

1R - 381

# Annual GW Mon. REPORTS

DATE:

2007



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**8" MOORE TO JAL #2  
NMOCD # 1R-0381  
2007 ANNUAL GROUNDWATER  
MONITORING REPORT  
LEA COUNTY, NEW MEXICO  
PLAINS SRS #2002-10273**

NW1/4 of the SE1/4 of Section 16, Township 17 South, Range 37 East

*Prepared for:*

**PLAINS MARKETING, L.P.**  
333 Clay Street  
Suite 1600  
Houston, Texas 77002

*Prepared by:*

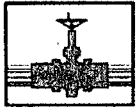
**Talon/LPE**  
Shanna L. Smith  
318 E. Taylor Street  
Hobbs, New Mexico 88240

March 28, 2008

Distribution:

Copy 1 – Plains Lovington  
Copy 2 – Plains Houston  
Copy 3 – NMOCD Hobbs  
Copy 4 – NMOCD Santa Fe  
Copy 5 – NMSLO Santa Fe  
Copy 6 – Talon/LPE

RECEIVED  
2008 APR 1 PM 2 13



**PLAINS  
ALL AMERICAN**

**RECEIVED**

**2008 APR 1 PM 2 13**

March 28, 2008

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

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

Dear Mr. Hansen,

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

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

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

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

Sincerely,

Camille Reynolds  
Remediation Coordinator  
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

**8" Moore to Jal #2  
2007 Annual Groundwater Monitoring Report**

**Plains Marketing, L.P.  
Houston, Texas**

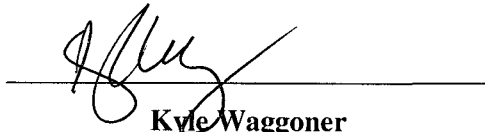
**Talon/LPE PROJECT NO. PLAINS008SPL**

**Prepared by:**



**Shanna L. Smith  
Project Manager**

**Reviewed by:**



**Kyle Waggoner  
Regional Manager**

**Talon/LPE  
318 E. Taylor Street  
Hobbs, New Mexico 88240**

**March 28, 2008**

### Distribution List

| Name                | Title                           | Company or Agency            | Mailing Address                                    | e-mail                      |
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NMOCD - New Mexico Oil Conservation Division

NMSLO - New Mexico State Land Office

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Table 4 – Summary of Polycyclic Aromatic Hydrocarbons Analytical Results

### **Appendix C Laboratory Analytical Data Sheets and Chain of Custody Documentation**

### **Appendix D NMOCD C-141**

# **ANNUAL GROUNDWATER MONITORING REPORT**

## **1.0 Introduction**

The 8" Moore to Jal #2 release site is located approximately 9.2 miles southeast of Lovington, in Lea County, New Mexico. The site is located within the West Lovington Oil Field on property owned by the State of New Mexico. No residences or surface water bodies are located within a 1,000-foot radius of the facility.

In October 2002, a release of approximately 25 barrels occurred from a Plains Pipeline, L.P. (Plains) pipeline at this location. Approximately six thousand square feet of surface area were impacted by the release. Surficial soil saturated by the release was remediated onsite and remediation activities are summarized in the "Soil Closure Report" dated October 26, 2006.

Soil excavation and over-excavation activities were initiated in November 2002 and occurred intermittently until completion in August 2006. These activities are summarized in the "Soil Workplan Implementation Report/Closure Report", dated November 8, 2006.

In addition to the soil evaluation, Environmental Plus, Inc. initiated a subsurface investigation of the first water-bearing zone at the site by installing four monitor wells in the vicinity of the release (see Figure 1). The first monitor well (MW-1) was installed July 2004 and exhibited phase-separated hydrocarbons (PSH). The remaining three monitor wells (MW-2, MW-3, and MW-4) were installed during October 2004. Monitor wells MW-2 and MW-3 also exhibited PSH.

In November 2007, nine additional groundwater monitor wells were installed as proposed in the "Monitor Well Installation Workplan Moore to Jal #2", dated January 17, 2007. Talon/LPE installed additional monitor wells at the site to further evaluate the free-phase hydrocarbon plume as well as to further evaluate the dissolve-phase plume (see Figure 4). Of the nine wells installed, four of the wells (MW-5 through MW-7 and MW-9) exhibited PSH.

PSH recovery operations have been performed at the site since 2004. Approximately 1,516 gallons of PSH have been recovered to date.

## **2.0 Groundwater Gradient**

Monitor wells were gauged weekly, prior to pumping, to determine the depth to groundwater and PSH thickness. Based on existing data, the groundwater gradient appears to be primarily toward the south as indicated in Figures 2a through 2d.

## **3.0 PSH Recovery**

Recovery of the PSH present on the groundwater in the vicinity of the monitor well network was accomplished utilizing Monsoon Submersible Pumps manufactured by Proactive Environmental Products. As of December 31, 2007, the cumulative total of crude oil

recovered from the site is approximately 172 gallons (4 bbls). Recovered product was reintroduced into the Plains pipeline system at Lea Station.

#### **4.0 Groundwater Sampling**

Groundwater monitor well MW-4 was sampled on March 29, June 19, September 20 and December 28, 2007. During the sampling event of March 29, 2007, groundwater monitor well were sampled and submitted for quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX) utilizing SW-846 Method 8021B and for quantification of polycyclic aromatic hydrocarbons (PAH) using EPA/SW-846 Methods 610 and 8270C. Groundwater monitor wells MW-8 and MW-13 were sampled on December 18, 2007 and groundwater monitor wells MW-10 through MW-12 were sampled on December 19, 2007. During the sampling events of June 19, September 20, and December 18, 19, and 28, groundwater monitor wells MW-4, MW-8, MW-10 through MW-13 were sampled and submitted for quantification of BTEX by SW-846 Method 8021B.

Monitor wells MW-1 through MW-3, MW-5 through MW-7, and MW-9 were not sampled in 2007 due to the presence of PSH.

#### **5.0 Groundwater Analytical Results**

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

#### **New Mexico Water Quality Control Commission (NMWQCC) groundwater standards**

| <b>Compound</b> | <b>mg/L</b> |
|-----------------|-------------|
| Benzene         | 0.010       |
| Toluene         | 0.750       |
| Ethylbenzene    | 0.750       |
| Total Xylenes   | 0.620       |

#### **March 27, 2007**

Analytical results for the sample collected from groundwater monitor well MW-4 on March 29, 2007 indicate that the BTEX constituents were detected above the laboratory reporting limits. The benzene concentration (7.18 mg/L) exceeded the NMWQCC groundwater standard limit of 0.010 mg/L. In addition, analytical results for the sample collected from groundwater monitor well MW-4 also exhibited the PAH compound naphthalene (0.042 mg/L) at concentrations above the NMWQCC standard limit of 0.030 mg/L. Monitor wells MW-1, MW-2 and MW-3 were not sampled due to presence of PSH (see Figure 4a).



### **June 19, 2007**

Analytical results from the June 19, 2007 sampling event indicate that BTEX constituents were detected above the laboratory reporting limits in monitor well MW-4. These BTEX constituent concentrations exceeded the NMWQCC groundwater standard for benzene (16.85 mg/L), toluene (0.7600 mg/L), ethylbenzene (0.7990 mg/L) and total xylenes (0.7650 mg/L). Monitor wells MW-1, MW-2 and MW-3 were not sampled due to the presence of PSH (see Figure 4b).

### **September 20, 2007**

Analytical results from the September 20, 2007 sampling event indicate that BTEX constituents were detected above the laboratory reporting limits in monitor well MW-4. These BTEX constituent concentrations exceeded the NMWQCC groundwater standard for benzene (17.21 mg/L) and total xylenes (0.7050 mg/L). Monitor wells MW-1, MW-2 and MW-3 were not sampled due to the presence of PSH (see Figure 4c).

### **December 18, 19, and 28, 2007**

Analytical results from the December 18, 19, and 28, 2007 sampling events indicate that BTEX constituents were detected above the laboratory reporting limits in monitor wells MW-4, MW-8, and MW-11. These BTEX constituent concentrations exceeded the NMWQCC groundwater standards in monitor wells MW-4 (benzene at 20.6 mg/L, toluene at 0.912 mg/L, ethylbenzene at 0.856 mg/L, and total xylenes at 1.50 mg/L), MW-8 (benzene at 0.660 mg/L), and MW-11 (benzene at 0.0180 mg/L). Analytical results indicate that BTEX constituents were not detected above laboratory reporting limits in monitor wells MW-10, MW-12, and MW-13.

Monitor wells MW-1 through MW-3, MW-5 through MW-7, and MW-9 were not sampled during the December sampling event due to the presence of PSH (see Figure 3d).

## **6.0 Recommendations**

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

- 1) Continue to monitor the system on a weekly basis to record groundwater and PSH levels and recover PSH from the existing groundwater monitoring network.
- 2) Based on the weekly gauging of monitor wells, propose the installation of an automated recovery system to achieve more efficient PSH recovery.
- 3) Monitor wells MW-4, MW-8, and MW-10 through MW-13 will be sampled and analyzed for BTEX quarterly and PAH's annually.
- 4) Monitor wells MW-1 through MW-3, MW-5 through MW-7, and MW-9 will be added to the quarterly sampling/analysis schedule when PSH is no longer present in

each well. Pursuant to the request of the NMOCD, Plains will collect a discrete sample below the PSH in the water table from these wells on a yearly basis to evaluate BTEX, TPH, and PAH concentrations in the groundwater.

- 5) Assess the need for additional monitor wells in order to address down-gradient delineation of the dissolve-phase plume by evaluating the weekly gauging of the monitor wells, as well as the quarterly groundwater sampling.
- 6) A Stage 1 & 2 Abatement Plan will be submitted to the NMOCD by April 30, 2008

## Appendix A

### Drawings

Figure 1 – Site Plan

Figure 2a – Groundwater Gradient Map (03/27/2007)

Figure 2b – Groundwater Gradient Map (06/19/2007)

Figure 2c – Groundwater Gradient Map (09/20/2007)

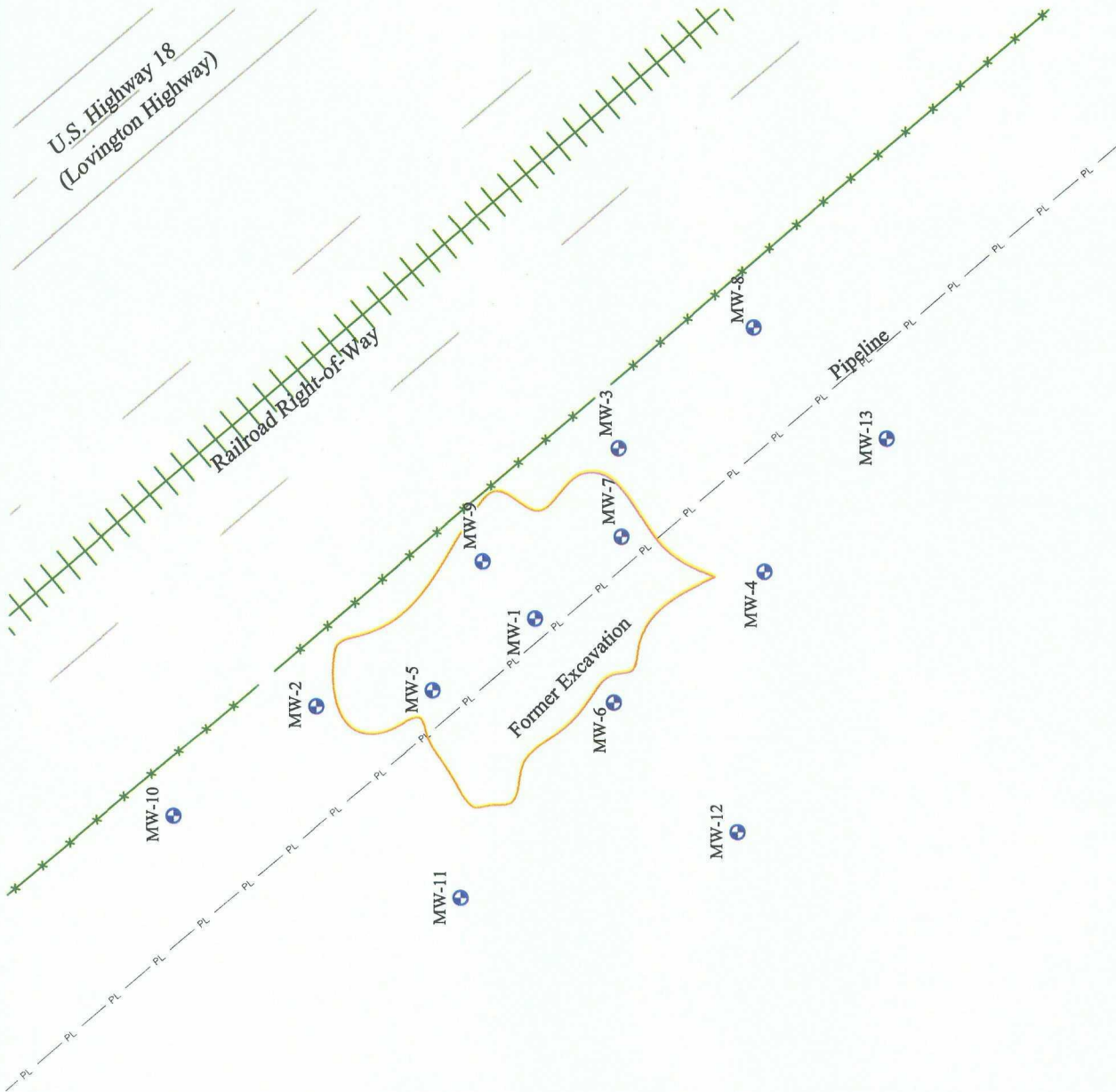
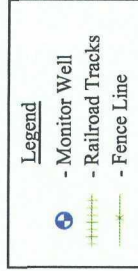
Figure 2d – Groundwater Gradient Map (12/17/2007)

Figure 3a – PSH Thickness & Groundwater Concentration Map (03/27/2007)

Figure 3b – PSH Thickness & Groundwater Concentration Map (06/19/2007)

Figure 3c – PSH Thickness & Groundwater Concentration Map (09/20/2007)

Figure 3d – PSH Thickness & Groundwater Concentration Map (12/17/2007)



8" Moore to Jal # 2  
 SRS # 2002-10273, NMOCD REF. # 1R-0381  
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
 Figure 1 - Site Plan

Date: 03/28/2008

Scale: 1" = 70'

Drawn By: SJA

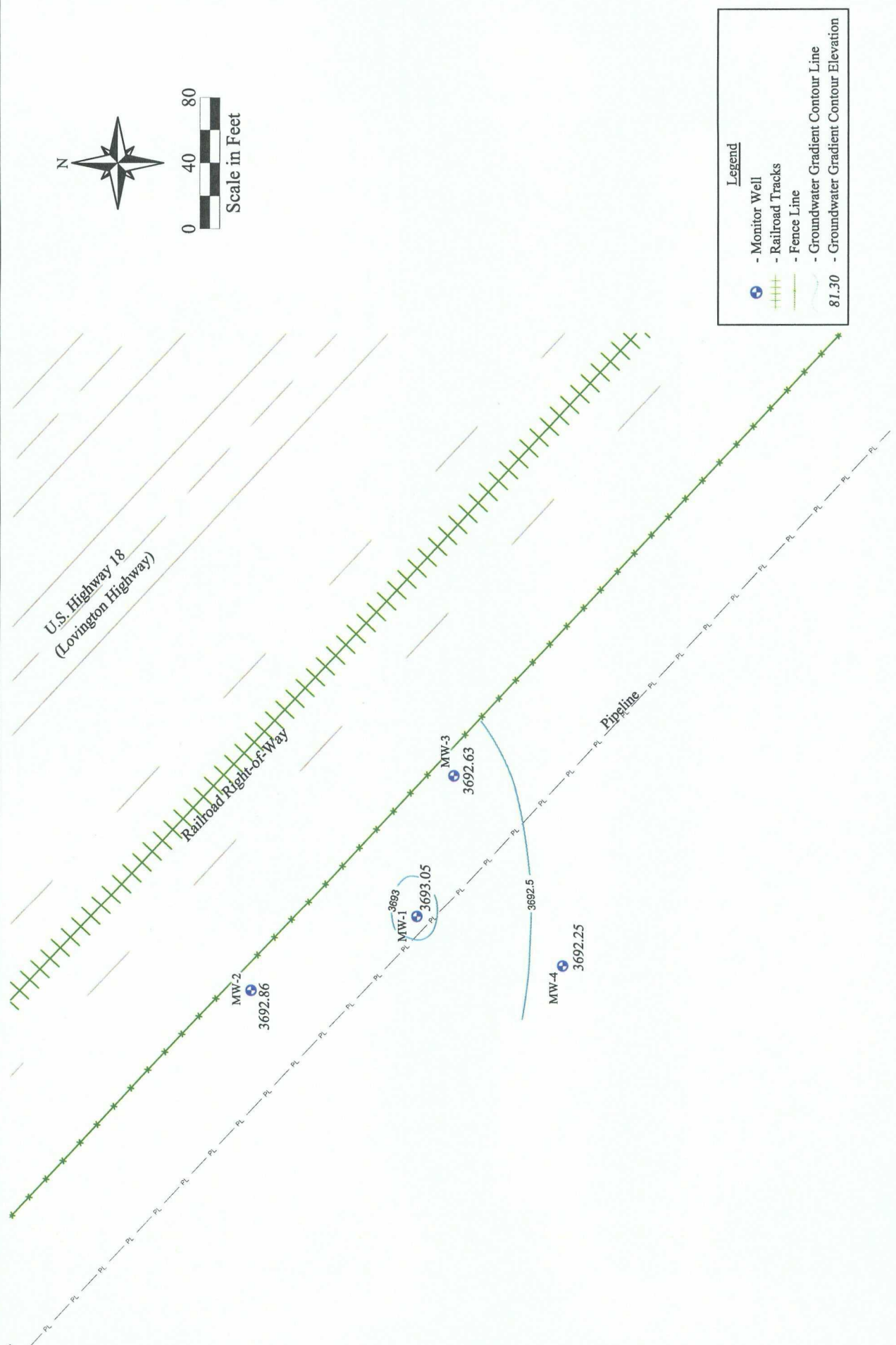




Date: 03/31/2008  
 Scale: 1" = 80'  
 Drawn By: SJA

8" Moore to Jal # 2  
 SRS # 2002-10273, NMOCD REF. # 1R-0381  
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
 Figure 2a - Groundwater Gradient Map, (03/27/2007)





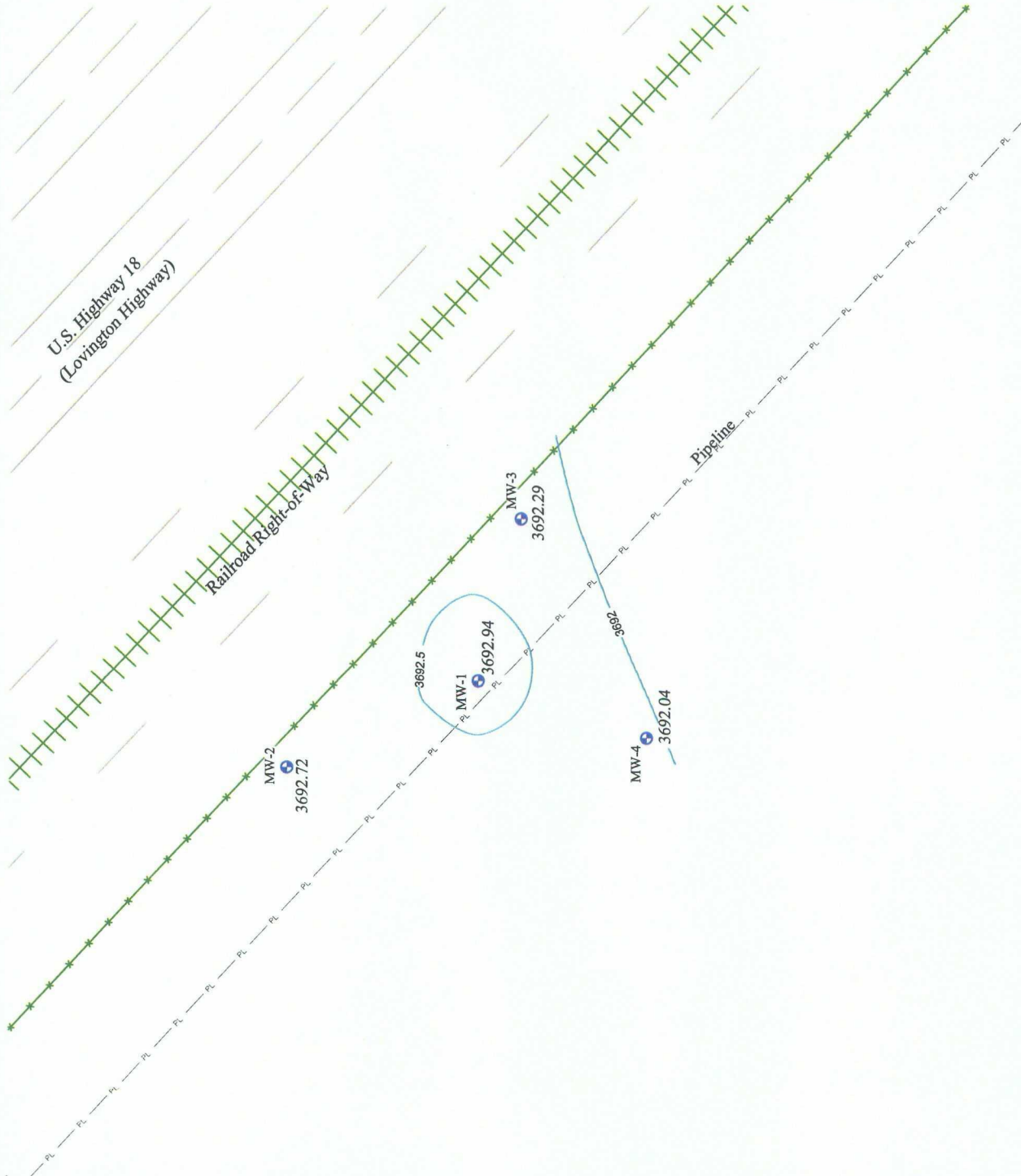
**Legend**

- Monitor Well
- Railroad Tracks
- Fence Line
- Groundwater Gradient Contour Line
- 81.30 - Groundwater Gradient Contour Elevation

8" Moore to Jal # 2  
 SRS # 2002-10273, NMOCD REF. # 1R-0381  
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
 Figure 2b - Groundwater Gradient Map, (06/19/2007)

Date: 03/31/2008  
 Scale: 1" = 80'  
 Drawn By: SJA

**TALON**  
**LPE**



**Legend**

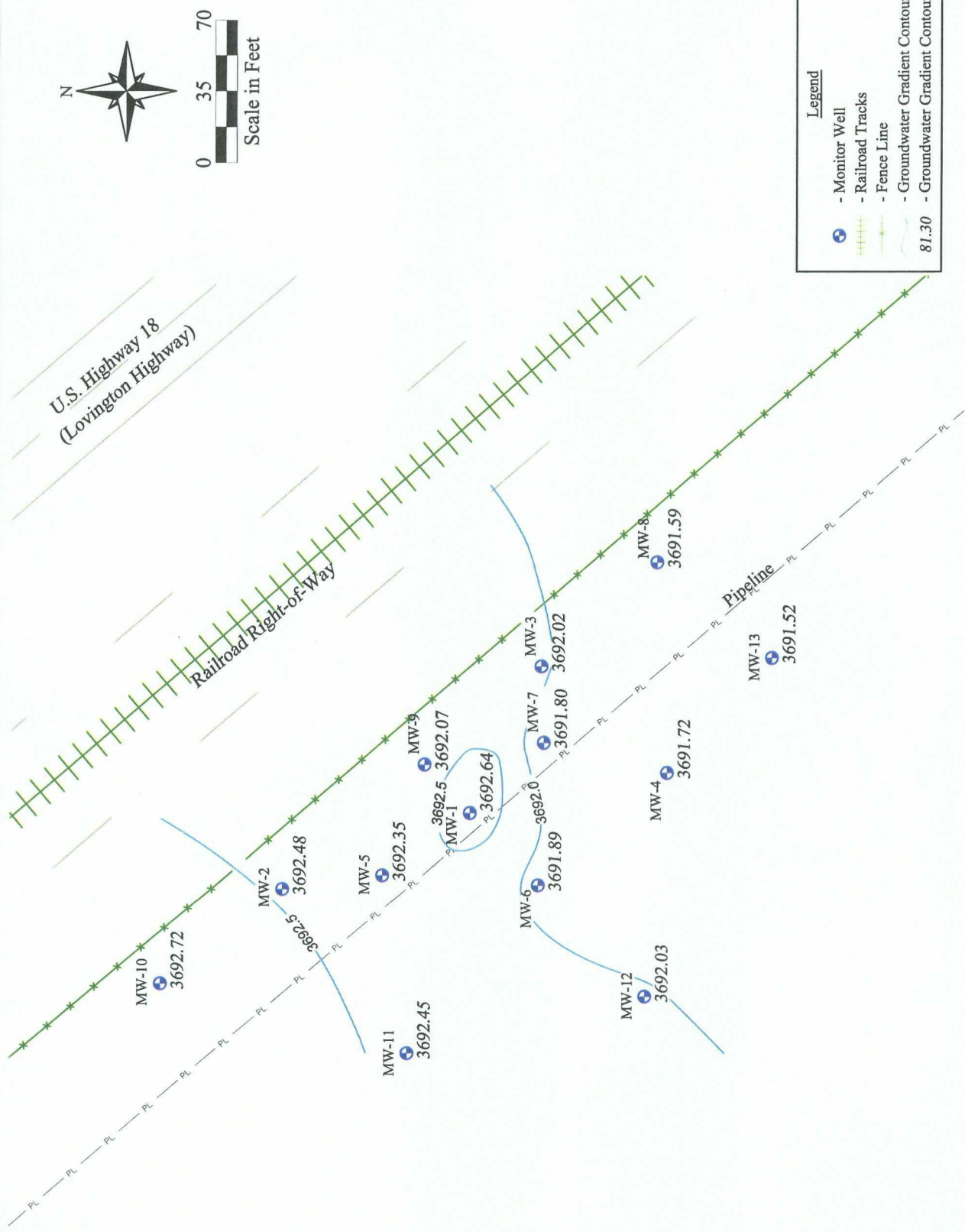
- Monitor Well
- Railroad Tracks
- Fence Line
- Groundwater Gradient Contour Line
- Groundwater Gradient Contour Elevation

81.30



Date: 03/31/2008  
 Scale: 1" = 80'  
 Drawn By: SJA

8" Moore to Jal # 2  
 SRS # 2002-10273, NMOCD REF. # 1R-0381  
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
 Figure 2c - Groundwater Gradient Map, (09/20/2007)



Date: 03/28/2008  
 Scale: 1" = 70'  
 Drawn By: SJA



8" Moore to Jal # 2  
 SRS # 2002-10273, NMOCD REF. # 1R-0381  
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
 Figure 2d - Groundwater Gradient Map, (12/17/2007)





0 40 80  
Scale in Feet

U.S. Highway 18  
(Lovington Highway)

Railroad Right-of-Way

Pipeline

- Legend**
- Monitor Well
  - Railroad Tracks
  - Fence Line
  - PSH Plume Thickness Contour Line
  - 2.0' - PSH Plume Thickness

MW-2  
0.18

MW-1  
6.50'

MW-3  
2.41'

MW-4  
0.00'

MW-4, mg/L  
B = 7.18  
T = 0.530  
E = 0.452  
m,p-X = 0.297  
o-X = 0.287



Date: 03/31/2008

Scale: 1" = 80'

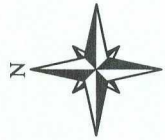
Drawn By: SJA

8" Moore to Jal # 2

SRS # 2002-10273, NMOCD REF. # 1R-0381

9.2 Miles SE of Lovington, NM, Lea County, New Mexico

Figure 3a - PSH Thickness & Groundwater Concentration Map, (03/27/2007)



U.S. Highway 18  
(Lovington Highway)

Railroad Right-of-Way

Pipeline

- Legend**
- Monitor Well
  - Railroad Tracks
  - Fence Line
  - PSH Plume Thickness Contour Line
  - PSH Plume Thickness

MW-2  
0.27'

MW-1  
6.53'

MW-3  
4.32'

