/25/08	<0.00500	mg/L
4-Bromophenyl-phenylether	03/25/08	<0.00500	mg/L
Phenacetin	03/25/08	<0.00500	mg/L
Hexachlorobenzene	03/25/08	<0.00500	mg/L
4-Aminobiphenyl	03/25/08	<0.00500	mg/L
Pentachlorophenol	03/25/08	<0.0100	mg/L
Anthracene	03/25/08	<0.00500	mg/L
Pentachloronitrobenzene	03/25/08	<0.00500	mg/L
Pronamide	03/25/08	<0.00500	mg/L
Phenanthrene	03/25/08	<0.00500	mg/L
Di-n-butylphthalate	03/25/08	<0.00500	mg/L
Fluoranthene	03/25/08	<0.00500	mg/L
Benzidine	03/25/08	<0.0250	mg/L
Pyrene	03/25/08	<0.00500	mg/L



Table 3
Summary of Semi-Volatile and
Volatile Groundwater Analytical Results
Plains Pipeline, L.P.
C.S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, New Mexico - SRS# 2002-10257
Talon/LPE Project Number PLAINS044SPL

Parameter	Sample Date	MW-18	Units
p-Dimthylaminoazobenzene	03/25/08	<0.00500	mg/L
Butylebenzylphthala	03/25/08	<0.00500	mg/L
Benzo(a)anthracene	03/25/08	<0.00500	mg/L
3,3-Dichlorobenzidine	03/25/08	<0.00500	mg/L
Chrysene	03/25/08	<0.00500	mg/L
bis(2-ethylhexyl)phthalate	03/25/08	<0.00500	mg/L
Di-n-octylphthalate	03/25/08	<0.00500	mg/L
Benzo(b)fluoranthene	03/25/08	<0.00500	mg/L
Benzo(k)fluoranthene	03/25/08	<0.00500	mg/L
7,12-Dimethylbenz(a)anthracene	03/25/08	<0.00500	mg/L
Benzo(a)pyrene	03/25/08	<0.00500	mg/L
3-Mthylcholanthrene	03/25/08	<0.00500	mg/L
Dibenzo(a,j)acridine	03/25/08	<0.00500	mg/L
Indeno(1,2,3-cd)pyrene	03/25/08	<0.00500	mg/L
Dibenzo(a,h)anthracene	03/25/08	<0.00500	mg/L
Benzo(g,h,i)perylene	03/25/08	<0.00500	mg/L
Bromochloromethane	03/25/08	<0.001	mg/L
Dichlorodifluoromethane	03/25/08	<0.001	mg/L
Chloroethane (methyl chloride)	03/25/08	<0.001	mg/L
Vinyl Chloride	03/25/08	<0.001	mg/L
Bromomethane (methyl iodide)	03/25/08	<0.005	mg/L
Chloroethane	03/25/08	<0.001	mg/L
Trichlorofluoromethane	03/25/08	<0.001	mg/L
Acetone	03/25/08	<0.010	mg/L
Iodomethane (methyl iodide)	03/25/08	<0.005	mg/L
Carbon Disulfide	03/25/08	<0.001	mg/L
Acrylonitrile	03/25/08	<0.001	mg/L
2-Butanone (MEK)	03/25/08	<0.005	mg/L
4-Mthyl-2-pentanone (MIBK)	03/25/08	<0.005	mg/L



Table 3
Summary of Semi-Volatile and
Volatile Groundwater Analytical Results
Plains Pipeline, L.P.
C.S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, New Mexico - SRS# 2002-10257
Talon/LPE Project Number PLAINS044SPL

Parameter	Sample Date	MW-18	Units
2-Hexanone	03/25/08	<0.005	mg/L
trans 1,4-Dichloro-2-butene	03/25/08	<0.010	mg/L
1,1-Dichloroethene	03/25/08	<0.001	mg/L
Methylene chloride	03/25/08	<0.005	mg/L
MTBE	03/25/08	<0.001	mg/L
trans-1,2-Dichloroethene	03/25/08	<0.001	mg/L
1,1-Dichloroethane	03/25/08	<0.001	mg/L
cis-1,2-Dichloroethene	03/25/08	<0.001	mg/L
2,2-Dichloropropane	03/25/08	<0.001	mg/L
1,2-Dichloroethane (EDC)	03/25/08	<0.001	mg/L
Chloroform	03/25/08	<0.001	mg/L
1,1,1-Trichloroethane	03/25/08	<0.001	mg/L
1,1-Dichloropropene	03/25/08	<0.001	mg/L
Benzene	03/25/08	<0.001	mg/L
Carbon Tetrachloride	03/25/08	<0.001	mg/L
1,2-Dichloropropane	03/25/08	<0.001	mg/L
Trichloroethene (TCE)	03/25/08	<0.001	mg/L
Dibromomethane (methylene bromide)	03/25/08	<0.001	mg/L
Bromodichloromethane	03/25/08	<0.001	mg/L
2-Chloroethyl vinyl ether	03/25/08	<0.005	mg/L
cis-1,3-Dichloropropene	03/25/08	<0.001	mg/L
trans-1,3-Dichloropropene	03/25/08	<0.001	mg/L
Toluene	03/25/08	<0.001	mg/L
1,1,2-Trichloroethane	03/25/08	<0.001	mg/L
1,3-Dichloropropane	03/25/08	<0.001	mg/L
Dibromochloromethane	03/25/08	<0.001	mg/L
1,2-Dibromoethane (EDB)	03/25/08	<0.001	mg/L



Table 3
Summary of Semi-Volatile and
Volatile Groundwater Analytical Results
Plains Pipeline, L.P.

C.S. Cayler
NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, New Mexico - SRS# 2002-10257
Talon/LPE Project Number PLAINS044SPL

Parameter	Sample Date	MW-18	Units
Tetrachloroethene (PCE)	03/25/08	<0.001	mg/L
Chlorobenzene	03/25/08	<0.001	mg/L
1,1,1,2-Tetrachloroethane	03/25/08	<0.001	mg/L
Ethylbenzene	03/25/08	<0.001	mg/L
m,p-Xylene	03/25/08	<0.001	mg/L
Bromoform	03/25/08	<0.001	mg/L
Styrene	03/25/08	<0.001	mg/L
o-Xylene	03/25/08	<0.001	mg/L
1,1,2,2-Tetrachloroethane	03/25/08	<0.001	mg/L
2-Chlorotoluene	03/25/08	<0.001	mg/L
1,2,3-Trichloropropane	03/25/08	<0.001	mg/L
Isopropylbenzene	03/25/08	2.10	mg/L
Bromobenzene	03/25/08	<0.001	mg/L
n-Propylbenzene	03/25/08	<0.001	mg/L
1,3,5-Trimethylebenzene	03/25/08	<0.001	mg/L
tert-Butylbenzene	03/25/08	<0.001	mg/L
1,2,4-Trimethylbenzene	03/25/08	<0.001	mg/L
1,4-Dichlorobenzene (para)	03/25/08	<0.001	mg/L
sec-Butylbenzene	03/25/08	<0.001	mg/L
1,3-Dichlorobenzene (meta)	03/25/08	<0.001	mg/L
p-Isopropyltoluene	03/25/08	<0.001	mg/L
4-Chlorotoluene	03/25/08	<0.001	mg/L
1,2-Dichlorobenzene (ortho)	03/25/08	<0.001	mg/L
n-Butylbenzene	03/25/08	<0.001	mg/L
1,2-Dibromo-3-chloropropane	03/25/08	<0.005	mg/L
1,2,3-Trichlorobenzene	03/25/08	<0.005	mg/L
1,2,4-Trichlorobenzene	03/25/08	<0.005	mg/L
Naphthalene	03/25/08	<0.005	mg/L
Hexachlorobutadiene	03/25/08	<0.005	mg/L

TABLE 4
MONITOR WELL SOIL ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
C.S. CAYLER
NMOC REF. # AP-052 (OLS 1R-0382)
LEA COUNTY, NM SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Sampling Interval (lbs)	Sample ID	Sample Date	Lithology & Description	VOC ⁸ (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Xylene (o) (mg/kg)	Xylenes (m,p) (mg/kg)	BTEX (mg/kg)	TPH ⁷ (GRO ⁶) (mg/kg)	TPH (DRO ⁵) (mg/kg)	Total TPH (mg/kg)
MW-1 (MW-1 was installed in the BH-1 soil boring)	5	CSC101702BH1-5	10/17/2002	not logged	NA	122	395	164	121	82.7	318	582	9,110	15,700	26,500
	10	CSC101702BH1-10	10/17/2002	not logged	NA	34.1	172	89.1	204	20.4	204	187	2,680	7,650	16,760
	15	CSC101702BH1-15	10/17/2002	not logged	NA	12.9	68.6	32.1	53.1	32.1	53.1	187	2,680	2,220	4,900
	20	CSC101702BH1-20	10/17/2002	not logged	NA	64.5	204	65.2	101	39.4	101	474	4,270	3,810	8,080
	25	CSC101702BH1-25	10/17/2002	not logged	NA	130	398	174	271	105	271	1,078	9,190	10,800	19,990
	30	CSC101702BH1-30	10/17/2002	not logged	NA	47.0	248	105	178	70.6	178	649	8,350	10,300	18,650
	35	CSC101702BH1-35	10/17/2002	not logged	NA	58.1	189	75.6	130	50.7	130	503	6,670	8,330	15,000
	40	CSC101702BH1-40	10/17/2002	not logged	NA	116	359	152	244	92.7	244	964	7,250	9,890	17,140
	45	CSC101702BH1-45	10/17/2002	not logged	NA	89.7	403	152	243	95.9	243	984	5,720	7,430	13,150
	50	CSC101702BH1-50	10/17/2002	not logged	NA	59.4	336	147	241	90.1	241	874	6,650	8,680	15,330
MW-2	60	CSC101702BH1-60	10/17/2002	not logged	NA	75.2	334	126	233	93.6	233	862	8,230	10,800	19,030
	65	CSC101702BH1-65	10/17/2002	not logged	NA	214	622	224	382	152	382	1,594	11,600	14,800	26,400
	0-7	--	--	Bottom of Excavation	--	--	--	--	--	--	--	--	--	--	--
	9-10	MW-2 (9'-10')	5/26/2000	Caliche	1157	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13-15	MW-2 (13'-15')	5/26/2000	Caliche	1282	535	29.1	7.99	25.1	10.6	25.1	78.1	1,430	2,260	3,690
	19-20	MW-2 (19'-20')	5/26/2000	Caliche	1312	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	24-25	MW-2 (24'-25')	5/26/2000	Caliche	1555	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	29-30	MW-2 (29'-30')	5/26/2000	Sand	1899	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	34-35	MW-2 (34'-35')	5/26/2000	Sand	1360	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	MW-2 (38'-40')	5/26/2000	Sand	1821	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	43-45	MW-2 (43'-45')	5/26/2000	Sand	480	0.449	6.42	6.14	13.4	5.73	13.4	32.1	1,180	3,290	4,470
	48-50	MW-2 (48'-50')	5/26/2000	Sand	2434	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	53-55	MW-2 (53'-55')	5/26/2000	Sand	1030	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	MW-2 (58'-60')	5/26/2000	Sand	1479	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	MW-2 (63'-65')	5/26/2000	Sand	1477	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-2 (68'-70')	5/26/2000	Sand	1074	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	73-75	MW-2 (73'-75')	5/26/2000	Sand (moist)	2999	57.6	330	146	238	81.6	238	853	15,600	22,500	38,100
	78-80	MW-2 (78'-80')	5/26/2000	Sand (wet)	1163	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3-5	MW-3 (3'-5')	6/8/2000	tan medium to coarse sand w/ some pebbles	121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8-10	MW-3 (8'-10')	6/8/2000	tan medium to coarse sand w/ some pebbles	23.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	13-15	MW-3 (13'-15')	6/8/2000	tan fine to medium sand w/ some pebbles	36.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	18-20	MW-3 (18'-20')	6/8/2000	tan fine to medium sand w/ some pebbles	7.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	23-25	MW-3 (23'-25')	6/8/2000	tan fine to medium sand w/ some pebbles	111	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	28-30	MW-3 (28'-30')	6/8/2000	red brown fine to coarse sand	91.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	33-35	MW-3 (33'-35')	6/8/2000	tan fine to medium sand w/ caliche	86.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	MW-3 (38'-40')	6/8/2000	red brown fine to medium sand	82.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-3 (43'-45')	6/8/2000	tan fine to medium sand	92.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	MW-3 (48'-50')	6/8/2000	tan sand	101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	53-55	MW-3 (53'-55')	6/8/2000	tan sand	126	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	MW-3 (58'-60')	6/8/2000	tan sand w/ caliche (odorous)	924	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
MW-3	63-65	MW-3 (63'-65')	6/8/2000	tan sand (odorous)	161	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-3 (68'-70')	6/8/2000	red brown fine to medium sand w/ some clay (odorous)	171	NA	NA	NA	NA	NA	NA	1181	15,700	16,400	32,100
	73-75	MW-3 (73'-75')	6/8/2000	red brown fine to coarse sand w/ some clay (odorous)	1261	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	78-80	MW-3 (78'-80')	6/8/2000	red brown fine sand w/ some clay & pebbles (odorous)	151	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4
MONITOR WELL SOIL ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
C.S. CAYLER
NMOCDF REF. # AP-052 (OLS 1R-0382)
LEA COUNTY, NM SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Sampling Interval (Days)	Sample ID	Sample Date	Lithology & Description	VOC ^a (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (m,p) (mg/kg)	Xylene (o) (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH ⁷ (GRO ^b) (mg/kg)	TPH (DRO ^b) (mg/kg)	Total TPH (mg/kg)
MW-4	3-5	MW-4 (3'-5')	6/14/2000	Caliche	232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8-10	MW-4 (8'-10')	6/14/2000	Caliche	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13-15	MW-4 (13'-15')	6/14/2000	Caliche	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	18-20	MW-4 (18'-20')	6/14/2000	Caliche	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	23-25	MW-4 (23'-25')	6/14/2000	Caliche sand	45.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	28-30	MW-4 (28'-30')	6/14/2000	Sand	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	33-35	MW-4 (33'-35')	6/14/2000	Sand	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	MW-4 (38'-40')	6/14/2000	Sand	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-4 (43'-45')	6/14/2000	Sand	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	MW-4 (48'-50')	6/14/2000	Sand	17.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	53-55	MW-4 (53'-55')	6/14/2000	Sand	8.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	MW-4 (58'-60')	6/14/2000	Sand	7.0	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
MW-5	63-65	MW-4 (63'-65')	6/14/2000	Sand	90.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-4 (68'-70')	6/14/2000	Sand (damp)	1060	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	73-75	MW-4 (73'-75')	6/14/2000	Sand (damp)	1353	13.7	96.0	63.6	107	45.8	NA	326	6,950	20,200	27,150
	78-80	MW-4 (78'-80')	6/14/2000	Sand (wet)	184	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3-5	MW-5 (3'-5')	6/13/2000	Caliche	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8-10	MW-5 (8'-10')	6/13/2000	Caliche	144	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13-15	MW-5 (13'-15')	6/13/2000	Caliche	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	18-20	MW-5 (18'-20')	6/13/2000	Caliche	157	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	23-25	MW-5 (23'-25')	6/13/2000	Caliche sand	134	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	28-30	MW-5 (28'-30')	6/13/2000	Sand	352	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	33-35	MW-5 (33'-35')	6/13/2000	Sand	236	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	38-40	MW-5 (38'-40')	6/13/2000	Sand	246	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-5 (43'-45')	6/13/2000	Sand	137	<0.025	0.026	<0.025	0.045	<0.025	<0.025	<0.025	<10.0	15.8	15.8
	53-55	MW-5 (53'-55')	6/13/2000	Sand	199	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	MW-5 (58'-60')	6/13/2000	Sand	208	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	MW-5 (63'-65')	6/13/2000	Sand	1409	216	491	145	235	81.9	NA	1169	20,800	22,800	43,600
	68-70	MW-5 (68'-70')	6/13/2000	Sand (damp)	654	13.7	96.0	63.6	107	45.8	NA	326	6,950	20,200	27,150
	73-75	MW-5 (73'-75')	6/13/2000	Caliche sand (damp)	169	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	78-80	MW-5 (78'-80')	6/13/2000	Sand (wet)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	0-25	MW-6 (0'-25')	10/20/2000	Caliche	27.6	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<2.5	<2.5	<2.5
	25-30	MW-6 (25'-30')	10/21/2004	Reddish brown sand caliche mix (caliche top 1')	26.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	33-35	MW-6 (33'-35')	10/21/2004	Reddish brown sand caliche mix (caliche top 1')	44.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	38-40	MW-6 (38'-40')	10/21/2004	Tan fine sand	37.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-6 (43'-45')	10/21/2004	Tan fine sand	74.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	MW-6 (48'-50')	10/21/2004	Reddish brown fine sand	99.4	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<2.5	<2.5	<2.5
	53-60	MW-6 (53'-60')	10/21/2004	Reddish brown fine sand	51.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	MW-6 (63'-65')	10/21/2004	Reddish brown fine sand	62.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-6 (68'-70')	10/21/2004	Reddish brown fine sand and angular rocks	54.2	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<2.5	<2.5	<2.5
	74-75	MW-6 (74'-75')	10/21/2004	Reddish brown fine sand (damp)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	0-27	MW-7 (0'-27')	10/20/2000	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	27-28	MW-7 (27'-28')	10/21/2004	Red fine sand	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28-29	MW-7 (28'-29')	10/21/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29-30	MW-7 (29'-30')	10/21/2004	Fine red sand	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30-35	MW-7 (30'-35')	10/21/2004	Fine reddish white caliche sand mix	28.1	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<2.5	<2.5	<2.5
MW-7	38-40	MW-7 (38'-40')	10/21/2004	Fine reddish brown sand (top 6" whitish)	50.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-7 (43'-45')	10/21/2004	Fine reddish brown sand w/ hard packed pebbles	53.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	MW-7 (48'-50')	10/21/2004	Fine reddish brown sand w/ some hard packed pebbles	33.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	50-55	MW-7 (50'-55')	10/21/2004	Fine reddish brown sand	79.2	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<2.5	<2.5	<2.5
	55-60	MW-7 (55'-60')	10/21/2004	Fine reddish brown sand w/ some hard packed pebbles	49.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	MW-7 (63'-65')	10/21/2004	Fine reddish brown sand	79.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-7 (68'-70')	10/21/2004	NS (rig stuck-drilled past)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	74-75	MW-7 (74'-75')	10/21/2004	Fine reddish brown sand w/ some gravel (odorous)	223	20.3	92.0	36.5	66.8	23.2	NA	239	1,560	1,570	3,130

