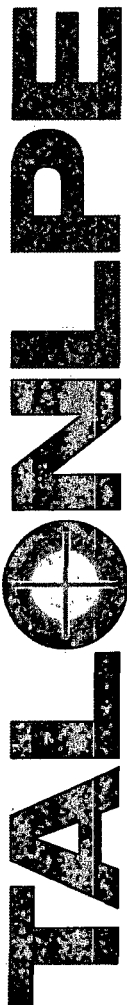


AP - 91

# STAGE 1 & 2 WORKPLANS

DATE:

4-30-08



**STAGE 1 AND STAGE 2 ABATEMENT PLAN  
8" MOORE TO JAL #1  
LEA COUNTY, NEW MEXICO  
NMOCD REF. # 1R-0380  
SRS #2002-10270**

RECEIVED  
APR 30 2008  
Environmental Bureau  
Oil Conservation Division

SE1/4 of the NW 1/4 of Section 16, Township 17 South, Range 37 East

*Prepared for:*

**PLAINS PIPELINE, L.P.**  
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*Prepared by:*

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April 30, 2007/8



**PLAINS  
PIPELINE**

RECEIVED

APR 30 2008

Environmental Bureau  
Oil Conservation Division

April 30, 2008

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

Re: Plains Pipeline, L.P. Stage 1 and 2 Abatement Plan  
8-Inch Moore to Jal #1 Release Site  
SE ¼, NW ¼ of Section 16, Township 17 South, Range 37 East  
Lea County, New Mexico  
NMOCD File Number 1R-0380

Dear Mr. Hansen:

Plains Pipeline, L. P. is pleased to submit the attached Stage 1 and 2 Abatement Plan, dated April 30, 2008, for the 8-Inch Moore to Jal #1 release site located in Section 16 of Township 17 South and Range 37 East of Lea County, New Mexico. This document includes soil and groundwater delineation activities and abatement options for remediation of the site.

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

Sincerely,

Camille Bryant  
Remediation Coordinator  
Plains Pipeline, L.P.

Cc: Larry Johnson, NMOCD, Hobbs, NM  
Thaddeus Kostrubala, State Land Office, Santa Fe, NM

Enclosure

**8" Moore to Jal #1  
Soils Closure Report**

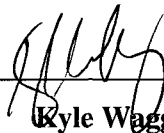
**Plains Pipeline, L.P.  
Houston, Texas**

**Talon/LPE PROJECT NO. PLAINS007SPL**

**Prepared by:**



**Shanna L. Smith  
Project Manager**



**Kyle Waggoner, P. G.  
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**Talon/LPE  
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**April 2008**



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NMOCD - New Mexico Oil Conservation Division  
SLO - New Mexico State Land Office

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Table 3 – Summary of Land Treatment Analytical Results (Soil)

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### APPENDICES

Appendix A – Soil Boring and Well Completion Logs

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Appendix C – NMOCD Correspondence

Appendix D – Release Notification and Corrective Action (Form C-141)

## **1.0 INTRODUCTION AND BACKGROUND**

Talon/LPE, on behalf of Plains Pipeline, L.P. (Plains), submits this Stage 1 and Stage 2 Abatement Plan to the New Mexico Oil Conservation Division (NMOCD) for the investigation and remediation of the Plains 8" Moore to Jal #1 crude oil pipeline release site in Lea County, New Mexico. The NMOCD has required the submittal of this Abatement Plan pursuant to a meeting and subsequent correspondence with Plains in February 2008.

The 8" Moore to Jal #1 release site is located approximately 9.1 miles southeast of Lovington in Lea County, New Mexico. The legal description of the site is SE ¼ NW ¼ Section 16, Township 17 South, Range 37 East. The GPS coordinates for the site are 32°50'12.36"N latitude and 103°15'26.234"W longitude. The release occurred on property owned by the State of New Mexico and is utilized as pasture land. The site is located in a rural area within the West Lovington Oil Field, with no residences or surface water within a 1,000 foot radius of the facility.

In October 2002, a release of approximately two hundred (200) barrels of crude oil occurred at the site due to corrosion (internal and/or external) of the pipeline. Approximately eight thousand (8,000) square feet of surface area was impacted by the release. Surface soil saturated by the release was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm for treatment.

## **2.0 SUMMARY OF INITIAL FIELD ACTIVITIES**

In an effort to delineate the extent of impacted soil at the site, six (6) soil borings were advanced by Environmental Plus, Inc. (EPI) at the site to depths ranging from fifteen (15) to sixty (60) feet bgs in October 2002. Field photo-ionization detector (PID) measurements were collected at discrete intervals. The field PID measurements indicated organic vapor concentrations exceeded 100 parts per million (ppm) to a depth of at least fifty-five (55) feet bgs in soil boring BH-1 and to a depth of twelve (12) feet in soil boring BH-4 (see Table 1).