MW-4  
0.00'

MW-4, mg/L  
B = 16.85  
T = 0.7600  
E = 0.7990  
m.p-X = 0.3530  
o-X = 0.4120



Date: 03/31/2008

Scale: 1" = 80'

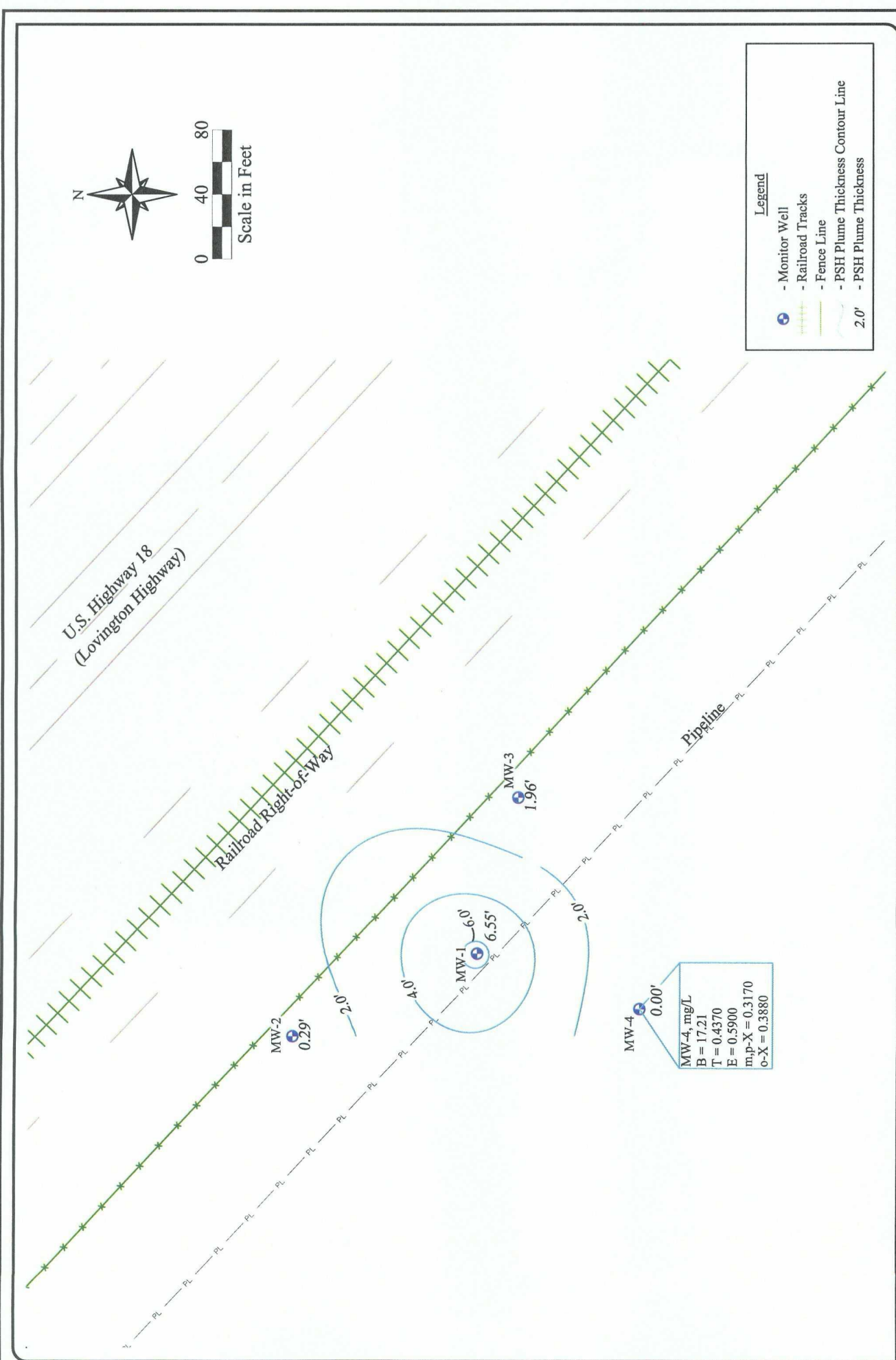
Drawn By: SJA

8" Moore to Jal # 2

SRS # 2002-10273, NMOCDF REF. # 1R-0381

9.2 Miles SE of Lovington, NM, Lea County, New Mexico

Figure 3b - PSH Thickness & Groundwater Concentration Map, (06/19/2007)

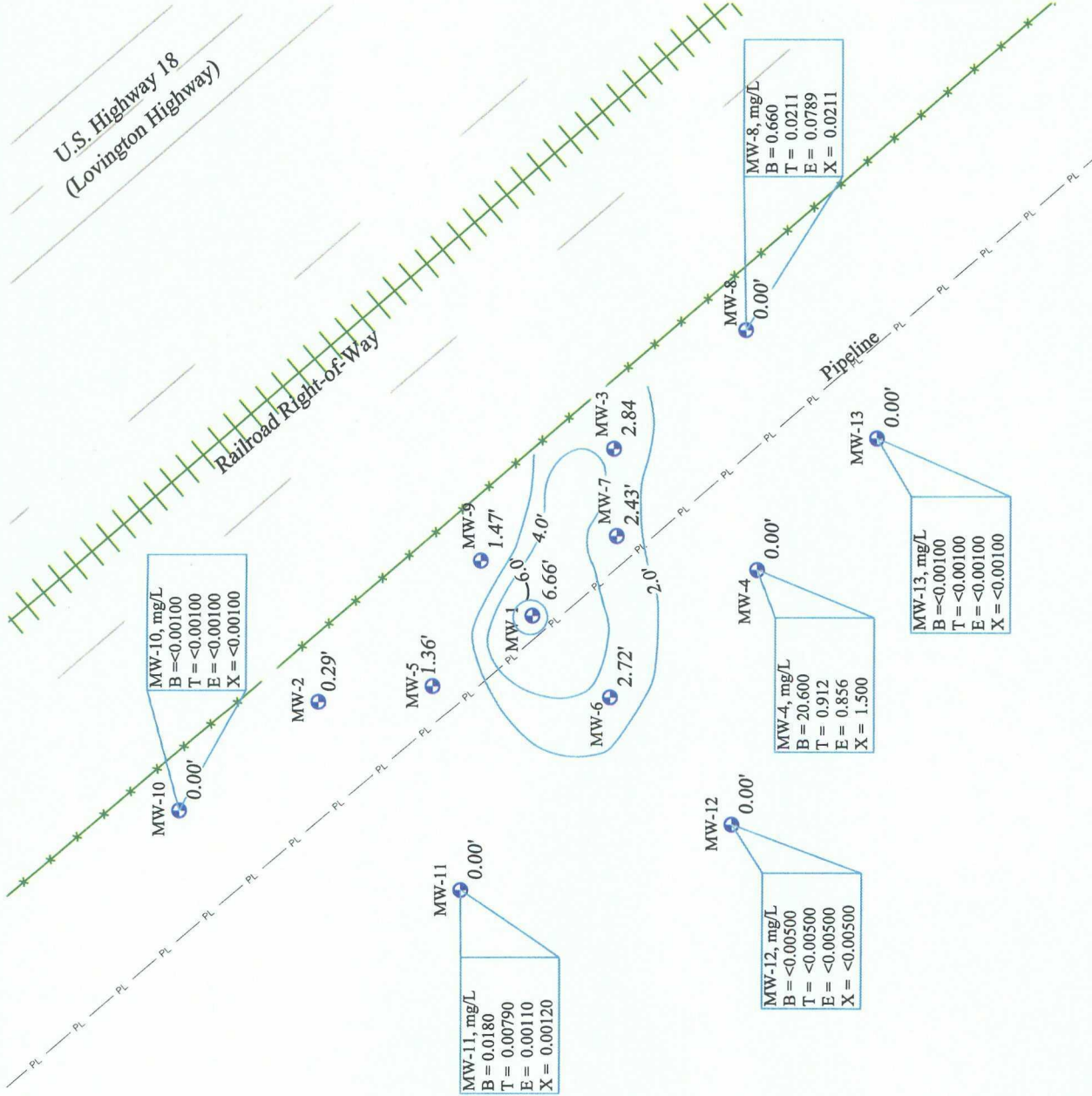
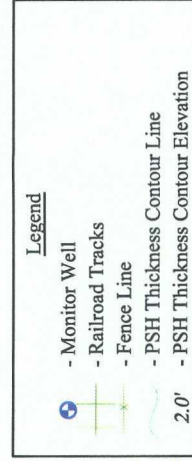


Date: 03/31/2008  
 Scale: 1" = 80'  
 Drawn By: SJA

8" Moore to Jal # 2  
 SRS # 2002-10273, NMOCD REF. # 1R-0381  
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
 Figure 3c - PSH Thickness & Groundwater Concentration Map, (09/20/2007)







Date: 03/28/2008  
Scale: 1" = 70'  
Drawn By: SJA

8" Moore to Jal # 2  
SRS # 2002-10273, NMOCD REF. # 1R-0381  
9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
Figure 3d - PSH Thickness & Groundwater Concentration Map, (12/17/2007)

## APPENDIX B

### Tables

Table 1 – Summary of PSH Thickness & Gauging Measurements

Table 3 – Summary of Groundwater Analytical Results

Table 4 – Summary of Polycyclic-Aromatic Hydrocarbons Analytical Results



TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NMOC REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet) | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet) | PSH<br>THICKNESS (ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|--|---|---|--|-----------------------|--------------------------------------|--|
| MW-1    | 07/28/04    | 3767.30                                    | 59.01   | 59.08   | 3708.28                                      | 0.07                  | 0.00                                 | 0.00                                       |
|         | 08/23/04    | 3767.30                                    | 72.37   | 79.68   | 3694.05                                      | 7.31                  | 0.00                                 | 0.00                                       |
|         | 10/08/04    | 3767.30                                    | 72.19   | 75.79   | 3694.68                                      | 3.60                  | 0.00                                 | 0.00                                       |
|         | 10/14/04    | 3767.30                                    | 71.76   | 78.56   | 3694.72                                      | 6.80                  | 4.50                                 | 4.50                                       |
|         | 10/20/04    | 3767.30                                    | 71.88   | 78.95   | 3694.64                                      | 7.15                  | 9.00                                 | 13.50                                      |
|         | 10/29/04    | 3767.30                                    | 72.00   | 79.20   | 3694.54                                      | 7.32                  | 10.00                                | 23.50                                      |
|         | 11/04/04    | 3767.30                                    | 72.08   | 79.26   | 3694.43                                      | 7.26                  | 18.00                                | 41.50                                      |
|         | 11/17/04    | 3767.30                                    | 72.12   | 79.33   | 3694.35                                      | 7.24                  | 11.00                                | 52.50                                      |
|         | 11/24/04    | 3767.30                                    | 72.22   | 79.41   | 3694.31                                      | 7.21                  | 10.00                                | 62.50                                      |
|         | 12/02/04    | 3767.30                                    | 72.18   | 79.31   | 3694.22                                      | 7.13                  | 9.00                                 | 71.50                                      |
|         | 12/08/04    | 3767.30                                    | 72.06   | 79.14   | 3694.26                                      | 7.08                  | 8.00                                 | 79.50                                      |
|         | 12/15/04    | 3767.30                                    | 72.09   | 79.15   | 3694.36                                      | 7.06                  | 9.00                                 | 88.50                                      |
|         | 12/27/04    | 3767.30                                    | 72.26   | 79.34   | 3694.36                                      | 7.08                  | 9.00                                 | 97.50                                      |
|         | 01/06/05    | 3767.30                                    | 72.35   | 78.84   | 3694.19                                      | 7.08                  | 9.00                                 | 106.50                                     |
|         | 01/13/05    | 3767.30                                    | 72.27   | 79.32   | 3694.17                                      | 6.49                  | 9.00                                 | 115.50                                     |
|         | 01/19/05    | 3767.30                                    | 72.31   | 79.34   | 3694.15                                      | 7.05                  | 9.00                                 | 124.50                                     |
|         | 01/26/05    | 3767.30                                    | 72.34   | 79.37   | 3694.14                                      | 7.06                  | 9.00                                 | 133.50                                     |
|         | 02/02/05    | 3767.30                                    | 72.32   | 79.43   | 3694.11                                      | 7.09                  | 10.00                                | 143.50                                     |
|         | 02/09/05    | 3767.30                                    | 72.38   | 79.36   | 3694.14                                      | 7.04                  | 9.00                                 | 152.50                                     |
|         | 02/16/05    | 3767.30                                    | 72.35   | 79.39   | 3694.08                                      | 7.01                  | 10.00                                | 162.50                                     |
|         | 02/24/05    | 3767.30                                    | 72.37   | 79.34   | 3694.11                                      | 6.99                  | 9.00                                 | 171.50                                     |
|         | 03/03/05    | 3767.30                                    | 72.42   | 79.38   | 3694.09                                      | 7.01                  | 9.00                                 | 180.50                                     |
|         | 03/11/05    | 3767.30                                    | 72.29   | 79.40   | 3694.04                                      | 6.98                  | 9.00                                 | 189.50                                     |
|         | 03/18/05    | 3767.30                                    | 72.41   | 79.25   | 3694.17                                      | 6.96                  | 10.00                                | 199.50                                     |
|         | 04/07/05    | 3767.30                                    | 72.47   | 79.32   | 3694.06                                      | 6.92                  | 9.00                                 | 208.50                                     |
|         | 05/18/05    | 3767.30                                    | 72.49   | 79.38   | 3694.00                                      | 6.91                  | 8.00                                 | 216.50                                     |
|         | 05/23/05    | 3767.30                                    | 72.53   | 79.40   | 3693.98                                      | 6.87                  | 14.00                                | 230.50                                     |
|         | 05/28/05    | 3767.30                                    | 72.56   | 79.34   | 3693.95                                      | 6.78                  | 8.00                                 | 238.50                                     |
|         | 06/01/05    | 3767.30                                    | 72.55   | 79.40   | 3693.93                                      | 6.85                  | 8.00                                 | 246.50                                     |
|         | 06/07/05    | 3767.30                                    | 72.59   | 79.20   | 3693.92                                      | 6.61                  | 8.00                                 | 254.50                                     |
|         | 06/13/05    | 3767.30                                    | 72.55   | 79.39   | 3693.93                                      | 6.83                  | 7.00                                 | 261.50                                     |
|         | 06/20/05    | 3767.30                                    | 72.58   | 79.35   | 3693.89                                      | 6.95                  | 9.00                                 | 270.50                                     |
|         | 06/27/05    | 3767.30                                    | 72.58   | 79.53   | 3693.91                                      | 6.73                  | 6.00                                 | 276.50                                     |
|         | 07/01/05    | 3767.30                                    | 72.60   | 79.40   | 3693.88                                      | 6.80                  | 7.00                                 | 283.50                                     |
|         | 07/08/05    | 3767.30                                    | 72.66   | 79.27   | 3693.85                                      | 6.61                  | 8.00                                 | 291.50                                     |
|         | 07/12/05    | 3767.30                                    | 72.61   | 79.42   | 3693.87                                      | 6.81                  | 8.00                                 | 299.50                                     |
|         | 07/19/05    | 3767.30                                    | 72.62   | 79.28   | 3693.88                                      | 6.66                  | 8.00                                 | 307.50                                     |
|         | 07/26/05    | 3767.30                                    | 72.64   | 79.44   | 3693.84                                      | 6.80                  | 9.00                                 | 316.50                                     |
|         | 08/02/05    | 3767.30                                    | 71.69   | 79.33   | 3694.69                                      | 7.64                  | 8.00                                 | 324.50                                     |
|         | 08/09/05    | 3767.30                                    | 72.68   | 79.48   | 3693.80                                      | 6.80                  | 10.00                                | 334.50                                     |
|         | 08/16/05    | 3767.30                                    | 72.68   | 79.35   | 3693.81                                      | 6.66                  | 8.00                                 | 342.50                                     |
|         | 08/23/05    | 3767.30                                    | 72.73   | 79.49   | 3693.80                                      | 6.81                  | 10.00                                | 352.50                                     |
|         | 08/30/05    | 3767.30                                    | 72.73   | 79.37   | 3693.77                                      | 6.64                  | 10.00                                | 362.50                                     |
|         | 09/06/05    | 3767.30                                    | 72.75   | 79.74   | 3693.73                                      | 7.01                  | 10.00                                | 372.50                                     |
|         | 09/13/05    | 3767.30                                    | 72.75   | 79.42   | 3693.75                                      | 6.80                  | 10.00                                | 382.50                                     |
|         | 09/20/05    | 3767.30                                    | 72.75   | 79.55   | 3693.73                                      | 6.80                  | 10.00                                | 392.50                                     |
|         | 09/27/05    | 3767.30                                    | 72.79   | 79.45   | 3693.71                                      | 6.66                  | 10.00                                | 402.50                                     |



TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NIMCO REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet)* | PSH<br>THICKNESS (in) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---|---|---|---|-----------------------|--------------------------------------|--|
| MW-1    | 08/09/05    | 3767.30                                     | 72.77   | 79.56   | 3693.72                                       | 6.79                  | 10.00                                | 452.50                                     |
|         | 08/11/05    | 3767.30                                     | 72.81   | 79.46   | 3693.69                                       | 6.65                  | 10.00                                | 462.50                                     |
|         | 08/16/05    | 3767.30                                     | 72.79   | 79.60   | 3693.69                                       | 6.81                  | 10.00                                | 472.50                                     |
|         | 08/18/05    | 3767.30                                     | 72.81   | 79.47   | 3693.69                                       | 6.66                  | 10.00                                | 482.50                                     |
|         | 08/24/05    | 3767.30                                     | 72.82   | 79.64   | 3693.66                                       | 6.82                  | 10.00                                | 492.50                                     |
|         | 08/26/05    | 3767.30                                     | 72.85   | 79.52   | 3693.65                                       | 6.67                  | 10.00                                | 502.50                                     |
|         | 08/30/05    | 3767.30                                     | 72.83   | 79.63   | 3693.65                                       | 6.80                  | 10.00                                | 512.50                                     |
|         | 09/01/05    | 3767.30                                     | 72.83   | 79.43   | 3693.68                                       | 6.60                  | 10.00                                | 522.50                                     |
|         | 09/06/05    | 3767.30                                     | 72.78   | 79.58   | 3693.70                                       | 6.80                  | 9.00                                 | 531.50                                     |
|         | 09/08/05    | 3767.30                                     | 72.82   | 79.45   | 3693.68                                       | 6.63                  | 10.00                                | 541.50                                     |
|         | 09/13/05    | 3767.30                                     | 72.81   | 79.62   | 3693.67                                       | 6.81                  | 10.00                                | 551.50                                     |
|         | 09/20/05    | 3767.30                                     | 72.84   | 79.58   | 3693.65                                       | 6.74                  | 9.00                                 | 560.50                                     |
|         | 09/23/05    | 3767.30                                     | 72.85   | 79.62   | 3693.64                                       | 6.77                  | 10.00                                | 570.50                                     |
|         | 09/27/05    | 3767.30                                     | 72.88   | 79.62   | 3693.61                                       | 6.74                  | 10.00                                | 580.50                                     |
|         | 09/29/05    | 3767.30                                     | 72.91   | 79.57   | 3693.59                                       | 6.66                  | 10.00                                | 590.50                                     |
|         | 10/04/05    | 3767.30                                     | 72.91   | 79.70   | 3693.58                                       | 6.79                  | 9.00                                 | 609.50                                     |
|         | 10/06/05    | 3767.30                                     | 72.93   | 79.71   | 3693.63                                       | 6.07                  | 9.00                                 | 618.50                                     |
|         | 10/11/05    | 3767.30                                     | 72.95   | 79.65   | 3693.56                                       | 6.78                  | 10.00                                | 628.50                                     |
|         | 10/13/05    | 3767.30                                     | 72.94   | 79.74   | 3693.54                                       | 6.70                  | 10.00                                | 638.50                                     |
|         | 10/18/05    | 3767.30                                     | 72.96   | 79.76   | 3693.50                                       | 6.80                  | 9.00                                 | 647.50                                     |
|         | 10/21/05    | 3767.30                                     | 72.99   | 79.77   | 3693.52                                       | 6.77                  | 11.00                                | 658.50                                     |
|         | 10/28/05    | 3767.30                                     | 72.99   | 79.69   | 3693.51                                       | 6.81                  | 10.00                                | 668.50                                     |
|         | 11/01/05    | 3767.30                                     | 73.02   | 79.80   | 3693.47                                       | 6.70                  | 9.00                                 | 677.50                                     |
|         | 11/04/05    | 3767.30                                     | 73.03   | 79.81   | 3693.46                                       | 6.78                  | 9.00                                 | 686.50                                     |
|         | 11/09/05    | 3767.30                                     | 73.06   | 79.86   | 3693.42                                       | 6.78                  | 7.00                                 | 693.50                                     |
|         | 11/11/05    | 3767.30                                     | 73.08   | 79.87   | 3693.41                                       | 6.80                  | 10.00                                | 703.50                                     |
|         | 11/18/05    | 3767.30                                     | 73.01   | 79.76   | 3693.40                                       | 6.79                  | 9.00                                 | 712.50                                     |
|         | 11/22/05    | 3767.30                                     | 73.09   | 79.88   | 3693.48                                       | 6.75                  | 9.00                                 | 721.50                                     |
|         | 11/30/05    | 3767.30                                     | 73.11   | 79.11   | 3693.47                                       | 6.79                  | 9.00                                 | 730.50                                     |
|         | 12/02/05    | 3767.30                                     | 73.14   | 79.82   | 3693.47                                       | 6.00                  | 10.00                                | 739.50                                     |
|         | 12/06/05    | 3767.30                                     | 73.10   | 79.88   | 3693.36                                       | 6.68                  | 10.00                                | 749.50                                     |
|         | 12/14/05    | 3767.30                                     | 73.14   | 79.91   | 3693.39                                       | 6.78                  | 9.00                                 | 759.50                                     |
|         | 12/18/05    | 3767.30                                     | 73.19   | 79.79   | 3693.35                                       | 6.77                  | 10.00                                | 768.50                                     |
|         | 12/21/05    | 3767.30                                     | 73.15   | 79.94   | 3693.32                                       | 6.60                  | 9.00                                 | 778.50                                     |
|         | 12/23/05    | 3767.30                                     | 73.23   | 79.77   | 3693.34                                       | 6.79                  | 11.00                                | 788.50                                     |
|         | 12/30/05    | 3767.30                                     | 73.30   | 79.94   | 3693.29                                       | 6.54                  | 10.00                                | 798.50                                     |
|         | 01/03/06    | 3767.30                                     | 73.23   | 79.93   | 3693.20                                       | 6.64                  | 10.00                                | 808.50                                     |
|         | 01/05/06    | 3767.30                                     | 73.23   | 79.97   | 3693.27                                       | 6.70                  | 10.00                                | 818.50                                     |
|         | 01/11/06    | 3767.30                                     | 73.22   | 79.81   | 3693.26                                       | 6.74                  | 10.00                                | 828.50                                     |
|         | 01/13/06    | 3767.30                                     | 73.23   | 79.97   | 3693.26                                       | 6.59                  | 10.00                                | 838.50                                     |
|         | 01/18/06    | 3767.30                                     | 73.32   | 79.87   | 3693.19                                       | 6.74                  | 10.00                                | 848.50                                     |
|         | 01/20/06    | 3767.30                                     | 73.23   | 79.96   | 3693.26                                       | 6.55                  | 11.00                                | 858.50                                     |
|         | 01/24/06    | 3767.30                                     | 73.31   | 79.91   | 3693.20                                       | 6.73                  | 12.00                                | 869.50                                     |
|         | 01/26/06    | 3767.30                                     | 73.25   | 79.99   | 3693.24                                       | 6.60                  | 10.00                                | 881.50                                     |
|         | 02/02/06    | 3767.30                                     | 73.21   | 79.97   | 3693.28                                       | 6.74                  | 9.50                                 | 891.00                                     |
|         | 02/02/06    | 3767.30                                     | 73.23   | 79.97   | 3693.26                                       | 6.76                  | 9.00                                 | 901.00                                     |
|         | 02/08/06    | 3767.30                                     | 73.25   | 79.95   | 3693.25                                       | 6.74                  | 0.00                                 | 910.00                                     |
|         | 02/10/06    | 3767.30                                     | 73.23   | 79.94   | 3693.26                                       | 6.70                  | 8.00                                 | 918.00                                     |
|         |             |   |   |   |   | 6.71                  | 8.00                                 | 926.00                                     |



TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NMOCD REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet)* | PSH<br>THICKNESS (ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---|---|---|---|-----------------------|--------------------------------------|--|
| MW-1    | 02/14/06    | 3767.30                                     | 73.27   | 80.00   | 3693.22                                       | 6.73                  | 8.00                                 | 934.00                                     |
|         | 02/16/06    | 3767.30                                     | 73.30   | 80.03   | 3693.19                                       | 6.73                  | 8.00                                 | 942.00                                     |
|         | 02/21/06    | 3767.30                                     | 73.30   | 80.00   | 3693.20                                       | 6.70                  | 8.00                                 | 950.00                                     |
|         | 02/24/06    | 3767.30                                     | 73.32   | 80.00   | 3693.18                                       | 6.68                  | 8.00                                 | 958.00                                     |
|         | 02/28/06    | 3767.30                                     | 73.25   | 79.95   | 3693.25                                       | 6.70                  | 0.00                                 | 958.00                                     |
|         | 03/03/06    | 3767.30                                     | 73.27   | 79.99   | 3693.22                                       | 6.72                  | 7.00                                 | 965.00                                     |
|         | 03/06/06    | 3767.30                                     | 73.25   | 78.78   | 3693.39                                       | 5.53                  | 8.00                                 | 973.00                                     |
|         | 03/08/06    | 3767.30                                     | 73.32   | 79.81   | 3693.20                                       | 6.49                  | 7.00                                 | 980.00                                     |
|         | 03/15/06    | 3767.30                                     | 73.34   | 80.03   | 3693.16                                       | 6.69                  | 8.00                                 | 988.00                                     |
|         | 03/17/06    | 3767.30                                     | 73.25   | 79.89   | 3693.25                                       | 6.64                  | 9.00                                 | 997.00                                     |
|         | 03/20/06    | 3767.30                                     | 73.36   | 79.95   | 3693.15                                       | 6.59                  | 6.50                                 | 1003.50                                    |
|         | 03/21/06    | 3767.30                                     | 73.35   | 80.00   | 3693.11                                       | 6.65                  | 8.50                                 | 1012.00                                    |
|         | 03/30/06    | 3767.30                                     | 73.41   | 79.93   | 3693.12                                       | 6.52                  | 7.00                                 | 1019.00                                    |
|         | 04/04/06    | 3767.30                                     | 73.39   | 79.97   | 3693.13                                       | 6.58                  | 7.50                                 | 1026.50                                    |
|         | 04/07/06    | 3767.30                                     | 73.38   | 80.00   | 3693.12                                       | 6.62                  | 7.00                                 | 1033.50                                    |
|         | 04/12/06    | 3767.30                                     | 73.38   | 80.01   | 3693.11                                       | 6.63                  | 8.50                                 | 1042.00                                    |
|         | 04/14/06    | 3767.30                                     | 73.40   | 80.00   | 3693.11                                       | 6.60                  | 7.50                                 | 1049.50                                    |
|         | 04/18/06    | 3767.30                                     | 73.35   | 79.95   | 3693.16                                       | 6.60                  | 7.50                                 | 1057.00                                    |
|         | 04/21/06    | 3767.30                                     | 73.44   | 80.00   | 3693.07                                       | 6.56                  | 8.00                                 | 1065.00                                    |
|         | 04/26/06    | 3767.30                                     | 73.44   | 79.95   | 3693.17                                       | 6.61                  | 8.00                                 | 1073.00                                    |
|         | 04/28/06    | 3767.30                                     | 73.43   | 79.90   | 3693.09                                       | 6.47                  | 7.00                                 | 1080.00                                    |
|         | 05/04/06    | 3767.30                                     | 73.40   | 80.00   | 3693.11                                       | 6.60                  | 7.00                                 | 1087.00                                    |
|         | 05/05/06    | 3767.30                                     | 73.45   | 80.00   | 3693.06                                       | 6.55                  | 6.50                                 | 1093.50                                    |
|         | 05/10/06    | 3767.30                                     | 73.50   | 80.07   | 3693.01                                       | 6.57                  | 7.50                                 | 1101.00                                    |
|         | 05/12/06    | 3767.30                                     | 73.47   | 80.00   | 3693.05                                       | 6.53                  | 6.00                                 | 1107.00                                    |
|         | 05/16/06    | 3767.30                                     | 73.48   | 80.05   | 3693.03                                       | 6.51                  | 6.00                                 | 1113.00                                    |
|         | 05/18/06    | 3767.30                                     | 73.50   | 80.01   | 3693.02                                       | 6.51                  | 6.50                                 | 1119.50                                    |
|         | 05/23/06    | 3767.30                                     | 73.47   | 80.05   | 3693.04                                       | 6.59                  | 5.50                                 | 1125.00                                    |
|         | 05/26/06    | 3767.30                                     | 73.47   | 80.05   | 3693.04                                       | 6.58                  | 6.50                                 | 1131.50                                    |
|         | 06/01/06    | 3767.30                                     | 73.50   | 80.07   | 3693.01                                       | 6.57                  | 5.25                                 | 1136.75                                    |
|         | 06/01/06    | 3767.30                                     | 73.52   | 80.04   | 3693.00                                       | 6.52                  | 5.50                                 | 1142.25                                    |
|         | 06/06/06    | 3767.30                                     | 73.55   | 80.13   | 3692.96                                       | 6.58                  | 5.00                                 | 1147.25                                    |
|         | 06/09/06    | 3767.30                                     | 73.53   | 80.10   | 3692.98                                       | 6.57                  | 6.50                                 | 1153.75                                    |
|         | 06/13/06    | 3767.30                                     | 73.53   | 80.09   | 3692.98                                       | 6.56                  | 6.00                                 | 1159.75                                    |
|         | 06/16/06    | 3767.30                                     | 73.56   | 80.10   | 3692.96                                       | 6.54                  | 5.50                                 | 1165.25                                    |
|         | 06/20/06    | 3767.30                                     | 73.56   | 80.10   | 3692.96                                       | 6.54                  | 0                                    | 1165.25                                    |
|         | 06/23/06    | 3767.30                                     | 73.53   | 80.10   | 3692.98                                       | 6.57                  | 5.50                                 | 1170.75                                    |
|         | 06/30/06    | 3767.30                                     | 73.6  | 80.15   | 3692.91                                       | 6.55                  | 9.00                                 | 1179.75                                    |
|         | 07/07/06    | 3767.30                                     | 73.59   | 80.11   | 3692.93                                       | 6.52                  | 0.00                                 | 1179.75                                    |
|         | 07/07/06    | 3767.30                                     | 73.6  | 80.15   | 3692.91                                       | 6.55                  | 8.50                                 | 1188.25                                    |
|         | 07/11/06    | 3767.30                                     | 73.64   | 80.17   | 3692.89                                       | 6.38                  | 9.00                                 | 1197.25                                    |
|         | 07/13/06    | 3767.30                                     | 73.63   | 80.17   | 3692.89                                       | 6.38                  | 7.50                                 | 1204.75                                    |
|         | 07/18/06    | 3767.30                                     | 73.69   | 80.07   | 3692.84                                       | 6.38                  | 7.00                                 | 1211.75                                    |
|         | 07/21/06    | 3767.30                                     | 73.66   | 80.19   | 3692.86                                       | 6.53                  | 8.00                                 | 1219.75                                    |
|         | 07/25/06    | 3767.30                                     | 73.65   | 80.14   | 3692.87                                       | 6.49                  | 0.00                                 | 1219.75                                    |
|         | 07/25/06    | 3767.30                                     | 73.68   | 80.23   | 3692.83                                       | 6.55                  | 7.50                                 | 1227.25                                    |
|         | 07/27/06    | 3767.30                                     | 73.7  | 80.10   | 3692.83                                       | 6.40                  | 8.00                                 | 1235.25                                    |
|         | 08/01/06    | 3767.30                                     | 73.7  | 80.23   | 3692.81                                       | 6.52                  | 7.50                                 | 1242.75                                    |
|         | 08/03/06    | 3767.30                                     | 73.75   | 80.14   | 3692.78                                       | 6.39                  | 5.00                                 | 1247.75                                    |
|         | 08/09/06    | 3767.30                                     | 73.73   | 80.26   | 3692.79                                       | 6.53                  | 7.50                                 | 1255.25                                    |
|         | 08/11/06    | 3767.30                                     | 73.77   | 80.17   | 3692.76                                       | 6.40                  | 5.00                                 | 1260.25                                    |





TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NMOCD REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing Elevation (Feet) | Depth to PSH Below Top of Casing (Feet) | Depth to Water Below Top of Casing (Feet) | Adjusted Potentiometric Surface (Feet) | PSH THICKNESS (in) | PSH Volume Recovered (gallons) | PSH Cumulative Recovery (gallons) |
|---------|-------------|---|---|---|--|--------------------|--------------------------------|-----------------------------------|
| MW-1    | 08/15/06    | 3767.30                                 | 73.77                                   | 80.29                                     | 3692.75                                | 6.52               | 7.00                           | 1267.25                           |
|         | 08/18/06    | 3767.30                                 | 73.48                                   | 80.28                                     | 3693.00                                | 6.80               | 4.50                           | 1271.75                           |
|         | 08/25/06    | 3767.30                                 | 73.81                                   | 80.32                                     | 3692.71                                | 6.51               | 0.00                           | 1271.75                           |
|         | 08/30/06    | 3767.30                                 | NM                                      | NM  | NM                                     | 0.00               | 0.00                           | 1271.75                           |
|         | 09/12/06    | 3767.30                                 | NM                                      | NM  | NM                                     | 0.00               | 0.00                           | 1271.75                           |
|         | 09/15/06    | 3767.30                                 | NM                                      | NM  | NM                                     | 0.00               | 0.00                           | 1271.75                           |
|         | 09/20/06    | 3767.30                                 | NM                                      | NM  | NM                                     | 0.00               | 0.00                           | 1271.75                           |
|         | 09/26/06    | 3767.30                                 | NM                                      | NM  | NM                                     | 0.00               | 0.00                           | 1271.75                           |
|         | 09/28/06    | 3767.30                                 | NM                                      | NM  | NM                                     | 0.00               | 0.00                           | 1271.75                           |
|         | 10/04/06    | 3767.30                                 | NM                                      | NM  | NM                                     | 0.00               | 0.00                           | 1271.75                           |
|         | 10/06/06    | 3767.30                                 | 79.04                                   | 85.64                                     | 3687.47                                | 6.60               | 6.00                           | 1277.75                           |
|         | 10/12/06    | 3767.30                                 | 79.07                                   | 85.64                                     | 3687.44                                | 6.57               | 6.00                           | 1283.75                           |
|         | 10/17/06    | 3767.30                                 | 79.1                                    | 85.65                                     | 3687.41                                | 6.55               | 6.00                           | 1289.75                           |
|         | 10/20/06    | 3767.30                                 | 79.6                                    | 85.60                                     | 3686.98                                | 6.00               | 0.00                           | 1289.75                           |
|         | 10/24/06    | 3767.30                                 | 79.05                                   | 85.60                                     | 3687.46                                | 6.55               | 0.00                           | 1289.75                           |
|         | 10/26/06    | 3767.30                                 | 79.6                                    | 85.64                                     | 3686.98                                | 6.04               | 0.00                           | 1289.75                           |
|         | 11/22/06    | 3767.30                                 | 79.18                                   | 85.78                                     | 3687.33                                | 6.60               | 5.50                           | 1295.25                           |
|         | 12/06/06    | 3767.30                                 | 79.21                                   | 85.83                                     | 3687.30                                | 6.62               | 5.75                           | 1301.00                           |
|         | 12/08/06    | 3767.30                                 | 79.3                                    | 85.87                                     | 3687.21                                | 6.57               | 6.00                           | 1307.00                           |
|         | 12/08/06    | 3767.30                                 | 79.6                                    | 85.6                                      | 3686.98                                | 6.00               | 5.00                           | 1312.00                           |
|         | 12/12/06    | 3767.30                                 | 80.33                                   | 88.8                                      | 3686.95                                | 8.47               | 5.55                           | 1317.55                           |
|         | 12/15/06    | 3767.30                                 | 79.28                                   | 85.79                                     | 3687.24                                | 6.51               | 5.50                           | 1323.05                           |
|         | 12/15/06    | 3767.30                                 | 78.78                                   | 78.88                                     | 3688.51                                | 0.10               | 0.00                           | 1323.05                           |
|         | 12/22/06    | 3767.30                                 | 79.34                                   | 85.87                                     | 3687.18                                | 6.53               | 0.00                           | 1323.05                           |
|         | 12/27/06    | 3767.30                                 | 79.35                                   | 85.92                                     | 3687.16                                | 6.57               | 0.00                           | 1323.05                           |
|         | 01/03/07    | 3767.30                                 | 79.38                                   | 85.97                                     | 3687.13                                | 6.59               | 0.00                           | 1323.05                           |
|         | 01/05/07    | 3767.30                                 | 79.38                                   | 85.91                                     | 3687.14                                | 6.53               | 0.00                           | 1323.05                           |
|         | 01/12/07    | 3767.30                                 | 79.46                                   | 86.04                                     | 3687.06                                | 6.58               | 6.00                           | 1329.05                           |
|         | 01/15/07    | 3767.30                                 | 79.46                                   | 85.92                                     | 3687.06                                | 6.46               | 0.00                           | 1329.05                           |
|         | 01/18/07    | 3767.30                                 | 79.43                                   | 85.96                                     | 3687.09                                | 6.53               | 5.00                           | 1334.05                           |
|         | 01/31/07    | 3767.30                                 | 79.4                                    | 86  | 3687.11                                | 6.60               | 0.00                           | 1334.05                           |
|         | 02/07/07    | 3767.30                                 | 79.3                                    | 85.85                                     | 3687.21                                | 6.55               | 5.00                           | 1339.05                           |
|         | 02/09/07    | 3767.30                                 | 79.5                                    | 85.85                                     | 3687.04                                | 6.35               | 5.00                           | 1344.05                           |
|         | 02/13/07    | 3767.30                                 | 79.48                                   | 85.96                                     | 3687.04                                | 6.48               | 6.00                           | 1350.05                           |
|         | 02/16/07    | 3767.30                                 | 79.44                                   | 85.91                                     | 3687.08                                | 6.47               | 8.50                           | 1358.55                           |
|         | 02/19/07    | 3767.30                                 | 79.41                                   | 85.86                                     | 3687.12                                | 6.45               | 8.50                           | 1367.05                           |
|         | 02/21/07    | 3767.30                                 | 79.5                                    | 85.67                                     | 3687.06                                | 6.17               | 6.00                           | 1373.05                           |
|         | 02/26/07    | 3767.30                                 | 79.5                                    | 85.97                                     | 3687.02                                | 6.47               | 5.00                           | 1378.05                           |
|         | 03/01/07    | 3767.30                                 | 79.47                                   | 85.87                                     | 3687.06                                | 6.40               | 7.00                           | 1385.05                           |
|         | 03/06/07    | 3767.30                                 | 79.41                                   | 85.89                                     | 3687.11                                | 6.48               | 0.00                           | 1385.05                           |
|         | 03/09/07    | 3767.30                                 | 79.47                                   | 85.94                                     | 3687.05                                | 6.47               | 0.00                           | 1385.05                           |
|         | 03/13/07    | 3767.30                                 | 79.46                                   | 85.97                                     | 3687.06                                | 6.51               | 7.50                           | 1392.55                           |
|         | 03/23/07    | 3767.30                                 | 79.49                                   | 85.96                                     | 3687.03                                | 6.47               | 0.00                           | 1392.55                           |
|         | 03/27/07    | 3767.30                                 | 79.48                                   | 85.98                                     | 3693.22                                | 6.50               | 0.00                           | 1392.55                           |
|         | 03/29/07    | 3767.30                                 | 79.38                                   | 85.87                                     | 3693.32                                | 6.49               | 0.00                           | 1392.55                           |
|         | 04/06/07    | 3767.30                                 | 79.52                                   | 86.03                                     | 3693.18                                | 6.51               | 0.00                           | 1392.55                           |
|         | 04/11/07    | 3767.30                                 | 79.5                                    | 86.01                                     | 3693.20                                | 6.51               | 0.00                           | 1392.55                           |
|         | 04/17/07    | 3767.30                                 | 79.51                                   | 86.03                                     | 3693.19                                | 6.52               | 7.00                           | 1399.55                           |
|         | 04/19/07    | 3767.30                                 | 79.55                                   | 85.79                                     | 3693.18                                | 6.24               | 6.00                           | 1405.55                           |
|         | 04/24/07    | 3767.30                                 | 79.49                                   | 85.95                                     | 3693.21                                | 6.46               | 5.00                           | 1410.55                           |
|         | 05/01/07    | 3767.30                                 | 79.51                                   | 86.02                                     | 3693.19                                | 6.51               | 0.00                           | 1410.55                           |
|         | 05/21/07    | 3767.30                                 | 79.51                                   | 86.02                                     | 3693.19                                | 6.51               | 0.00                           | 1410.55                           |
|         | 05/24/07    | 3767.30                                 | 79.51                                   | 86.11                                     | 3693.09                                | 6.50               | 5.00                           | 1415.55                           |
|         | 06/19/07    | 3767.30                                 | 79.65                                   | 86.18                                     | 3693.06                                | 6.53               | 0.00                           | 1415.55                           |
|         | 06/28/07    | 3767.30                                 | 79.68                                   | 86.22                                     | 3693.02                                | 6.54               | 0.00                           | 1415.55                           |
|         | 08/07/07    | 3767.30                                 | 79.61                                   | 86.16                                     | 3693.09                                | 6.55               | 6.00                           | 1421.55                           |
|         | 08/17/07    | 3767.30                                 | 79.67                                   | 86.21                                     | 3693.03                                | 6.54               | 6.00                           | 1427.55                           |
|         | 08/23/07    | 3767.30                                 | 79.67                                   | 86.18                                     | 3693.03                                | 6.51               | 8.75                           | 1436.30                           |
|         | 08/31/07    | 3767.30                                 | 79.71                                   | 86.22                                     | 3692.99                                | 6.51               | 6.00                           | 1442.30                           |
|         | 09/20/07    | 3767.30                                 | 79.76                                   | 86.31                                     | 3692.94                                | 6.55               | 0.00                           | 1442.30                           |
|         | 09/21/07    | 3767.30                                 | 79.79                                   | 86.36                                     | 3692.90                                | 6.57               | 6.50                           | 1448.80                           |
|         | 10/11/07    | 3767.30                                 | 79.82                                   | 86.39                                     | 3692.87                                | 6.57               | 6.00                           | 1454.80                           |
|         | 10/18/07    | 3767.30                                 | 79.85                                   | 86.38                                     | 3692.84                                | 6.52               | 6.00                           | 1460.80                           |
|         | 11/27/07    | 3767.30                                 | 79.99                                   | 86.64                                     | 3692.70                                | 6.65               | 0.00                           | 1460.80                           |
|         | 12/17/07    | 3767.30                                 | 80.04                                   | 86.70                                     | 3692.64                                | 6.66               | 0.00                           | 1460.80                           |
|         | 12/28/07    | 3767.30                                 | 80.11                                   | 86.79                                     | 3692.57                                | 6.68               | 0.00                           | 1460.80                           |
|         | 12/31/07    | 3767.30                                 | 80.14                                   | 86.83                                     | 3692.54                                | 6.69               | 6.00                           | 1466.80                           |



TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NMOC REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet) | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet) | PSH<br>THICKNESS (in) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|--|---|---|--|-----------------------|--------------------------------------|--|
| RW-2    | 10/29/04    | 3771.04                                    | N.D.  | 76.67   | 3694.37                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/04/04    | 3771.04                                    | N.D.  | 76.79   | 3694.25                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/10/04    | 3771.04                                    | N.D.  | 76.84   | 3694.20                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/17/04    | 3771.04                                    | N.D.  | 76.89   | 3694.15                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/24/04    | 3771.04                                    | N.D.  | 76.97   | 3694.07                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/02/04    | 3771.04                                    | N.D.  | 76.91   | 3694.13                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/08/04    | 3771.04                                    | N.D.  | 76.79   | 3694.25                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/15/04    | 3771.04                                    | N.D.  | 76.81   | 3694.23                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/27/04    | 3771.04                                    | N.D.  | 77.00   | 3694.04                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/29/04    | 3771.04                                    | N.D.  | 77.01   | 3694.03                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/06/05    | 3771.04                                    | N.D.  | 77.02   | 3694.02                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/13/05    | 3771.04                                    | N.D.  | 77.09   | 3693.95                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/26/05    | 3771.04                                    | N.D.  | 77.06   | 3693.98                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/02/05    | 3771.04                                    | N.D.  | 77.09   | 3693.95                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/09/05    | 3771.04                                    | N.D.  | 78.08   | 3692.96                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/16/05    | 3771.04                                    | N.D.  | 77.13   | 3693.91                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/24/05    | 3771.04                                    | N.D.  | 77.09   | 3693.95                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/03/05    | 3771.04                                    | N.D.  | 77.11   | 3693.93                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/11/05    | 3771.04                                    | N.D.  | 77.15   | 3693.89                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/18/05    | 3771.04                                    | N.D.  | 77.10   | 3693.94                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/31/05    | 3771.04                                    | N.D.  | 77.11   | 3693.93                                      | 0.00                  | N/A                                  | N/A  |
|         | 04/07/05    | 3771.04                                    | N.D.  | 77.14   | 3693.90                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/18/05    | 3771.04                                    | N.D.  | 77.17   | 3693.87                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/23/05    | 3771.04                                    | N.D.  | 79.40   | 3691.64                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/07/05    | 3771.04                                    | N.D.  | 77.22   | 3693.82                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/03/05    | 3771.04                                    | N.D.  | 77.25   | 3693.79                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/07/05    | 3771.04                                    | N.D.  | 77.25   | 3693.79                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/10/05    | 3771.04                                    | N.D.  | 77.24   | 3693.80                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/13/05    | 3771.04                                    | N.D.  | 77.27   | 3693.77                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/16/05    | 3771.04                                    | N.D.  | 77.25   | 3693.79                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/20/05    | 3771.04                                    | N.D.  | 77.29   | 3693.75                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/22/05    | 3771.04                                    | N.D.  | 77.29   | 3693.75                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/23/05    | 3771.04                                    | N.D.  | 77.29   | 3693.75                                      | 0.00                  | N/A                                  | N/A  |



TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NMOCD REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet) | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet) | PSH<br>THICKNESS (in) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|--|---|---|--|-----------------------|--------------------------------------|--|
| MW-2    | 07/01/05    | 3771.04                                    | N.D.  | 77.30   | 3693.74                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/06/05    | 3771.04                                    | N.D.  | 77.31   | 3693.73                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/08/05    | 3771.04                                    | N.D.  | 77.32   | 3693.72                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/12/05    | 3771.04                                    | N.D.  | 77.34   | 3693.70                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/14/05    | 3771.04                                    | N.D.  | 77.33   | 3693.71                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/19/05    | 3771.04                                    | N.D.  | 77.36   | 3693.68                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/21/05    | 3771.04                                    | N.D.  | 77.38   | 3693.66                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/26/05    | 3771.04                                    | N.D.  | 77.40   | 3693.64                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/28/05    | 3771.04                                    | N.D.  | 77.42   | 3693.62                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/02/05    | 3771.04                                    | N.D.  | 77.43   | 3693.61                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/04/05    | 3771.04                                    | N.D.  | 77.44   | 3693.60                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/09/05    | 3771.04                                    | N.D.  | 77.45   | 3693.59                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/11/05    | 3771.04                                    | N.D.  | 77.47   | 3693.57                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/16/05    | 3771.04                                    | N.D.  | 77.47   | 3693.57                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/24/05    | 3771.04                                    | N.D.  | 77.50   | 3693.54                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/26/05    | 3771.04                                    | N.D.  | 77.50   | 3693.54                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/30/05    | 3771.04                                    | N.D.  | 77.47   | 3693.57                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/01/05    | 3771.04                                    | N.D.  | 77.44   | 3693.60                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/06/05    | 3771.04                                    | N.D.  | 77.44   | 3693.60                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/08/05    | 3771.04                                    | N.D.  | 77.44   | 3693.60                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/13/05    | 3771.04                                    | N.D.  | 77.47   | 3693.57                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/16/05    | 3771.04                                    | N.D.  | 77.50   | 3693.54                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/20/05    | 3771.04                                    | N.D.  | 77.52   | 3693.52                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/23/05    | 3771.04                                    | N.D.  | 77.52   | 3693.52                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/27/05    | 3771.04                                    | N.D.  | 77.54   | 3693.50                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/29/05    | 3771.04                                    | N.D.  | 77.56   | 3693.48                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/04/05    | 3771.04                                    | N.D.  | 77.57   | 3693.47                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/06/05    | 3771.04                                    | N.D.  | 77.60   | 3693.44                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/11/05    | 3771.04                                    | N.D.  | 77.60   | 3693.44                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/13/05    | 3771.04                                    | N.D.  | 77.61   | 3693.43                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/18/05    | 3771.04                                    | N.D.  | 77.61   | 3693.43                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/21/05    | 3771.04                                    | N.D.  | 77.65   | 3693.39                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/26/05    | 3771.04                                    | N.D.  | 77.63   | 3693.41                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/28/05    | 3771.04                                    | N.D.  | 77.64   | 3693.40                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/01/05    | 3771.04                                    | N.D.  | 77.69   | 3693.35                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/04/05    | 3771.04                                    | N.D.  | 77.69   | 3693.35                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/09/05    | 3771.04                                    | N.D.  | 77.73   | 3693.31                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/11/05    | 3771.04                                    | N.D.  | 77.73   | 3693.31                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/16/05    | 3771.04                                    | N.D.  | 77.78   | 3693.26                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/18/05    | 3771.04                                    | N.D.  | 77.78   | 3693.26                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/22/05    | 3771.04                                    | N.D.  | 77.77   | 3693.27                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/30/05    | 3771.04                                    | N.D.  | 77.80   | 3693.24                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/02/05    | 3771.04                                    | N.D.  | 77.79   | 3693.25                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/06/05    | 3771.04                                    | N.D.  | 77.88   | 3693.16                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/14/05    | 3771.04                                    | N.D.  | 77.83   | 3693.21                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/16/05    | 3771.04                                    | N.D.  | 77.81   | 3693.23                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/21/05    | 3771.04                                    | N.D.  | 77.81   | 3693.23                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/23/05    | 3771.04                                    | N.D.  | 77.85   | 3693.19                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/27/05    | 3771.04                                    | N.D.  | 77.85   | 3693.19                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/30/05    | 3771.04                                    | N.D.  | 77.71   | 3693.33                                      | 0.00                  | N/A                                  | N/A  |



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PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NMOC REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet) | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet) | PSH<br>THICKNESS (ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|--|---|---|--|-----------------------|--------------------------------------|--|
| MW-2    | 01/03/06    | 3771.04                                    | N.D.  | 77.90   | 3693.14                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/05/06    | 3771.04                                    | N.D.  | 77.87   | 3693.17                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/11/06    | 3771.04                                    | N.D.  | 77.91   | 3693.13                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/13/06    | 3771.04                                    | N.D.  | 77.86   | 3693.18                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/18/06    | 3771.04                                    | N.D.  | 77.90   | 3693.14                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/20/06    | 3771.04                                    | N.D.  | 77.91   | 3693.13                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/24/06    | 3771.04                                    | N.D.  | 78.92   | 3692.12                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/26/06    | 3771.04                                    | N.D.  | 78.90   | 3692.14                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/02/06    | 3771.04                                    | N.D.  | 77.87   | 3693.17                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/08/06    | 3771.04                                    | N.D.  | 77.91   | 3693.13                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/10/06    | 3771.04                                    | N.D.  | 77.90   | 3693.14                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/14/06    | 3771.04                                    | N.D.  | 77.93   | 3693.11                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/16/06    | 3771.04                                    | N.D.  | 77.94   | 3693.10                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/21/06    | 3771.04                                    | N.D.  | 77.95   | 3692.09                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/24/06    | 3771.04                                    | N.D.  | 77.95   | 3693.09                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/28/06    | 3771.04                                    | N.D.  | 77.93   | 3693.11                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/03/06    | 3771.04                                    | N.D.  | 77.92   | 3693.12                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/05/06    | 3771.04                                    | N.D.  | 77.90   | 3693.14                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/08/06    | 3771.04                                    | N.D.  | 77.95   | 3693.09                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/15/06    | 3771.04                                    | N.D.  | 77.98   | 3693.06                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/17/06    | 3771.04                                    | N.D.  | 78.08   | 3692.96                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/21/06    | 3771.04                                    | N.D.  | 77.95   | 3693.09                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/23/06    | 3771.04                                    | N.D.  | 77.86   | 3693.18                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/28/06    | 3771.04                                    | N.D.  | 77.89   | 3693.15                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/30/06    | 3771.04                                    | N.D.  | 77.86   | 3693.18                                      | 0.00                  | N/A                                  | N/A  |
|         | 04/04/06    | 3771.04                                    | N.D.  | 77.94   | 3693.10                                      | 0.00                  | N/A                                  | N/A  |
|         | 04/07/06    | 3771.04                                    | N.D.  | 78.00   | 3693.04                                      | 0.00                  | N/A                                  | N/A  |
|         | 04/12/06    | 3771.04                                    | N.D.  | 78.00   | 3693.04                                      | 0.00                  | N/A                                  | N/A  |
|         | 04/14/06    | 3771.04                                    | N.D.  | 78.01   | 3693.03                                      | 0.00                  | N/A                                  | N/A  |
|         | 04/18/06    | 3771.04                                    | N.D.  | 77.99   | 3693.05                                      | 0.00                  | N/A                                  | N/A  |
|         | 04/21/06    | 3771.04                                    | N.D.  | 78.04   | 3693.00                                      | 0.00                  | N/A                                  | N/A  |
|         | 04/26/06    | 3771.04                                    | N.D.  | 78.00   | 3693.04                                      | 0.00                  | N/A                                  | N/A  |
|         | 04/28/06    | 3771.04                                    | N.D.  | 78.04   | 3693.00                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/04/06    | 3771.04                                    | N.D.  | 78.04   | 3693.00                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/05/06    | 3771.04                                    | N.D.  | 78.05   | 3692.99                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/10/06    | 3771.04                                    | N.D.  | 78.10   | 3692.94                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/12/06    | 3771.04                                    | N.D.  | 78.08   | 3692.96                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/16/06    | 3771.04                                    | N.D.  | 78.08   | 3692.96                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/18/06    | 3771.04                                    | N.D.  | 78.09   | 3692.95                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/23/06    | 3771.04                                    | N.D.  | 78.10   | 3692.94                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/26/06    | 3771.04                                    | N.D.  | 78.10   | 3692.94                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/30/06    | 3771.04                                    | N.D.  | 78.13   | 3692.91                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/01/06    | 3771.04                                    | N.D.  | 78.13   | 3692.91                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/06/06    | 3771.04                                    | N.D.  | 78.15   | 3692.89                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/09/06    | 3771.04                                    | N.D.  | 78.13   | 3692.91                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/13/06    | 3771.04                                    | N.D.  | 78.15   | 3692.89                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/16/06    | 3771.04                                    | N.D.  | 78.17   | 3692.87                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/20/06    | 3771.04                                    | N.D.  | 78.17   | 3692.87                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/23/06    | 3771.04                                    | N.D.  | 78.15   | 3692.89                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/27/06    | 3771.04                                    | N.D.  | 78.20   | 3692.84                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/30/06    | 3771.04                                    | N.D.  | 78.19   | 3692.85                                      | 0.00                  | N/A                                  | N/A  |



TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NMOCD REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet)* | PSH<br>THICKNESS (in) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---|---|---|---|-----------------------|--------------------------------------|--|
| MW-2    | 07/05/06    | 3771.04                                     | N.D.  | 78.21   | 3692.83                                       | 0.00                  | N/A                                  | N/A  |
|         | 07/07/06    | 3771.04                                     | N.D.  | 78.22   | 3692.82                                       | 0.00                  | N/A                                  | N/A  |
|         | 07/11/06    | 3771.04                                     | N.D.  | 78.24   | 3692.80                                       | 0.00                  | N/A                                  | N/A  |
|         | 07/13/06    | 3771.04                                     | N.D.  | 78.25   | 3692.79                                       | 0.00                  | N/A                                  | N/A  |
|         | 07/18/06    | 3771.04                                     | N.D.  | 78.26   | 3692.78                                       | 0.00                  | N/A                                  | N/A  |
|         | 07/21/06    | 3771.04                                     | N.D.  | 78.25   | 3692.79                                       | 0.00                  | N/A                                  | N/A  |
|         | 07/25/06    | 3771.04                                     | N.D.  | 78.29   | 3692.75                                       | 0.00                  | N/A                                  | N/A  |
|         | 07/27/06    | 3771.04                                     | N.D.  | 78.30   | 3692.74                                       | 0.00                  | N/A                                  | N/A  |
|         | 08/01/06    | 3771.04                                     | N.D.  | 78.34   | 3692.70                                       | 0.00                  | N/A                                  | N/A  |
|         | 08/03/06    | 3771.04                                     | N.D.  | 78.36   | 3692.68                                       | 0.00                  | N/A                                  | N/A  |
|         | 08/08/06    | 3771.04                                     | N.D.  | 78.35   | 3692.69                                       | 0.00                  | N/A                                  | N/A  |
|         | 08/11/06    | 3771.04                                     | N.D.  | 78.36   | 3692.68                                       | 0.00                  | N/A                                  | N/A  |
|         | 08/15/06    | 3771.04                                     | N.D.  | 78.38   | 3692.66                                       | 0.00                  | N/A                                  | N/A  |
|         | 08/18/06    | 3771.04                                     | N.D.  | 78.40   | 3692.64                                       | 0.00                  | N/A                                  | N/A  |
|         | 08/25/06    | 3771.04                                     | N.D.  | 78.43   | 3692.61                                       | 0.00                  | N/A                                  | N/A  |
|         | 08/30/06    | 3771.04                                     | N.D.  | 78.45   | 3692.59                                       | 0.00                  | N/A                                  | N/A  |
|         | 09/12/06    | 3771.04                                     | 78.47   | 78.52   | 3692.56                                       | 0.05                  | N/A                                  | N/A  |
|         | 09/15/06    | 3771.04                                     | 78.48   | 78.55   | 3692.55                                       | 0.07                  | N/A                                  | N/A  |
|         | 09/20/06    | 3771.04                                     | 78.46   | 78.53   | 3692.57                                       | 0.12                  | N/A                                  | N/A  |
|         | 09/25/06    | 3771.04                                     | 78.49   | 78.65   | 3692.53                                       | 0.16                  | N/A                                  | N/A  |
|         | 09/29/06    | 3771.04                                     | 78.52   | 78.68   | 3692.50                                       | 0.16                  | N/A                                  | N/A  |
|         | 10/04/06    | 3771.04                                     | N.D.  | 78.53   | 3692.51                                       | 0.00                  | N/A                                  | N/A  |
|         | 10/06/06    | 3771.04                                     | 78.54   | 79.74   | 3692.36                                       | 1.20                  | 1.00                                 | 1.00                                       |
|         | 10/12/06    | 3771.04                                     | 78.56   | 78.77   | 3692.45                                       | 0.21                  | 0.00                                 | 1.00                                       |
|         | 10/17/06    | 3771.04                                     | 78.59   | 78.79   | 3692.43                                       | 0.20                  | 0.00                                 | 1.00                                       |
|         | 10/20/06    | 3771.04                                     | 78.57   | 78.78   | 3692.44                                       | 0.21                  | 0.00                                 | 1.00                                       |
|         | 10/24/06    | 3771.04                                     | 78.50   | 78.75   | 3692.51                                       | 0.25                  | 0.00                                 | 1.00                                       |
|         | 10/26/06    | 3771.04                                     | 78.56   | 78.78   | 3692.45                                       | 0.22                  | 0.00                                 | 1.00                                       |
|         | 11/22/06    | 3771.04                                     | 78.71   | 78.87   | 3692.31                                       | 0.14                  | 0.00                                 | 1.00                                       |
|         | 12/06/06    | 3771.04                                     | 78.73   | 78.87   | 3692.29                                       | 0.10                  | 0.00                                 | 1.00                                       |
|         | 12/12/06    | 3771.04                                     | 0.00  | 78.78   | 3692.22                                       | 0.10                  | 0.00                                 | 1.00                                       |
|         | 12/13/06    | 3771.04                                     | 78.78   | 78.84   | 3692.44                                       | 0.21                  | 0.00                                 | 1.00                                       |
|         | 12/15/06    | 3771.04                                     | 78.78   | 78.98   | 3692.31                                       | 0.00                  | 0.00                                 | 1.00                                       |
|         | 12/20/06    | 3771.04                                     | 79.28   | 85.81   | 3692.24                                       | 0.20                  | 0.00                                 | 1.00                                       |
|         | 12/22/06    | 3771.04                                     | 78.82   | 79.91   | 3692.09                                       | 6.53                  | 0.00                                 | 1.00                                       |
|         | 01/03/07    | 3771.04                                     | 78.84   | 78.96   | 3692.19                                       | 1.09                  | 0.00                                 | 1.00                                       |
|         | 01/03/07    | 3771.04                                     | 78.88   | 78.98   | 3692.15                                       | 0.10                  | 0.00                                 | 1.00                                       |
|         | 01/05/07    | 3771.04                                     | 78.89   | 78.96   | 3692.14                                       | 0.07                  | 0.00                                 | 1.00                                       |
|         | 01/12/07    | 3771.04                                     | 78.92   | 79.02   | 3692.11                                       | 0.10                  | 0.00                                 | 1.00                                       |
|         | 01/15/07    | 3771.04                                     | 78.92   | 79.04   | 3692.11                                       | 0.12                  | 0.00                                 | 1.00                                       |
|         | 01/18/07    | 3771.04                                     | 78.90   | 78.98   | 3692.13                                       | 0.08                  | 0.00                                 | 1.00                                       |
|         | 01/31/07    | 3771.04                                     | 78.90   | 78.98   | 3692.22                                       | 0.11                  | 0.00                                 | 1.00                                       |
|         | 02/07/07    | 3771.04                                     | 78.81   | 78.92   | 3692.06                                       | 0.12                  | 0.00                                 | 1.00                                       |
|         | 02/09/07    | 3771.04                                     | 78.87   | 79.09   | 3692.06                                       | 0.11                  | 0.00                                 | 1.00                                       |
|         | 02/13/07    | 3771.04                                     | 78.97   | 79.08   | 3692.06                                       | 0.14                  | 0.00                                 | 1.00                                       |
|         | 02/16/07    | 3771.04                                     | 78.91   | 79.05   | 3692.07                                       | 0.09                  | 0.00                                 | 1.00                                       |
|         | 02/19/07    | 3771.04                                     | 78.96   | 79.05   | 3692.06                                       | 0.12                  | 0.00                                 | 1.00                                       |
|         | 02/21/07    | 3771.04                                     | 78.97   | 79.09   | 3692.04                                       | 0.17                  | 0.00                                 | 1.00                                       |
|         | 02/26/07    | 3771.04                                     | 78.98   | 79.15   | 3692.04                                       | 0.12                  | 0.00                                 | 1.00                                       |
|         | 03/01/07    | 3771.04                                     | 78.97   | 79.09   | 3692.06                                       | 0.12                  | 0.00                                 | 1.00                                       |



TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NMOCD REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet) | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet) | PSH<br>THICKNESS (ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|--|---|---|--|-----------------------|--------------------------------------|--|
| MW-2    | 03/06/07    | 3771.04                                    | 78.94   | 79.04   | 3692.09                                      | 0.10                  | 0.00                                 | 1.00                                       |
|         | 03/09/07    | 3771.04                                    | 78.97   | 79.11   | 3692.05                                      | 0.14                  | 0.00                                 | 1.00                                       |
|         | 03/13/07    | 3771.04                                    | 78.96   | 85.97   | 3685.07                                      | 0.00                  | 0.00                                 | 1.00                                       |
|         | 03/23/07    | 3771.04                                    | 78.98   | 79.15   | 3692.04                                      | 0.17                  | 0.00                                 | 1.00                                       |
|         | 03/27/07    | 3772.07                                    | 78.97   | 79.15   | 3693.08                                      | 0.18                  | 0.00                                 | 1.00                                       |
|         | 04/06/07    | 3772.07                                    | 79.03   | 79.15   | 3693.03                                      | 0.12                  | 0.00                                 | 1.00                                       |
|         | 04/11/07    | 3772.07                                    | 79.03   | 79.17   | 3693.03                                      | 0.14                  | 0.00                                 | 1.00                                       |
|         | 04/17/07    | 3772.07                                    | 79.03   | 79.18   | 3693.03                                      | 0.15                  | 7.00                                 | 8.00                                       |
|         | 04/19/07    | 3772.07                                    | 79.02   | 79.18   | 3693.03                                      | 0.16                  | 0.00                                 | 8.00                                       |
|         | 04/24/07    | 3772.07                                    | 79.01   | 79.12   | 3693.05                                      | 0.11                  | 0.00                                 | 8.00                                       |
|         | 05/01/07    | 3772.07                                    | 79.07   | 79.27   | 3692.98                                      | 0.20                  | 0.00                                 | 8.00                                       |
|         | 05/21/07    | 3772.07                                    | 79.10   | 79.25   | 3692.96                                      | 0.15                  | 0.00                                 | 8.00                                       |
|         | 05/24/07    | 3772.07                                    | 79.11   | 79.13   | 3692.96                                      | 0.02                  | 0.00                                 | 8.00                                       |
|         | 06/19/07    | 3772.07                                    | 79.18   | 79.45   | 3692.86                                      | 0.27                  | 0.00                                 | 8.00                                       |
|         | 06/28/07    | 3772.07                                    | 79.22   | 79.40   | 3692.83                                      | 0.18                  | 0.00                                 | 8.00                                       |
|         | 08/07/07    | 3772.07                                    | 79.12   | 79.36   | 3692.93                                      | 0.24                  | 0.00                                 | 8.00                                       |
|         | 08/17/07    | 3772.07                                    | 79.24   | 79.45   | 3692.81                                      | 0.21                  | 0.00                                 | 8.00                                       |
|         | 08/23/07    | 3772.07                                    | 79.22   | 79.48   | 3692.82                                      | 0.26                  | 0.00                                 | 8.00                                       |
|         | 08/31/07    | 3772.07                                    | 79.25   | 79.52   | 3692.79                                      | 0.27                  | 0.00                                 | 8.00                                       |
|         | 09/20/07    | 3772.07                                    | 79.32   | 79.61   | 3692.72                                      | 0.29                  | 0.00                                 | 8.00                                       |
| MW-3    | 09/21/07    | 3772.07                                    | 79.36   | 79.66   | 3692.68                                      | 0.30                  | 0.00                                 | 8.00                                       |
|         | 10/11/07    | 3772.07                                    | 79.34   | 79.60   | 3692.70                                      | 0.26                  | 0.00                                 | 8.00                                       |
|         | 10/18/07    | 3772.07                                    | 79.40   | 79.68   | 3692.64                                      | 0.28                  | 0.00                                 | 8.00                                       |
|         | 11/27/07    | 3772.07                                    | 79.52   | 79.79   | 3692.52                                      | 0.27                  | 0.00                                 | 8.00                                       |
|         | 12/17/07    | 3772.07                                    | 79.56   | 79.85   | 3692.48                                      | 0.29                  | 0.00                                 | 8.00                                       |
|         | 12/28/07    | 3772.07                                    | 79.66   | 79.96   | 3692.38                                      | 0.30                  | 0.00                                 | 8.00                                       |
|         | 12/31/08    | 3772.07                                    | 79.69   | 79.98   | 3692.35                                      | 0.29                  | 0.00                                 | 8.00                                       |
|         |             |  |   |   |  |                       |                                      |  |
|         | 10/25/04    | 3771.94                                    | N.D.  | 78.18   | 3693.76                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/04/04    | 3771.94                                    | N.D.  | 78.26   | 3693.68                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/10/04    | 3771.94                                    | N.D.  | 78.30   | 3693.64                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/17/04    | 3771.94                                    | N.D.  | 78.33   | 3693.61                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/24/04    | 3771.94                                    | N.D.  | 78.41   | 3693.53                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/02/04    | 3771.94                                    | N.D.  | 78.37   | 3693.57                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/08/04    | 3771.94                                    | N.D.  | 78.30   | 3693.64                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/15/04    | 3771.94                                    | N.D.  | 78.26   | 3693.68                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/27/04    | 3771.94                                    | N.D.  | 78.42   | 3693.52                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/06/05    | 3771.94                                    | N.D.  | 78.44   | 3693.50                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/13/05    | 3771.94                                    | N.D.  | 78.48   | 3693.46                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/19/05    | 3771.94                                    | N.D.  | 78.45   | 3693.49                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/26/05    | 3771.94                                    | N.D.  | 78.50   | 3693.44                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/02/05    | 3771.94                                    | N.D.  | 78.55   | 3693.39                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/09/05    | 3771.94                                    | N.D.  | 78.52   | 3693.42                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/16/05    | 3771.94                                    | N.D.  | 78.48   | 3693.46                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/24/05    | 3771.94                                    | N.D.  | 78.48   | 3693.46                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/03/05    | 3771.94                                    | N.D.  | 78.54   | 3693.40                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/10/05    | 3771.94                                    | N.D.  | 78.53   | 3693.41                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/18/05    | 3771.94                                    | N.D.  | 78.51   | 3693.43                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/21/05    | 3771.94                                    | N.D.  | 78.56   | 3693.38                                      | 0.00                  | N/A                                  | N/A  |
|         | 04/07/05    | 3771.94                                    | N.D.  | 78.54   | 3693.40                                      | 0.00                  | N/A                                  | N/A  |



**TABLE 1**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #2**  
**NMOCD REF. # 1R-0381**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10273**  
**Talon/LPE Project Number PLAINS008SPL**

| WELL ID | DATE GAUGED | Relative Top of Casing Elevation (Feet) | Depth to PSH Below Top of Casing (Feet) | Depth to Water Below Top of Casing (Feet) | Adjusted Potentiometric Surface (Feet) | PSH THICKNESS (ft) | PSH Volume Recovered (gallons) | PSH Cumulative Recovery (gallons) |
|---------|-------------|---|---|---|--|--------------------|--------------------------------|-----------------------------------|
| MW-3    | 05/18/05    | 3771.94                                 | N.D.                                    | 79.40                                     | 3692.54                                | 0.00               | N/A                            | N/A                               |
|         | 05/23/05    | 3771.94                                 | N.D.                                    | 79.40                                     | 3692.54                                | 0.00               | N/A                            | N/A                               |
|         | 06/01/05    | 3771.94                                 | N.D.                                    | 78.66                                     | 3693.28                                | 0.00               | N/A                            | N/A                               |
|         | 06/03/05    | 3771.94                                 | N.D.                                    | 78.65                                     | 3693.29                                | 0.00               | N/A                            | N/A                               |
|         | 06/07/05    | 3771.94                                 | N.D.                                    | 78.67                                     | 3693.27                                | 0.00               | N/A                            | N/A                               |
|         | 06/10/05    | 3771.94                                 | N.D.                                    | 78.60                                     | 3693.34                                | 0.00               | N/A                            | N/A                               |
|         | 06/13/05    | 3771.94                                 | N.D.                                    | 78.61                                     | 3693.33                                | 0.00               | N/A                            | N/A                               |
|         | 06/16/05    | 3771.94                                 | N.D.                                    | 78.61                                     | 3693.33                                | 0.00               | N/A                            | N/A                               |
|         | 06/20/05    | 3771.94                                 | N.D.                                    | 78.66                                     | 3693.28                                | 0.00               | N/A                            | N/A                               |
|         | 06/22/05    | 3771.94                                 | N.D.                                    | 78.66                                     | 3693.28                                | 0.00               | N/A                            | N/A                               |
|         | 06/29/05    | 3771.94                                 | N.D.                                    | 78.64                                     | 3693.30                                | 0.00               | N/A                            | N/A                               |
|         | 07/01/05    | 3771.94                                 | N.D.                                    | 78.67                                     | 3693.27                                | 0.00               | N/A                            | N/A                               |
|         | 07/06/05    | 3771.94                                 | N.D.                                    | 78.68                                     | 3693.26                                | 0.00               | N/A                            | N/A                               |
|         | 07/08/05    | 3771.94                                 | N.D.                                    | 78.70                                     | 3693.24                                | 0.00               | N/A                            | N/A                               |
|         | 07/12/05    | 3771.94                                 | N.D.                                    | 78.72                                     | 3693.22                                | 0.00               | N/A                            | N/A                               |
|         | 07/14/05    | 3771.94                                 | N.D.                                    | 78.71                                     | 3693.23                                | 0.00               | N/A                            | N/A                               |
|         | 07/19/05    | 3771.94                                 | N.D.                                    | 78.73                                     | 3693.21                                | 0.00               | N/A                            | N/A                               |
|         | 07/21/05    | 3771.94                                 | N.D.                                    | 78.75                                     | 3693.19                                | 0.00               | N/A                            | N/A                               |
|         | 07/26/05    | 3771.94                                 | N.D.                                    | 78.78                                     | 3693.16                                | 0.00               | N/A                            | N/A                               |
|         | 07/28/05    | 3771.94                                 | N.D.                                    | 78.78                                     | 3693.16                                | 0.00               | N/A                            | N/A                               |
|         | 08/02/05    | 3771.94                                 | N.D.                                    | 78.78                                     | 3693.16                                | 0.00               | N/A                            | N/A                               |
|         | 08/04/05    | 3771.94                                 | N.D.                                    | 78.80                                     | 3693.14                                | 0.00               | N/A                            | N/A                               |
|         | 08/09/05    | 3771.94                                 | N.D.                                    | 78.80                                     | 3693.14                                | 0.00               | N/A                            | N/A                               |
|         | 08/11/05    | 3771.94                                 | N.D.                                    | 78.81                                     | 3693.13                                | 0.00               | N/A                            | N/A                               |
|         | 08/16/05    | 3771.94                                 | N.D.                                    | 78.84                                     | 3693.10                                | 0.00               | N/A                            | N/A                               |
|         | 08/24/05    | 3771.94                                 | N.D.                                    | 78.83                                     | 3693.11                                | 0.00               | N/A                            | N/A                               |
|         | 08/26/05    | 3771.94                                 | N.D.                                    | 78.86                                     | 3693.08                                | 0.00               | N/A                            | N/A                               |
|         | 08/30/05    | 3771.94                                 | N.D.                                    | 78.86                                     | 3693.08                                | 0.00               | N/A                            | N/A                               |
|         | 09/01/05    | 3771.94                                 | N.D.                                    | 78.87                                     | 3693.07                                | 0.00               | N/A                            | N/A                               |
|         | 09/06/05    | 3771.94                                 | N.D.                                    | 78.87                                     | 3693.07                                | 0.00               | N/A                            | N/A                               |
|         | 09/08/05    | 3771.94                                 | N.D.                                    | 78.85                                     | 3693.09                                | 0.00               | N/A                            | N/A                               |
|         | 09/09/05    | 3771.94                                 | N.D.                                    | 78.86                                     | 3693.08                                | 0.00               | N/A                            | N/A                               |
|         | 09/13/05    | 3771.94                                 | N.D.                                    | 78.87                                     | 3693.07                                | 0.00               | N/A                            | N/A                               |
|         | 09/16/05    | 3771.94                                 | 78.89                                   | 78.91                                     | 3693.05                                | 0.02               | 0.00                           | 0.00                              |
|         | 09/20/05    | 3771.94                                 | 78.90                                   | 78.94                                     | 3693.04                                | 0.04               | 0.00                           | 0.00                              |
|         | 09/23/05    | 3771.94                                 | 78.91                                   | 78.96                                     | 3693.02                                | 0.06               | 0.00                           | 0.00                              |
|         | 09/27/05    | 3771.94                                 | 78.90                                   | 79.00                                     | 3693.03                                | 0.10               | 0.00                           | 0.00                              |
|         | 09/29/05    | 3771.94                                 | 78.92                                   | 79.02                                     | 3693.01                                | 0.10               | 0.00                           | 0.00                              |
|         | 10/04/05    | 3771.94                                 | 78.94                                   | 79.04                                     | 3692.99                                | 0.10               | 0.00                           | 0.00                              |
|         | 10/06/05    | 3771.94                                 | 78.95                                   | 79.09                                     | 3692.97                                | 0.14               | 0.00                           | 0.00                              |
|         | 10/11/05    | 3771.94                                 | 78.96                                   | 79.10                                     | 3692.96                                | 0.14               | 0.00                           | 0.00                              |
|         | 10/13/05    | 3771.94                                 | 78.97                                   | 79.12                                     | 3692.95                                | 0.15               | 0.00                           | 0.00                              |
|         | 10/18/05    | 3771.94                                 | 78.97                                   | 79.13                                     | 3692.95                                | 0.16               | 0.00                           | 0.00                              |
|         | 10/21/05    | 3771.94                                 | 79.01                                   | 79.19                                     | 3692.91                                | 0.18               | 0.00                           | 0.00                              |
|         | 10/26/05    | 3771.94                                 | 78.99                                   | 79.17                                     | 3692.93                                | 0.18               | 0.00                           | 0.00                              |
|         | 10/28/05    | 3771.94                                 | 79.00                                   | 79.19                                     | 3692.92                                | 0.19               | 0.00                           | 0.00                              |
|         | 11/01/05    | 3771.94                                 | 79.03                                   | 79.27                                     | 3692.88                                | 0.24               | 0.00                           | 0.00                              |
|         | 11/04/05    | 3771.94                                 | 79.03                                   | 79.28                                     | 3692.88                                | 0.25               | 0.00                           | 0.00                              |
|         | 11/09/05    | 3771.94                                 | 79.07                                   | 79.35                                     | 3692.84                                | 0.28               | 0.00                           | 0.00                              |
|         | 11/11/05    | 3771.94                                 | 79.07                                   | 79.35                                     | 3692.84                                | 0.28               | 0.00                           | 0.00                              |
|         | 11/16/05    | 3771.94                                 | 79.08                                   | 79.41                                     | 3692.82                                | 0.33               | 0.00                           | 0.00                              |



TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NMOCD REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet)* | PSH<br>THICKNESS (ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---|---|---|---|-----------------------|--------------------------------------|--|
| MMW-3   | 11/18/05    | 3771.94                                     | 79.09   | 79.42   | 3692.81                                       | 0.33                  | 0.00                                 | 0.00                                       |
|         | 11/22/05    | 3771.94                                     | 79.08   | 79.43   | 3692.82                                       | 0.35                  | 0.00                                 | 0.00                                       |
|         | 11/30/05    | 3771.94                                     | 79.10   | 79.51   | 3692.79                                       | 0.41                  | 0.00                                 | 0.00                                       |
|         | 12/02/05    | 3771.94                                     | 79.10   | 79.50   | 3692.79                                       | 0.40                  | 0.00                                 | 0.00                                       |
|         | 12/05/05    | 3771.94                                     | 79.08   | 79.51   | 3692.81                                       | 0.43                  | 0.00                                 | 0.00                                       |
|         | 12/14/05    | 3771.94                                     | 79.11   | 79.62   | 3692.77                                       | 0.51                  | 0.00                                 | 0.00                                       |
|         | 12/16/05    | 3771.94                                     | 79.11   | 79.62   | 3692.77                                       | 0.51                  | 0.00                                 | 0.00                                       |
|         | 12/21/05    | 3771.94                                     | 79.11   | 79.62   | 3692.77                                       | 0.51                  | 0.00                                 | 0.00                                       |
|         | 12/23/05    | 3771.94                                     | 79.12   | 79.75   | 3692.74                                       | 0.63                  | 0.00                                 | 0.00                                       |
|         | 12/27/05    | 3771.94                                     | 79.12   | 79.75   | 3692.74                                       | 0.63                  | 0.00                                 | 0.00                                       |
|         | 12/30/05    | 3771.94                                     | 79.15   | 79.86   | 3692.70                                       | 0.71                  | 0.00                                 | 0.00                                       |
|         | 01/03/06    | 3771.94                                     | 79.13   | 79.93   | 3692.71                                       | 0.80                  | 0.00                                 | 0.00                                       |
|         | 01/05/06    | 3771.94                                     | 79.11   | 79.91   | 3692.73                                       | 0.80                  | 0.00                                 | 0.00                                       |
|         | 01/11/06    | 3771.94                                     | 79.10   | 80.08   | 3692.72                                       | 0.98                  | 0.00                                 | 0.00                                       |
|         | 01/13/06    | 3771.94                                     | 79.11   | 79.91   | 3692.73                                       | 0.80                  | 0.00                                 | 0.00                                       |
|         | 01/18/06    | 3771.94                                     | 79.06   | 80.27   | 3692.73                                       | 1.21                  | 0.00                                 | 0.00                                       |
|         | 01/20/06    | 3771.94                                     | 79.08   | 80.35   | 3692.71                                       | 1.27                  | 0.00                                 | 0.00                                       |
|         | 01/24/06    | 3771.94                                     | 79.05   | 80.47   | 3692.72                                       | 1.42                  | 0.00                                 | 0.00                                       |
|         | 01/25/06    | 3771.94                                     | 79.03   | 80.46   | 3692.74                                       | 1.43                  | 0.00                                 | 0.00                                       |
|         | 02/02/06    | 3771.94                                     | 79.00   | 80.69   | 3692.74                                       | 1.69                  | 0.00                                 | 0.00                                       |
|         | 02/08/06    | 3771.94                                     | 78.99   | 80.50   | 3692.77                                       | 1.51                  | 1.50                                 | 1.50                                       |
|         | 02/10/06    | 3771.94                                     | 78.97   | 80.48   | 3692.79                                       | 1.51                  | 1.50                                 | 3.00                                       |
|         | 02/16/06    | 3771.94                                     | 79.26   | 79.36   | 3692.67                                       | 0.10                  | 0.00                                 | 3.00                                       |
|         | 02/21/06    | 3771.94                                     | 79.22   | 79.37   | 3692.70                                       | 0.15                  | 0.50                                 | 3.50                                       |
|         | 02/24/06    | 3771.94                                     | 79.24   | 79.71   | 3692.64                                       | 0.47                  | 0.25                                 | 3.75                                       |
|         | 02/28/06    | 3771.94                                     | 79.25   | 79.55   | 3692.65                                       | 0.30                  | 0.25                                 | 4.00                                       |
|         | 03/03/06    | 3771.94                                     | 79.27   | 79.55   | 3692.64                                       | 0.28                  | 0.28                                 | 4.28                                       |
|         | 03/06/06    | 3771.94                                     | 79.21   | 79.55   | 3692.69                                       | 0.34                  | 0.50                                 | 4.78                                       |
|         | 03/08/06    | 3771.94                                     | 79.25   | 79.55   | 3692.65                                       | 0.30                  | 0.20                                 | 4.98                                       |
|         | 03/15/06    | 3771.94                                     | 79.25   | 79.49   | 3692.66                                       | 0.24                  | 0.24                                 | 5.22                                       |
|         | 03/17/06    | 3771.94                                     | 79.23   | 79.92   | 3692.63                                       | 0.69                  | 0.24                                 | 5.46                                       |
|         | 03/21/06    | 3771.94                                     | 79.21   | 80.02   | 3692.63                                       | 0.81                  | 0.00                                 | 5.46                                       |
|         | 03/23/06    | 3771.94                                     | 79.14   | 81.00   | 3692.58                                       | 1.86                  | 1.50                                 | 6.96                                       |
|         | 03/28/06    | 3771.94                                     | 79.08   | 79.88   | 3692.76                                       | 0.80                  | 0.00                                 | 6.96                                       |
|         | 03/30/06    | 3771.94                                     | 79.15   | 80.20   | 3692.66                                       | 1.06                  | 0.50                                 | 7.46                                       |
|         | 04/04/06    | 3771.94                                     | 79.20   | 80.22   | 3692.62                                       | 1.02                  | 0.00                                 | 7.46                                       |
|         | 04/07/06    | 3771.94                                     | 79.17   | 80.24   | 3692.64                                       | 1.07                  | 0.00                                 | 7.46                                       |
|         | 04/12/06    | 3771.94                                     | 79.13   | 80.48   | 3692.65                                       | 1.35                  | 0.00                                 | 7.46                                       |
|         | 04/14/06    | 3771.94                                     | 79.07   | 80.82   | 3692.66                                       | 1.75                  | 0.00                                 | 7.46                                       |
|         | 04/18/06    | 3771.94                                     | 79.00   | 80.90   | 3692.65                                       | 1.83                  | 0.00                                 | 7.46                                       |
|         | 04/21/06    | 3771.94                                     | 79.02   | 81.32   | 3692.68                                       | 2.13                  | 0.00                                 | 7.46                                       |
|         | 04/25/06    | 3771.94                                     | 78.91   | 81.53   | 3692.72                                       | 2.62                  | 0.00                                 | 7.46                                       |
|         | 05/04/06    | 3771.94                                     | 78.92   | 81.65   | 3692.69                                       | 2.73                  | 0.00                                 | 7.46                                       |
|         | 05/05/06    | 3771.94                                     | 78.88   | 81.82   | 3692.71                                       | 2.94                  | 0.00                                 | 7.46                                       |
|         | 06/10/06    | 3771.94                                     | 78.89   | 82.00   | 3692.68                                       | 3.11                  | 0.00                                 | 7.46                                       |
|         | 06/12/06    | 3771.94                                     | 78.60   | 82.31   | 3692.69                                       | 3.71                  | 1.50                                 | 8.96                                       |
|         | 06/16/06    | 3771.94                                     | 79.15   | 80.90   | 3692.69                                       | 1.75                  | 0.00                                 | 10.46                                      |
|         | 06/18/06    | 3771.94                                     | 79.12   | 81.07   | 3692.69                                       | 1.95                  | 0.00                                 | 10.46                                      |
|         | 06/23/06    | 3771.94                                     | 79.07   | 81.46   | 3692.68                                       | 2.39                  | 1.00                                 | 11.46                                      |





TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NIMOD REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet) | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet) | PSH<br>THICKNESS (in) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|--|---|---|--|-----------------------|--------------------------------------|--|
| MW-3    | 05/26/06    | 3771.94                                    | 79.09   | 81.20   | 3692.60                                      | 2.11                  | 0.00                                 | 11.46                                      |
|         | 06/30/06    | 3771.94                                    | 79.04   | 81.59   | 3692.59                                      | 2.55                  | 1.50                                 | 12.96                                      |
|         | 06/01/06    | 3771.94                                    | 79.03   | 80.53   | 3692.59                                      | 1.50                  | 0.00                                 | 12.96                                      |
|         | 06/09/06    | 3771.94                                    | 79.23   | 80.98   | 3692.50                                      | 1.75                  | 0.00                                 | 12.96                                      |
|         | 06/06/06    | 3771.94                                    | 79.18   | 81.10   | 3692.53                                      | 1.92                  | 0.00                                 | 12.96                                      |
|         | 06/13/06    | 3771.94                                    | 79.12   | 81.20   | 3692.57                                      | 2.08                  | 0.00                                 | 12.96                                      |
|         | 06/16/06    | 3771.94                                    | 78.11   | 81.58   | 3693.41                                      | 3.47                  | 0.00                                 | 12.96                                      |
|         | 06/20/06    | 3771.94                                    | 79.07   | 81.78   | 3692.54                                      | 2.71                  | 0.00                                 | 12.96                                      |
|         | 06/23/06    | 3771.94                                    | 79.03   | 81.89   | 3692.57                                      | 2.86                  | 0.00                                 | 12.96                                      |
|         | 06/27/06    | 3771.94                                    | 79.02   | 82.18   | 3692.54                                      | 3.16                  | 0.00                                 | 12.96                                      |
|         | 06/30/06    | 3771.94                                    | 79.00   | 82.23   | 3692.55                                      | 3.23                  | 0.00                                 | 12.96                                      |
|         | 07/05/06    | 3771.94                                    | 79.98   | 82.46   | 3691.66                                      | 2.48                  | 0.00                                 | 12.96                                      |
|         | 07/07/06    | 3771.94                                    | 78.97   | 82.57   | 3691.56                                      | 3.60                  | 0.00                                 | 12.96                                      |
|         | 07/11/06    | 3771.94                                    | 78.97   | 82.72   | 3692.52                                      | 3.75                  | 0.00                                 | 12.96                                      |
|         | 07/13/06    | 3771.94                                    | 78.86   | 82.80   | 3692.61                                      | 3.94                  | 0.00                                 | 12.96                                      |
|         | 07/18/06    | 3771.94                                    | 78.94   | 82.95   | 3692.52                                      | 4.01                  | 0.00                                 | 12.96                                      |
|         | 07/21/06    | 3771.94                                    | 78.73   | 82.99   | 3692.70                                      | 4.26                  | 0.00                                 | 12.96                                      |
|         | 07/25/06    | 3771.94                                    | 78.83   | 83.11   | 3692.51                                      | 4.18                  | 0.00                                 | 12.96                                      |
|         | 07/27/06    | 3771.94                                    | 78.92   | 83.14   | 3692.51                                      | 4.22                  | 0.00                                 | 12.96                                      |
|         | 08/01/06    | 3771.94                                    | 78.94   | 83.27   | 3692.48                                      | 4.33                  | 0.00                                 | 12.96                                      |
|         | 08/03/06    | 3771.94                                    | 78.95   | 83.30   | 3692.47                                      | 4.35                  | 0.00                                 | 12.96                                      |
|         | 08/09/06    | 3771.94                                    | 78.95   | 83.37   | 3692.46                                      | 4.42                  | 0.00                                 | 12.96                                      |
|         | 08/11/06    | 3771.94                                    | 78.96   | 83.37   | 3692.45                                      | 4.41                  | 0.00                                 | 12.96                                      |
|         | 08/15/06    | 3771.94                                    | 78.88   | 83.45   | 3692.42                                      | 4.47                  | 0.00                                 | 12.96                                      |
|         | 08/18/06    | 3771.94                                    | 78.88   | 83.47   | 3692.42                                      | 4.49                  | 0.00                                 | 12.96                                      |
|         | 08/25/06    | 3771.94                                    | 79.00   | 83.55   | 3692.39                                      | 4.55                  | 0.00                                 | 12.96                                      |
|         | 08/30/06    | 3771.94                                    | 79.02   | 83.61   | 3692.37                                      | 4.59                  | 0.00                                 | 12.96                                      |
|         | 09/12/06    | 3771.94                                    | 79.16   | 83.71   | 3692.23                                      | 4.55                  | 0.00                                 | 12.96                                      |
|         | 09/15/06    | 3771.94                                    | 79.04   | 83.72   | 3692.34                                      | 4.68                  | 0.00                                 | 12.96                                      |
|         | 09/20/06    | 3771.94                                    | 79.05   | 83.75   | 3692.33                                      | 4.70                  | 0.00                                 | 12.96                                      |
|         | 09/26/06    | 3771.94                                    | 79.09   | 83.80   | 3692.28                                      | 4.71                  | 0.00                                 | 12.96                                      |
|         | 09/29/06    | 3771.94                                    | 79.10   | 83.81   | 3692.27                                      | 4.71                  | 0.00                                 | 12.96                                      |
|         | 10/04/06    | 3771.94                                    | 79.13   | 83.94   | 3692.23                                      | 4.81                  | 0.00                                 | 12.96                                      |
|         | 10/06/06    | 3771.94                                    | 79.47   | 82.28   | 3692.13                                      | 2.81                  | 0.00                                 | 12.96                                      |
|         | 10/12/06    | 3771.94                                    | 79.55   | 82.04   | 3692.09                                      | 2.49                  | 1.00                                 | 13.96                                      |
|         | 10/17/06    | 3771.94                                    | 79.54   | 82.11   | 3692.09                                      | 2.57                  | 1.00                                 | 14.96                                      |
|         | 10/20/06    | 3771.94                                    | 79.52   | 82.29   | 3692.09                                      | 2.77                  | 0.00                                 | 14.96                                      |
|         | 10/24/06    | 3771.94                                    | 79.54   | 82.10   | 3692.09                                      | 2.56                  | 0.00                                 | 14.96                                      |
|         | 10/26/06    | 3771.94                                    | 79.58   | 82.29   | 3692.03                                      | 2.71                  | 0.00                                 | 14.96                                      |
|         | 11/22/06    | 3771.94                                    | 79.72   | 82.07   | 3691.94                                      | 2.35                  | 1.50                                 | 16.46                                      |
|         | 11/28/06    | 3771.94                                    | 79.92   | 81.27   | 3691.86                                      | 1.35                  | 0.50                                 | 16.96                                      |
|         | 12/06/06    | 3771.94                                    | 80.06   | 81.03   | 3691.75                                      | 0.95                  | 0.00                                 | 16.96                                      |
|         | 12/08/06    | 3771.94                                    | 79.52   | 82.29   | 3692.09                                      | 2.77                  | 0.00                                 | 16.96                                      |
|         | 12/12/06    | 3771.94                                    | 80.06   | 82.45   | 3691.59                                      | 2.39                  | 2.00                                 | 18.96                                      |
|         | 12/15/06    | 3771.94                                    | 80.04   | 81.03   | 3691.78                                      | 0.99                  | 0.00                                 | 18.96                                      |
|         | 12/20/06    | 3771.94                                    | 79.98   | 81.29   | 3691.80                                      | 1.31                  | 0.00                                 | 18.96                                      |
|         | 12/22/06    | 3771.94                                    | 79.98   | 81.46   | 3691.78                                      | 1.48                  | 0.00                                 | 18.96                                      |
|         | 12/27/06    | 3771.94                                    | 79.94   | 81.82   | 3691.77                                      | 1.88                  | 0.00                                 | 18.96                                      |
|         | 01/03/07    | 3771.94                                    | 80.15   | 80.94   | 3691.70                                      | 0.79                  | 0.00                                 | 18.96                                      |
|         | 01/05/07    | 3771.94                                    | 80.12   | 81.02   | 3691.71                                      | 0.90                  | 0.00                                 | 18.96                                      |
|         | 01/12/07    | 3771.94                                    | 80.08   | 81.38   | 3691.70                                      | 1.30                  | 0.00                                 | 18.96                                      |



TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NMOCD REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet) | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet) | PSH<br>THICKNESS (ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|--|---|---|--|-----------------------|--------------------------------------|--|
| MW-3    | 01/15/07    | 3771.94                                    | 80.26   | 80.70   | 3691.63                                      | 0.44                  | 0.00                                 | 18.96                                      |
|         | 01/18/07    | 3771.94                                    | 80.22   | 80.80   | 3691.65                                      | 0.58                  | 0.50                                 | 19.46                                      |
|         | 01/31/07    | 3771.94                                    | 80.24   | 81.18   | 3691.59                                      | 0.94                  | 0.00                                 | 19.46                                      |
|         | 02/07/07    | 3771.94                                    | 79.97   | 81.45   | 3691.79                                      | 1.48                  | 0.25                                 | 19.71                                      |
|         | 02/09/07    | 3771.94                                    | 80.33   | 80.60   | 3691.58                                      | 0.27                  | 0.00                                 | 19.71                                      |
|         | 02/13/07    | 3771.94                                    | 80.81   | 80.81   | 3691.59                                      | 0.52                  | 0.00                                 | 19.71                                      |
|         | 02/16/07    | 3771.94                                    | 80.23   | 80.91   | 3691.63                                      | 0.68                  | 0.00                                 | 19.71                                      |
|         | 02/19/07    | 3771.94                                    | 80.19   | 81.09   | 3691.64                                      | 0.90                  | 0.00                                 | 19.71                                      |
|         | 02/21/07    | 3771.94                                    | 80.19   | 81.12   | 3691.64                                      | 0.93                  | 0.00                                 | 19.71                                      |
|         | 02/26/07    | 3771.94                                    | 80.20   | 81.43   | 3691.59                                      | 1.23                  | 0.00                                 | 19.71                                      |
|         | 03/01/07    | 3771.94                                    | 80.15   | 81.56   | 3691.62                                      | 1.41                  | 0.00                                 | 19.71                                      |
|         | 03/06/07    | 3771.94                                    | 80.02   | 81.71   | 3691.72                                      | 1.69                  | 0.00                                 | 19.71                                      |
|         | 03/09/07    | 3771.94                                    | 80.07   | 81.62   | 3691.68                                      | 1.55                  | 0.00                                 | 19.71                                      |
|         | 03/13/07    | 3771.94                                    | 80.03   | 82.07   | 3691.67                                      | 2.04                  | 0.00                                 | 19.71                                      |
|         | 03/23/07    | 3771.94                                    | 80.04   | 82.17   | 3691.64                                      | 2.13                  | 0.00                                 | 19.71                                      |
|         | 03/27/07    | 3772.86                                    | 80.01   | 82.42   | 3692.61                                      | 2.41                  | 0.00                                 | 19.71                                      |
|         | 04/06/07    | 3772.86                                    | 79.96   | 82.83   | 3692.61                                      | 2.87                  | 0.00                                 | 19.71                                      |
|         | 04/11/07    | 3772.86                                    | 79.90   | 83.01   | 3692.65                                      | 3.11                  | 0.00                                 | 19.71                                      |
|         | 04/17/07    | 3772.86                                    | 79.90   | 83.11   | 3692.64                                      | 3.21                  | 0.00                                 | 19.71                                      |
|         | 04/19/07    | 3772.86                                    | 79.89   | 83.17   | 3692.64                                      | 3.28                  | 0.00                                 | 19.71                                      |
|         | 04/24/07    | 3772.86                                    | 79.87   | 82.25   | 3692.75                                      | 2.38                  | 0.00                                 | 19.71                                      |
|         | 05/01/07    | 3772.86                                    | 79.81   | 83.87   | 3692.64                                      | 4.06                  | 0.00                                 | 19.71                                      |
|         | 05/21/07    | 3772.86                                    | 79.85   | 83.75   | 3692.62                                      | 3.90                  | 0.00                                 | 19.71                                      |
|         | 05/24/07    | 3772.86                                    | 79.86   | 83.75   | 3692.83                                      | 1.71                  | 0.00                                 | 19.71                                      |
|         | 06/19/07    | 3772.86                                    | 79.80   | 84.12   | 3692.63                                      | 4.32                  | 0.00                                 | 19.71                                      |
|         | 06/28/07    | 3772.86                                    | 79.92   | 84.16   | 3692.52                                      | 4.24                  | 0.00                                 | 19.71                                      |
|         | 08/07/07    | 3772.86                                    | 79.84   | 84.04   | 3692.60                                      | 4.20                  | 0.00                                 | 19.71                                      |
|         | 08/17/07    | 3772.86                                    | 80.13   | 82.71   | 3692.47                                      | 2.58                  | 1.00                                 | 24.71                                      |
|         | 08/23/07    | 3772.86                                    | 80.35   | 82.83   | 3692.26                                      | 2.48                  | 0.25                                 | 24.96                                      |
|         | 08/31/07    | 3772.86                                    | 80.56   | 81.57   | 3692.20                                      | 1.01                  | 1.00                                 | 25.96                                      |
|         | 09/20/07    | 3772.86                                    | 80.37   | 82.33   | 3692.29                                      | 1.96                  | 0.00                                 | 25.96                                      |
|         | 09/21/07    | 3772.86                                    | 80.38   | 82.37   | 3692.28                                      | 1.59                  | 1.60                                 | 27.56                                      |
|         | 10/11/07    | 3772.86                                    | 80.51   | 82.10   | 3692.19                                      | 1.59                  | 0.00                                 | 27.56                                      |
|         | 10/18/07    | 3772.86                                    | 80.71   | 81.29   | 3692.09                                      | 0.58                  | 0.00                                 | 27.56                                      |
|         | 11/27/07    | 3772.86                                    | 80.51   | 82.96   | 3692.11                                      | 2.45                  | 0.00                                 | 27.56                                      |
|         | 12/17/07    | 3772.86                                    | 80.56   | 83.40   | 3692.02                                      | 2.84                  | 0.00                                 | 27.56                                      |
|         | 12/28/07    | 3772.86                                    | 80.61   | 83.87   | 3691.92                                      | 3.26                  | 0.00                                 | 27.56                                      |
|         | 12/31/07    | 3772.86                                    | 80.67   | 83.09   | 3691.95                                      | 2.42                  | 2.00                                 | 29.56                                      |



TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NWOC REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet) | Depth to PSH<br>Below Top of Casing (Feet) | Depth to Water<br>Top of Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet) | PSH<br>THICKNESS (in) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|--|--|--|--|-----------------------|--------------------------------------|--|
| MW-4    | 10/29/04    | 3772.86                                    | N.D.                                       | 79.22                                  | 3693.64                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/04/04    | 3772.86                                    | N.D.                                       | 79.35                                  | 3693.51                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/10/04    | 3772.86                                    | N.D.                                       | 79.34                                  | 3693.52                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/17/04    | 3772.86                                    | N.D.                                       | 79.41                                  | 3693.45                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/24/04    | 3772.86                                    | N.D.                                       | 79.49                                  | 3693.37                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/02/04    | 3772.86                                    | N.D.                                       | 79.46                                  | 3693.40                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/08/04    | 3772.86                                    | N.D.                                       | 79.35                                  | 3693.51                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/15/04    | 3772.86                                    | N.D.                                       | 79.33                                  | 3693.53                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/27/04    | 3772.86                                    | N.D.                                       | 79.48                                  | 3693.38                                      | 0.00                  | N/A                                  | N/A  |
|         | 12/29/04    | 3772.86                                    | N.D.                                       | 79.47                                  | 3693.39                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/06/05    | 3772.86                                    | N.D.                                       | 79.51                                  | 3693.35                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/13/05    | 3772.86                                    | N.D.                                       | 79.54                                  | 3693.32                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/19/05    | 3772.86                                    | N.D.                                       | 79.51                                  | 3693.35                                      | 0.00                  | N/A                                  | N/A  |
|         | 01/26/05    | 3772.86                                    | N.D.                                       | 79.54                                  | 3693.32                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/02/05    | 3772.86                                    | N.D.                                       | 79.51                                  | 3693.35                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/09/05    | 3772.86                                    | N.D.                                       | 79.58                                  | 3693.28                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/16/05    | 3772.86                                    | N.D.                                       | 79.52                                  | 3693.34                                      | 0.00                  | N/A                                  | N/A  |
|         | 02/24/05    | 3772.86                                    | N.D.                                       | 79.55                                  | 3693.31                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/03/05    | 3772.86                                    | N.D.                                       | 79.57                                  | 3693.29                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/11/05    | 3772.86                                    | N.D.                                       | 79.46                                  | 3693.40                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/18/05    | 3772.86                                    | N.D.                                       | 79.57                                  | 3693.29                                      | 0.00                  | N/A                                  | N/A  |
|         | 03/31/05    | 3772.86                                    | N.D.                                       | 79.61                                  | 3693.25                                      | 0.00                  | N/A                                  | N/A  |
|         | 04/07/05    | 3772.86                                    | N.D.                                       | 79.59                                  | 3693.27                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/18/05    | 3772.86                                    | N.D.                                       | 79.40                                  | 3693.46                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/23/05    | 3772.86                                    | N.D.                                       | 79.40                                  | 3693.46                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/01/05    | 3772.86                                    | N.D.                                       | 79.66                                  | 3693.20                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/03/05    | 3772.86                                    | N.D.                                       | 79.65                                  | 3693.21                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/07/05    | 3772.86                                    | N.D.                                       | 79.67                                  | 3693.19                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/10/05    | 3772.86                                    | N.D.                                       | 79.64                                  | 3693.22                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/13/05    | 3772.86                                    | N.D.                                       | 79.61                                  | 3693.25                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/16/05    | 3772.86                                    | N.D.                                       | 79.65                                  | 3693.21                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/20/05    | 3772.86                                    | N.D.                                       | 79.90                                  | 3692.96                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/22/05    | 3772.86                                    | N.D.                                       | 79.70                                  | 3693.16                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/23/05    | 3772.86                                    | N.D.                                       | 79.68                                  | 3693.18                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/01/05    | 3772.86                                    | N.D.                                       | 79.71                                  | 3693.15                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/06/05    | 3772.86                                    | N.D.                                       | 79.71                                  | 3693.15                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/12/05    | 3772.86                                    | N.D.                                       | 79.75                                  | 3693.11                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/14/05    | 3772.86                                    | N.D.                                       | 79.75                                  | 3693.11                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/19/05    | 3772.86                                    | N.D.                                       | 79.75                                  | 3693.11                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/21/05    | 3772.86                                    | N.D.                                       | 79.77                                  | 3693.09                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/28/05    | 3772.86                                    | N.D.                                       | 79.79                                  | 3693.07                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/29/05    | 3772.86                                    | N.D.                                       | 79.81                                  | 3693.05                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/02/05    | 3772.86                                    | N.D.                                       | 79.81                                  | 3693.05                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/04/05    | 3772.86                                    | N.D.                                       | 79.82                                  | 3693.04                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/09/05    | 3772.86                                    | N.D.                                       | 79.84                                  | 3693.02                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/11/05    | 3772.86                                    | N.D.                                       | 79.85                                  | 3693.01                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/11/05    | 3772.86                                    | N.D.                                       | 79.86                                  | 3693.00                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/16/05    | 3772.86                                    | N.D.                                       | 79.88                                  | 3692.98                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/18/05    | 3772.86                                    | N.D.                                       | 79.88                                  | 3692.98                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/24/05    | 3772.86                                    | N.D.                                       | 79.90                                  | 3692.95                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/26/05    | 3772.86                                    | N.D.                                       | 79.91                                  | 3692.95                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/30/05    | 3772.86                                    | N.D.                                       | 79.93                                  | 3692.93                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/01/05    | 3772.86                                    | N.D.                                       | 79.92                                  | 3692.94                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/06/05    | 3772.86                                    | N.D.                                       | 79.91                                  | 3692.95                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/08/05    | 3772.86                                    | N.D.                                       | 79.94                                  | 3692.92                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/13/05    | 3772.86                                    | N.D.                                       | 79.94                                  | 3692.92                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/16/05    | 3772.86                                    | N.D.                                       | 79.96                                  | 3692.90                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/20/05    | 3772.86                                    | N.D.                                       | 79.88                                  | 3692.98                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/23/05    | 3772.86                                    | N.D.                                       | 79.79                                  | 3693.07                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/27/05    | 3772.86                                    | N.D.                                       | 80.00                                  | 3692.96                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/29/05    | 3772.86                                    | N.D.                                       | 80.01                                  | 3692.95                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/04/05    | 3772.86                                    | N.D.                                       | 80.03                                  | 3692.93                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/06/05    | 3772.86                                    | N.D.                                       | 80.04                                  | 3692.92                                      | 0.00                  | N/A                                  | N/A  |



TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NIMOD REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet)* | PSH<br>THICKNESS (in) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---|---|---|---|-----------------------|--------------------------------------|--|
| MW-4    | 10/11/05    | 3772.86                                     | N.D.  | 80.04   | 3692.82                                       | 0.00                  | N/A                                  | N/A  |
|         | 10/13/05    | 3772.86                                     | N.D.  | 80.06   | 3692.81                                       | 0.00                  | N/A                                  | N/A  |
|         | 10/18/05    | 3772.86                                     | N.D.  | 80.85   | 3692.01                                       | 0.00                  | N/A                                  | N/A  |
|         | 10/21/05    | 3772.86                                     | N.D.  | 80.09   | 3692.77                                       | 0.00                  | N/A                                  | N/A  |
|         | 10/26/05    | 3772.86                                     | N.D.  | 80.08   | 3692.78                                       | 0.00                  | N/A                                  | N/A  |
|         | 10/28/05    | 3772.86                                     | N.D.  | 80.09   | 3692.77                                       | 0.00                  | N/A                                  | N/A  |
|         | 11/01/05    | 3772.86                                     | N.D.  | 80.13   | 3692.73                                       | 0.00                  | N/A                                  | N/A  |
|         | 11/04/05    | 3772.86                                     | N.D.  | 80.14   | 3692.72                                       | 0.00                  | N/A                                  | N/A  |
|         | 11/09/05    | 3772.86                                     | N.D.  | 80.18   | 3692.68                                       | 0.00                  | N/A                                  | N/A  |
|         | 11/11/05    | 3772.86                                     | N.D.  | 80.16   | 3692.70                                       | 0.00                  | N/A                                  | N/A  |
|         | 11/16/05    | 3772.86                                     | N.D.  | 80.21   | 3692.65                                       | 0.00                  | N/A                                  | N/A  |
|         | 11/18/05    | 3772.86                                     | N.D.  | 80.20   | 3692.66                                       | 0.00                  | N/A                                  | N/A  |
|         | 11/22/05    | 3772.86                                     | N.D.  | 80.20   | 3692.66                                       | 0.00                  | N/A                                  | N/A  |
|         | 11/30/05    | 3772.86                                     | N.D.  | 80.22   | 3692.64                                       | 0.00                  | N/A                                  | N/A  |
|         | 12/02/05    | 3772.86                                     | N.D.  | 80.22   | 3692.64                                       | 0.00                  | N/A                                  | N/A  |
|         | 12/06/05    | 3772.86                                     | N.D.  | 80.20   | 3692.66                                       | 0.00                  | N/A                                  | N/A  |
|         | 12/14/05    | 3772.86                                     | N.D.  | 80.25   | 3692.61                                       | 0.00                  | N/A                                  | N/A  |
|         | 12/16/05    | 3772.86                                     | N.D.  | 80.20   | 3692.66                                       | 0.00                  | N/A                                  | N/A  |
|         | 12/21/05    | 3772.86                                     | N.D.  | 80.20   | 3692.66                                       | 0.00                  | N/A                                  | N/A  |
|         | 12/23/05    | 3772.86                                     | N.D.  | 80.27   | 3692.59                                       | 0.00                  | N/A                                  | N/A  |
|         | 12/27/05    | 3772.86                                     | N.D.  | 80.26   | 3692.60                                       | 0.00                  | N/A                                  | N/A  |
|         | 12/30/05    | 3772.86                                     | N.D.  | 80.15   | 3692.71                                       | 0.00                  | N/A                                  | N/A  |
|         | 01/03/06    | 3772.86                                     | N.D.  | 80.31   | 3692.55                                       | 0.00                  | N/A                                  | N/A  |
|         | 01/05/06    | 3772.86                                     | N.D.  | 80.28   | 3692.58                                       | 0.00                  | N/A                                  | N/A  |
|         | 01/11/06    | 3772.86                                     | N.D.  | 80.31   | 3692.55                                       | 0.00                  | N/A                                  | N/A  |
|         | 01/13/06    | 3772.86                                     | N.D.  | 80.26   | 3692.60                                       | 0.00                  | N/A                                  | N/A  |
|         | 01/18/06    | 3772.86                                     | N.D.  | 80.32   | 3692.54                                       | 0.00                  | N/A                                  | N/A  |
|         | 01/20/06    | 3772.86                                     | N.D.  | 79.36   | 3693.50                                       | 0.00                  | N/A                                  | N/A  |
|         | 01/24/06    | 3772.86                                     | N.D.  | 80.37   | 3692.49                                       | 0.00                  | N/A                                  | N/A  |
|         | 01/26/06    | 3772.86                                     | N.D.  | 80.35   | 3692.51                                       | 0.00                  | N/A                                  | N/A  |
|         | 02/02/06    | 3772.86                                     | N.D.  | 80.36   | 3692.50                                       | 0.00                  | N/A                                  | N/A  |
|         | 02/08/06    | 3772.86                                     | N.D.  | 80.32   | 3692.54                                       | 0.00                  | N/A                                  | N/A  |
|         | 02/10/06    | 3772.86                                     | N.D.  | 80.33   | 3692.53                                       | 0.00                  | N/A                                  | N/A  |
|         | 02/14/06    | 3772.86                                     | N.D.  | 80.35   | 3692.51                                       | 0.00                  | N/A                                  | N/A  |
|         | 02/16/06    | 3772.86                                     | N.D.  | 80.36   | 3692.50                                       | 0.00                  | N/A                                  | N/A  |
|         | 02/21/06    | 3772.86                                     | N.D.  | 80.36   | 3692.52                                       | 0.00                  | N/A                                  | N/A  |
|         | 02/24/06    | 3772.86                                     | N.D.  | 90.34   | 3692.52                                       | 0.00                  | N/A                                  | N/A  |
|         | 02/28/06    | 3772.86                                     | N.D.  | 80.30   | 3692.56                                       | 0.00                  | N/A                                  | N/A  |
|         | 03/03/06    | 3772.86                                     | N.D.  | 80.31   | 3692.55                                       | 0.00                  | N/A                                  | N/A  |
|         | 03/06/06    | 3772.86                                     | N.D.  | 80.35   | 3692.51                                       | 0.00                  | N/A                                  | N/A  |
|         | 03/09/06    | 3772.86                                     | N.D.  | 80.38   | 3692.48                                       | 0.00                  | N/A                                  | N/A  |
|         | 03/17/06    | 3772.86                                     | N.D.  | 80.30   | 3692.56                                       | 0.00                  | N/A                                  | N/A  |
|         | 03/21/06    | 3772.86                                     | N.D.  | 80.35   | 3692.51                                       | 0.00                  | N/A                                  | N/A  |
|         | 03/23/06    | 3772.86                                     | N.D.  | 80.25   | 3692.61                                       | 0.00                  | N/A                                  | N/A  |
|         | 03/28/06    | 3772.86                                     | N.D.  | 80.38   | 3692.48                                       | 0.00                  | N/A                                  | N/A  |
|         | 03/30/06    | 3772.86                                     | N.D.  | 80.29   | 3692.57                                       | 0.00                  | N/A                                  | N/A  |
|         | 04/04/06    | 3772.86                                     | N.D.  | 80.38   | 3692.48                                       | 0.00                  | N/A                                  | N/A  |
|         | 04/07/06    | 3772.86                                     | N.D.  | 80.45   | 3692.41                                       | 0.00                  | N/A                                  | N/A  |
|         | 04/12/06    | 3772.86                                     | N.D.  | 80.40   | 3692.46                                       | 0.00                  | N/A                                  | N/A  |
|         | 04/14/06    | 3772.86                                     | N.D.  | 80.40   | 3692.46                                       | 0.00                  | N/A                                  | N/A  |



TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NMOCD REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet) | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet) | PSH<br>THICKNESS (ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|--|---|---|--|-----------------------|--------------------------------------|--|
| MW-4    | 04/18/06    | 3772.86                                    | N.D.  | 80.40   | 3692.46                                      | 0.00                  | N/A                                  | N/A  |
|         | 04/21/06    | 3772.86                                    | N.D.  | 80.44   | 3692.42                                      | 0.00                  | N/A                                  | N/A  |
|         | 04/26/06    | 3772.86                                    | N.D.  | 80.40   | 3692.46                                      | 0.00                  | N/A                                  | N/A  |
|         | 04/28/06    | 3772.86                                    | N.D.  | 80.43   | 3692.43                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/04/06    | 3772.86                                    | N.D.  | 80.44   | 3692.42                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/05/06    | 3772.86                                    | N.D.  | 80.45   | 3692.41                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/10/06    | 3772.86                                    | N.D.  | 80.41   | 3692.45                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/12/06    | 3772.86                                    | N.D.  | 80.48   | 3692.38                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/16/06    | 3772.86                                    | N.D.  | 80.49   | 3692.37                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/18/06    | 3772.86                                    | N.D.  | 80.50   | 3692.36                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/23/06    | 3772.86                                    | N.D.  | 80.56   | 3692.30                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/26/06    | 3772.86                                    | N.D.  | 80.51   | 3692.35                                      | 0.00                  | N/A                                  | N/A  |
|         | 05/30/06    | 3772.86                                    | N.D.  | 80.53   | 3692.33                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/01/06    | 3772.86                                    | N.D.  | 80.53   | 3692.33                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/06/06    | 3772.86                                    | N.D.  | 80.57   | 3692.29                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/09/06    | 3772.86                                    | N.D.  | 80.54   | 3692.32                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/13/06    | 3772.86                                    | N.D.  | 80.56   | 3692.30                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/16/06    | 3772.86                                    | N.D.  | 80.56   | 3692.30                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/20/06    | 3772.86                                    | N.D.  | 80.53   | 3692.33                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/23/06    | 3772.86                                    | N.D.  | 80.56   | 3692.30                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/27/06    | 3772.86                                    | N.D.  | 80.61   | 3692.25                                      | 0.00                  | N/A                                  | N/A  |
|         | 06/30/06    | 3772.86                                    | N.D.  | 80.6  | 3692.26                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/05/06    | 3772.86                                    | N.D.  | 80.62   | 3692.24                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/07/06    | 3772.86                                    | N.D.  | 80.62   | 3692.24                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/11/06    | 3772.86                                    | N.D.  | 80.95   | 3691.91                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/13/06    | 3772.86                                    | N.D.  | 80.68   | 3692.18                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/18/06    | 3772.86                                    | N.D.  | 80.68   | 3692.18                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/21/06    | 3772.86                                    | N.D.  | 80.67   | 3692.19                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/25/06    | 3772.86                                    | N.D.  | 80.71   | 3692.15                                      | 0.00                  | N/A                                  | N/A  |
|         | 07/27/06    | 3772.86                                    | N.D.  | 80.7  | 3692.16                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/01/06    | 3772.86                                    | N.D.  | 80.75   | 3692.11                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/03/06    | 3772.86                                    | N.D.  | 80.75   | 3692.11                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/09/06    | 3772.86                                    | N.D.  | 80.78   | 3692.08                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/11/06    | 3772.86                                    | N.D.  | 80.78   | 3692.08                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/15/06    | 3772.86                                    | N.D.  | 80.74   | 3692.12                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/19/06    | 3772.86                                    | N.D.  | 80.81   | 3692.05                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/25/06    | 3772.86                                    | N.D.  | 80.84   | 3692.02                                      | 0.00                  | N/A                                  | N/A  |
|         | 08/30/06    | 3772.86                                    | N.D.  | 80.86   | 3692.00                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/12/06    | 3772.86                                    | NM  | NM  | NM   | 0.00                  | N/A                                  | N/A  |
|         | 09/15/06    | 3772.86                                    | N.D.  | 80.93   | 3691.93                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/20/06    | 3772.86                                    | N.D.  | 80.93   | 3691.93                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/26/06    | 3772.86                                    | N.D.  | 80.98   | 3691.88                                      | 0.00                  | N/A                                  | N/A  |
|         | 09/29/06    | 3772.86                                    | N.D.  | 79.98   | 3692.88                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/04/06    | 3772.86                                    | N.D.  | 81.04   | 3691.82                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/06/06    | 3772.86                                    | N.D.  | 81.03   | 3691.83                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/12/06    | 3772.86                                    | N.D.  | 81.05   | 3691.81                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/17/06    | 3772.86                                    | N.D.  | 81.08   | 3691.78                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/20/06    | 3772.86                                    | N.D.  | 81.40   | 3691.46                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/24/06    | 3772.86                                    | N.D.  | 81.40   | 3691.81                                      | 0.00                  | N/A                                  | N/A  |
|         | 10/25/06    | 3772.86                                    | N.D.  | 81.05   | 3691.81                                      | 0.00                  | N/A                                  | N/A  |
|         | 11/22/06    | 3772.86                                    | N.D.  | 81.17   | 3691.69                                      | 0.00                  | N/A                                  | N/A  |



TABLE 1  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NMOC REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet) <sup>a</sup> | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet) <sup>b</sup> | PSH<br>THICKNESS (ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---|---|---|---|-----------------------|--------------------------------------|--|
| MW-4    | 11/28/06    | 3772.86   | N.D.  | 81.20   | 3691.66   | 0.00                  | N/A                                  | N/A  |
|         | 12/06/06    | 3772.86   | N.D.  | 81.27   | 3691.59   | 0.00                  | N/A                                  | N/A  |
|         | 12/08/06    | 3772.86   | N.D.  | 81.07   | 3691.79   | 0.00                  | N/A                                  | N/A  |
|         | 12/12/06    | 3772.86   | N.D.  | 82.36   | 3690.50   | 0.00                  | N/A                                  | N/A  |
|         | 12/15/06    | 3772.86   | N.D.  | 81.07   | 3691.79   | 0.00                  | N/A                                  | N/A  |
|         | 12/20/06    | 3772.86   | N.D.  | 81.16   | 3691.57   | 0.00                  | N/A                                  | N/A  |
|         | 12/22/06    | 3772.86   | N.D.  | 81.29   | 3691.57   | 0.00                  | N/A                                  | N/A  |
|         | 12/27/06    | 3772.86   | N.D.  | 81.33   | 3691.53   | 0.00                  | N/A                                  | N/A  |
|         | 01/03/07    | 3772.86   | N.D.  | 81.34   | 3691.52   | 0.00                  | N/A                                  | N/A  |
|         | 01/06/07    | 3772.86   | N.D.  | 81.32   | 3691.54   | 0.00                  | N/A                                  | N/A  |
|         | 01/12/07    | 3772.86   | N.D.  | 81.36   | 3691.50   | 0.00                  | N/A                                  | N/A  |
|         | 01/15/07    | 3772.86   | N.D.  | 81.42   | 3691.44   | 0.00                  | N/A                                  | N/A  |
|         | 01/18/07    | 3772.86   | N.D.  | 81.39   | 3691.47   | 0.00                  | N/A                                  | N/A  |
|         | 01/31/07    | 3772.86   | N.D.  | 81.35   | 3691.51   | 0.00                  | N/A                                  | N/A  |
|         | 02/07/07    | 3772.86   | N.D.  | 81.27   | 3691.59   | 0.00                  | N/A                                  | N/A  |
|         | 02/09/07    | 3772.86   | N.D.  | 81.45   | 3691.41   | 0.00                  | N/A                                  | N/A  |
|         | 02/13/07    | 3772.86   | N.D.  | 81.41   | 3691.45   | 0.00                  | N/A                                  | N/A  |
|         | 02/16/07    | 3772.86   | 80.26   | 80.39   | 3692.58   | 0.13                  | N/A                                  | N/A  |
|         | 02/19/07    | 3772.86   | 81.36   | 81.37   | 3691.50   | 0.01                  | N/A                                  | N/A  |
|         | 02/21/07    | 3772.86   | N.D.  | 81.41   | 3691.45   | 0.00                  | N/A                                  | N/A  |
|         | 02/26/07    | 3772.86   | N.D.  | 81.44   | 3691.42   | 0.00                  | N/A                                  | N/A  |
|         | 03/01/07    | 3772.86   | N.D.  | 81.42   | 3691.44   | 0.00                  | N/A                                  | N/A  |
|         | 03/06/07    | 3772.86   | N.D.  | 81.11   | 3691.75   | 0.00                  | N/A                                  | N/A  |
|         | 03/09/07    | 3772.86   | N.D.  | 81.43   | 3691.43   | 0.00                  | N/A                                  | N/A  |
|         | 03/13/07    | 3772.86   | N.D.  | 81.42   | 3691.44   | 0.00                  | N/A                                  | N/A  |
|         | 03/23/07    | 3772.86   | N.D.  | 81.44   | 3691.42   | 0.00                  | N/A                                  | N/A  |
|         | 03/27/07    | 3773.76   | N.D.  | 81.43   | 3692.33   | 0.00                  | N/A                                  | N/A  |
|         | 03/29/07    | 3773.76   | N.D.  | 81.12   | 3692.64   | 0.00                  | N/A                                  | N/A  |
|         | 04/06/07    | 3773.76   | N.D.  | 81.47   | 3692.29   | 0.00                  | N/A                                  | N/A  |
|         | 04/11/07    | 3773.76   | N.D.  | 81.46   | 3692.30   | 0.00                  | N/A                                  | N/A  |
|         | 04/17/07    | 3773.76   | N.D.  | 81.47   | 3692.29   | 0.00                  | N/A                                  | N/A  |
|         | 04/19/07    | 3773.76   | N.D.  | 81.47   | 3692.29   | 0.00                  | N/A                                  | N/A  |
|         | 04/24/07    | 3773.76   | N.D.  | 81.43   | 3692.33   | 0.00                  | N/A                                  | N/A  |
|         | 05/01/07    | 3773.76   | N.D.  | 81.51   | 3692.25   | 0.00                  | N/A                                  | N/A  |
|         | 05/21/07    | 3773.76   | N.D.  | 81.51   | 3692.25   | 0.00                  | N/A                                  | N/A  |
|         | 05/24/07    | 3773.76   | N.D.  | 81.57   | 3692.19   | 0.00                  | N/A                                  | N/A  |
|         | 06/19/07    | 3773.76   | N.D.  | 81.51   | 3692.25   | 0.00                  | N/A                                  | N/A  |
|         | 06/28/07    | 3773.76   | N.D.  | 81.49   | 3692.25   | 0.00                  | N/A                                  | N/A  |
|         | 08/07/07    | 3773.76   | N.D.  | 81.54   | 3692.22   | 0.00                  | N/A                                  | N/A  |
|         | 08/17/07    | 3773.76   | N.D.  | 81.62   | 3692.14   | 0.00                  | N/A                                  | N/A  |
|         | 08/23/07    | 3773.76   | N.D.  | 81.64   | 3692.12   | 0.00                  | N/A                                  | N/A  |
|         | 09/20/07    | 3773.76   | N.D.  | 81.72   | 3692.04   | 0.00                  | N/A                                  | N/A  |
|         | 10/11/07    | 3773.76   | N.D.  | 81.77   | 3691.99   | 0.00                  | N/A                                  | N/A  |
|         | 11/21/07    | 3773.76   | N.D.  | 81.97   | 3691.79   | 0.00                  | N/A                                  | N/A  |
|         | 12/17/07    | 3773.76   | N.D.  | 82.04   | 3691.72   | 0.00                  | N/A                                  | N/A  |
|         | 12/28/07    | 3773.76   | N.D.  | 82.06   | 3691.70   | 0.00                  | N/A                                  | N/A  |
| MW-5    | 11/15/07    | Installed Well  |   |   |   |                       |                                      |  |
|         | 11/27/07    | 3772.08   | 79.69   | 79.98   | 3692.36   | 0.29                  | 0.00                                 | 0.00                                       |
|         | 12/17/07    | 3772.08   | 79.55   | 80.81   | 3692.39   | 1.36                  | 0.00                                 | 0.00                                       |
|         | 12/28/07    | 3772.08   | 79.49   | 81.68   | 3692.37   | 2.19                  | 0.00                                 | 0.00                                       |
|         | 12/31/08    | 3772.08   | 79.43   | 81.88   | 3692.41   | 2.45                  | 2.00                                 | 2.00                                       |



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PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #2  
NMOCD REF. # 1R-0381  
LEA COUNTY, NEW MEXICO - SRS# 2002-10273  
Talon/LPE Project Number PLAINS008SPL

| WELL ID | DATE GAUGED | Relative Top of Casing<br>Elevation (Feet)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | Adjusted<br>Potentiometric<br>Surface (Feet) | PSH<br>THICKNESS (ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---|---|---|--|-----------------------|--------------------------------------|--|
| MW-6    | 11/15/07    | Installed Well                              |   |   |  |                       |                                      |  |
|         | 11/27/07    | 3772.99                                     | 80.66   | 81.54   | 3692.24                                      | 0.88                  | 0.00                                 | 0.00                                       |
|         | 12/17/07    | 3772.99                                     | 80.42   | 83.14   | 3692.30                                      | 2.72                  | 0.00                                 | 0.00                                       |
|         | 12/28/07    | 3772.99                                     | 80.24   | 84.27   | 3692.35                                      | 4.03                  | 0.00                                 | 0.00                                       |
| MW-7    | 12/31/08    | 3772.99                                     | 80.21   | 84.66   | 3692.34                                      | 4.45                  | 4.00                                 | 4.00                                       |
|         | 11/15/07    | Installed Well                              |   |   |  |                       |                                      |  |
|         | 11/27/07    | 3772.92                                     | 80.72   | 81.56   | 3692.12                                      | 0.84                  | 0.00                                 | 0.00                                       |
|         | 12/17/07    | 3772.92                                     | 80.51   | 82.94   | 3692.17                                      | 2.43                  | 0.00                                 | 0.00                                       |
| MW-8    | 12/28/07    | 3772.92                                     | 80.44   | 83.86   | 3692.14                                      | 3.42                  | 0.00                                 | 0.00                                       |
|         | 12/31/08    | 3772.92                                     | 80.31   | 84.19   | 3691.68                                      | 3.28                  | 3.00                                 | 3.00                                       |
|         | 11/15/07    | Installed Well                              |   |   |  |                       |                                      |  |
|         | 11/27/07    | 3773.80                                     |   | 82.11   | 3691.69                                      |                       |                                      |  |
| MW-9    | 12/17/07    | 3773.80                                     |   | 82.21   | 3691.59                                      |                       |                                      |  |
|         | 12/28/07    | 3773.80                                     |   | 82.24   | 3691.56                                      |                       |                                      |  |
|         | 11/15/07    | Installed Well                              |   |   |  |                       |                                      |  |
|         | 11/27/07    | 3771.79                                     | 79.47   | 79.33   | 3692.27                                      | 0.46                  | 0.00                                 | 0.00                                       |
| MW-10   | 12/17/07    | 3771.79                                     | 79.35   | 80.82   | 3692.29                                      | 1.47                  | 0.00                                 | 0.00                                       |
|         | 12/28/07    | 3771.79                                     | 79.30   | 81.48   | 3692.27                                      | 2.18                  | 0.00                                 | 0.00                                       |
|         | 12/31/08    | 3771.79                                     | 79.27   | 81.76   | 3692.27                                      | 2.49                  | 2.00                                 | 2.00                                       |
|         | 11/15/07    | Installed Well                              |   |   |  |                       |                                      |  |
| MW-11   | 11/27/07    | 3771.90                                     |   | 79.13   | 3692.77                                      |                       |                                      |  |
|         | 12/17/07    | 3771.90                                     |   | 79.18   | 3692.72                                      |                       |                                      |  |
|         | 12/28/07    | 3771.90                                     |   | 79.18   | 3692.72                                      |                       |                                      |  |
|         | 11/14/07    | Installed Well                              |   |   |  |                       |                                      |  |
| MW-12   | 11/27/07    | 3772.97                                     |   | 80.50   | 3692.47                                      |                       |                                      |  |
|         | 12/17/07    | 3772.97                                     |   | 80.52   | 3692.45                                      |                       |                                      |  |
|         | 12/28/07    | 3772.97                                     |   | 80.58   | 3692.39                                      |                       |                                      |  |
|         | 11/14/07    | Installed Well                              |   |   |  |                       |                                      |  |
| MW-13   | 11/27/07    | 3773.80                                     |   | 82.74   | 3691.06                                      |                       |                                      |  |
|         | 12/17/07    | 3773.80                                     |   | 81.77   | 3692.03                                      |                       |                                      |  |
|         | 12/28/07    | 3773.80                                     |   | 81.76   | 3692.04                                      |                       |                                      |  |
|         | 11/14/07    | Installed Well                              |   |   |  |                       |                                      |  |
| MW-14   | 11/27/07    | 3774.36                                     |   | 82.71   | 3691.65                                      |                       |                                      |  |
|         | 12/17/07    | 3774.36                                     |   | 82.84   | 3691.52                                      |                       |                                      |  |
|         | 12/28/07    | 3774.36                                     |   | 82.86   | 3691.50                                      |                       |                                      |  |
|         | 11/14/07    | Installed Well                              |   |   |  |                       |                                      |  |

Existing wells now utilize new survey data back to 3/27/08  
NM=No Measurement



**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #2**  
**NMOCD REF. # 1R-0381**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10273**  
**Talon/LPE Project Number PLAINS008SPL**

*All concentrations are in mg/L*

| Sample Location        | Sample Date | Benzene   | Ethyl-benzene | m,p-Xylenes         | o-Xylene | Toluene  |
|------------------------|-------------|---|---------------|---------------------|----------|----------|
| MW-1                   | 03/29/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
|                        | 06/19/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
|                        | 09/20/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
|                        | 12/18/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
| MW-2                   | 03/29/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
|                        | 06/19/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
|                        | 09/20/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
|                        | 12/18/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
| MW-3                   | 03/29/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
|                        | 06/19/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
|                        | 09/20/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
|                        | 12/18/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
| MW-4                   | 03/29/07    | 7.18  | 0.452         | 0.297               | 0.287    | 0.530    |
|                        | 06/19/07    | 16.85   | 0.7990        | 0.3530              | 0.4120   | 0.7600   |
|                        | 09/20/07    | 17.21   | 0.5900        | 0.3170              | 0.3880   | 0.4370   |
|                        | 12/28/07    | 20.6  | 0.856         | 1.50                |          | 0.912    |
| MW-5                   | 11/16/07    | Well Installation   |               |                     |          |          |
|                        | 12/18/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
| MW-6                   | 11/15/07    | Well Installation   |               |                     |          |          |
|                        | 12/18/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
| MW-7                   | 11/15/07    | Well Installation   |               |                     |          |          |
|                        | 12/18/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
| MW-8                   | 11/15/07    | Well Installation   |               |                     |          |          |
|                        | 12/18/07    | 0.660   | 0.0211        | 0.0789              |          | 0.0211   |
| MW-9                   | 11/15/07    | Well Installation   |               |                     |          |          |
|                        | 12/18/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |                     |          |          |
| MW-10                  | 11/15/07    | Well Installation   |               |                     |          |          |
|                        | 12/19/07    | <0.00100  | <0.00100      | <0.00100            |          | <0.00100 |
| MW-11                  | 11/14/07    | Well Installation   |               |                     |          |          |
|                        | 12/19/07    | 0.0180  | 0.00110       | 0.00120             |          | 0.00790  |
| MW-12                  | 11/14/07    | Well Installation   |               |                     |          |          |
|                        | 12/19/07    | <0.00500  | <0.00500      | <0.00500            |          | <0.00500 |
| MW-13                  | 11/14/07    | Well Installation   |               |                     |          |          |
|                        | 12/18/07    | <0.00100  | <0.00100      | <0.00100            |          | <0.00100 |
| NMWQCC Remedial Limits |             | 0.010   | 0.750         | Total Xylenes 0.620 |          | 0.750    |

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





**TABLE 3**  
**SUMMARY OF GROUNDWATER POLYCYCLIC AROMATIC**  
**HYDROCARBON (PAH) ANALYTICAL RESULTS**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #2**  
**NMOCD REF. # 1R-0381**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10273**  
**Talon/LPE Project Number PLAINS008SPL**

*All concentrations are in mg/L*

| Sample Location        | Sample Date | Acenaphthene  | Acenaphthylene | Anthracene | Benzo[a]-anthracene | Benzo[a]-pyrene | Benzo[b]-fluoranthene | Benzo[g,h,i]-perylene | Benzo[k]-fluoranthene | Chrysene | Dibenz[a,h]-anthracene | Fluoranthene | Fluorene | Indeno[1,2,3-cd]-pyrene | Naphthalene  | Phenanthrene | Pyrene |
|------------------------|-------------|---|----------------|------------|---------------------|-----------------|-----------------------|-----------------------|-----------------------|----------|------------------------|--------------|----------|-------------------------|--------------|--------------|--------|
| MW-1                   | 03/29/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |                |            |                     |                 |                       |                       |                       |          |                        |              |          |                         |              |              |        |
| MW-2                   | 03/29/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |                |            |                     |                 |                       |                       |                       |          |                        |              |          |                         |              |              |        |
| MW-3                   | 03/29/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |                |            |                     |                 |                       |                       |                       |          |                        |              |          |                         |              |              |        |
| MW-4                   | 02/07/07    | <0.005  | <0.005         | <0.005     | <0.005              | <0.005          | <0.005                | <0.005                | <0.005                | <0.005   | <0.005                 | <0.005       | <0.005   | <0.005                  | <b>0.042</b> | <0.005       | <0.005 |
| NMWQCC Remedial Limits |             | 0.030   | 0.030          | 0.030      | 0.030               | 0.030           | 0.030                 | 0.030                 | 0.030                 | 0.030    | 0.030                  | 0.030        | 0.030    | 0.030                   | 0.030        | 0.030        | 0.030  |

<sup>1</sup> *Bolded values are in excess of the NMWQCC Remediation Thresholds*

## **APPENDIX C**

### **Laboratory Analytical Data Sheets and Chain of Custody Documentation**



A Xenco Laboratories Company

## Analytical Report

**Prepared for:**

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: 8 inch Moore to Jal #2

Project Number: 2002-10273

Location: Hobbs, NM

Lab Order Number: 7C30003

Report Date: 04/06/07

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

Project: 8 inch Moore to Jal #2  
Project Number: 2002-10273  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

#### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received    |
|-----------|---------------|--------|----------------|------------------|
| MW-4      | 7C30003-01    | Water  | 03/29/07 15:54 | 03-30-2007 08:43 |

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

Project: 8 inch Moore to Jal #2  
Project Number: 2002-10273  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                                  | Result       | Reporting<br>Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--|--------------|--------------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>MW-4 (7C30003-01) Water</b>           |              |                    |        |          |         |          |          |           |       |
| <b>Benzene</b>                           | <b>7.18</b>  | 0.0250             | mg/L   | 25       | ED70506 | 04/05/07 | 04/05/07 | EPA 8021B |       |
| <b>Toluene</b>                           | <b>0.530</b> | 0.0250             | "      | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>                      | <b>0.452</b> | 0.0250             | "      | "        | "       | "        | "        | "         |       |
| <b>Xylene (p/m)</b>                      | <b>0.297</b> | 0.0250             | "      | "        | "       | "        | "        | "         |       |
| <b>Xylene (o)</b>                        | <b>0.287</b> | 0.0250             | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> |              | 103 %              | 80-120 |          | "       | "        | "        | "         |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>   |              | 98.4 %             | 80-120 |          | "       | "        | "        | "         |       |

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Page 2 of 5

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

Project: 8 inch Moore to Jal #2  
Project Number: 2002-10273  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch ED70506 - EPA 5030C (GC)**

**Blank (ED70506-BLK1)**

Prepared & Analyzed: 04/05/07

|                                   |      |         |      |      |  |      |        |  |  |  |
|-----------------------------------|------|---------|------|------|--|------|--------|--|--|--|
| Benzene                           | ND   | 0.00100 | mg/L |      |  |      |        |  |  |  |
| Toluene                           | ND   | 0.00100 | "    |      |  |      |        |  |  |  |
| Ethylbenzene                      | ND   | 0.00100 | "    |      |  |      |        |  |  |  |
| Xylene (p/m)                      | ND   | 0.00100 | "    |      |  |      |        |  |  |  |
| Xylene (o)                        | ND   | 0.00100 | "    |      |  |      |        |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 53.5 |         | ug/l | 50.0 |  | 107  | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 44.5 |         | "    | 50.0 |  | 89.0 | 80-120 |  |  |  |

**LCS (ED70506-BS1)**

Prepared & Analyzed: 04/05/07

|                                   |        |         |      |        |  |      |        |  |  |  |
|-----------------------------------|--------|---------|------|--------|--|------|--------|--|--|--|
| Benzene                           | 0.0493 | 0.00100 | mg/L | 0.0500 |  | 98.6 | 80-120 |  |  |  |
| Toluene                           | 0.0466 | 0.00100 | "    | 0.0500 |  | 93.2 | 80-120 |  |  |  |
| Ethylbenzene                      | 0.0489 | 0.00100 | "    | 0.0500 |  | 97.8 | 80-120 |  |  |  |
| Xylene (p/m)                      | 0.0910 | 0.00100 | "    | 0.100  |  | 91.0 | 80-120 |  |  |  |
| Xylene (o)                        | 0.0499 | 0.00100 | "    | 0.0500 |  | 99.8 | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 49.8   |         | ug/l | 50.0   |  | 99.6 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 47.0   |         | "    | 50.0   |  | 94.0 | 80-120 |  |  |  |

**Calibration Check (ED70506-CCV1)**

Prepared & Analyzed: 04/05/07

|                                   |      |  |      |      |  |      |        |  |  |  |
|-----------------------------------|------|--|------|------|--|------|--------|--|--|--|
| Benzene                           | 55.0 |  | ug/l | 50.0 |  | 110  | 80-120 |  |  |  |
| Toluene                           | 50.8 |  | "    | 50.0 |  | 102  | 80-120 |  |  |  |
| Ethylbenzene                      | 50.8 |  | "    | 50.0 |  | 102  | 80-120 |  |  |  |
| Xylene (p/m)                      | 91.8 |  | "    | 100  |  | 91.8 | 80-120 |  |  |  |
| Xylene (o)                        | 52.7 |  | "    | 50.0 |  | 105  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 54.8 |  | "    | 50.0 |  | 110  | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 48.1 |  | "    | 50.0 |  | 96.2 | 80-120 |  |  |  |

**Matrix Spike (ED70506-MS1)**

Source: 7C30008-01

Prepared & Analyzed: 04/05/07

|                                   |        |         |      |        |    |      |        |  |  |  |
|-----------------------------------|--------|---------|------|--------|----|------|--------|--|--|--|
| Benzene                           | 0.0531 | 0.00100 | mg/L | 0.0500 | ND | 106  | 80-120 |  |  |  |
| Toluene                           | 0.0495 | 0.00100 | "    | 0.0500 | ND | 99.0 | 80-120 |  |  |  |
| Ethylbenzene                      | 0.0488 | 0.00100 | "    | 0.0500 | ND | 97.6 | 80-120 |  |  |  |
| Xylene (p/m)                      | 0.0931 | 0.00100 | "    | 0.100  | ND | 93.1 | 80-120 |  |  |  |
| Xylene (o)                        | 0.0527 | 0.00100 | "    | 0.0500 | ND | 105  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 55.2   |         | ug/l | 50.0   |    | 110  | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 51.0   |         | "    | 50.0   |    | 102  | 80-120 |  |  |  |