TABLE 4

**MONITOR WELL SOIL ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.**

C.S. CAYLER

NMOCDF REF. # AP-052 (OLS 1R-0382)

LEA COUNTY, NM SRS# 2002-10250

Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Sampling Interval (Days)	Sample ID	Sample Date	Lithology & Description	VOC ⁶ (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (m.p.) (mg/kg)	Xylene (o) (mg/kg)	Xylenes (mg/kg)	TPH ⁷ (GRO ⁸) (mg/kg)	TPH (DRO ⁹) (mg/kg)	Total TPH (mg/kg)
MW-8	0-5	MW-8 (0'-5')	10/20/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5-15	MW-8 (5'-15')	10/20/2004	Fine reddish brown sand	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15-30	MW-8 (15'-30')	10/20/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30-35	MW-8 (30'-35')	10/20/2004	Fine tan sand caliche mix	21.3	<.020	<.020	<.020	<.040	<.020	<.020	<.020	<.020	<.020
	37-38	MW-8 (37'-38')	10/20/2004	Fine reddish brown sand	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	38-40	MW-8 (38'-40')	10/20/2004	Fine tan sand caliche mix	27.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-8 (43'-45')	10/20/2004	Fine reddish brown sand w/ some pebbles	26.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	45-50	MW-8 (45'-50')	10/20/2004	Fine reddish brown sand	22.9	<.020	<.020	<.020	<.040	<.020	<.020	<.020	<.020	<.020
	53-55	MW-8 (53'-55')	10/20/2004	Fine reddish brown sand w/ some pebbles	27.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	MW-8 (58'-60')	10/20/2004	Fine reddish brown sand w/ angular rock	45.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	MW-8 (63'-65')	10/20/2004	Fine reddish brown sand w/ angular rock	20.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-8 (68'-70')	10/20/2004	Fine reddish brown sand w/ angular rock	23.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
	74-75	MW-8 (74'-75')	10/20/2004	Fine reddish brown sand (wet green black staining odorous)	75.1	<.020	<.020	<.020	<.040	<.020	<.020	<.020	<.020	<.020
MW-9	0-5	MW-9 (0'-5')	10/19/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5-12	MW-9 (5'-12')	10/19/2004	Sand	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12-24.5	MW-9 (12'-24.5')	10/19/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	24.5-25	MW-9 (24.5'-25')	10/19/2004	Red brown fine sand w/ some silt and clay	18.0	<.020	<.020	<.020	<.040	<.020	<.020	<.020	<.020	<.020
	33-35	MW-9 (33'-35')	10/19/2004	Tan fine sand compacted	15.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	MW-9 (38'-40')	10/19/2004	Reddish brown fine sand	38.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-9 (43'-45')	10/19/2004	Reddish brown fine sand	17.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	MW-9 (48'-50')	10/19/2004	Reddish brown fine sand	33.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	53-55	MW-9 (53'-55')	10/19/2004	Reddish brown fine sand	42.6	<.020	<.020	<.020	<.040	<.020	<.020	<.020	<.020	<.020
	58-60	MW-9 (58'-60')	10/19/2004	Reddish brown fine sand w/ some pebbles	40.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	MW-9 (63'-65')	10/19/2004	Reddish brown fine sand w/ some pebbles	21.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-9 (68'-70')	10/19/2004	Reddish brown fine sand (damp)	24.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	74-75	MW-9 (74'-75')	10/19/2004	Reddish brown fine sand (wet)	16.0	<.020	<.020	<.020	<.040	<.020	<.020	<.020	<.020	<.020
	0-5	MW-10 (74'-75')	10/20/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	5-12	MW-10 (74'-75')	10/20/2004	Sand	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12-29	MW-10 (74'-75')	10/20/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29-30	MW-10 (29'-30')	10/20/2004	Red brown fine sand w/ some silt and clay	20.1	<.020	<.020	<.020	<.040	<.020	<.020	<.020	<.020	<.020
	33-35	MW-10 (74'-75')	10/20/2004	Tan fine sand compacted	6.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	MW-10 (74'-75')	10/20/2004	Reddish brown fine sand	43.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-10 (74'-75')	10/20/2004	Reddish brown fine sand	29.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	45-50	MW-10 (45'-50')	10/20/2004	Reddish brown fine sand	23.2	<.020	<.020	<.020	<.040	<.020	<.020	<.020	<.020	<.020
	53-55	MW-10 (74'-75')	10/20/2004	Reddish brown fine sand	48.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	MW-10 (74'-75')	10/20/2004	Reddish brown fine sand w/ some pebbles	42.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	MW-10 (74'-75')	10/20/2004	Reddish brown fine sand w/ some pebbles	28.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-10 (74'-75')	10/20/2004	Reddish brown fine sand (damp)	25.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	74-75	MW-10 (74'-75')	10/20/2004	Reddish brown fine sand (wet)	23.3	<.020	<.020	<.020	<.040	<.020	<.020	<.020	<.020	<.020

TABLE 4
MONITOR WELL SOIL ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
C.S. CAYLER
NMOCID REF. # AP-052 (OILS 1R-0382)
LEA COUNTY, NM SRS# 2002-10250
Talon/LPE Project Number PLAINS044SPL

Monitoring Well	Sampling Interval (Days)	Sample ID	Sample Date	Lithology & Description	VOC ⁸ (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (m.p) (mg/kg)	Xylene (o) (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH ⁷ (GRO) ⁶ (mg/kg)	TPH (DRO) ⁵ (mg/kg)	Total TPH (mg/kg)
MW-11	30'-31'	MW-11 (30'-31')	2/20/2002	1'an fine sand - sandstone	0.2	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
	40'-41'	MW-11 (40'-41')	2/20/2002	1'an fine sand	0.3	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
	70'-71'	MW-11 (70'-71')	2/20/2002	1'an fine sand	0.1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
MW-12	30'-31'	MW-12 (30'-31')	2/22/2002	1'an fine sand - sandstone	2.3	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
	50'-51'	MW-12 (50'-51')	2/22/2002	1'an fine sand	1.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
	75'-76'	MW-12 (75'-76')	2/22/2002	1'an fine sand	1.2	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
MW-13	30'-31'	MW-13 (30'-31')	2/21/2002	1'an fine sand - sandstone	0.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
	50'-51'	MW-13 (50'-51')	2/21/2002	1'an fine sand - sandstone	0.2	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
	70'-71'	MW-13 (70'-71')	2/21/2002	1'an fine sand - sandstone	0.4	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
MW-14	30'-31'	MW-14 (30'-31')	2/20/2002	1'an fine sand - sandstone	0.1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
	50'-51'	MW-14 (50'-51')	2/20/2002	1'an fine sand - sandstone	0.3	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
	70'-71'	MW-14 (70'-71')	2/20/2002	1'an fine sand - sandstone	0.1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
MW-15	30'-31'	MW-15 (30'-31')	2/21/2002	1'an fine sand - sandstone	0.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
	50'-51'	MW-15 (50'-51')	2/21/2002	1'an fine sand - sandstone	0.6	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
	70'-71'	MW-15 (70'-71')	2/21/2002	1'an fine sand - sandstone	0.8	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
MW-16	30'-31'	MW-16 (30'-31')	2/22/2002	1'an fine sand - sandstone	0.7	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
	50'-51'	MW-16 (50'-51')	2/22/2002	1'an fine sand - sandstone	2.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
	70'-71'	MW-16 (70'-71')	2/22/2002	1'an fine sand	0.9	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
MW-17	30'-31'	MW-17 (30'-31')	2/22/2002	1'an fine sand - sandstone	0.5	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
	50'-51'	MW-17 (50'-51')	2/22/2002	1'an fine sand - sandstone	1.9	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
	70'-71'	MW-17 (70'-71')	2/22/2002	1'an fine sand - sandstone	0.7	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0
MW-18	5"	MW-18 (5)	3/17/2004	1'an fine sand - sandstone		<0.0100	<0.0100	<0.0100	<0.0100		<0.0100	<0.0100	<1.00	<56.0	<51.0
	40'	MW-18 (40)	3/17/2004	1'an fine sand - sandstone		<0.0100	<0.0100	<0.0100	<0.0100		<0.0100	<0.0100	<1.00	<50.0	<51.0
	75'	MW-18 (75)	3/17/2004	1'an fine sand - sandstone		<0.0100	<0.0100	<0.0100	<0.0100		<0.0100	<0.0100	<1.00	<50.0	<51.0
NMOCID Remedial Thresholds					10							50			100

¹ Bolded values are in excess of the NMOCID Remediation Thresholds

² NA: Not Analyzed

³ NS: Not Sampled

⁴ lbs: feet below ground surface

⁵ DRO: Diesel range organics

⁶ GRO: Gasoline range organics

⁷ TPH: Total Petroleum Hydrocarbons

⁸ VOC: Volatile Organic Constituent vapor headspace



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Analytical and Quality Control Report

Shanna Smith
Talon LPE-Amarillo
921 North Bivins
Amarillo, TX, 79107

Report Date: March 21, 2008

Work Order: 8031234



Project Location: Lea County, NM
Project Name: C.S. Caylor
Project Number: PLAINS044 SPL
SRS #: SRS 2002-10250

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
153429	MW-17	water	2008-03-12	12:43	2008-03-12
153430	MW-16	water	2008-03-12	12:49	2008-03-12
153431	MW-15	water	2008-03-12	12:52	2008-03-12
153432	MW-14	water	2008-03-12	12:57	2008-03-12
153433	MW-12	water	2008-03-12	13:00	2008-03-12
153434	MW-13	water	2008-03-12	13:08	2008-03-12
153435	MW-9	water	2008-03-12	13:20	2008-03-12
153436	MW-6	water	2008-03-12	13:28	2008-03-12
153437	MW-10	water	2008-03-12	13:30	2008-03-12
153438	MW-11	water	2008-03-12	13:40	2008-03-12

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 153429 - MW-17

Analysis: BTEX, Total BTEX
QC Batch: 46626
Prep Batch: 40073

Analytical Method: S 8021B
Date Analyzed: 2008-03-18
Sample Preparation: 2008-03-17

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00310	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100
Total BTEX		0.00310	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0971	mg/L	1	0.100	97	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0669	mg/L	1	0.100	67	40.1 - 136

Sample: 153430 - MW-16

Analysis: BTEX, Total BTEX
QC Batch: 46626
Prep Batch: 40073

Analytical Method: S 8021B
Date Analyzed: 2008-03-18
Sample Preparation: 2008-03-17

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.165	mg/L	1	0.00100
Toluene		0.0113	mg/L	1	0.00100
Ethylbenzene		0.00270	mg/L	1	0.00100
Xylene		0.0174	mg/L	1	0.00100
Total BTEX		0.196	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	40.1 - 136

Sample: 153431 - MW-15

Analysis: BTEX, Total BTEX
QC Batch: 46626
Prep Batch: 40073

Analytical Method: S 8021B
Date Analyzed: 2008-03-18
Sample Preparation: 2008-03-17

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00260	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100

continued ...

sample 153431 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Xylene		<0.00100	mg/L	1	0.00100
Total BTEX		0.00260	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0996	mg/L	1	0.100	100	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0957	mg/L	1	0.100	96	40.1 - 136

Sample: 153432 - MW-14

Analysis: BTEX, Total BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46626	Date Analyzed: 2008-03-18	Analyzed By: DC
Prep Batch: 40073	Sample Preparation: 2008-03-17	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100
Total BTEX		0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0790	mg/L	1	0.100	79	40.1 - 136

Sample: 153433 - MW-12

Analysis: BTEX, Total BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46722	Date Analyzed: 2008-03-20	Analyzed By: DC
Prep Batch: 40146	Sample Preparation: 2008-03-19	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		31.5	mg/L	100	0.00100
Toluene		1.12	mg/L	100	0.00100
Ethylbenzene		0.874	mg/L	100	0.00100
Xylene		1.09	mg/L	100	0.00100
Total BTEX		34.6	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.5	mg/L	100	10.0	105	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		7.72	mg/L	100	10.0	77	40.1 - 136

Sample: 153434 - MW-13

Analysis: BTEX, Total BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46626	Date Analyzed: 2008-03-18	Analyzed By: DC
Prep Batch: 40073	Sample Preparation: 2008-03-17	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0210	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00310	mg/L	1	0.00100
Total BTEX		0.0241	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0851	mg/L	1	0.100	85	40.1 - 136

Sample: 153435 - MW-9

Analysis: BTEX, Total BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46626	Date Analyzed: 2008-03-18	Analyzed By: DC
Prep Batch: 40073	Sample Preparation: 2008-03-17	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00700	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.0102	mg/L	1	0.00100
Total BTEX		0.0172	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0900	mg/L	1	0.100	90	40.1 - 136

Sample: 153436 - MW-6

Analysis: BTEX, Total BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46633	Date Analyzed: 2008-03-18	Analyzed By: DC
Prep Batch: 40116	Sample Preparation: 2008-03-18	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.138	mg/L	1	0.00100
Toluene		0.0301	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.0188	mg/L	1	0.00100
Total BTEX		0.187	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0789	mg/L	1	0.100	79	40.1 - 136

Sample: 153437 - MW-10

Analysis: BTEX, Total BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46633 Date Analyzed: 2008-03-18 Analyzed By: DC
Prep Batch: 40116 Sample Preparation: 2008-03-18 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.179	mg/L	1	0.00100
Toluene		0.0300	mg/L	1	0.00100
Ethylbenzene		0.00890	mg/L	1	0.00100
Xylene		0.0389	mg/L	1	0.00100
Total BTEX		0.257	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0652	mg/L	1	0.100	65	40.1 - 136

Sample: 153438 - MW-11

Analysis: BTEX, Total BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46633 Date Analyzed: 2008-03-18 Analyzed By: DC
Prep Batch: 40116 Sample Preparation: 2008-03-18 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100
Total BTEX		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0691	mg/L	1	0.100	69	40.1 - 136

Method Blank (1) QC Batch: 46626

QC Batch: 46626 Date Analyzed: 2008-03-18 Analyzed By: DC
Prep Batch: 40073 QC Preparation: 2008-03-17 Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0959	mg/L	1	0.100	96	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0846	mg/L	1	0.100	85	69.1 - 122.3

Method Blank (1) QC Batch: 46633

QC Batch: 46633
Prep Batch: 40116

Date Analyzed: 2008-03-18
QC Preparation: 2008-03-18

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.109	mg/L	1	0.100	109	69.1 - 122.3

Method Blank (1) QC Batch: 46722

QC Batch: 46722
Prep Batch: 40146

Date Analyzed: 2008-03-20
QC Preparation: 2008-03-19

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0736	mg/L	1	0.100	74	69.1 - 122.3

Laboratory Control Spike (LCS-1)

QC Batch: 46626
Prep Batch: 40073

Date Analyzed: 2008-03-18
QC Preparation: 2008-03-17

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0852	mg/L	1	0.100	<0.00110	85	84 - 119.7
Toluene	0.0851	mg/L	1	0.100	<0.00100	85	84.9 - 118.2
Ethylbenzene	0.0852	mg/L	1	0.100	<0.00100	85	84.4 - 118.6
Xylene	0.265	mg/L	1	0.300	<0.00290	88	84.8 - 117.8

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0881	mg/L	1	0.100	<0.00110	88	84 - 119.7	3	20
Toluene	0.0875	mg/L	1	0.100	<0.00100	88	84.9 - 118.2	3	20
Ethylbenzene	0.0864	mg/L	1	0.100	<0.00100	86	84.4 - 118.6	1	20
Xylene	0.276	mg/L	1	0.300	<0.00290	92	84.8 - 117.8	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0974	0.0975	mg/L	1	0.100	97	98	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0874	0.0891	mg/L	1	0.100	87	89	67.7 - 126.3

Laboratory Control Spike (LCS-1)

QC Batch: 46633
Prep Batch: 40116

Date Analyzed: 2008-03-18
QC Preparation: 2008-03-18

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.112	mg/L	1	0.100	<0.00110	112	84 - 119.7
Toluene	0.113	mg/L	1	0.100	<0.00100	113	84.9 - 118.2
Ethylbenzene	0.115	mg/L	1	0.100	<0.00100	115	84.4 - 118.6
Xylene	0.352	mg/L	1	0.300	<0.00290	117	84.8 - 117.8

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.109	mg/L	1	0.100	<0.00110	109	84 - 119.7	3	20
Toluene	0.110	mg/L	1	0.100	<0.00100	110	84.9 - 118.2	3	20
Ethylbenzene	0.112	mg/L	1	0.100	<0.00100	112	84.4 - 118.6	3	20
Xylene	0.346	mg/L	1	0.300	<0.00290	115	84.8 - 117.8	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.109	0.108	mg/L	1	0.100	109	108	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.110	0.109	mg/L	1	0.100	110	109	67.7 - 126.3

Laboratory Control Spike (LCS-1)

QC Batch: 46722
Prep Batch: 40146

Date Analyzed: 2008-03-20
QC Preparation: 2008-03-19

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.106	mg/L	1	0.100	<0.00110	106	84 - 119.7
Toluene	0.107	mg/L	1	0.100	<0.00100	107	84.9 - 118.2
Ethylbenzene	0.106	mg/L	1	0.100	<0.00100	106	84.4 - 118.6
Xylene	0.317	mg/L	1	0.300	<0.00290	106	84.8 - 117.8

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.105	mg/L	1	0.100	<0.00110	105	84 - 119.7	1	20
Toluene	0.106	mg/L	1	0.100	<0.00100	106	84.9 - 118.2	1	20
Ethylbenzene	0.106	mg/L	1	0.100	<0.00100	106	84.4 - 118.6	0	20
Xylene	0.315	mg/L	1	0.300	<0.00290	105	84.8 - 117.8	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.102	0.103	mg/L	1	0.100	102	103	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0745	0.0758	mg/L	1	0.100	74	76	67.7 - 126.3

Matrix Spike (MS-1) Spiked Sample: 153376

QC Batch: 46626
Prep Batch: 40073

Date Analyzed: 2008-03-18
QC Preparation: 2008-03-17

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	7.70	mg/L	50	5.00	3.0695	93	77.5 - 121.1
Toluene	5.32	mg/L	50	5.00	0.8106	90	78.8 - 119.6
Ethylbenzene	4.28	mg/L	50	5.00	<0.0500	86	77.9 - 120.5
Xylene	14.4	mg/L	50	15.0	0.9255	90	78.3 - 119.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	7.52	mg/L	50	5.00	3.0695	89	77.5 - 121.1	2	20
Toluene	5.16	mg/L	50	5.00	0.8106	87	78.8 - 119.6	3	20
Ethylbenzene	4.16	mg/L	50	5.00	<0.0500	83	77.9 - 120.5	3	20
Xylene	14.2	mg/L	50	15.0	0.9255	88	78.3 - 119.4	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	4.89	4.87	mg/L	50	5	98	97	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	4.19	4.26	mg/L	50	5	84	85	59.4 - 127.3

Matrix Spike (MS-1) Spiked Sample: 153297

QC Batch: 46633
Prep Batch: 40116

Date Analyzed: 2008-03-18
QC Preparation: 2008-03-18

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.503	mg/L	5	0.500	<0.00550	101	77.5 - 121.1
Toluene	0.500	mg/L	5	0.500	<0.00500	100	78.8 - 119.6
Ethylbenzene	0.486	mg/L	5	0.500	<0.00500	97	77.9 - 120.5
Xylene	1.41	mg/L	5	1.50	<0.0145	94	78.3 - 119.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.501	mg/L	5	0.500	<0.00550	100	77.5 - 121.1	0	20
Toluene	0.501	mg/L	5	0.500	<0.00500	100	78.8 - 119.6	0	20
Ethylbenzene	0.491	mg/L	5	0.500	<0.00500	98	77.9 - 120.5	1	20
Xylene	1.43	mg/L	5	1.50	<0.0145	95	78.3 - 119.4	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.525	0.519	mg/L	5	0.5	105	104	86.6 - 118.9
4-Bromofluorobenzene (4-BFB) ¹	0.293	0.298	mg/L	5	0.5	59	60	59.4 - 127.3

Matrix Spike (MS-1) Spiked Sample: 153939

QC Batch: 46722
Prep Batch: 40146

Date Analyzed: 2008-03-20
QC Preparation: 2008-03-19

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.83	mg/L	20	2.00	0.9306	95	77.5 - 121.1
Toluene	1.81	mg/L	20	2.00	<0.0200	90	78.8 - 119.6
Ethylbenzene	1.96	mg/L	20	2.00	0.368	80	77.9 - 120.5
Xylene ²	6.70	mg/L	20	6.00	2.9543	62	78.3 - 119.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.92	mg/L	20	2.00	0.9306	99	77.5 - 121.1	3	20
Toluene	2.02	mg/L	20	2.00	<0.0200	101	78.8 - 119.6	11	20
Ethylbenzene	2.06	mg/L	20	2.00	0.368	85	77.9 - 120.5	5	20
Xylene ³	6.84	mg/L	20	6.00	2.9543	65	78.3 - 119.4	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.09	2.10	mg/L	20	2	104	105	86.6 - 118.9
4-Bromofluorobenzene (4-BFB) ^{4 5}	0.960	0.969	mg/L	20	2	48	48	59.4 - 127.3

¹BFB out of control limits; TFT shows method to be in control.

²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁴BFB out of control limits; TFT shows method to be in control.

⁵BFB out of control limits; TFT shows method to be in control.

Standard (ICV-1)

QC Batch: 46626

Date Analyzed: 2008-03-18

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0880	88	85 - 115	2008-03-18
Toluene		mg/L	0.100	0.0874	87	85 - 115	2008-03-18
Ethylbenzene		mg/L	0.100	0.0862	86	85 - 115	2008-03-18
Xylene		mg/L	0.300	0.272	91	85 - 115	2008-03-18

Standard (CCV-1)

QC Batch: 46626

Date Analyzed: 2008-03-18

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0946	95	85 - 115	2008-03-18
Toluene		mg/L	0.100	0.0951	95	85 - 115	2008-03-18
Ethylbenzene		mg/L	0.100	0.0926	93	85 - 115	2008-03-18
Xylene		mg/L	0.300	0.301	100	85 - 115	2008-03-18

Standard (ICV-1)

QC Batch: 46633

Date Analyzed: 2008-03-18

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.106	106	85 - 115	2008-03-18
Toluene		mg/L	0.100	0.109	109	85 - 115	2008-03-18
Ethylbenzene		mg/L	0.100	0.114	114	85 - 115	2008-03-18
Xylene	⁶	mg/L	0.300	0.350	117	85 - 115	2008-03-18

Standard (CCV-1)

QC Batch: 46633

Date Analyzed: 2008-03-18

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.100	100	85 - 115	2008-03-18
Toluene		mg/L	0.100	0.0995	100	85 - 115	2008-03-18
Ethylbenzene		mg/L	0.100	0.0964	96	85 - 115	2008-03-18
Xylene		mg/L	0.300	0.278	93	85 - 115	2008-03-18

⁶Xylene outside of control limits on ICV. ICV component average is 0.1130 which is within acceptable range. This is acceptable by Method 8000.

Standard (ICV-1)

QC Batch: 46722

Date Analyzed: 2008-03-20

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.103	103	85 - 115	2008-03-20
Toluene		mg/L	0.100	0.104	104	85 - 115	2008-03-20
Ethylbenzene		mg/L	0.100	0.103	103	85 - 115	2008-03-20
Xylene		mg/L	0.300	0.304	101	85 - 115	2008-03-20

Standard (CCV-1)

QC Batch: 46722

Date Analyzed: 2008-03-20

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0983	98	85 - 115	2008-03-20
Toluene		mg/L	0.100	0.0976	98	85 - 115	2008-03-20
Ethylbenzene		mg/L	0.100	0.0928	93	85 - 115	2008-03-20
Xylene		mg/L	0.300	0.265	88	85 - 115	2008-03-20

email: lab@traceanalysis.com

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Carrier #

☐	Dry Weight Basis Required
☐	TRRP Report Required
☐	Check If Special Reporting Limits Are Needed

Cheryl

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Analytical and Quality Control Report

Shanna Smith
Talon LPE-Amarillo
921 North Bivins
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Report Date: March 26, 2008

Work Order: 8032421



Project Location: Lea County, NM
Project Name: C.S. Caylor
Project Number: PLAINS044 SPL
SRS #: SRS 2002-10250

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
154496	MW-18 5'	soil	2008-03-18	11:53	2008-03-24
154497	MW-18 40'	soil	2008-03-18	12:18	2008-03-24
154498	MW-18 75'	soil	2008-03-18	14:33	2008-03-24

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 154496 - MW-18 5'

Analysis: BTEX, Total BTEX
QC Batch: 46818
Prep Batch: 40266

Analytical Method: S 8021B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: S 5035
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100
Total BTEX		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.12	mg/Kg	1	1.00	112	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.15	mg/Kg	1	1.00	115	66.7 - 153.3

Sample: 154496 - MW-18 5'

Analysis: TPH DRO
QC Batch: 46817
Prep Batch: 40273

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: N/A
Analyzed By: LD
Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		72.4	mg/Kg	1	100	72	10 - 250.4

Sample: 154496 - MW-18 5'

Analysis: TPH GRO
QC Batch: 46823
Prep Batch: 40266

Analytical Method: S 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: S 5035
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.992	mg/Kg	1	1.00	99	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		0.986	mg/Kg	1	1.00	99	74.9 - 140.5

Sample: 154497 - MW-18 40'

Analysis: BTEX, Total BTEX
QC Batch: 46818
Prep Batch: 40266

Analytical Method: S 8021B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: S 5035
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100
Total BTEX		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	¹	1.11	mg/Kg	1	1.00	111	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.14	mg/Kg	1	1.00	114	66.7 - 153.3

Sample: 154497 - MW-18 40'

Analysis: TPH DRO
QC Batch: 46817
Prep Batch: 40273

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: N/A
Analyzed By: LD
Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		96.9	mg/Kg	1	100	97	10 - 250.4

Sample: 154497 - MW-18 40'

Analysis: TPH GRO
QC Batch: 46823
Prep Batch: 40266

Analytical Method: S 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

Prep Method: S 5035
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.00	mg/Kg	1	1.00	100	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		0.988	mg/Kg	1	1.00	99	74.9 - 140.5

¹High surrogate recovery. Sample non-detect, result bias high.

Sample: 154498 - MW-18 75'

Analysis: BTEX, Total BTEX
 QC Batch: 46818
 Prep Batch: 40266

Analytical Method: S 8021B
 Date Analyzed: 2008-03-25
 Sample Preparation: 2008-03-25

Prep Method: S 5035
 Analyzed By: DC
 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100
Total BTEX		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	²	1.12	mg/Kg	1	1.00	112	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.15	mg/Kg	1	1.00	115	66.7 - 153.3

Sample: 154498 - MW-18 75'

Analysis: TPH DRO
 QC Batch: 46817
 Prep Batch: 40273

Analytical Method: Mod. 8015B
 Date Analyzed: 2008-03-25
 Sample Preparation: 2008-03-25

Prep Method: N/A
 Analyzed By: LD
 Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		79.1	mg/Kg	1	100	79	10 - 250.4

Sample: 154498 - MW-18 75'

Analysis: TPH GRO
 QC Batch: 46823
 Prep Batch: 40266

Analytical Method: S 8015B
 Date Analyzed: 2008-03-25
 Sample Preparation: 2008-03-25

Prep Method: S 5035
 Analyzed By: DC
 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.973	mg/Kg	1	1.00	97	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		0.982	mg/Kg	1	1.00	98	74.9 - 140.5

²High surrogate recovery. Sample non-detect, result bias high.