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

Project: 8 inch Moore to Jal #2  
Project Number: 2002-10273  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch ED70506 - EPA 5030C (GC)**

**Matrix Spike Dup (ED70506-MSD1)**

**Source: 7C30008-01**

**Prepared & Analyzed: 04/05/07**

|                                   |        |         |      |        |    |      |        |       |    |  |
|-----------------------------------|--------|---------|------|--------|----|------|--------|-------|----|--|
| Benzene                           | 0.0526 | 0.00100 | mg/L | 0.0500 | ND | 105  | 80-120 | 0.948 | 20 |  |
| Toluene                           | 0.0493 | 0.00100 | "    | 0.0500 | ND | 98.6 | 80-120 | 0.405 | 20 |  |
| Ethylbenzene                      | 0.0504 | 0.00100 | "    | 0.0500 | ND | 101  | 80-120 | 3.42  | 20 |  |
| Xylene (p/m)                      | 0.0919 | 0.00100 | "    | 0.100  | ND | 91.9 | 80-120 | 1.30  | 20 |  |
| Xylene (o)                        | 0.0521 | 0.00100 | "    | 0.0500 | ND | 104  | 80-120 | 0.957 | 20 |  |
| Surrogate: a,a,a-Trifluorotoluene | 52.3   |         | ug/l | 50.0   |    | 105  | 80-120 |       |    |  |
| Surrogate: 4-Bromofluorobenzene   | 48.0   |         | "    | 50.0   |    | 96.0 | 80-120 |       |    |  |

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

Project: 8 inch Moore to Jal #2  
Project Number: 2002-10273  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

### Notes and Definitions

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

Report Approved By: 

Date: 4/6/2007

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

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

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# **Analytical Report 279974**

**for**

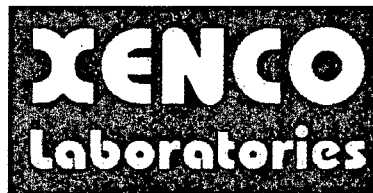
**PLAINS ALL AMERICAN EH&S**

**Project Manager: Camille Reynolds**

**8" Moore to Jal #2**

**2002-10273**

**04-APR-07**



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

**NELAC certification numbers:**

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

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



04-APR-07

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

Reference: XENCO Report No: **279974**  
**8" Moore to Jal #2**  
Project Address: Hobbs, NM

**Camille Reynolds:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 279974. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 279974 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

---

**Brent Barron**

Odessa Laboratory Director

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

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



# Certificate of Analysis Summary 279974

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Name: 8" Moore to Jal #2

Project Id: 2002-10273

Date Received in Lab: Mar-30-07 08:43 am

Contact: Camille Reynolds

Report Date: 04-APR-07


Project Location: Hobbs, NM

Project Manager: Brent Barron, II

|                                    |                   |                 |  |  |  |
|------------------------------------|-------------------|-----------------|--|--|--|
| <b>Analysis Requested</b>          | <b>Lab Id:</b>    | 279974-001      |  |  |  |
|                                    | <b>Field Id:</b>  | MW-4            |  |  |  |
|                                    | <b>Depth:</b>     |                 |  |  |  |
|                                    | <b>Matrix:</b>    | WATER           |  |  |  |
|                                    | <b>Sampled:</b>   | Mar-29-07 15:54 |  |  |  |
| <b>SVOA PAHs List by EPA 8270C</b> | <b>Extracted:</b> | Apr-02-07 10:54 |  |  |  |
|                                    | <b>Analyzed:</b>  | Apr-03-07 15:50 |  |  |  |
|                                    | <b>Units/RL:</b>  | mg/L RL         |  |  |  |
|                                    |                   |                 |  |  |  |
| Acenaphthene                       |                   | ND 0.005        |  |  |  |
| Acenaphthylene                     |                   | ND 0.005        |  |  |  |
| Anthracene                         |                   | ND 0.005        |  |  |  |
| Benzo(a)anthracene                 |                   | ND 0.005        |  |  |  |
| Benzo(a)pyrene                     |                   | ND 0.005        |  |  |  |
| Benzo(b)fluoranthene               |                   | ND 0.005        |  |  |  |
| Benzo(k)fluoranthene               |                   | ND 0.005        |  |  |  |
| Benzo(g,h,i)perylene               |                   | ND 0.005        |  |  |  |
| Chrysene                           |                   | ND 0.005        |  |  |  |
| Dibenz(a,h)Anthracene              |                   | ND 0.005        |  |  |  |
| Fluoranthene                       |                   | ND 0.005        |  |  |  |
| Fluorene                           |                   | ND 0.005        |  |  |  |
| Indeno(1,2,3-c,d)Pyrene            |                   | ND 0.005        |  |  |  |
| Naphthalene                        |                   | 0.042 0.005     |  |  |  |
| Phenanthrene                       |                   | ND 0.005        |  |  |  |
| Pyrene                             |                   | ND 0.005        |  |  |  |

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

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Brent Barron  
Odessa Laboratory Director

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

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11381 Meadowglen Lane Suite L Houston, Tx 77082-2647  
9701 Harry Hines Blvd , Dallas, TX 75220  
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238  
3016 U.S. HWY 301 North - Suite 900, Tampa, FL 33619  
5757 NW 158th St, Miami Lakes, FL 33014

| Phone          | Fax            |
|----------------|----------------|
| (281) 589-0692 | (281) 589-0695 |
| (214) 902 0300 | (214) 351-9139 |
| (210) 509-3334 | (201) 509-3335 |
| (813) 620-2000 | (813) 620-2033 |
| (305) 823-8500 | (305) 823-8555 |

# Form 2 - Surrogate Recoveries

Project Name: 8" Moore to Jal #2

Work Order #: 279974

Project ID: 2002-10273

Lab Batch #: 694393

Sample: 279817-001 S / MS

Batch: 1 Matrix: Sludge

Units: mg/L

## SURROGATE RECOVERY STUDY

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

Lab Batch #: 694393

Sample: 279974-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

## SURROGATE RECOVERY STUDY

| SVOA PAHs List by EPA 8270C<br>Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|------------------|-----------------|-----------------|-------------------|-------|
| 2-Fluorobiphenyl                        | 0.038            | 0.050           | 76              | 43-116            |       |
| 2-Fluorophenol                          | 0.017            | 0.050           | 34              | 21-100            |       |
| Nitrobenzene-d5                         | 0.034            | 0.050           | 68              | 35-114            |       |
| Phenol-d6                               | 0.010            | 0.050           | 20              | 10-94             |       |
| Terphenyl-D14                           | 0.034            | 0.050           | 68              | 33-141            |       |
| 2,4,6-Tribromophenol                    | 0.043            | 0.050           | 86              | 10-123            |       |

Lab Batch #: 694393

Sample: 493724-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

## SURROGATE RECOVERY STUDY

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

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 \times A / B$

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

# Form 2 - Surrogate Recoveries

Project Name: 8" Moore to Jal #2

Work Order #: 279974

Project ID: 2002-10273

Lab Batch #: 694393

Sample: 493724-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

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

Lab Batch #: 694393

Sample: 493724-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

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

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

\*\*\* Poor recoveries due to dilution

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

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

Project Name: 8" Moore to Jal #2

Work Order #: 279974

Analyst: TTD

Lab Batch ID: 694393

Sample: 493724-1-BKS

Date Prepared: 04/02/2007

Batch #: 1

Project ID: 2002-10273

Date Analyzed: 04/03/2007

Matrix: Water

Units: mg/L

| BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY |                         |                 |                        |                    |                 |                                  |                      |       |                   |                     |      |
|---|-------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
|   | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| SVOA PAHs List by EPA 8270C                               | Acenaphthene            | ND              | 0.050                  | 0.037              | 74              | 0.05                             | 0.040                | 80    | 8                 | 27-132              | 31   |
|   | Acenaphthylene          | ND              | 0.050                  | 0.037              | 74              | 0.05                             | 0.040                | 80    | 8                 | 46-108              | 25   |
|   | Anthracene              | ND              | 0.050                  | 0.038              | 76              | 0.05                             | 0.040                | 80    | 5                 | 47-145              | 25   |
|   | Benzo(a)anthracene      | ND              | 0.050                  | 0.039              | 78              | 0.05                             | 0.041                | 82    | 5                 | 33-143              | 25   |
|   | Benzo(a)pyrene          | ND              | 0.050                  | 0.039              | 78              | 0.05                             | 0.041                | 82    | 5                 | 65-135              | 25   |
|   | Benzo(b)fluoranthene    | ND              | 0.050                  | 0.040              | 80              | 0.05                             | 0.043                | 86    | 7                 | 24-159              | 25   |
|   | Benzo(k)fluoranthene    | ND              | 0.050                  | 0.039              | 78              | 0.05                             | 0.040                | 80    | 3                 | 25-125              | 25   |
|   | Benzo(g,h,i)perylene    | ND              | 0.050                  | 0.041              | 82              | 0.05                             | 0.043                | 86    | 5                 | 65-135              | 25   |
|   | Chrysene                | ND              | 0.050                  | 0.039              | 78              | 0.05                             | 0.041                | 82    | 5                 | 65-135              | 25   |
|   | Dibenz(a,h)Anthracene   | ND              | 0.050                  | 0.040              | 80              | 0.05                             | 0.042                | 84    | 5                 | 50-125              | 25   |
|   | Fluoranthene            | ND              | 0.050                  | 0.040              | 80              | 0.05                             | 0.042                | 84    | 5                 | 47-125              | 25   |
|   | Fluorene                | ND              | 0.050                  | 0.038              | 76              | 0.05                             | 0.041                | 82    | 8                 | 48-139              | 25   |
|   | Indeno(1,2,3-c,d)Pyrene | ND              | 0.050                  | 0.039              | 78              | 0.05                             | 0.041                | 82    | 5                 | 27-160              | 25   |
|   | Naphthalene             | ND              | 0.050                  | 0.036              | 72              | 0.05                             | 0.040                | 80    | 11                | 26-175              | 25   |
|   | Phenanthrene            | ND              | 0.050                  | 0.039              | 78              | 0.05                             | 0.040                | 80    | 3                 | 65-135              | 25   |
| Pyrene  | ND                      | 0.050           | 0.039                  | 78                 | 0.05            | 0.041                            | 82                   | 5     | 23-152            | 31                  |      |

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



# Form 3 - MS Recoveries

Project Name: 8" Moore to Jal #2



Work Order #: 279974

Lab Batch #: 694393

Date Analyzed: 04/03/2007

QC- Sample ID: 279817-001 S

Reporting Units: mg/L

Date Prepared: 04/02/2007

Batch #: 1

Project ID: 2002-10273

Analyst: TTD

Matrix: Sludge

## MATRIX / MATRIX SPIKE RECOVERY STUDY

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

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



## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West 1-20 East  
Odessa, Texas 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Phone: 432-563-1800**

**Fax: 432-563-1713**

112

Project Name: Move to Jail #2

Project #: Plains 06/35/22

Project Loc: Hobbs, NM

PO#: 2002-10

Report Format: ☒ Standard

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: [SSmith@TalonLPT.com](mailto:SSmith@TalonLPT.com)

Lab use only

ORDER # 1140003

1140003

FIELD CODE

1140003

Time Sampled

3/24/07 15 54

Date Sampled

3/24/07

Ending Depth

Beginning Depth

LAB # (lab use only)

1140003

Matrix

NP=Non-Potable Specly Other

GW = Groundwater S=Soil/Solid

DW=Drinking Water SL=Sludge

Other (Specify)

None

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

NaOH

H<sub>2</sub>SO<sub>4</sub>

HCl

HNO<sub>3</sub>

ICA

Preservation & # of Containers

Total # of Containers

Field Filtered

TPH: 418.1 8015M 8015B

TPH: TX 1005 TX 1008

Calcions (Ca, Mg, Na, K)

Anions (Cl, SO<sub>4</sub>, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 80218 80530 or BTEX 8260

RCI

N.O.R.M.

X PAH

RUSH TAT (pre-schedule) 24, 48, 72 hrs

Standard TAT

Special Instructions:

Relinquished by: [Signature] Date: 3/30/07 Time: 8:45

Relinquished by: [Signature] Date: [ ] Time: [ ]

Relinquished by: [Signature] Date: [ ] Time: [ ]

Received by: [Signature] Date: [ ] Time: [ ]

Received by: [Signature] Date: [ ] Time: [ ]

Received by: [Signature] Date: [ ] Time: [ ]

Temperature Upon Receipt 0.5 °C

by FedEx? UPS? DHL? FedEx? Lone Star

Sampled and Delivered by Sampler Client Rep. ?

Clashed/seals on plane(s) ?

MOCA in Field Headspaces ?

Lab use only

# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client: Talon Plains  
 Date/ Time: 3/30/07 8:45  
 Lab ID #: 7C30003  
 Initials: UK

### Sample Receipt Checklist

Client Initials

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

### Variance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

Check all that Apply:

☐  
☐  
☐

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

# **Analytical Report 284676**

**for**

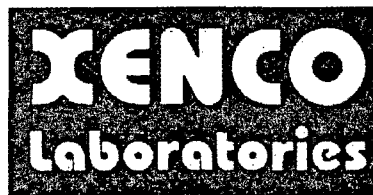
## **PLAINS ALL AMERICAN EH&S**

**Project Manager: Camille Reynolds**

**Moore to Jal # 2**

**2002-10273**

**29-JUN-07**



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

**NELAC certification numbers:**

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

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



29-JUN-07

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

Reference: XENCO Report No: **284676**  
**Moore to Jal # 2**  
Project Address: Lea County, NM

**Camille Reynolds:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 284676. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 284676 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

**Brent Barron**

Odessa Laboratory Director

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## Sample Cross Reference 284676



PLAINS ALL AMERICAN EH&S, Midland, TX

Moore to Jal # 2

| Sample Id | Matrix | Date Collected  | Sample Depth | Lab Sample Id |
|-----------|--------|-----------------|--------------|---------------|
| MW-4      | W      | Jun-19-07 15:10 |              | 284676-001    |



# Certificate of Analysis Summary 284676

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



Project Id: 2002-10273

Contact: Camille Reynolds

Project Location: Lea County, NM

Project Name: Moore to Jal # 2

Date Received in Lab: Thu Jun-21-07 11:30 am

Report Date: 29-JUN-07

Project Manager: Brent Barron, II

| Analysis Requested | Lab Id:       | 284676-001      |  |  |  |  |
|--------------------|---------------|-----------------|--|--|--|--|
|                    | Field Id:     | MW-4            |  |  |  |  |
|                    | Depth:        |                 |  |  |  |  |
|                    | Matrix:       | WATER           |  |  |  |  |
|                    | Sampled:      | Jun-19-07 15:10 |  |  |  |  |
| BTEX by EPA 8021B  | Extracted:    | Jun-26-07 16:54 |  |  |  |  |
|                    | Analyzed:     | Jun-28-07 10:07 |  |  |  |  |
|                    | Units/RL:     | mg/L RL         |  |  |  |  |
|                    | Benzene       | 16.85 0.1000    |  |  |  |  |
|                    | Toluene       | 0.7600 0.1000   |  |  |  |  |
|                    | Ethylbenzene  | 0.7990 0.1000   |  |  |  |  |
|                    | m,p-Xylene    | 0.3530 0.2000   |  |  |  |  |
|                    | o-Xylene      | 0.4120 0.1000   |  |  |  |  |
|                    | Total Xylenes | 0.765           |  |  |  |  |
|                    | Total BTEX    | 19.174          |  |  |  |  |

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

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Brent Barron  
Odessa Laboratory Director

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

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5332 Blackberry Drive, Suite 104, San Antonio, TX 78238  
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5757 NW 158th St, Miami Lakes, FL 33014

| Phone          | Fax            |
|----------------|----------------|
| (281) 589-0692 | (281) 589-0695 |
| (214) 902 0300 | (214) 351-9139 |
| (210) 509-3334 | (201) 509-3335 |
| (813) 620-2000 | (813) 620-2033 |
| (305) 823-8500 | (305) 823-8555 |



## Form 2 - Surrogate Recoveries

Project Name: Moore to Jal # 2



Work Order #: 284676

Project ID: 2002-10273

Lab Batch #: 699323

Sample: 284676-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

| SURROGATE RECOVERY STUDY |                  |                 |                 |                   |       |
|--------------------------|------------------|-----------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B        | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| Analytes                 |                  |                 |                 |                   |       |
| 4-Bromofluorobenzene     | 0.0518           | 0.0500          | 104             | 80-120            |       |

Lab Batch #: 699323

Sample: 285023-007 S / MS

Batch: 1 Matrix: Water

Units: mg/L

| SURROGATE RECOVERY STUDY |                  |                 |                 |                   |       |
|--------------------------|------------------|-----------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B        | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| Analytes                 |                  |                 |                 |                   |       |
| 4-Bromofluorobenzene     | 0.0536           | 0.0500          | 107             | 80-120            |       |

Lab Batch #: 699323

Sample: 285023-007 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

| SURROGATE RECOVERY STUDY |                  |                 |                 |                   |       |
|--------------------------|------------------|-----------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B        | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| Analytes                 |                  |                 |                 |                   |       |
| 4-Bromofluorobenzene     | 0.0537           | 0.0500          | 107             | 80-120            |       |

Lab Batch #: 699323

Sample: 496525-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

| SURROGATE RECOVERY STUDY |                  |                 |                 |                   |       |
|--------------------------|------------------|-----------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B        | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| Analytes                 |                  |                 |                 |                   |       |
| 4-Bromofluorobenzene     | 0.0577           | 0.0500          | 115             | 80-120            |       |

Lab Batch #: 699323

Sample: 496525-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

| SURROGATE RECOVERY STUDY |                  |                 |                 |                   |       |
|--------------------------|------------------|-----------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B        | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| Analytes                 |                  |                 |                 |                   |       |
| 1,4-Difluorobenzene      | ND               | ND              |                 | 80-120            | *U    |
| 4-Bromofluorobenzene     | 0.0540           | 0.0500          | 108             | 80-120            |       |

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 \times A / B$

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





## Blank Spike Recovery



Project Name: Moore to Jal # 2

Work Order #: 284676

Project ID:

2002-10273

Lab Batch #: 699323

Sample: 496525-1-BKS

Matrix: Water

Date Analyzed: 06/27/2007

Date Prepared: 06/26/2007

Analyst: CELKEE

Reporting Units: mg/L

Batch #: 1

### BLANK /BLANK SPIKE RECOVERY STUDY

| BTEX by EPA 8021B<br>Analytes | Blank<br>Result<br>[A] | Spike<br>Added<br>[B] | Blank<br>Spike<br>Result<br>[C] | Blank<br>Spike<br>%R<br>[D] | Control<br>Limits<br>%R | Flags |
|-------------------------------|------------------------|-----------------------|---------------------------------|-----------------------------|-------------------------|-------|
| Benzene                       | ND                     | 0.0500                | 0.0528                          | 106                         | 70-125                  |       |
| Toluene                       | ND                     | 0.0500                | 0.0545                          | 109                         | 70-125                  |       |
| Ethylbenzene                  | ND                     | 0.0500                | 0.0586                          | 117                         | 71-129                  |       |
| m,p-Xylene                    | ND                     | 0.1000                | 0.1023                          | 102                         | 70-131                  |       |
| o-Xylene                      | ND                     | 0.0500                | 0.0573                          | 115                         | 71-133                  |       |

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

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



## Form 3 - MS / MSD Recoveries



Project Name: Moore to Jal # 2

Work Order #: 284676

Lab Batch ID: 699323

Date Analyzed: 06/28/2007

Reporting Units: mg/L

Project ID: 2002-10273

QC-Sample ID: 285023-007 S

Date Prepared: 06/26/2007

Batch #: 1 Matrix: Water

Analyst: CELKEE

| MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY |                                   |                       |                                |                            |                       |  |                             |          |                         |                           |      |
|--|-----------------------------------|-----------------------|--------------------------------|----------------------------|-----------------------|--|-----------------------------|----------|-------------------------|---------------------------|------|
| BTEX by EPA 8021B<br><br>Analytes                    | Parent<br>Sample<br>Result<br>[A] | Spike<br>Added<br>[B] | Spiked Sample<br>Result<br>[C] | Spiked Sample<br>%R<br>[D] | Spike<br>Added<br>[E] | Duplicate<br>Spiked Sample<br>Result [F] | Spiked<br>Dup.<br>%R<br>[G] | RPD<br>% | Control<br>Limits<br>%R | Control<br>Limits<br>%RPD | Flag |
|  | Benzene                           | ND                    | 0.0500                         | 0.0563                     | 113                   | 0.0500                                   | 0.0554                      | 111      | 2                       | 70-125                    | 25   |
|  | Toluene                           | ND                    | 0.0500                         | 0.0565                     | 113                   | 0.0500                                   | 0.0557                      | 111      | 2                       | 70-125                    | 25   |
|  | Ethylbenzene                      | ND                    | 0.0500                         | 0.0591                     | 118                   | 0.0500                                   | 0.0580                      | 116      | 2                       | 71-129                    | 25   |
|  | m,p-Xylene                        | ND                    | 0.1000                         | 0.1025                     | 103                   | 0.1000                                   | 0.1007                      | 101      | -2                      | 70-131                    | 25   |
|  | o-Xylene                          | ND                    | 0.0500                         | 0.0578                     | 116                   | 0.0500                                   | 0.0575                      | 115      | 1                       | 71-133                    | 25   |

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

Relative Percent Difference  $RPD = 200 \times (D-G)/(D+G)$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

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



# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Talon  
 Date/ Time: 6-21-07 11:30  
 Lab ID #: 284676  
 Initials: al

### Sample Receipt Checklist

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

### Variance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

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

# **Analytical Report 289969**

**for**

## **PLAINS ALL AMERICAN EH&S**

**Project Manager: Camille Reynolds**

**Moore to Jal # 2**

**2002-10273**

**24-SEP-07**



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

**A Xenco Laboratories Company**

**Texas certification numbers:**

**Houston, TX T104704215**

**Florida certification numbers:**

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

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



24-SEP-07

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

Reference: XENCO Report No: **289969**  
**Moore to Jal # 2**  
Project Address: Lea County, NM

**Camille Reynolds:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 289969. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 289969 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink, appearing to read "Brent Barron", written over a horizontal line.

**Brent Barron**

Odessa Laboratory Director

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## Sample Cross Reference 289969

PLAINS ALL AMERICAN EH&S, Midland, TX

Moore to Jal # 2

| Sample Id | Matrix | Date Collected  | Sample Depth | Lab Sample Id |
|-----------|--------|-----------------|--------------|---------------|
| MW-4      | W      | Sep-20-07 10:55 |              | 289969-001    |



Certificate of Analysis Summary 289969  
PLAINS ALL AMERICAN EH&S, Midland, TX

Project Id: 2002-10273  
Contact: Camille Reynolds  
Project Location: Lea County, NM


Project Name: Moore to Jal # 2

Date Received in Lab: Thu Sep-20-07 03:02 pm  
Report Date: 24-SEP-07  
Project Manager: Brent Barron, II

| Analysis Requested |  | Lab Id: | 289969-001 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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## Flagging Criteria

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

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## Form 2 - Surrogate Recoveries

Project Name: Moore to Jal # 2

Work Order #: 289969

Project ID: 2002-10273

Lab Batch #: 704782

Sample: 289927-009 S / MS

Batch: 1 Matrix: Water

Units: mg/L

| SURROGATE RECOVERY STUDY      |                     |                    |                       |                      |       |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| BTEX by EPA 8021B<br>Analytes | Amount Found<br>[A] | True Amount<br>[B] | Recovery<br>%R<br>[D] | Control Limits<br>%R | Flags |
| 1,4-Difluorobenzene           | 0.0298              | 0.0300             | 99                    | 80-120               |       |
| 4-Bromofluorobenzene          | 0.0290              | 0.0300             | 97                    | 80-120               |       |

Lab Batch #: 704782

Sample: 289969-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

| SURROGATE RECOVERY STUDY      |                     |                    |                       |                      |       |
|-------------------------------|---------------------|--------------------|-----------------------|----------------------|-------|
| BTEX by EPA 8021B<br>Analytes | Amount Found<br>[A] | True Amount<br>[B] | Recovery<br>%R<br>[D] | Control Limits<br>%R | Flags |
| 1,4-Difluorobenzene           | 3.121               | 3.000              | 104                   | 80-120               |       |
| 4-Bromofluorobenzene          | 2.723               | 3.000              | 91                    | 80-120               |       |

Lab Batch #: 704782

Sample: 499614-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

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

Lab Batch #: 704782

Sample: 499614-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

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

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

\*\*\* Poor recoveries due to dilution

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

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

# Blank Spike Recovery

Project Name: Moore to Jal # 2

Work Order #: 289969

Project ID:

2002-10273

Lab Batch #: 704782

Sample: 499614-1-BKS

Matrix: Water

Date Analyzed: 09/20/2007

Date Prepared: 09/20/2007

Analyst: JBU

Reporting Units: mg/L

Batch #: 1

## BLANK /BLANK SPIKE RECOVERY STUDY

| BTEX by EPA 8021B<br>Analytes | Blank<br>Result<br>[A] | Spike<br>Added<br>[B] | Blank<br>Spike<br>Result<br>[C] | Blank<br>Spike<br>%R<br>[D] | Control<br>Limits<br>%R | Flags |
|-------------------------------|------------------------|-----------------------|---------------------------------|-----------------------------|-------------------------|-------|
| Benzene                       | ND                     | 0.1000                | 0.1019                          | 102                         | 70-125                  |       |
| Toluene                       | ND                     | 0.1000                | 0.1038                          | 104                         | 70-125                  |       |
| Ethylbenzene                  | ND                     | 0.1000                | 0.1106                          | 111                         | 71-129                  |       |
| m,p-Xylene                    | ND                     | 0.2000                | 0.2210                          | 111                         | 70-131                  |       |
| o-Xylene                      | ND                     | 0.1000                | 0.1098                          | 110                         | 71-133                  |       |

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

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



## Form 3 - MS Recoveries

Project Name: Moore to Jal # 2

Work Order #: 289969

Lab Batch #: 704782

Date Analyzed: 09/21/2007

QC- Sample ID: 289927-009 S

Reporting Units: mg/L

Date Prepared: 09/20/2007

Batch #: 1

Project ID: 2002-10273

Analyst: JBU

Matrix: Water

### MATRIX / MATRIX SPIKE RECOVERY STUDY

| BTEX by EPA 8021B<br><br>Analytes | Parent<br>Sample<br>Result<br>[A] | Spike<br>Added<br>[B] | Spiked Sample<br>Result<br>[C] | %R<br>[D] | Control<br>Limits<br>%R | Flag |
|-----------------------------------|-----------------------------------|-----------------------|--------------------------------|-----------|-------------------------|------|
|                                   |                                   |                       |                                |           |                         |      |
| Benzene                           | ND                                | 0.1000                | 0.0950                         | 95        | 70-125                  |      |
| Toluene                           | ND                                | 0.1000                | 0.0935                         | 94        | 70-125                  |      |
| Ethylbenzene                      | ND                                | 0.1000                | 0.0938                         | 94        | 71-129                  |      |
| m,p-Xylene                        | ND                                | 0.2000                | 0.1835                         | 92        | 70-131                  |      |
| o-Xylene                          | ND                                | 0.1000                | 0.0945                         | 95        | 71-133                  |      |

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



# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client: Talon / Plains  
 Date/ Time: 9.20.07 15:07  
 Lab ID #: 289969  
 Initials: al

### Sample Receipt Checklist

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

### Variance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken:

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



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Analytical and Quality Control Report

Shanna Smith  
Talon/LPE-Midland  
2901 State Highway 349  
Midland, TX, 79706

Report Date: December 27, 2007

Work Order: 7122102



Project Location: Lea County, N.M.  
Project Name: Moore to Jal #2  
Project Number: Plains008SPL  
SRS#: SRS#2002-10273

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 |
|--------|-------------|--------|------------|------------|---------------|
| 146003 | MW-13       | water  | 2007-12-18 | 12:48      | 2007-12-20    |
| 146004 | MW-8        | water  | 2007-12-18 | 13:09      | 2007-12-20    |
| 146005 | MW-12       | water  | 2007-12-19 | 08:26      | 2007-12-20    |
| 146006 | MW-11       | water  | 2007-12-19 | 08:44      | 2007-12-20    |
| 146007 | MW-10       | water  | 2007-12-19 | 08:54      | 2007-12-20    |