Method Blank (1) QC Batch: 46817

QC Batch: 46817
Prep Batch: 40273

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: LD
Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		<15.8	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		93.9	mg/Kg	1	100	94	30.9 - 146.4

Method Blank (1) QC Batch: 46818

QC Batch: 46818
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.0110	mg/Kg	0.01
Toluene		<0.0109	mg/Kg	0.01
Ethylbenzene		<0.0109	mg/Kg	0.01
Xylene		<0.0331	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	1	1.00	113	82.3 - 121.6
4-Bromofluorobenzene (4-BFB)		1.09	mg/Kg	1	1.00	109	72 - 123

Method Blank (1) QC Batch: 46823

QC Batch: 46823
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
GRO		0.685	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.987	mg/Kg	1	1.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.927	mg/Kg	1	1.00	93	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 46817
Prep Batch: 40273

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: LD
Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	297	mg/Kg	1	250	<15.8	119	27.8 - 152.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	300	mg/Kg	1	250	<15.8	120	27.8 - 152.1	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	122	120	mg/Kg	1	100	122	120	38 - 130.4

Laboratory Control Spike (LCS-1)

QC Batch: 46818
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.08	mg/Kg	1	1.00	<0.0110	108	72.7 - 129.8
Toluene	1.09	mg/Kg	1	1.00	<0.0109	109	71.6 - 129.6
Ethylbenzene	1.10	mg/Kg	1	1.00	<0.0109	110	70.8 - 129.7
Xylene	3.37	mg/Kg	1	3.00	<0.0331	112	70.9 - 129.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.978	mg/Kg	1	1.00	<0.0110	98	72.7 - 129.8	10	20
Toluene	0.983	mg/Kg	1	1.00	<0.0109	98	71.6 - 129.6	10	20
Ethylbenzene	0.998	mg/Kg	1	1.00	<0.0109	100	70.8 - 129.7	10	20
Xylene	3.07	mg/Kg	1	3.00	<0.0331	102	70.9 - 129.4	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.14	1.14	mg/Kg	1	1.00	114	114	82.9 - 122.8
4-Bromofluorobenzene (4-BFB)	1.15	1.16	mg/Kg	1	1.00	115	116	73.8 - 122.4

Laboratory Control Spike (LCS-1)

QC Batch: 46823
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.70	mg/Kg	1	10.0	0.685	80	69.6 - 97.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.70	mg/Kg	1	10.0	0.685	90	69.6 - 97.3	11	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.07	1.05	mg/Kg	1	1.00	107	105	70 - 130
4-Bromofluorobenzene (4-BFB)	1.03	1.03	mg/Kg	1	1.00	103	103	70 - 130

Matrix Spike (MS-1) Spiked Sample: 154490

QC Batch: 46817
Prep Batch: 40273

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: LD
Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	370	mg/Kg	1	250	<15.8	148	18 - 179.5

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	³ 298	mg/Kg	1	250	<15.8	119	18 - 179.5	22	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	128	128	mg/Kg	1	100	128	128	34.1 - 158

Matrix Spike (MS-1) Spiked Sample: 154498

QC Batch: 46818
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	⁴ 2.20	mg/Kg	1	1.00	<0.0110	220	58.6 - 165.2
Toluene	⁵ 2.26	mg/Kg	1	1.00	<0.0109	226	64.2 - 153.8
Ethylbenzene	⁶ 2.33	mg/Kg	1	1.00	<0.0109	233	61.6 - 159.4
Xylene	⁷ 6.84	mg/Kg	1	3.00	<0.0331	228	64.4 - 155.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	⁸ 1.62	mg/Kg	1	1.00	<0.0110	162	58.6 - 165.2	30	20

continued ...

³MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

⁴Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

⁵Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

⁶Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

⁷Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

⁸MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Toluene	⁹	1.65	mg/Kg	1	1.00	<0.0109	165	64.2 - 153.8	31	20
Ethylbenzene	¹⁰	1.66	mg/Kg	1	1.00	<0.0109	166	61.6 - 159.4	34	20
Xylene	¹¹	5.03	mg/Kg	1	3.00	<0.0331	168	64.4 - 155.3	30	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.12	1.13	mg/Kg	1	1	112	113	76.5 - 127.9
4-Bromofluorobenzene (4-BFB)	1.16	1.17	mg/Kg	1	1	116	117	72 - 127.8

Matrix Spike (MS-1) Spiked Sample: 154498

QC Batch: 46823
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	¹²	17.3	mg/Kg	1	10.0	<0.171	173	22.3 - 134.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	¹³	23.0	mg/Kg	1	10.0	<0.171	230	22.3 - 134.6	28	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.975	0.978	mg/Kg	1	1	98	98	68.4 - 113.1
4-Bromofluorobenzene (4-BFB)	1.05	1.12	mg/Kg	1	1	105	112	66.7 - 134.3

Standard (CCV-1)

QC Batch: 46817

Date Analyzed: 2008-03-25

Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	266	106	85 - 115	2008-03-25

Standard (CCV-2)

QC Batch: 46817

Date Analyzed: 2008-03-25

Analyzed By: LD

⁹Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹⁰Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹¹Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹²Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹³Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	257	103	85 - 115	2008-03-25

Standard (ICV-1)

QC Batch: 46818

Date Analyzed: 2008-03-25

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.109	109	85 - 115	2008-03-25
Toluene		mg/Kg	0.100	0.111	111	85 - 115	2008-03-25
Ethylbenzene		mg/Kg	0.100	0.114	114	85 - 115	2008-03-25
Xylene		mg/Kg	0.300	0.346	115	85 - 115	2008-03-25

Standard (CCV-1)

QC Batch: 46818

Date Analyzed: 2008-03-25

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.110	110	85 - 115	2008-03-25
Toluene		mg/Kg	0.100	0.110	110	85 - 115	2008-03-25
Ethylbenzene		mg/Kg	0.100	0.112	112	85 - 115	2008-03-25
Xylene		mg/Kg	0.300	0.343	114	85 - 115	2008-03-25

Standard (ICV-1)

QC Batch: 46823

Date Analyzed: 2008-03-25

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.978	98	85 - 115	2008-03-25

Standard (CCV-1)

QC Batch: 46823

Date Analyzed: 2008-03-25

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.05	105	85 - 115	2008-03-25



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Analytical and Quality Control Report

Shanna Smith
Talon LPE-Amarillo
921 North Bivins
Amarillo, TX, 79107

Report Date: April 17, 2008

Work Order: 8032710



Project Location: Lea County, NM
Project Name: C.S. Caylor
Project Number: PLAINS044 SPL
SRS #: SRS 2002-10250

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
154837	MW-18	water	2008-03-25	14:50	2008-03-25

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 154837 - MW-18

Analysis: Semivolatiles
QC Batch: 47137
Prep Batch: 40542

Analytical Method: S 8270C
Date Analyzed: 2008-04-04
Sample Preparation: 2008-04-01

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.00500	mg/L	1	0.00500
N-Nitrosodimethylamine		<0.00500	mg/L	1	0.00500
2-Picoline		<0.00500	mg/L	1	0.00500
Methyl methanesulfonate		<0.00500	mg/L	1	0.00500
Ethyl methanesulfonate		<0.00500	mg/L	1	0.00500
Phenol		<0.00500	mg/L	1	0.00500
Aniline		<0.00500	mg/L	1	0.00500
bis(2-chloroethyl)ether		<0.00500	mg/L	1	0.00500
2-Chlorophenol		<0.00500	mg/L	1	0.00500
1,3-Dichlorobenzene (meta)		<0.00500	mg/L	1	0.00500
1,4-Dichlorobenzene (para)		<0.00500	mg/L	1	0.00500
Benzyl alcohol		<0.00500	mg/L	1	0.00500
1,2-Dichlorobenzene (ortho)		<0.00500	mg/L	1	0.00500
2-Methylphenol		<0.00500	mg/L	1	0.00500
bis(2-chloroisopropyl)ether		<0.00500	mg/L	1	0.00500
4-Methylphenol / 3-Methylphenol		<0.00500	mg/L	1	0.00500
N-Nitrosodi-n-propylamine		<0.00500	mg/L	1	0.00500
Hexachloroethane		<0.00500	mg/L	1	0.00500
Acetophenone		<0.00500	mg/L	1	0.00500
Nitrobenzene		<0.00500	mg/L	1	0.00500
N-Nitrosopiperidine		<0.00500	mg/L	1	0.00500
Isophorone		<0.00500	mg/L	1	0.00500
2-Nitrophenol		<0.00500	mg/L	1	0.00500
2,4-Dimethylphenol		<0.00500	mg/L	1	0.00500
bis(2-chloroethoxy)methane		<0.00500	mg/L	1	0.00500
2,4-Dichlorophenol		<0.00500	mg/L	1	0.00500
1,2,4-Trichlorobenzene		<0.00500	mg/L	1	0.00500
Benzoic acid		<0.00500	mg/L	1	0.00500
Naphthalene		<0.00500	mg/L	1	0.00500
a,a-Dimethylphenethylamine		<0.00500	mg/L	1	0.00500
4-Chloroaniline		<0.00500	mg/L	1	0.00500
2,6-Dichlorophenol		<0.0100	mg/L	1	0.0100
Hexachlorobutadiene		<0.00500	mg/L	1	0.00500
N-Nitroso-di-n-butylamine		<0.00500	mg/L	1	0.00500
4-Chloro-3-methylphenol		<0.00500	mg/L	1	0.00500
2-Methylnaphthalene		<0.00500	mg/L	1	0.00500
1-Methylnaphthalene		<0.00500	mg/L	1	0.00500
1,2,4,5-Tetrachlorobenzene		<0.00500	mg/L	1	0.00500
Hexachlorocyclopentadiene		<0.00500	mg/L	1	0.00500
2,4,6-Trichlorophenol		<0.0100	mg/L	1	0.0100
2,4,5-Trichlorophenol		<0.00500	mg/L	1	0.00500
2-Chloronaphthalene		<0.00500	mg/L	1	0.00500
1-Chloronaphthalene		<0.00500	mg/L	1	0.00500
2-Nitroaniline		<0.00500	mg/L	1	0.00500

continued ...

sample 154837 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dimethylphthalate		<0.00500	mg/L	1	0.00500
Acenaphthylene		<0.00500	mg/L	1	0.00500
2,6-Dinitrotoluene		<0.00500	mg/L	1	0.00500
3-Nitroaniline		<0.00500	mg/L	1	0.00500
Acenaphthene		<0.00500	mg/L	1	0.00500
2,4-Dinitrophenol		<0.00500	mg/L	1	0.00500
Dibenzofuran		<0.00500	mg/L	1	0.00500
Pentachlorobenzene		<0.00500	mg/L	1	0.00500
4-Nitrophenol		<0.0250	mg/L	1	0.0250
2,4-Dinitrotoluene		<0.00500	mg/L	1	0.00500
1-Naphthylamine		<0.00500	mg/L	1	0.00500
2,3,4,6-Tetrachlorophenol		<0.0100	mg/L	1	0.0100
2-Naphthylamine		<0.00500	mg/L	1	0.00500
Fluorene		<0.00500	mg/L	1	0.00500
4-Chlorophenyl-phenylether		<0.00500	mg/L	1	0.00500
Diethylphthalate		<0.00500	mg/L	1	0.00500
4-Nitroaniline		<0.00500	mg/L	1	0.00500
Diphenylhydrazine		<0.00500	mg/L	1	0.00500
4,6-Dinitro-2-methylphenol		<0.00500	mg/L	1	0.00500
Diphenylamine		<0.00500	mg/L	1	0.00500
4-Bromophenyl-phenylether		<0.00500	mg/L	1	0.00500
Phenacetin		<0.00500	mg/L	1	0.00500
Hexachlorobenzene		<0.00500	mg/L	1	0.00500
4-Aminobiphenyl		<0.00500	mg/L	1	0.00500
Pentachlorophenol		<0.0100	mg/L	1	0.0100
Anthracene		<0.00500	mg/L	1	0.00500
Pentachloronitrobenzene		<0.00500	mg/L	1	0.00500
Pronamide		<0.00500	mg/L	1	0.00500
Phenanthrene		<0.00500	mg/L	1	0.00500
Di-n-butylphthalate		<0.00500	mg/L	1	0.00500
Fluoranthene		<0.00500	mg/L	1	0.00500
Benzidine		<0.0250	mg/L	1	0.0250
Pyrene		<0.00500	mg/L	1	0.00500
p-Dimethylaminoazobenzene		<0.00500	mg/L	1	0.00500
Butylbenzylphthalate		<0.00500	mg/L	1	0.00500
Benzo(a)anthracene		<0.00500	mg/L	1	0.00500
3,3-Dichlorobenzidine		<0.00500	mg/L	1	0.00500
Chrysene		<0.00500	mg/L	1	0.00500
bis(2-ethylhexyl)phthalate		<0.00500	mg/L	1	0.00500
Di-n-octylphthalate		<0.00500	mg/L	1	0.00500
Benzo(b)fluoranthene		<0.00500	mg/L	1	0.00500
Benzo(k)fluoranthene		<0.00500	mg/L	1	0.00500
7,12-Dimethylbenz(a)anthracene		<0.00500	mg/L	1	0.00500
Benzo(a)pyrene		<0.00500	mg/L	1	0.00500
3-Methylcholanthrene		<0.00500	mg/L	1	0.00500
Dibenzo(a,j)acridine		<0.00500	mg/L	1	0.00500
Indeno(1,2,3-cd)pyrene		<0.00500	mg/L	1	0.00500
Dibenzo(a,h)anthracene		<0.00500	mg/L	1	0.00500
Benzo(g,h,i)perylene		<0.00500	mg/L	1	0.00500

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.0131	mg/L	1	0.0800	16	10 - 84.7
Phenol-d5		0.00910	mg/L	1	0.0800	11	10 - 54.9
Nitrobenzene-d5		0.0475	mg/L	1	0.0800	59	10 - 202
2-Fluorobiphenyl		0.0601	mg/L	1	0.0800	75	10 - 199
2,4,6-Tribromophenol		0.0628	mg/L	1	0.0800	78	10 - 141
Terphenyl-d14		0.0692	mg/L	1	0.0800	86	10 - 160

Sample: 154837 - MW-18

Analysis: Volatiles
 QC Batch: 47115
 Prep Batch: 40517

Analytical Method: S 8260B
 Date Analyzed: 2008-04-03
 Sample Preparation: 2008-04-03

Prep Method: S 5030B
 Analyzed By: KB
 Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<1.00	µg/L	1	1.00
Dichlorodifluoromethane		<1.00	µg/L	1	1.00
Chloromethane (methyl chloride)		<1.00	µg/L	1	1.00
Vinyl Chloride		<1.00	µg/L	1	1.00
Bromomethane (methyl bromide)		<5.00	µg/L	1	5.00
Chloroethane		<1.00	µg/L	1	1.00
Trichlorofluoromethane		<1.00	µg/L	1	1.00
Acetone		<10.0	µg/L	1	10.0
Iodomethane (methyl iodide)		<5.00	µg/L	1	5.00
Carbon Disulfide		<1.00	µg/L	1	1.00
Acrylonitrile		<1.00	µg/L	1	1.00
2-Butanone (MEK)		<5.00	µg/L	1	5.00
4-Methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5.00
2-Hexanone		<5.00	µg/L	1	5.00
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10.0
1,1-Dichloroethene		<1.00	µg/L	1	1.00
Methylene chloride		<5.00	µg/L	1	5.00
MTBE		<1.00	µg/L	1	1.00
trans-1,2-Dichloroethene		<1.00	µg/L	1	1.00
1,1-Dichloroethane		<1.00	µg/L	1	1.00
cis-1,2-Dichloroethene		<1.00	µg/L	1	1.00
2,2-Dichloropropane		<1.00	µg/L	1	1.00
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1.00
Chloroform		<1.00	µg/L	1	1.00
1,1,1-Trichloroethane		<1.00	µg/L	1	1.00
1,1-Dichloropropene		<1.00	µg/L	1	1.00
Benzene		<1.00	µg/L	1	1.00
Carbon Tetrachloride		<1.00	µg/L	1	1.00
1,2-Dichloropropane		<1.00	µg/L	1	1.00
Trichloroethene (TCE)		<1.00	µg/L	1	1.00
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1.00
Bromodichloromethane		<1.00	µg/L	1	1.00
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5.00
cis-1,3-Dichloropropene		<1.00	µg/L	1	1.00
trans-1,3-Dichloropropene		<1.00	µg/L	1	1.00

continued ...

sample 154837 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<1.00	µg/L	1	1.00
1,1,2-Trichloroethane		<1.00	µg/L	1	1.00
1,3-Dichloropropane		<1.00	µg/L	1	1.00
Dibromochloromethane		<1.00	µg/L	1	1.00
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1.00
Tetrachloroethene (PCE)		<1.00	µg/L	1	1.00
Chlorobenzene		<1.00	µg/L	1	1.00
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
Bromoform		<1.00	µg/L	1	1.00
Styrene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1.00
2-Chlorotoluene		<1.00	µg/L	1	1.00
1,2,3-Trichloropropane		<1.00	µg/L	1	1.00
Isopropylbenzene		2.10	µg/L	1	1.00
Bromobenzene		<1.00	µg/L	1	1.00
n-Propylbenzene		<1.00	µg/L	1	1.00
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1.00
tert-Butylbenzene		<1.00	µg/L	1	1.00
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1.00
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1.00
sec-Butylbenzene		<1.00	µg/L	1	1.00
1,3-Dichlorobenzene (meta)		<1.00	µg/L	1	1.00
p-Isopropyltoluene		<1.00	µg/L	1	1.00
4-Chlorotoluene		<1.00	µg/L	1	1.00
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1.00
n-Butylbenzene		<1.00	µg/L	1	1.00
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5.00
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5.00
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5.00
Naphthalene		<5.00	µg/L	1	5.00
Hexachlorobutadiene		<5.00	µg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.7	µg/L	1	50.0	97	89.8 - 111
Toluene-d8		49.6	µg/L	1	50.0	99	93.2 - 108
4-Bromofluorobenzene (4-BFB)		47.8	µg/L	1	50.0	96	88.4 - 103

Method Blank (1) QC Batch: 47115

QC Batch: 47115
 Prep Batch: 40517

Date Analyzed: 2008-04-03
 QC Preparation: 2008-04-03

Analyzed By: KB
 Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
Bromochloromethane		<0.197	µg/L	1
Dichlorodifluoromethane		<0.672	µg/L	1
Chloromethane (methyl chloride)		<0.542	µg/L	1
Vinyl Chloride		<0.516	µg/L	1
Bromomethane (methyl bromide)		<0.446	µg/L	5
Chloroethane		<0.656	µg/L	1
Trichlorofluoromethane		<0.538	µg/L	1
Acetone		<1.10	µg/L	10
Iodomethane (methyl iodide)		<0.214	µg/L	5
Carbon Disulfide		<0.294	µg/L	1
Acrylonitrile		<0.442	µg/L	1
2-Butanone (MEK)		<0.420	µg/L	5
4-Methyl-2-pentanone (MIBK)		<0.407	µg/L	5
2-Hexanone		<0.486	µg/L	5
trans 1,4-Dichloro-2-butene		<0.463	µg/L	10
1,1-Dichloroethene		<0.237	µg/L	1
Methylene chloride		<0.312	µg/L	5
MTBE		<0.318	µg/L	1
trans-1,2-Dichloroethene		<0.217	µg/L	1
1,1-Dichloroethane		<0.202	µg/L	1
cis-1,2-Dichloroethene		<0.309	µg/L	1
2,2-Dichloropropane		<0.318	µg/L	1
1,2-Dichloroethane (EDC)		<0.292	µg/L	1
Chloroform		<0.234	µg/L	1
1,1,1-Trichloroethane		<0.257	µg/L	1
1,1-Dichloropropene		<0.286	µg/L	1
Benzene		<0.319	µg/L	1
Carbon Tetrachloride		<0.223	µg/L	1
1,2-Dichloropropane		<0.266	µg/L	1
Trichloroethene (TCE)		<0.235	µg/L	1
Dibromomethane (methylene bromide)		<0.341	µg/L	1
Bromodichloromethane		<0.291	µg/L	1
2-Chloroethyl vinyl ether		<0.293	µg/L	5
cis-1,3-Dichloropropene		<0.207	µg/L	1
trans-1,3-Dichloropropene		<0.293	µg/L	1
Toluene		<0.268	µg/L	1
1,1,2-Trichloroethane		<0.329	µg/L	1
1,3-Dichloropropane		<0.316	µg/L	1
Dibromochloromethane		<0.290	µg/L	1
1,2-Dibromoethane (EDB)		<0.229	µg/L	1
Tetrachloroethene (PCE)		<0.233	µg/L	1
Chlorobenzene		<0.276	µg/L	1
1,1,1,2-Tetrachloroethane		<0.226	µg/L	1
Ethylbenzene		<0.245	µg/L	1
m,p-Xylene		<0.517	µg/L	1
Bromoform		<0.175	µg/L	1
Styrene		<0.239	µg/L	1
o-Xylene		<0.247	µg/L	1
1,1,2,2-Tetrachloroethane		<0.223	µg/L	1
2-Chlorotoluene		<0.235	µg/L	1
1,2,3-Trichloropropane		<0.230	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Isopropylbenzene		<0.226	µg/L	1
Bromobenzene		<0.245	µg/L	1
n-Propylbenzene		<0.234	µg/L	1
1,3,5-Trimethylbenzene		<0.261	µg/L	1
tert-Butylbenzene		<0.281	µg/L	1
1,2,4-Trimethylbenzene		<0.285	µg/L	1
1,4-Dichlorobenzene (para)		<0.307	µg/L	1
sec-Butylbenzene		<0.312	µg/L	1
1,3-Dichlorobenzene (meta)		<0.284	µg/L	1
p-Isopropyltoluene		<0.244	µg/L	1
4-Chlorotoluene		<0.257	µg/L	1
1,2-Dichlorobenzene (ortho)		<0.294	µg/L	1
n-Butylbenzene		<0.339	µg/L	1
1,2-Dibromo-3-chloropropane		<0.780	µg/L	5
1,2,3-Trichlorobenzene		<0.736	µg/L	5
1,2,4-Trichlorobenzene		<0.432	µg/L	5
Naphthalene		<0.475	µg/L	5
Hexachlorobutadiene		<1.02	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.2	µg/L	1	50.0	98	89.8 - 111
Toluene-d8		50.5	µg/L	1	50.0	101	93.2 - 108
4-Bromofluorobenzene (4-BFB)		48.9	µg/L	1	50.0	98	88.4 - 103

Method Blank (1) QC Batch: 47137

QC Batch: 47137
Prep Batch: 40542

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-01

Analyzed By: DS
Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
Pyridine		<0.00188	mg/L	0.005
N-Nitrosodimethylamine		<0.00180	mg/L	0.005
2-Picoline		<0.00181	mg/L	0.005
Methyl methanesulfonate		<0.00220	mg/L	0.005
Ethyl methanesulfonate		<0.00260	mg/L	0.005
Phenol		<0.00231	mg/L	0.005
Aniline		<0.00200	mg/L	0.005
bis(2-chloroethyl)ether		<0.00180	mg/L	0.005
2-Chlorophenol		<0.00190	mg/L	0.005
1,3-Dichlorobenzene (meta)		<0.00181	mg/L	0.005
1,4-Dichlorobenzene (para)		<0.00179	mg/L	0.005
Benzyl alcohol		<0.00244	mg/L	0.005
1,2-Dichlorobenzene (ortho)		<0.00173	mg/L	0.005
2-Methylphenol		<0.00230	mg/L	0.005
bis(2-chloroisopropyl)ether		<0.00209	mg/L	0.005
4-Methylphenol / 3-Methylphenol		<0.00229	mg/L	0.005
N-Nitrosodi-n-propylamine		<0.00236	mg/L	0.005

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Hexachloroethane		<0.00189	mg/L	0.005
Acetophenone		<0.00211	mg/L	0.005
Nitrobenzene		<0.00192	mg/L	0.005
N-Nitrosopiperidine		<0.00208	mg/L	0.005
Isophorone		<0.00206	mg/L	0.005
2-Nitrophenol		<0.00189	mg/L	0.005
2,4-Dimethylphenol		<0.00209	mg/L	0.005
bis(2-chloroethoxy)methane		<0.00216	mg/L	0.005
2,4-Dichlorophenol		<0.00192	mg/L	0.005
1,2,4-Trichlorobenzene		<0.00176	mg/L	0.005
Benzoic acid		<0.00765	mg/L	0.005
Naphthalene		<0.00187	mg/L	0.005
a,a-Dimethylphenethylamine		<0.00146	mg/L	0.005
4-Chloroaniline		<0.00210	mg/L	0.005
2,6-Dichlorophenol		<0.00199	mg/L	0.01
Hexachlorobutadiene		<0.00186	mg/L	0.005
N-Nitroso-di-n-butylamine		<0.00214	mg/L	0.005
4-Chloro-3-methylphenol		<0.00182	mg/L	0.005
2-Methylnaphthalene		<0.00206	mg/L	0.005
1-Methylnaphthalene		<0.00205	mg/L	0.005
1,2,4,5-Tetrachlorobenzene		<0.00211	mg/L	0.005
Hexachlorocyclopentadiene		<0.00175	mg/L	0.005
2,4,6-Trichlorophenol		<0.00200	mg/L	0.01
2,4,5-Trichlorophenol		<0.00176	mg/L	0.005
2-Chloronaphthalene		<0.00200	mg/L	0.005
1-Chloronaphthalene		<0.00259	mg/L	0.005
2-Nitroaniline		<0.00167	mg/L	0.005
Dimethylphthalate		<0.00160	mg/L	0.005
Acenaphthylene		<0.00201	mg/L	0.005
2,6-Dinitrotoluene		<0.00158	mg/L	0.005
3-Nitroaniline		<0.00166	mg/L	0.005
Acenaphthene		<0.00191	mg/L	0.005
2,4-Dinitrophenol		<0.000621	mg/L	0.005
Dibenzofuran		<0.00185	mg/L	0.005
Pentachlorobenzene		<0.00189	mg/L	0.005
4-Nitrophenol		<0.00156	mg/L	0.025
2,4-Dinitrotoluene		<0.00187	mg/L	0.005
1-Naphthylamine		<0.00149	mg/L	0.005
2,3,4,6-Tetrachlorophenol		<0.00162	mg/L	0.01
2-Naphthylamine		<0.00157	mg/L	0.005
Fluorene		<0.00182	mg/L	0.005
4-Chlorophenyl-phenylether		<0.00188	mg/L	0.005
Diethylphthalate		<0.00182	mg/L	0.005
4-Nitroaniline		<0.00182	mg/L	0.005
Diphenylhydrazine		<0.00184	mg/L	0.005
4,6-Dinitro-2-methylphenol		<0.00109	mg/L	0.005
Diphenylamine		<0.00193	mg/L	0.005
4-Bromophenyl-phenylether		<0.00179	mg/L	0.005
Phenacetin		<0.00190	mg/L	0.005
Hexachlorobenzene		<0.00193	mg/L	0.005

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
4-Aminobiphenyl		<0.00185	mg/L	0.005
Pentachlorophenol		<0.00130	mg/L	0.01
Anthracene		<0.00190	mg/L	0.005
Pentachloronitrobenzene		<0.00187	mg/L	0.005
Pronamide		<0.00182	mg/L	0.005
Phenanthrene		<0.00186	mg/L	0.005
Di-n-butylphthalate		<0.00180	mg/L	0.005
Fluoranthene		<0.00184	mg/L	0.005
Benzidine		<0.00156	mg/L	0.025
Pyrene		<0.00165	mg/L	0.005
p-Dimethylaminoazobenzene		<0.00145	mg/L	0.005
Butylbenzylphthalate		<0.00165	mg/L	0.005
Benzo(a)anthracene		<0.00157	mg/L	0.005
3,3-Dichlorobenzidine		<0.00162	mg/L	0.005
Chrysene		<0.00162	mg/L	0.005
bis(2-ethylhexyl)phthalate		<0.00171	mg/L	0.005
Di-n-octylphthalate		<0.00136	mg/L	0.005
Benzo(b)fluoranthene		<0.00160	mg/L	0.005
Benzo(k)fluoranthene		<0.00179	mg/L	0.005
7,12-Dimethylbenz(a)anthracene		<0.00152	mg/L	0.005
Benzo(a)pyrene		<0.00161	mg/L	0.005
3-Methylcholanthrene		<0.00147	mg/L	0.005
Dibenzo(a,j)acridine		<0.00154	mg/L	0.005
Indeno(1,2,3-cd)pyrene		<0.00160	mg/L	0.005
Dibenzo(a,h)anthracene		<0.00180	mg/L	0.005
Benzo(g,h,i)perylene		<0.00166	mg/L	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.0187	mg/L	1	0.0800	23	10 - 66.9
Phenol-d5		0.0125	mg/L	1	0.0800	16	10 - 50.7
Nitrobenzene-d5		0.0529	mg/L	1	0.0800	66	10 - 124
2-Fluorobiphenyl		0.0548	mg/L	1	0.0800	68	10 - 127
2,4,6-Tribromophenol		0.0445	mg/L	1	0.0800	56	10 - 138
Terphenyl-d14		0.0688	mg/L	1	0.0800	86	10 - 143

Laboratory Control Spike (LCS-1)

QC Batch: 47115
Prep Batch: 40517

Date Analyzed: 2008-04-03
QC Preparation: 2008-04-03

Analyzed By: KB
Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	51.1	µg/L	1	50.0	<0.197	102	91.8 - 112
Dichlorodifluoromethane	52.4	µg/L	1	50.0	<0.672	105	40.7 - 133
Chloromethane (methyl chloride)	49.3	µg/L	1	50.0	<0.542	99	61.4 - 130
Vinyl Chloride	52.5	µg/L	1	50.0	<0.516	105	65.4 - 127
Bromomethane (methyl bromide)	51.5	µg/L	1	50.0	<0.446	103	61 - 140