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 7 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: 146003 - MW-13

Analysis: BTEX  
QC Batch: 44099  
Prep Batch: 37967

Analytical Method: S 8021B  
Date Analyzed: 2007-12-21  
Sample Preparation: 2007-12-20

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

| Parameter    | Flag | RL<br>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 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.101  | mg/L  | 1        | 0.100           | 101                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0813 | mg/L  | 1        | 0.100           | 81                  | 70 - 130           |

### Sample: 146004 - MW-8

Analysis: BTEX  
QC Batch: 44176  
Prep Batch: 38052

Analytical Method: S 8021B  
Date Analyzed: 2007-12-26  
Sample Preparation: 2007-12-26

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.660        | mg/L  | 5        | 0.00100 |
| Toluene      |      | 0.0211       | mg/L  | 5        | 0.00100 |
| Ethylbenzene |      | 0.0211       | mg/L  | 5        | 0.00100 |
| Xylene       |      | 0.0789       | mg/L  | 5        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.527  | mg/L  | 5        | 0.500           | 105                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.457  | mg/L  | 5        | 0.500           | 91                  | 70 - 130           |

### Sample: 146005 - MW-12

Analysis: BTEX  
QC Batch: 44176  
Prep Batch: 38052

Analytical Method: S 8021B  
Date Analyzed: 2007-12-26  
Sample Preparation: 2007-12-26

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00500     | mg/L  | 5        | 0.00100 |
| Toluene      |      | <0.00500     | mg/L  | 5        | 0.00100 |
| Ethylbenzene |      | <0.00500     | mg/L  | 5        | 0.00100 |
| Xylene       |      | <0.00500     | mg/L  | 5        | 0.00100 |



| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.518  | mg/L  | 5        | 0.500        | 104              | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      | 0.453  | mg/L  | 5        | 0.500        | 91               | 70 - 130        |

**Sample: 146006 - MW-11**

Analysis: BTEX  
QC Batch: 44099  
Prep Batch: 37967

Analytical Method: S 8021B  
Date Analyzed: 2007-12-21  
Sample Preparation: 2007-12-20

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.0180       | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00790      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 0.00110      | mg/L  | 1        | 0.00100 |
| Xylene       | B    | 0.00120      | 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              | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0881 | mg/L  | 1        | 0.100        | 88               | 70 - 130        |

**Sample: 146007 - MW-10**

Analysis: BTEX  
QC Batch: 44099  
Prep Batch: 37967

Analytical Method: S 8021B  
Date Analyzed: 2007-12-21  
Sample Preparation: 2007-12-20

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

| Parameter    | Flag | RL<br>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 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.103  | mg/L  | 1        | 0.100        | 103              | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0900 | mg/L  | 1        | 0.100        | 90               | 70 - 130        |

**Method Blank (1) QC Batch: 44099**

QC Batch: 44099  
Prep Batch: 37967

Date Analyzed: 2007-12-21  
QC Preparation: 2007-12-20

Analyzed By: DC  
Prepared By: DC

| Parameter | Flag | MDL<br>Result | Units | RL    |
|-----------|------|---------------|-------|-------|
| Benzene   |      | <0.000300     | mg/L  | 0.001 |
| Toluene   |      | <0.000200     | mg/L  | 0.001 |

continued ...

method blank continued ...

| Parameter    | Flag | MDL<br>Result | Units | RL    |
|--------------|------|---------------|-------|-------|
| Ethylbenzene |      | <0.000500     | mg/L  | 0.001 |
| Xylene       |      | 0.000800      | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0989 | mg/L  | 1        | 0.100           | 99                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0829 | mg/L  | 1        | 0.100           | 83                  | 70 - 130           |

**Method Blank (1)**      QC Batch: 44176

QC Batch: 44176  
Prep Batch: 38052

Date Analyzed: 2007-12-26  
QC Preparation: 2007-12-26

Analyzed By: DC  
Prepared By: DC

| Parameter    | Flag | MDL<br>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       |      | 0.00190       | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.104  | mg/L  | 1        | 0.100           | 104                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0923 | mg/L  | 1        | 0.100           | 92                  | 70 - 130           |

**Laboratory Control Spike (LCS-1)**

QC Batch: 44099  
Prep Batch: 37967

Date Analyzed: 2007-12-21  
QC Preparation: 2007-12-20

Analyzed By: DC  
Prepared By: DC

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.0945        | mg/L  | 1    | 0.100           | <0.000300        | 94   | 70 - 130      |
| Toluene      | 0.0962        | mg/L  | 1    | 0.100           | <0.000200        | 96   | 70 - 130      |
| Ethylbenzene | 0.0981        | mg/L  | 1    | 0.100           | <0.000500        | 98   | 70 - 130      |
| Xylene       | 0.294         | mg/L  | 1    | 0.300           | <0.000400        | 98   | 70 - 130      |

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

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 0.0960         | mg/L  | 1    | 0.100           | <0.000300        | 96   | 70 - 130      | 2   |              |
| Toluene      | 0.0956         | mg/L  | 1    | 0.100           | <0.000200        | 96   | 70 - 130      | 1   |              |
| Ethylbenzene | 0.0964         | mg/L  | 1    | 0.100           | <0.000500        | 96   | 70 - 130      | 2   |              |
| Xylene       | 0.287          | mg/L  | 1    | 0.300           | <0.000400        | 96   | 70 - 130      | 2   |              |

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

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT)       | 0.102         | 0.0976         | mg/L  | 1    | 0.100           | 102         | 98           | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0934        | 0.0843         | mg/L  | 1    | 0.100           | 93          | 84           | 70 - 130      |

**Laboratory Control Spike (LCS-1)**

QC Batch: 44176  
Prep Batch: 38052

Date Analyzed: 2007-12-26  
QC Preparation: 2007-12-26

Analyzed By: DC  
Prepared By: DC

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.0997        | mg/L  | 1    | 0.100           | <0.000300        | 100  | 70 - 130      |
| Toluene      | 0.101         | mg/L  | 1    | 0.100           | <0.000200        | 101  | 70 - 130      |
| Ethylbenzene | 0.102         | mg/L  | 1    | 0.100           | <0.000500        | 102  | 70 - 130      |
| Xylene       | 0.307         | mg/L  | 1    | 0.300           | 0.0019           | 102  | 70 - 130      |

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

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 0.0985         | mg/L  | 1    | 0.100           | <0.000300        | 98   | 70 - 130      | 1   |              |
| Toluene      | 0.100          | mg/L  | 1    | 0.100           | <0.000200        | 100  | 70 - 130      | 1   |              |
| Ethylbenzene | 0.102          | mg/L  | 1    | 0.100           | <0.000500        | 102  | 70 - 130      | 0   |              |
| Xylene       | 0.303          | mg/L  | 1    | 0.300           | 0.0019           | 100  | 70 - 130      | 1   |              |

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

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT)       | 0.104         | 0.103          | mg/L  | 1    | 0.100           | 104         | 103          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0933        | 0.0928         | mg/L  | 1    | 0.100           | 93          | 93           | 70 - 130      |

**Matrix Spike (MS-1) Spiked Sample: 145905**

QC Batch: 44099  
Prep Batch: 37967

Date Analyzed: 2007-12-21  
QC Preparation: 2007-12-20

Analyzed By: DC  
Prepared By: DC

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.471        | mg/L  | 5    | 0.500           | <0.00150         | 94   | 70 - 130      |
| Toluene      | 0.472        | mg/L  | 5    | 0.500           | <0.00100         | 94   | 70 - 130      |
| Ethylbenzene | 0.470        | mg/L  | 5    | 0.500           | <0.00250         | 94   | 70 - 130      |
| Xylene       | 1.39         | mg/L  | 5    | 1.50            | <0.00200         | 93   | 70 - 130      |

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

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |               | mg/L  | 5    | 0.00            | <0.00150         |      | 70 - 130      |     |              |
| Toluene      |               | mg/L  | 5    | 0.00            | <0.00100         |      | 70 - 130      |     |              |
| Ethylbenzene |               | mg/L  | 5    | 0.00            | <0.00250         |      | 70 - 130      |     |              |
| Xylene       |               | mg/L  | 5    | 0.00            | <0.00200         |      | 70 - 130      |     |              |

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

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 0.490        |               | mg/L  | 5    | 0.5             | 98         |             | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.369        |               | mg/L  | 5    | 0.5             | 74         |             | 70 - 130      |

**Matrix Spike (MS-1)** Spiked Sample: 145997

QC Batch: 44176  
Prep Batch: 38052

Date Analyzed: 2007-12-26  
QC Preparation: 2007-12-26

Analyzed By: DC  
Prepared By: DC

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.532        | mg/L  | 5    | 0.500           | 0.0301           | 100  | 70 - 130      |
| Toluene      | 0.496        | mg/L  | 5    | 0.500           | <0.00100         | 99   | 70 - 130      |
| Ethylbenzene | 0.499        | mg/L  | 5    | 0.500           | <0.00250         | 100  | 70 - 130      |
| Xylene       | 1.50         | mg/L  | 5    | 1.50            | 0.0158           | 99   | 70 - 130      |

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

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |               | mg/L  | 5    | 0.00            | 0.0301           |      | 70 - 130      |     |              |
| Toluene      |               | mg/L  | 5    | 0.00            | <0.00100         |      | 70 - 130      |     |              |
| Ethylbenzene |               | mg/L  | 5    | 0.00            | <0.00250         |      | 70 - 130      |     |              |
| Xylene       |               | mg/L  | 5    | 0.00            | 0.0158           |      | 70 - 130      |     |              |

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

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 0.510        |               | mg/L  | 5    | 0.5             | 102        |             | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.464        |               | mg/L  | 5    | 0.5             | 93         |             | 70 - 130      |

**Standard (ICV-1)**

QC Batch: 44099

Date Analyzed: 2007-12-21

Analyzed By: DC

| Param        | Flag | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0926                 | 93                          | 85 - 115                      | 2007-12-21       |
| Toluene      |      | mg/L  | 0.100                 | 0.0929                 | 93                          | 85 - 115                      | 2007-12-21       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0938                 | 94                          | 85 - 115                      | 2007-12-21       |
| Xylene       |      | mg/L  | 0.300                 | 0.280                  | 93                          | 85 - 115                      | 2007-12-21       |

**Standard (CCV-1)**

QC Batch: 44099

Date Analyzed: 2007-12-21

Analyzed By: DC

| Param   | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene |      | mg/L  | 0.100                 | 0.0994                 | 99                          | 85 - 115                      | 2007-12-21       |

continued ...

standard continued ...

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Toluene      |      | mg/L  | 0.100                 | 0.0996                 | 100                         | 85 - 115                      | 2007-12-21       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.100                  | 100                         | 85 - 115                      | 2007-12-21       |
| Xylene       |      | mg/L  | 0.300                 | 0.302                  | 101                         | 85 - 115                      | 2007-12-21       |

**Standard (ICV-1)**

QC Batch: 44176

Date Analyzed: 2007-12-26

Analyzed By: DC

| Param        | Flag | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.102                  | 102                         | 85 - 115                      | 2007-12-26       |
| Toluene      |      | mg/L  | 0.100                 | 0.102                  | 102                         | 85 - 115                      | 2007-12-26       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.103                  | 103                         | 85 - 115                      | 2007-12-26       |
| Xylene       |      | mg/L  | 0.300                 | 0.308                  | 103                         | 85 - 115                      | 2007-12-26       |

**Standard (CCV-1)**

QC Batch: 44176

Date Analyzed: 2007-12-26

Analyzed By: DC

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0946                 | 95                          | 85 - 115                      | 2007-12-26       |
| Toluene      |      | mg/L  | 0.100                 | 0.0958                 | 96                          | 85 - 115                      | 2007-12-26       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0965                 | 96                          | 85 - 115                      | 2007-12-26       |
| Xylene       |      | mg/L  | 0.300                 | 0.288                  | 96                          | 85 - 115                      | 2007-12-26       |

7122102

# TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1266

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

Company Name: Talon LPE Phone #: (432) 522-2133  
Address: 2901 State Hwy. 349 Midland Tx 79701 Fax #: (432) 522-2180  
Contact Person: Shanna Smith E-mail: ssmith@talonlpe.com  
Invoice to: Plains Camille Reynolds SES # 2002-10273  
(If different from above)  
Project #: Plains 008 sp1 Project Name: Moore to Tail #2  
Project Location (including state): Lea County NM Sampler Signature: [Signature]

| LAB #<br>(LAB USE ONLY) | FIELD CODE       | # CONTAINERS | Volume / Amount | MATRIX |      |     |        |     | PRESERVATIVE METHOD |                                |      |     |      | SAMPLING |       |
|-------------------------|------------------|--------------|-----------------|--------|------|-----|--------|-----|---------------------|--------------------------------|------|-----|------|----------|-------|
|                         |                  |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl | HNO <sub>3</sub>    | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | DATE     | TIME  |
| 146003                  | Monitor Well #13 | 2            | 40ml            | X      | X    | X   | X      | X   | X                   | X                              | X    | X   | X    | 12/18    | 12:48 |
| 004                     | Monitor Well #8  | 2            | 40ml            | X      | X    | X   | X      | X   | X                   | X                              | X    | X   | X    | 12/18    | 12:50 |
| 005                     | Monitor Well #12 | 2            | 40ml            | X      | X    | X   | X      | X   | X                   | X                              | X    | X   | X    | 12/19    | 08:29 |
| 006                     | Monitor Well #11 | 2            | 40ml            | X      | X    | X   | X      | X   | X                   | X                              | X    | X   | X    | 12/19    | 08:44 |
| 007                     | Monitor Well #10 | 2            | 40ml            | X      | X    | X   | X      | X   | X                   | X                              | X    | X   | X    | 12/19    | 08:54 |

Relinquished by: [Signature] Company: Talon LPE Date: Dec 20, 2007 Time: 14:00  
Relinquished by: [Signature] Company: Talon LPE Date: Dec 20, 2007 Time: 15:23  
Relinquished by: [Signature] Company: Talon LPE Date: Dec 20, 2007 Time: 15:23

## ANALYSIS REQUEST (Circle or Specify Method No.)

|  |   |  |   |   |  |   |  |   |   |  |  |  |  |  |  |  |
|--|---|--|---|---|--|---|--|---|---|--|--|--|--|--|--|--|
| <input checked="" type="checkbox"/> MTBE 8021B / 602 / 8260B / 624 | <input checked="" type="checkbox"/> BTX 8021B / 602 / 8260B / 624 | <input checked="" type="checkbox"/> TPH 418.1 / TX1005 / TX1005 Ext(C35) | <input checked="" type="checkbox"/> TPH 8015 GRO / DRO / TVHC | <input checked="" type="checkbox"/> PAH 8270C / 625 | <input checked="" type="checkbox"/> Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | <input checked="" type="checkbox"/> TCLP Metals Ag As Ba Cd Cr Pb Se Hg | <input checked="" type="checkbox"/> TCLP Volatiles | <input checked="" type="checkbox"/> TCLP Pesticides | <input checked="" type="checkbox"/> RCI | <input checked="" type="checkbox"/> GC/MS Vol. 8260B / 624 | <input checked="" type="checkbox"/> GC/MS Semi. Vol. 8270C / 625 | <input checked="" type="checkbox"/> PCB's 8082 / 608 | <input checked="" type="checkbox"/> Pesticides 8081A / 608 | <input checked="" type="checkbox"/> BOD, TSS, pH | <input checked="" type="checkbox"/> Moisture Content | <input type="checkbox"/> Turn Around Time if different from standard |
|--|---|--|---|---|--|---|--|---|---|--|--|--|--|--|--|--|

REMARKS: all tests - mudland  
email to Camille Reynolds,  
Shanna Smith & Marc Stroop  
☐ Dry Weight Basis Required  
☐ TRRP Report Required  
☐ Check if Special Reporting Limits Are Needed



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200 East Sunset Road, Suite E El Paso, Texas 79922 888•589•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Analytical and Quality Control Report

Shanna Smith  
Talon/LPE-Midland  
2901 State Highway 349  
Midland, TX, 79706

Report Date: January 9, 2008

Work Order: 8010314



Project Location: Lea County, NM  
Project Name: Moore to Jal #2  
Project Number: Plains008SPL  
SRS #: 2002-10273

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 |
|--------|-------------|--------|------------|------------|---------------|
| 146807 | MW-4        | water  | 2007-12-28 | 13:30      | 2008-01-03    |

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 4 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: 146807 - MW-4**

Analysis: BTEX  
QC Batch: 44494  
Prep Batch: 38313

Analytical Method: S 8021B  
Date Analyzed: 2008-01-08  
Sample Preparation: 2008-01-08

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 20.6         | mg/L  | 100      | 0.00100 |
| Toluene      |      | 0.912        | mg/L  | 100      | 0.00100 |
| Ethylbenzene |      | 0.856        | mg/L  | 100      | 0.00100 |
| Xylene       |      | 1.50         | mg/L  | 100      | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 10.7   | mg/L  | 100      | 10.0            | 107                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 10.3   | mg/L  | 100      | 10.0            | 103                 | 70 - 130           |

**Method Blank (1)**      QC Batch: 44494

QC Batch: 44494  
Prep Batch: 38313

Date Analyzed: 2008-01-08  
QC Preparation: 2008-01-08

Analyzed By: DC  
Prepared By: DC

| Parameter    | Flag | MDL<br>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<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.111  | mg/L  | 1        | 0.100           | 111                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.101  | mg/L  | 1        | 0.100           | 101                 | 70 - 130           |

**Laboratory Control Spike (LCS-1)**

QC Batch: 44494  
Prep Batch: 38313

Date Analyzed: 2008-01-08  
QC Preparation: 2008-01-08

Analyzed By: DC  
Prepared By: DC

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.108         | mg/L  | 1    | 0.100           | <0.000300        | 108  | 70 - 130      |
| Toluene      | 0.108         | mg/L  | 1    | 0.100           | <0.000200        | 108  | 70 - 130      |
| Ethylbenzene | 0.108         | mg/L  | 1    | 0.100           | <0.000500        | 108  | 70 - 130      |
| Xylene       | 0.323         | mg/L  | 1    | 0.300           | <0.000400        | 108  | 70 - 130      |

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      | 0.102       | mg/L  | 1    | 0.100        | <0.000300     | 102  | 70 - 130   | 6   |           |
| Toluene      | 0.102       | mg/L  | 1    | 0.100        | <0.000200     | 102  | 70 - 130   | 6   |           |
| Ethylbenzene | 0.103       | mg/L  | 1    | 0.100        | <0.000500     | 103  | 70 - 130   | 5   |           |
| Xylene       | 0.308       | mg/L  | 1    | 0.300        | <0.000400     | 103  | 70 - 130   | 5   |           |

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)       | 0.111      | 0.110       | mg/L  | 1    | 0.100        | 111      | 110       | 70 - 130   |
| 4-Bromofluorobenzene (4-BFB) | 0.102      | 0.102       | mg/L  | 1    | 0.100        | 102      | 102       | 70 - 130   |

**Matrix Spike (MS-1)** Spiked Sample: 146807

QC Batch: 44494  
Prep Batch: 38313

Date Analyzed: 2008-01-08  
QC Preparation: 2008-01-08

Analyzed By: DC  
Prepared By: DC

| Param        | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|-----------|-------|------|--------------|---------------|------|------------|
| Benzene      | 30.7      | mg/L  | 100  | 10.0         | 20.6321       | 101  | 70 - 130   |
| Toluene      | 11.2      | mg/L  | 100  | 10.0         | 0.9115        | 103  | 70 - 130   |
| Ethylbenzene | 11.1      | mg/L  | 100  | 10.0         | 0.8563        | 102  | 70 - 130   |
| Xylene       | 32.2      | mg/L  | 100  | 30.0         | 1.5017        | 102  | 70 - 130   |

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      | 31.7       | mg/L  | 100  | 10.0         | 20.6321       | 111  | 70 - 130   | 3   |           |
| Toluene      | 11.6       | mg/L  | 100  | 10.0         | 0.9115        | 107  | 70 - 130   | 4   |           |
| Ethylbenzene | 11.6       | mg/L  | 100  | 10.0         | 0.8563        | 107  | 70 - 130   | 4   |           |
| Xylene       | 33.4       | mg/L  | 100  | 30.0         | 1.5017        | 106  | 70 - 130   | 4   |           |

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)       | 10.8      | 10.5       | mg/L  | 100  | 10           | 108     | 105      | 70 - 130   |
| 4-Bromofluorobenzene (4-BFB) | 9.87      | 9.94       | mg/L  | 100  | 10           | 99      | 99       | 70 - 130   |

**Standard (CCV-1)**

QC Batch: 44494

Date Analyzed: 2008-01-08

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           | 0.113            | 113                   | 85 - 115                | 2008-01-08    |
| Toluene      |      | mg/L  | 0.100           | 0.112            | 112                   | 85 - 115                | 2008-01-08    |
| Ethylbenzene |      | mg/L  | 0.100           | 0.113            | 113                   | 85 - 115                | 2008-01-08    |
| Xylene       |      | mg/L  | 0.300           | 0.335            | 112                   | 85 - 115                | 2008-01-08    |

**Standard (CCV-2)**

QC Batch: 44494

Date Analyzed: 2008-01-08

Analyzed By: DC

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.107                  | 107                         | 85 - 115                      | 2008-01-08       |
| Toluene      |      | mg/L  | 0.100                 | 0.107                  | 107                         | 85 - 115                      | 2008-01-08       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.108                  | 108                         | 85 - 115                      | 2008-01-08       |
| Xylene       |      | mg/L  | 0.300                 | 0.323                  | 108                         | 85 - 115                      | 2008-01-08       |



APPENDIX D

NMOCD C-141

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

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

Form C-141  
Revised October 10, 2003

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

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

|  |                                    |
|--|------------------------------------|
| Name of Company<br><b>EOTT</b>                                   | Contact<br><b>Frank Hernandez</b>  |
| Address<br>PO Box 1660 5805 East Highway 80 Midland, Texas 79702 | Telephone No.<br>915.638.3799      |
| Facility Name<br>8" Moore to Jal #2                              | Facility Type<br>8" Steel Pipeline |

|                                      |               |           |
|--------------------------------------|---------------|-----------|
| Surface Owner<br>State of New Mexico | Mineral Owner | Lease No. |
|--------------------------------------|---------------|-----------|

#### LOCATION OF RELEASE

|                   |               |                  |               |               |                  |               |                |  |
|-------------------|---------------|------------------|---------------|---------------|------------------|---------------|----------------|--|
| Unit Letter<br>16 | Section<br>16 | Township<br>T17S | Range<br>R37E | Feet from the | North/South Line | Feet from the | East/West Line | County: Lea<br>Lat. 32 49' 56.61"N<br>Lon. 103 15' 08.47"W |
|-------------------|---------------|------------------|---------------|---------------|------------------|---------------|----------------|--|

#### NATURE OF RELEASE

|  |   |  |
|--|---|--|
| Type of Release<br>Crude Oil   | Volume of Release<br>25 bbls barrels            | Volume Recovered<br>0 bbls barrels               |
| Source of Release<br>8" Steel Pipeline   | Date and Hour of Occurrence<br>EOTT             | Date and Hour of Discovery<br>10-22-02 @ 7:00 PM |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br>Larry Johnson               |  |
| By Whom?<br>Pat McCasland, EPI   | Date and Hour<br>10-23-02 @ 7:00 AM             |  |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   | If YES, Volume Impacting the Watercourse.<br>NA |  |

If a Watercourse was Impacted, Describe Fully.\*  
NA

Describe Cause of Problem and Remedial Action Taken.\*  
8" Steel Pipeline Site will be delineated to determine the vertical and horizontal extents of contamination. Contaminated soil will be blended on site or disposed of.

Describe Area Affected and Cleanup Action Taken.\*  
5,794 sqft ~160' x 40' Site will be delineated to determine the vertical and horizontal extents of contamination. Contaminated soil will be blended on site or disposed of. Remedial Goals: TPH 8015m = 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.

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

|  |                                  |                  |                                   |
|--|----------------------------------|------------------|-----------------------------------|
| Signature:                                 | <b>OIL CONSERVATION DIVISION</b> |                  |                                   |
| Printed Name: Frank Hernandez              | Approved by District Supervisor: |                  |                                   |
| Title: District Environmental Supervisor   | Approval Date:                   | Expiration Date: |                                   |
| Date: October 23, 2003 Phone: 915.638.3799 | Conditions of Approval:          |                  | Attached <input type="checkbox"/> |

\* Attach Additional Sheets If Necessary

|   |         |  |  |
|---|---------|--|--|
| EOTT Site Information and Metrics   |         | Incident Date:<br><b>10-22-02 @ 5:00 Pm</b>  | NMOCD Notified:<br><b>10-23-02 @ 7:00 AM</b> |
| SITE: 8" Moore to Jal #2  |         | Assigned Site Reference #: 2002-10273  |  |
| Company: EOTT   |         |  |  |
| Street Address: PO Box 1660   |         |  |  |
| Mailing Address: 5805 East Highway 80   |         |  |  |
| City, State, Zip: Midland, Texas 79702  |         |  |  |
| Representative: Frank Hernandez   |         |  |  |
| Representative Telephone: 915.638.3799  |         |  |  |
| Telephone:  |         |  |  |
| Fluid volume released (bbls): 25 bbls   |         | Recovered (bbls): 0 bbls   |  |
| >25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days.<br>(Also applies to unauthorized releases >500 mcf Natural Gas) |         |  |  |
| 5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)                                       |         |  |  |
| Leak, Spill, or Pit (LSP) Name: 8" Moore to Jal #2  |         |  |  |
| Source of contamination: 8" Steel Pipeline  |         |  |  |
| Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico  |         |  |  |
| LSP Dimensions ~160' x 40'  |         |  |  |
| LSP Area: 5,794 sqft ft <sup>2</sup>  |         |  |  |
| Location of Reference Point (RP)  |         |  |  |
| Location distance and direction from RP   |         |  |  |
| Latitude: 32 49' 56.61"N  |         |  |  |
| Longitude: 103 15' 08.47"W  |         |  |  |
| Elevation above mean sea level:   |         |  |  |
| Feet from South Section Line  |         |  |  |
| Feet from West Section Line   |         |  |  |
| Location- Unit or 1/4: NW 1/4 of the SE 1/4   |         | Unit Letter: J   |  |
| Location- Section: 16   |         |  |  |
| Location- Township: T17S  |         |  |  |
| Location- Range: R37E   |         |  |  |
| Surface water body within 1000' radius of site: none  |         |  |  |
| Surface water body within 1000' radius of site:   |         |  |  |
| Domestic water wells within 1000' radius of site: none  |         |  |  |
| Domestic water wells within 1000' radius of site:   |         |  |  |
| Agricultural water wells within 1000' radius of site: none  |         |  |  |
| Agricultural water wells within 1000' radius of site:   |         |  |  |
| Public water supply wells within 1000' radius of site: none   |         |  |  |
| Public water supply wells within 1000' radius of site:  |         |  |  |
| Depth from land surface to ground water (DG) ~66'bgs  |         |  |  |
| Depth of contamination (DC) - ?   |         |  |  |
| Depth to ground water (DG - DC = DtGW) - 0  |         |  |  |
| <b>1. Ground Water</b>  |         | <b>2. Wellhead Protection Area</b>   |  |
| If Depth to GW <50 feet: 20 points  |         | If <1000' from water source, or; <200' from private domestic water source: 20 points |  |
| If Depth to GW 50 to 99 feet: 10 points   |         | If >1000' from water source, or; >200' from private domestic water source: 0 points  |  |
| If Depth to GW >100 feet: 0 points  |         |  |  |
| Ground water Score = 20   |         | Wellhead Protection Area Score = 0   |  |
| Site Rank (1+2+3) = 20  |         | Surface Water Score = 0  |  |
| <b>Total Site Ranking Score and Acceptable Concentrations</b>   |         |  |  |
| Parameter   | >19     | 10-19  | 0-9  |
| Benzene <sup>1</sup>  | 10 ppm  | 10 ppm   | 10 ppm                                       |
| BTEX <sup>1</sup>   | 50 ppm  | 50 ppm   | 50 ppm                                       |
| TPH   | 100 ppm | 1000 ppm   | 5000 ppm                                     |
| <sup>1</sup> 100 ppm field VOC headspace measurement may be substituted for lab analysis  |         |  |  |