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloroethane	51.7	µg/L	1	50.0	<0.656	103	72.1 - 121
Trichlorofluoromethane	53.2	µg/L	1	50.0	<0.538	106	77.1 - 116
Acetone	56.5	µg/L	1	50.0	<1.10	113	10 - 169
Iodomethane (methyl iodide)	51.9	µg/L	1	50.0	<0.214	104	84.4 - 118
Carbon Disulfide	52.3	µg/L	1	50.0	<0.294	105	84.7 - 116
Acrylonitrile	48.5	µg/L	1	50.0	<0.442	97	88.5 - 119
2-Butanone (MEK)	56.9	µg/L	1	50.0	<0.420	114	38.2 - 134
4-Methyl-2-pentanone (MIBK)	52.7	µg/L	1	50.0	<0.407	105	90.4 - 114
2-Hexanone	59.9	µg/L	1	50.0	<0.486	120	47 - 145
trans 1,4-Dichloro-2-butene	51.8	µg/L	1	50.0	<0.463	104	75.5 - 133
1,1-Dichloroethene	51.9	µg/L	1	50.0	<0.237	104	86.8 - 110
Methylene chloride	49.5	µg/L	1	50.0	<0.312	99	84.4 - 114
MTBE	49.1	µg/L	1	50.0	<0.318	98	88.3 - 115
trans-1,2-Dichloroethene	50.3	µg/L	1	50.0	<0.217	101	89.1 - 109
1,1-Dichloroethane	51.2	µg/L	1	50.0	<0.202	102	85 - 114
cis-1,2-Dichloroethene	50.5	µg/L	1	50.0	<0.309	101	91.2 - 109
2,2-Dichloropropane	44.1	µg/L	1	50.0	<0.318	88	63.4 - 132
1,2-Dichloroethane (EDC)	49.9	µg/L	1	50.0	<0.292	100	82.2 - 113
Chloroform	50.0	µg/L	1	50.0	<0.234	100	86.5 - 111
1,1,1-Trichloroethane	49.1	µg/L	1	50.0	<0.257	98	89.7 - 109
1,1-Dichloropropene	49.5	µg/L	1	50.0	<0.286	99	89.7 - 110
Benzene	49.7	µg/L	1	50.0	<0.319	99	87.6 - 107
Carbon Tetrachloride	49.1	µg/L	1	50.0	<0.223	98	92.1 - 111
1,2-Dichloropropane	50.5	µg/L	1	50.0	<0.266	101	91.8 - 111
Trichloroethene (TCE)	51.6	µg/L	1	50.0	<0.235	103	85.4 - 113
Dibromomethane (methylene bromide)	50.2	µg/L	1	50.0	<0.341	100	93.2 - 108
Bromodichloromethane	50.8	µg/L	1	50.0	<0.291	102	93.6 - 113
2-Chloroethyl vinyl ether	51.9	µg/L	1	50.0	<0.293	104	91.8 - 111
cis-1,3-Dichloropropene	51.0	µg/L	1	50.0	<0.207	102	94.6 - 117
trans-1,3-Dichloropropene	51.7	µg/L	1	50.0	<0.293	103	90.2 - 119
Toluene	49.9	µg/L	1	50.0	<0.268	100	91.3 - 110
1,1,2-Trichloroethane	50.9	µg/L	1	50.0	<0.329	102	94.3 - 106
1,3-Dichloropropane	50.6	µg/L	1	50.0	<0.316	101	92.2 - 108
Dibromochloromethane	53.2	µg/L	1	50.0	<0.290	106	92.1 - 122
1,2-Dibromoethane (EDB)	52.5	µg/L	1	50.0	<0.229	105	98.2 - 106
Tetrachloroethene (PCE)	57.8	µg/L	1	50.0	<0.233	116	20.2 - 156
Chlorobenzene	51.0	µg/L	1	50.0	<0.276	102	92.9 - 103
1,1,1,2-Tetrachloroethane	50.9	µg/L	1	50.0	<0.226	102	99.3 - 105
Ethylbenzene	49.8	µg/L	1	50.0	<0.245	100	90.5 - 107
m,p-Xylene	99.0	µg/L	1	100	<0.517	99	89.5 - 111
Bromoform	55.2	µg/L	1	50.0	<0.175	110	84.2 - 144
Styrene	49.2	µg/L	1	50.0	<0.239	98	94.3 - 113
o-Xylene	49.9	µg/L	1	50.0	<0.247	100	91.2 - 112
1,1,2,2-Tetrachloroethane	51.2	µg/L	1	50.0	<0.223	102	74.9 - 133
2-Chlorotoluene	48.9	µg/L	1	50.0	<0.235	98	87.4 - 110
1,2,3-Trichloropropane	51.9	µg/L	1	50.0	<0.230	104	86.6 - 114
Isopropylbenzene	50.1	µg/L	1	50.0	<0.226	100	87.6 - 115
Bromobenzene	49.6	µg/L	1	50.0	<0.245	99	91.3 - 105
n-Propylbenzene	49.2	µg/L	1	50.0	<0.234	98	84.4 - 113
1,3,5-Trimethylbenzene	49.3	µg/L	1	50.0	<0.261	99	89.3 - 109

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
tert-Butylbenzene	50.0	µg/L	1	50.0	<0.281	100	93.2 - 106
1,2,4-Trimethylbenzene	49.7	µg/L	1	50.0	<0.285	99	89.6 - 115
1,4-Dichlorobenzene (para)	51.4	µg/L	1	50.0	<0.307	103	88.4 - 106
sec-Butylbenzene	50.1	µg/L	1	50.0	<0.312	100	87.2 - 113
1,3-Dichlorobenzene (meta)	51.4	µg/L	1	50.0	<0.284	103	91.1 - 109
p-Isopropyltoluene	50.8	µg/L	1	50.0	<0.244	102	92.2 - 109
4-Chlorotoluene	49.7	µg/L	1	50.0	<0.257	99	89 - 110
1,2-Dichlorobenzene (ortho)	52.4	µg/L	1	50.0	<0.294	105	91.3 - 110
n-Butylbenzene	52.6	µg/L	1	50.0	<0.339	105	86.8 - 113
1,2-Dibromo-3-chloropropane	49.2	µg/L	1	50.0	<0.780	98	72.3 - 130
1,2,3-Trichlorobenzene	52.8	µg/L	1	50.0	<0.736	106	81.2 - 202
1,2,4-Trichlorobenzene	51.8	µg/L	1	50.0	<0.432	104	65 - 145
Naphthalene	51.9	µg/L	1	50.0	<0.475	104	84.5 - 150
Hexachlorobutadiene	52.1	µg/L	1	50.0	<1.02	104	70.2 - 133

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Bromochloromethane	50.7	µg/L	1	50.0	<0.197	101	91.8 - 112	1	20
Dichlorodifluoromethane	51.0	µg/L	1	50.0	<0.672	102	40.7 - 133	3	20
Chloromethane (methyl chloride)	49.0	µg/L	1	50.0	<0.542	98	61.4 - 130	1	20
Vinyl Chloride	51.0	µg/L	1	50.0	<0.516	102	65.4 - 127	3	20
Bromomethane (methyl bromide)	49.8	µg/L	1	50.0	<0.446	100	61 - 140	3	20
Chloroethane	51.0	µg/L	1	50.0	<0.656	102	72.1 - 121	1	20
Trichlorofluoromethane	51.4	µg/L	1	50.0	<0.538	103	77.1 - 116	3	20
Acetone	55.1	µg/L	1	50.0	<1.10	110	10 - 169	2	20
Iodomethane (methyl iodide)	51.7	µg/L	1	50.0	<0.214	103	84.4 - 118	0	20
Carbon Disulfide	51.9	µg/L	1	50.0	<0.294	104	84.7 - 116	1	20
Acrylonitrile	49.1	µg/L	1	50.0	<0.442	98	88.5 - 119	1	20
2-Butanone (MEK)	54.9	µg/L	1	50.0	<0.420	110	38.2 - 134	4	20
4-Methyl-2-pentanone (MIBK)	52.0	µg/L	1	50.0	<0.407	104	90.4 - 114	1	20
2-Hexanone	59.9	µg/L	1	50.0	<0.486	120	47 - 145	0	20
trans 1,4-Dichloro-2-butene	51.3	µg/L	1	50.0	<0.463	103	75.5 - 133	1	20
1,1-Dichloroethene	51.2	µg/L	1	50.0	<0.237	102	86.8 - 110	1	20
Methylene chloride	49.6	µg/L	1	50.0	<0.312	99	84.4 - 114	0	20
MTBE	49.7	µg/L	1	50.0	<0.318	99	88.3 - 115	1	20
trans-1,2-Dichloroethene	49.8	µg/L	1	50.0	<0.217	100	89.1 - 109	1	20
1,1-Dichloroethane	51.1	µg/L	1	50.0	<0.202	102	85 - 114	0	20
cis-1,2-Dichloroethene	50.4	µg/L	1	50.0	<0.309	101	91.2 - 109	0	20
2,2-Dichloropropane	44.4	µg/L	1	50.0	<0.318	89	63.4 - 132	1	20
1,2-Dichloroethane (EDC)	49.7	µg/L	1	50.0	<0.292	99	82.2 - 113	0	20
Chloroform	50.1	µg/L	1	50.0	<0.234	100	86.5 - 111	0	20
1,1,1-Trichloroethane	49.7	µg/L	1	50.0	<0.257	99	89.7 - 109	1	20
1,1-Dichloropropene	50.7	µg/L	1	50.0	<0.286	101	89.7 - 110	2	20
Benzene	50.6	µg/L	1	50.0	<0.319	101	87.6 - 107	2	20
Carbon Tetrachloride	50.2	µg/L	1	50.0	<0.223	100	92.1 - 111	2	20
1,2-Dichloropropane	51.4	µg/L	1	50.0	<0.266	103	91.8 - 111	2	20
Trichloroethene (TCE)	54.1	µg/L	1	50.0	<0.235	108	85.4 - 113	5	20
Dibromomethane (methylene bromide)	51.0	µg/L	1	50.0	<0.341	102	93.2 - 108	2	20
Bromodichloromethane	51.3	µg/L	1	50.0	<0.291	103	93.6 - 113	1	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
2-Chloroethyl vinyl ether	54.2	µg/L	1	50.0	<0.293	108	91.8 - 111	4	20
cis-1,3-Dichloropropene	51.8	µg/L	1	50.0	<0.207	104	94.6 - 117	2	20
trans-1,3-Dichloropropene	52.6	µg/L	1	50.0	<0.293	105	90.2 - 119	2	20
Toluene	50.5	µg/L	1	50.0	<0.268	101	91.3 - 110	1	20
1,1,2-Trichloroethane	50.8	µg/L	1	50.0	<0.329	102	94.3 - 106	0	20
1,3-Dichloropropane	50.1	µg/L	1	50.0	<0.316	100	92.2 - 108	1	20
Dibromochloromethane	52.7	µg/L	1	50.0	<0.290	105	92.1 - 122	1	20
1,2-Dibromoethane (EDB)	52.1	µg/L	1	50.0	<0.229	104	98.2 - 106	1	20
Tetrachloroethene (PCE)	61.9	µg/L	1	50.0	<0.233	124	20.2 - 156	7	20
Chlorobenzene	50.8	µg/L	1	50.0	<0.276	102	92.9 - 103	0	20
1,1,1,2-Tetrachloroethane	51.0	µg/L	1	50.0	<0.226	102	99.3 - 105	0	20
Ethylbenzene	49.5	µg/L	1	50.0	<0.245	99	90.5 - 107	1	20
m,p-Xylene	99.0	µg/L	1	100	<0.517	99	89.5 - 111	0	20
Bromoform	55.2	µg/L	1	50.0	<0.175	110	84.2 - 144	0	20
Styrene	49.3	µg/L	1	50.0	<0.239	99	94.3 - 113	0	20
o-Xylene	49.8	µg/L	1	50.0	<0.247	100	91.2 - 112	0	20
1,1,2,2-Tetrachloroethane	48.5	µg/L	1	50.0	<0.223	97	74.9 - 133	5	20
2-Chlorotoluene	48.6	µg/L	1	50.0	<0.235	97	87.4 - 110	1	20
1,2,3-Trichloropropane	51.7	µg/L	1	50.0	<0.230	103	86.6 - 114	0	20
Isopropylbenzene	49.4	µg/L	1	50.0	<0.226	99	87.6 - 115	1	20
Bromobenzene	49.1	µg/L	1	50.0	<0.245	98	91.3 - 105	1	20
n-Propylbenzene	48.9	µg/L	1	50.0	<0.234	98	84.4 - 113	1	20
1,3,5-Trimethylbenzene	48.8	µg/L	1	50.0	<0.261	98	89.3 - 109	1	20
tert-Butylbenzene	49.8	µg/L	1	50.0	<0.281	100	93.2 - 106	0	20
1,2,4-Trimethylbenzene	49.4	µg/L	1	50.0	<0.285	99	89.6 - 115	1	20
1,4-Dichlorobenzene (para)	51.1	µg/L	1	50.0	<0.307	102	88.4 - 106	1	20
sec-Butylbenzene	49.8	µg/L	1	50.0	<0.312	100	87.2 - 113	1	20
1,3-Dichlorobenzene (meta)	51.2	µg/L	1	50.0	<0.284	102	91.1 - 109	0	20
p-Isopropyltoluene	50.4	µg/L	1	50.0	<0.244	101	92.2 - 109	1	20
4-Chlorotoluene	49.7	µg/L	1	50.0	<0.257	99	89 - 110	0	20
1,2-Dichlorobenzene (ortho)	52.0	µg/L	1	50.0	<0.294	104	91.3 - 110	1	20
n-Butylbenzene	52.3	µg/L	1	50.0	<0.339	105	86.8 - 113	1	20
1,2-Dibromo-3-chloropropane	49.4	µg/L	1	50.0	<0.780	99	72.3 - 130	0	20
1,2,3-Trichlorobenzene	51.2	µg/L	1	50.0	<0.736	102	81.2 - 202	3	20
1,2,4-Trichlorobenzene	50.3	µg/L	1	50.0	<0.432	101	65 - 145	3	20
Naphthalene	50.6	µg/L	1	50.0	<0.475	101	84.5 - 150	2	20
Hexachlorobutadiene	51.4	µg/L	1	50.0	<1.02	103	70.2 - 133	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	50.0	50.3	µg/L	1	50.0	100	101	89.5 - 107
Toluene-d8	49.6	50.0	µg/L	1	50.0	99	100	92.6 - 102
4-Bromofluorobenzene (4-BFB)	50.0	50.6	µg/L	1	50.0	100	101	95.2 - 103

Laboratory Control Spike (LCS-1)

QC Batch: 47137
Prep Batch: 40542

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-01

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Phenol	0.0177	mg/L	1	0.0800	0	22	10 - 46.1
2-Chlorophenol	0.0528	mg/L	1	0.0800	0	66	10 - 123
1,4-Dichlorobenzene (para)	0.0516	mg/L	1	0.0800	0	64	10 - 118
N-Nitrosodi-n-propylamine	0.0901	mg/L	1	0.0800	0	113	10 - 132
1,2,4-Trichlorobenzene	0.0709	mg/L	1	0.0800	0	89	10 - 130
Naphthalene	0.0596	mg/L	1	0.0800	0	74	20.3 - 121
4-Chloro-3-methylphenol	0.0645	mg/L	1	0.0800	0	81	10 - 140
Acenaphthylene	0.0700	mg/L	1	0.0800	0	88	22.3 - 124
Acenaphthene	0.0653	mg/L	1	0.0800	0	82	18.8 - 134
Dibenzofuran	0.0671	mg/L	1	0.0800	0	84	37.5 - 102
4-Nitrophenol	0.00807	mg/L	1	0.0800	0	10	10 - 135
2,4-Dinitrotoluene	0.0618	mg/L	1	0.0800	0	77	13.6 - 152
Fluorene	0.0602	mg/L	1	0.0800	0	75	29.7 - 114
Pentachlorophenol	0.0529	mg/L	1	0.0800	0	66	10 - 144
Anthracene	0.0720	mg/L	1	0.0800	0	90	48.2 - 118
Phenanthrene	0.0698	mg/L	1	0.0800	0	87	45.5 - 121
Fluoranthene	0.0929	mg/L	1	0.0800	0	116	42.7 - 126
Pyrene	0.0673	mg/L	1	0.0800	0	84	26.8 - 155
Benzo(a)anthracene	0.0666	mg/L	1	0.0800	0	83	60.2 - 97.3
Chrysene	0.0654	mg/L	1	0.0800	0	82	56 - 92.4
Benzo(b)fluoranthene	0.0677	mg/L	1	0.0800	0	85	73.9 - 102
Benzo(k)fluoranthene	0.0722	mg/L	1	0.0800	0	90	45.6 - 143
Benzo(a)pyrene	0.0774	mg/L	1	0.0800	0	97	54.8 - 122
Indeno(1,2,3-cd)pyrene	0.0899	mg/L	1	0.0800	0	112	61.4 - 118
Dibenzo(a,h)anthracene	0.0876	mg/L	1	0.0800	0	110	64.9 - 118
Benzo(g,h,i)perylene	0.0861	mg/L	1	0.0800	0	108	46.8 - 129

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Phenol	0.0183	mg/L	1	0.0800	0	23	10 - 46.1	3	20
2-Chlorophenol	0.0522	mg/L	1	0.0800	0	65	10 - 123	1	20
1,4-Dichlorobenzene (para)	0.0508	mg/L	1	0.0800	0	64	10 - 118	2	20
N-Nitrosodi-n-propylamine	0.0892	mg/L	1	0.0800	0	112	10 - 132	1	20
1,2,4-Trichlorobenzene	0.0714	mg/L	1	0.0800	0	89	10 - 130	1	20
Naphthalene	0.0599	mg/L	1	0.0800	0	75	20.3 - 121	0	20
4-Chloro-3-methylphenol	0.0649	mg/L	1	0.0800	0	81	10 - 140	1	20
Acenaphthylene	0.0710	mg/L	1	0.0800	0	89	22.3 - 124	1	20
Acenaphthene	0.0667	mg/L	1	0.0800	0	83	18.8 - 134	2	20
Dibenzofuran	0.0674	mg/L	1	0.0800	0	84	37.5 - 102	0	20
4-Nitrophenol	0.00827	mg/L	1	0.0800	0	10	10 - 135	2	20
2,4-Dinitrotoluene	0.0623	mg/L	1	0.0800	0	78	13.6 - 152	1	20
Fluorene	0.0602	mg/L	1	0.0800	0	75	29.7 - 114	0	20
Pentachlorophenol	0.0539	mg/L	1	0.0800	0	67	10 - 144	2	20
Anthracene	0.0728	mg/L	1	0.0800	0	91	48.2 - 118	1	20
Phenanthrene	0.0712	mg/L	1	0.0800	0	89	45.5 - 121	2	20
Fluoranthene	0.0955	mg/L	1	0.0800	0	119	42.7 - 126	3	20
Pyrene	0.0671	mg/L	1	0.0800	0	84	26.8 - 155	0	20
Benzo(a)anthracene	0.0665	mg/L	1	0.0800	0	83	60.2 - 97.3	0	20
Chrysene	0.0651	mg/L	1	0.0800	0	81	56 - 92.4	0	20
Benzo(b)fluoranthene	0.0682	mg/L	1	0.0800	0	85	73.9 - 102	1	20

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzo(k)fluoranthene	0.0730	mg/L	1	0.0800	0	91	45.6 - 143	1	20
Benzo(a)pyrene	0.0780	mg/L	1	0.0800	0	98	54.8 - 122	1	20
Indeno(1,2,3-cd)pyrene	0.0919	mg/L	1	0.0800	0	115	61.4 - 118	2	20
Dibenzo(a,h)anthracene	0.0895	mg/L	1	0.0800	0	112	64.9 - 118	2	20
Benzo(g,h,i)perylene	0.0880	mg/L	1	0.0800	0	110	46.8 - 129	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
2-Fluorophenol	0.0248	0.0241	mg/L	1	0.0800	31	30	10 - 109
Phenol-d5	0.0198	0.0196	mg/L	1	0.0800	25	24	10 - 61.5
Nitrobenzene-d5	0.0772	0.0780	mg/L	1	0.0800	96	98	10 - 139
2-Fluorobiphenyl	0.0945	0.0960	mg/L	1	0.0800	118	120	10 - 139
2,4,6-Tribromophenol	0.0865	0.0857	mg/L	1	0.0800	108	107	10 - 161
Terphenyl-d14	0.0777	0.0778	mg/L	1	0.0800	97	97	10 - 144

Matrix Spike (MS-1) Spiked Sample: 155082

QC Batch: 47115
Prep Batch: 40517

Date Analyzed: 2008-04-03
QC Preparation: 2008-04-03

Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	50.0	µg/L	1	50.0	<0.197	100	82.3 - 118
Dichlorodifluoromethane	41.7	µg/L	1	50.0	<0.672	83	24.2 - 131
Chloromethane (methyl chloride)	44.1	µg/L	1	50.0	<0.542	88	69.6 - 118
Vinyl Chloride	43.9	µg/L	1	50.0	<0.516	88	80.8 - 107
Bromomethane (methyl bromide)	45.2	µg/L	1	50.0	<0.446	90	74.8 - 126
Chloroethane	45.5	µg/L	1	50.0	<0.656	91	74.6 - 124
Trichlorofluoromethane	44.7	µg/L	1	50.0	<0.538	89	66.8 - 115
Acetone	¹ 64.5	µg/L	1	50.0	<1.10	129	15 - 80.4
Iodomethane (methyl iodide)	48.1	µg/L	1	50.0	<0.214	96	75.2 - 114
Carbon Disulfide	42.8	µg/L	1	50.0	<0.294	86	69 - 121
Acrylonitrile	48.1	µg/L	1	50.0	<0.442	96	69.6 - 135
2-Butanone (MEK)	² 70.1	µg/L	1	50.0	<0.420	140	28.1 - 108
4-Methyl-2-pentanone (MIBK)	³ 79.1	µg/L	1	50.0	<0.407	158	81.5 - 117
2-Hexanone	⁴ 108	µg/L	1	50.0	<0.486	216	44.6 - 122
trans 1,4-Dichloro-2-butene	50.9	µg/L	1	50.0	<0.463	102	48.3 - 128
1,1-Dichloroethene	45.0	µg/L	1	50.0	1.01	88	74.7 - 112
Methylene chloride	46.5	µg/L	1	50.0	<0.312	93	74.8 - 120
MTBE	48.2	µg/L	1	50.0	<0.318	96	73.5 - 125
trans-1,2-Dichloroethene	44.1	µg/L	1	50.0	<0.217	88	81.3 - 115
1,1-Dichloroethane	46.3	µg/L	1	50.0	0.37	92	76.8 - 122
cis-1,2-Dichloroethene	46.3	µg/L	1	50.0	<0.309	93	81 - 116
2,2-Dichloropropane	26.8	µg/L	1	50.0	<0.318	54	21.1 - 110

continued ...

¹ Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

² Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

³ Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁴ Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,2-Dichloroethane (EDC)	49.1	µg/L	1	50.0	<0.292	98	73.6 - 125
Chloroform	47.0	µg/L	1	50.0	0.82	92	74 - 122
1,1,1-Trichloroethane	44.7	µg/L	1	50.0	<0.257	89	73.4 - 119
1,1-Dichloropropene	41.7	µg/L	1	50.0	<0.286	83	73.8 - 119
Benzene	43.9	µg/L	1	50.0	<0.319	88	80.2 - 114
Carbon Tetrachloride	44.2	µg/L	1	50.0	<0.223	88	83.6 - 111
1,2-Dichloropropane	45.4	µg/L	1	50.0	<0.266	91	79.4 - 121
Trichloroethene (TCE)	46.0	µg/L	1	50.0	2.04	88	78.8 - 106
Dibromomethane (methylene bromide)	50.0	µg/L	1	50.0	<0.341	100	88 - 114
Bromodichloromethane	47.7	µg/L	1	50.0	<0.291	95	80.3 - 121
2-Chloroethyl vinyl ether	5 ⁵ <0.293	µg/L	1	50.0	<0.293	0	79.4 - 121
cis-1,3-Dichloropropene	44.5	µg/L	1	50.0	<0.207	89	74.3 - 118
trans-1,3-Dichloropropene	46.4	µg/L	1	50.0	<0.293	93	69.2 - 121
Toluene	6 ⁶ 43.1	µg/L	1	50.0	<0.268	86	87.5 - 112
1,1,2-Trichloroethane	50.2	µg/L	1	50.0	<0.329	100	89.1 - 110
1,3-Dichloropropane	50.9	µg/L	1	50.0	<0.316	102	88.1 - 113
Dibromochloromethane	52.9	µg/L	1	50.0	<0.290	106	84 - 121
1,2-Dibromoethane (EDB)	53.9	µg/L	1	50.0	<0.229	108	89.1 - 111
Tetrachloroethene (PCE)	31.1	µg/L	1	50.0	<0.233	62	42.9 - 72.6
Chlorobenzene	46.2	µg/L	1	50.0	<0.276	92	75.2 - 114
1,1,1,2-Tetrachloroethane	49.1	µg/L	1	50.0	<0.226	98	87.7 - 113
Ethylbenzene	42.8	µg/L	1	50.0	<0.245	86	74.6 - 118
m,p-Xylene	86.6	µg/L	1	100	<0.517	87	72.9 - 120
Bromoform	58.5	µg/L	1	50.0	<0.175	117	79.2 - 135
Styrene	36.7	µg/L	1	50.0	<0.239	73	41.7 - 137
o-Xylene	44.7	µg/L	1	50.0	<0.247	89	74.1 - 123
1,1,2,2-Tetrachloroethane	57.6	µg/L	1	50.0	<0.223	115	80.7 - 131
2-Chlorotoluene	42.6	µg/L	1	50.0	<0.235	85	71.6 - 117
1,2,3-Trichloropropane	53.8	µg/L	1	50.0	<0.230	108	78.4 - 109
Isopropylbenzene	42.4	µg/L	1	50.0	<0.226	85	72.4 - 118
Bromobenzene	45.8	µg/L	1	50.0	<0.245	92	72.7 - 115
n-Propylbenzene	40.9	µg/L	1	50.0	<0.234	82	69.1 - 117
1,3,5-Trimethylbenzene	41.9	µg/L	1	50.0	<0.261	84	70.6 - 116
tert-Butylbenzene	41.6	µg/L	1	50.0	<0.281	83	77.1 - 113
1,2,4-Trimethylbenzene	42.2	µg/L	1	50.0	<0.285	84	76.5 - 118
1,4-Dichlorobenzene (para)	45.8	µg/L	1	50.0	<0.307	92	80.6 - 106
sec-Butylbenzene	40.3	µg/L	1	50.0	<0.312	81	74 - 113
1,3-Dichlorobenzene (meta)	45.6	µg/L	1	50.0	<0.284	91	81.4 - 109
p-Isopropyltoluene	41.1	µg/L	1	50.0	<0.244	82	74.6 - 114
4-Chlorotoluene	43.4	µg/L	1	50.0	<0.257	87	71.3 - 117
1,2-Dichlorobenzene (ortho)	47.5	µg/L	1	50.0	<0.294	95	87 - 104
n-Butylbenzene	40.3	µg/L	1	50.0	<0.339	81	65.7 - 115
1,2-Dibromo-3-chloropropane	55.2	µg/L	1	50.0	<0.780	110	45.5 - 132
1,2,3-Trichlorobenzene	44.9	µg/L	1	50.0	<0.736	90	10 - 200
1,2,4-Trichlorobenzene	42.5	µg/L	1	50.0	<0.432	85	26.5 - 139
Naphthalene	52.8	µg/L	1	50.0	<0.475	106	10 - 203
Hexachlorobutadiene	39.1	µg/L	1	50.0	<1.02	78	50.9 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

⁵Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.⁶Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Bromochloromethane	51.2	µg/L	1	50.0	<0.197	102	82.3 - 118	2	20
Dichlorodifluoromethane	47.4	µg/L	1	50.0	<0.672	95	24.2 - 131	13	20
Chloromethane (methyl chloride)	44.9	µg/L	1	50.0	<0.542	90	69.6 - 118	2	20
Vinyl Chloride	45.9	µg/L	1	50.0	<0.516	92	80.8 - 107	4	20
Bromomethane (methyl bromide)	45.0	µg/L	1	50.0	<0.446	90	74.8 - 126	0	20
Chloroethane	46.9	µg/L	1	50.0	<0.656	94	74.6 - 124	3	20
Trichlorofluoromethane	49.5	µg/L	1	50.0	<0.538	99	66.8 - 115	10	20
Acetone	70.6	µg/L	1	50.0	<1.10	141	15 - 80.4	9	20
Iodomethane (methyl iodide)	50.6	µg/L	1	50.0	<0.214	101	75.2 - 114	5	20
Carbon Disulfide	48.0	µg/L	1	50.0	<0.294	96	69 - 121	11	20
Acrylonitrile	52.5	µg/L	1	50.0	<0.442	105	69.6 - 135	9	20
2-Butanone (MEK)	75.4	µg/L	1	50.0	<0.420	151	28.1 - 108	7	20
4-Methyl-2-pentanone (MIBK)	83.7	µg/L	1	50.0	<0.407	167	81.5 - 117	6	20
2-Hexanone	113	µg/L	1	50.0	<0.486	226	44.6 - 122	4	20
trans 1,4-Dichloro-2-butene	53.8	µg/L	1	50.0	<0.463	108	48.3 - 128	6	20
1,1-Dichloroethene	51.0	µg/L	1	50.0	1.01	100	74.7 - 112	12	20
Methylene chloride	48.0	µg/L	1	50.0	<0.312	96	74.8 - 120	3	20
MTBE	52.6	µg/L	1	50.0	<0.318	105	73.5 - 125	9	20
trans-1,2-Dichloroethene	48.2	µg/L	1	50.0	<0.217	96	81.3 - 115	9	20
1,1-Dichloroethane	49.6	µg/L	1	50.0	0.37	98	76.8 - 122	7	20
cis-1,2-Dichloroethene	48.9	µg/L	1	50.0	<0.309	98	81 - 116	6	20
2,2-Dichloropropane	29.0	µg/L	1	50.0	<0.318	58	21.1 - 110	8	20
1,2-Dichloroethane (EDC)	49.4	µg/L	1	50.0	<0.292	99	73.6 - 125	1	20
Chloroform	49.3	µg/L	1	50.0	0.82	97	74 - 122	5	20
1,1,1-Trichloroethane	49.0	µg/L	1	50.0	<0.257	98	73.4 - 119	9	20
1,1-Dichloropropene	48.1	µg/L	1	50.0	<0.286	96	73.8 - 119	14	20
Benzene	47.9	µg/L	1	50.0	<0.319	96	80.2 - 114	9	20
Carbon Tetrachloride	49.7	µg/L	1	50.0	<0.223	99	83.6 - 111	12	20
1,2-Dichloropropane	48.2	µg/L	1	50.0	<0.266	96	79.4 - 121	6	20
Trichloroethene (TCE)	51.7	µg/L	1	50.0	2.04	99	78.8 - 106	12	20
Dibromomethane (methylene bromide)	52.0	µg/L	1	50.0	<0.341	104	88 - 114	4	20
Bromodichloromethane	50.7	µg/L	1	50.0	<0.291	101	80.3 - 121	6	20
2-Chloroethyl vinyl ether	<0.293	µg/L	1	50.0	<0.293	0	79.4 - 121	0	20
cis-1,3-Dichloropropene	47.0	µg/L	1	50.0	<0.207	94	74.3 - 118	6	20
trans-1,3-Dichloropropene	49.2	µg/L	1	50.0	<0.293	98	69.2 - 121	6	20
Toluene	48.6	µg/L	1	50.0	<0.268	97	87.5 - 112	12	20
1,1,2-Trichloroethane	51.4	µg/L	1	50.0	<0.329	103	89.1 - 110	2	20
1,3-Dichloropropane	52.3	µg/L	1	50.0	<0.316	105	88.1 - 113	3	20
Dibromochloromethane	54.8	µg/L	1	50.0	<0.290	110	84 - 121	4	20
1,2-Dibromoethane (EDB)	55.3	µg/L	1	50.0	<0.229	111	89.1 - 111	3	20
Tetrachloroethene (PCE)	34.8	µg/L	1	50.0	<0.233	70	42.9 - 72.6	11	20
Chlorobenzene	50.2	µg/L	1	50.0	<0.276	100	75.2 - 114	8	20

continued ...

⁷Matrix spike recovery out of control limits due to matrix interference. RPD within RPD limits. Use LCS/LCSD to demonstrate analysis is under control.

⁸Matrix spike recovery out of control limits due to matrix interference. RPD within RPD limits. Use LCS/LCSD to demonstrate analysis is under control. •

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¹¹Matrix spike recovery out of control limits due to matrix interference. RPD within RPD limits. Use LCS/LCSD to demonstrate analysis is under control. •

matrix spikes continued ...

Param	MSD Result	Units	Dil:	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	51.7	µg/L	1	50.0	<0.226	103	87.7 - 113	5	20
Ethylbenzene	47.7	µg/L	1	50.0	<0.245	95	74.6 - 118	11	20
m,p-Xylene	96.0	µg/L	1	100	<0.517	96	72.9 - 120	10	20
Bromoform	61.1	µg/L	1	50.0	<0.175	122	79.2 - 135	4	20
Styrene	39.9	µg/L	1	50.0	<0.239	80	41.7 - 137	8	20
o-Xylene	48.8	µg/L	1	50.0	<0.247	98	74.1 - 123	9	20
1,1,2,2-Tetrachloroethane	60.6	µg/L	1	50.0	<0.223	121	80.7 - 131	5	20
2-Chlorotoluene	46.6	µg/L	1	50.0	<0.235	93	71.6 - 117	9	20
1,2,3-Trichloropropane	56.6	µg/L	1	50.0	<0.230	113	78.4 - 109	5	20
Isopropylbenzene	47.5	µg/L	1	50.0	<0.226	95	72.4 - 118	11	20
Bromobenzene	49.1	µg/L	1	50.0	<0.245	98	72.7 - 115	7	20
n-Propylbenzene	46.0	µg/L	1	50.0	<0.234	92	69.1 - 117	12	20
1,3,5-Trimethylbenzene	46.3	µg/L	1	50.0	<0.261	93	70.6 - 116	10	20
tert-Butylbenzene	46.8	µg/L	1	50.0	<0.281	94	77.1 - 113	12	20
1,2,4-Trimethylbenzene	46.3	µg/L	1	50.0	<0.285	93	76.5 - 118	9	20
1,4-Dichlorobenzene (para)	50.1	µg/L	1	50.0	<0.307	100	80.6 - 106	9	20
sec-Butylbenzene	45.5	µg/L	1	50.0	<0.312	91	74 - 113	12	20
1,3-Dichlorobenzene (meta)	49.7	µg/L	1	50.0	<0.284	99	81.4 - 109	9	20
p-Isopropyltoluene	46.1	µg/L	1	50.0	<0.244	92	74.6 - 114	12	20
4-Chlorotoluene	47.3	µg/L	1	50.0	<0.257	95	71.3 - 117	9	20
1,2-Dichlorobenzene (ortho)	51.3	µg/L	1	50.0	<0.294	103	87 - 104	8	20
n-Butylbenzene	45.8	µg/L	1	50.0	<0.339	92	65.7 - 115	13	20
1,2-Dibromo-3-chloropropane	60.7	µg/L	1	50.0	<0.780	121	45.5 - 132	10	20
1,2,3-Trichlorobenzene	52.6	µg/L	1	50.0	<0.736	105	10 - 200	16	20
1,2,4-Trichlorobenzene	48.5	µg/L	1	50.0	<0.432	97	26.5 - 139	13	20
Naphthalene	59.7	µg/L	1	50.0	<0.475	119	10 - 203	12	20
Hexachlorobutadiene	45.6	µg/L	1	50.0	<1.02	91	50.9 - 108	15	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Dibromofluoromethane	49.8	49.9	µg/L	1	50	100	100	91.5 - 112
Toluene-d8	48.5	48.1	µg/L	1	50	97	96	90.6 - 105
4-Bromofluorobenzene (4-BFB)	50.1	49.7	µg/L	1	50	100	99	88.7 - 112

Standard (CCV-1)

QC Batch: 47115

Date Analyzed: 2008-04-03

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromochloromethane		µg/L	50.0	48.4	97	70 - 130	2008-04-03
Dichlorodifluoromethane		µg/L	50.0	49.5	99	70 - 130	2008-04-03
Chloromethane (methyl chloride)		µg/L	50.0	46.5	93	70 - 130	2008-04-03
Vinyl Chloride		µg/L	50.0	48.7	97	80 - 120	2008-04-03
Bromomethane (methyl bromide)		µg/L	50.0	48.9	98	70 - 130	2008-04-03
Chloroethane		µg/L	50.0	49.8	100	70 - 130	2008-04-03

continued ...

¹²MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Trichlorofluoromethane		µg/L	50.0	50.4	101	70 - 130	2008-04-03
Acetone		µg/L	50.0	47.8	96	70 - 130	2008-04-03
Iodomethane (methyl iodide)		µg/L	50.0	49.3	99	70 - 130	2008-04-03
Carbon Disulfide		µg/L	50.0	49.6	99	70 - 130	2008-04-03
Acrylonitrile		µg/L	50.0	46.6	93	70 - 130	2008-04-03
2-Butanone (MEK)		µg/L	50.0	53.0	106	70 - 130	2008-04-03
4-Methyl-2-pentanone (MIBK)		µg/L	50.0	49.5	99	70 - 130	2008-04-03
2-Hexanone		µg/L	50.0	57.2	114	70 - 130	2008-04-03
trans 1,4-Dichloro-2-butene		µg/L	50.0	50.0	100	70 - 130	2008-04-03
1,1-Dichloroethene		µg/L	50.0	48.6	97	80 - 120	2008-04-03
Methylene chloride		µg/L	50.0	46.8	94	70 - 130	2008-04-03
MTBE		µg/L	50.0	48.7	97	70 - 130	2008-04-03
trans-1,2-Dichloroethene		µg/L	50.0	47.8	96	70 - 130	2008-04-03
1,1-Dichloroethane		µg/L	50.0	48.7	97	70 - 130	2008-04-03
cis-1,2-Dichloroethene		µg/L	50.0	48.3	97	70 - 130	2008-04-03
2,2-Dichloropropane		µg/L	50.0	44.9	90	70 - 130	2008-04-03
1,2-Dichloroethane (EDC)		µg/L	50.0	47.2	94	70 - 130	2008-04-03
Chloroform		µg/L	50.0	47.7	95	80 - 120	2008-04-03
1,1,1-Trichloroethane		µg/L	50.0	47.8	96	70 - 130	2008-04-03
1,1-Dichloropropene		µg/L	50.0	48.0	96	70 - 130	2008-04-03
Benzene		µg/L	50.0	47.5	95	70 - 130	2008-04-03
Carbon Tetrachloride		µg/L	50.0	47.5	95	70 - 130	2008-04-03
1,2-Dichloropropane		µg/L	50.0	48.4	97	80 - 120	2008-04-03
Trichloroethene (TCE)		µg/L	50.0	49.3	99	70 - 130	2008-04-03
Dibromomethane (methylene bromide)		µg/L	50.0	48.3	97	70 - 130	2008-04-03
Bromodichloromethane		µg/L	50.0	48.6	97	70 - 130	2008-04-03
2-Chloroethyl vinyl ether		µg/L	50.0	49.9	100	70 - 130	2008-04-03
cis-1,3-Dichloropropene		µg/L	50.0	49.2	98	70 - 130	2008-04-03
trans-1,3-Dichloropropene		µg/L	50.0	50.0	100	70 - 130	2008-04-03
Toluene		µg/L	50.0	47.4	95	80 - 120	2008-04-03
1,1,2-Trichloroethane		µg/L	50.0	48.2	96	70 - 130	2008-04-03
1,3-Dichloropropane		µg/L	50.0	48.0	96	70 - 130	2008-04-03
Dibromochloromethane		µg/L	50.0	50.0	100	70 - 130	2008-04-03
1,2-Dibromoethane (EDB)		µg/L	50.0	49.6	99	70 - 130	2008-04-03
Tetrachloroethene (PCE)		µg/L	50.0	54.4	109	70 - 130	2008-04-03
Chlorobenzene		µg/L	50.0	48.1	96	80 - 120	2008-04-03
1,1,1,2-Tetrachloroethane		µg/L	50.0	48.6	97	70 - 130	2008-04-03
Ethylbenzene		µg/L	50.0	47.3	95	80 - 120	2008-04-03
m,p-Xylene		µg/L	100	94.6	95	70 - 130	2008-04-03
Bromoform		µg/L	50.0	52.1	104	70 - 130	2008-04-03
Styrene		µg/L	50.0	46.8	94	70 - 130	2008-04-03
o-Xylene		µg/L	50.0	47.5	95	70 - 130	2008-04-03
1,1,2,2-Tetrachloroethane		µg/L	50.0	48.4	97	70 - 130	2008-04-03
2-Chlorotoluene		µg/L	50.0	46.5	93	70 - 130	2008-04-03
1,2,3-Trichloropropane		µg/L	50.0	49.7	99	70 - 130	2008-04-03
Isopropylbenzene		µg/L	50.0	47.3	95	70 - 130	2008-04-03
Bromobenzene		µg/L	50.0	47.1	94	70 - 130	2008-04-03
n-Propylbenzene		µg/L	50.0	47.0	94	70 - 130	2008-04-03
1,3,5-Trimethylbenzene		µg/L	50.0	46.8	94	70 - 130	2008-04-03

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
tert-Butylbenzene		µg/L	50.0	47.6	95	70 - 130	2008-04-03
1,2,4-Trimethylbenzene		µg/L	50.0	47.2	94	70 - 130	2008-04-03
1,4-Dichlorobenzene (para)		µg/L	50.0	48.6	97	70 - 130	2008-04-03
sec-Butylbenzene		µg/L	50.0	47.6	95	70 - 130	2008-04-03
1,3-Dichlorobenzene (meta)		µg/L	50.0	48.9	98	70 - 130	2008-04-03
p-Isopropyltoluene		µg/L	50.0	48.4	97	70 - 130	2008-04-03
4-Chlorotoluene		µg/L	50.0	47.3	95	70 - 130	2008-04-03
1,2-Dichlorobenzene (ortho)		µg/L	50.0	49.8	100	70 - 130	2008-04-03
n-Butylbenzene		µg/L	50.0	50.1	100	70 - 130	2008-04-03
1,2-Dibromo-3-chloropropane		µg/L	50.0	46.5	93	70 - 130	2008-04-03
1,2,3-Trichlorobenzene		µg/L	50.0	48.8	98	70 - 130	2008-04-03
1,2,4-Trichlorobenzene		µg/L	50.0	48.0	96	70 - 130	2008-04-03
Naphthalene		µg/L	50.0	48.1	96	70 - 130	2008-04-03
Hexachlorobutadiene		µg/L	50.0	49.5	99	70 - 130	2008-04-03

Standard (CCV-1)

QC Batch: 47137

Date Analyzed: 2008-04-04

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol		mg/L	60.0	61.4	102	80 - 120	2008-04-04
1,4-Dichlorobenzene (para)		mg/L	60.0	59.8	100	80 - 120	2008-04-04
2-Nitrophenol		mg/L	60.0	66.4	111	80 - 120	2008-04-04
2,4-Dichlorophenol		mg/L	60.0	63.1	105	80 - 120	2008-04-04
Hexachlorobutadiene		mg/L	60.0	63.6	106	80 - 120	2008-04-04
4-Chloro-3-methylphenol		mg/L	60.0	48.8	81	80 - 120	2008-04-04
2,4,6-Trichlorophenol		mg/L	60.0	69.3	116	80 - 120	2008-04-04
Acenaphthene		mg/L	60.0	55.3	92	80 - 120	2008-04-04
Diphenylamine		mg/L	60.0	56.2	94	80 - 120	2008-04-04
Pentachlorophenol		mg/L	60.0	51.4	86	80 - 120	2008-04-04
Fluoranthene		mg/L	60.0	68.6	114	80 - 120	2008-04-04
Di-n-octylphthalate		mg/L	60.0	49.6	83	80 - 120	2008-04-04
Benzo(a)pyrene		mg/L	60.0	62.1	104	80 - 120	2008-04-04

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		56.9	mg/L	1	60.0	95	80 - 120
Phenol-d5		62.1	mg/L	1	60.0	104	80 - 120
Nitrobenzene-d5		67.3	mg/L	1	60.0	112	80 - 120
2-Fluorobiphenyl	13	73.3	mg/L	1	60.0	122	80 - 120
2,4,6-Tribromophenol		69.2	mg/L	1	60.0	115	80 - 120
Terphenyl-d14		65.8	mg/L	1	60.0	110	80 - 120

¹³2-Fluorobiphenyl outside of control limits on CCV(ICV). CCV(ICV) component average is 103% which is within acceptable range. This is acceptable by Method 8000.

SOIL BORING / MONITORING WELL LOG

PROJECT: CS CAYLER
 PROJECT NUMBER: PLAINS044SPL
 CLIENT: CS CAYLER
 BORING / WELL NUMBER: MW-18
 TOTAL DEPTH: 90'
 SURFACE ELEVATION: 3809.09'
 GEOLOGIST: Carl Vessels

DRILLING COMPANY: Straube Co.
 DRILLER: Eddie Bryan
 DRILLING METHOD: Air Rotary
 BORE HOLE DIAMETER: _____
 SCREEN: Diam. 2" Length 35' Slot Size 0.010"
 CASING: Diam. 2" Length 64' Type PVC Sch 40
 DATE DRILLED: March 18, 2008

PAGE 1 of 1

Depth (FT.)	Soil Symbol	Well Construction	PID Readings	Samples	Sample Interval	Description Interval	Description of Stratum	Depth (FT.)
0					4'-5'		Caliche, No Odor	0
16						15'	Gray, Caliche/Some Sand, No Odor	16
						21'	Caliche/Very Fine Grain, No Odor	
32						31'	Caliche/Very Fine Grain Sand, No Odor	32
						36'	Tan Sand/Fine Grain, No Odor	
48					39'-40'	41'	Tan Sand/Very Fine Grain, No Odor	48
64								64
80					74'-75'			80
96						90'	Bottom of Hole	96

REMARKS:

THIS WELL DIAGRAM AND BORE LOG SHOULD NOT BE USED SEPARATE FROM THE ORIGINAL REPORT.



KEY TO SYMBOLS

Symbol Description

Strata symbols



Caliche

Misc. Symbols



Water table at
boring completion

Soil Samplers



Bulk/Grab sample

Monitor Well Details



Recessed cover
set in concrete



Bentonite pellets



Silica sand, blank PVC



Slotted pipe w/ sand



Endcap on pipe
Packed in sand