EPI commenced excavation activities at the site in June 2003 to remove soil impacted above the NMOCD remedial threshold limits. Subsequently, approximately 2,800 cubic yards of soil were excavated and processed through a screener to separate the rock from the soil. After the soil and rock had been separated, approximately 950 cubic yards of the excavated soil was placed into two (2) blending cells (Blending Cell "A" and Blending Cell "B") and the rock was stockpiled on site.

On November 25, 2003, composite soil samples were collected from the north (NSW), south (SSW), east (ESW) and west (WSW) sidewalls, as well as the bottom of the excavation (BH), to evaluate the progress of the removal of soil impacted above NMOCD remedial thresholds. Laboratory analyses of the samples collected on November 25, 2003 indicated soils impacted above the NMOCD remedial thresholds remained in all sampling locations, with the exception of the west sidewall (see Table 2).

EPI installed monitor well MW-1 on July 26, 2004. It appears that the screened interval was set too low in monitor well MW-1 to allow for evaluating phase separated hydrocarbons (PSH),

therefore, monitor well MW-1A was installed in September 2004. Soil samples were not collected during installation, due to the close proximity to the monitor well MW-1 boring which was previously sampled. Monitor wells MW-2, MW-3, and MW-4 were installed in October 2004 (Figure 3), and soil samples were collected at various depths during the advancement of the well borings.

The blending cells were sampled by EPI on December 15, 2004. Sampling results indicated hydrocarbon levels in the blending cells soil were above the NMOCD remedial thresholds for this site (Table 3). Since May 2005, the cells have been turned/blended quarterly to aerate the soils and accelerate the biodegradation.

### **3.0 GEOLOGY / HYDROGEOLOGY**

#### **3.1 Area Geology / Hydrogeology**

The 8" Moore to Jal #1 release site is located approximately 9.1 miles southeast of Lovington in Lea County, New Mexico. The site is located in the Southern High Plains physiographic feature. The average surface elevation ranges from 3770 to 3775 feet above mean sea level with average surface topography sloping to the south and southeast at approximately ten (10) to fifteen (15) feet per mile. The groundwater gradient in the region appears to reflect the topography with similar slope to the south and southeast with local variations.

The site is located on the Kimbrough gravelly loam within the Kimbrough-Lea association type soils. This soil complex is found on prairie uplands and is locally known as "scabland". This association consists of nearly level and gently sloping, gravelly and loamy soils that are very shallow to moderately deep, to indurated caliche. The soil permeability is moderate and runoff is slow to medium. The soil water intake is moderate and the available water holding capacity is one (1) to two (2) inches. Soil erosion is a slight hazard in areas dominated by this soil type. This soil type is too shallow to be suitable for crops and is generally utilized for range and wildlife.

Data collected by the United States Weather Bureau indicates that the average annual precipitation in the site vicinity is approximately twelve (12) to fifteen (15) inches per annum. This rainfall generally occurs primarily as thunderstorm events between months of June and October. Infiltration and evaporation rates are generally high resulting in limited surface flow from these events.

#### **3.2 Site Geology/Hydrology**

The site surface consists of a light brown, very fine grained, well sorted sand to a depth of four (4) to twelve (12) feet bgs. Typically, underlying this surface unit at depth of 4 to 12 feet, a white caliche layer was encountered. The caliche layer exhibited varying thicknesses of between ten to twenty feet. Typically, underlying this caliche layer, a reddish-brown very fine grained, well sorted sand was encountered to the total depth of the well borings. North – South and West – East stratigraphic cross sections are included as Figures 4a and 4b, respectively. A cross section index is included on Figure 4. Please see Appendix A for soil boring and monitor well completion logs.

### 3.3 New Mexico Oil Conservation Division Soil Ranking Criteria

According to the *Guidelines for Remediation of Leaks, Spills and Releases* (NMOCD, 1993), the determination of depth to groundwater, distance from water supply sources, and distance to surface water bodies depicts the site-specific cleanup standards applicable for this site. Based on site visits and a review of aerial photographs, the 8" Moore to Jal #1 site is located in a rural area with no permanent residence or surface water within a 1,000 foot radius of the release point. According to information available from the New Mexico Office of the State Engineer, the nearest water well is not within 1000 feet of the site. Based on groundwater elevation data, the approximate depth to water at the site is 66 feet below ground surface (bgs).

According to NMOCD guidance, and based on depth to groundwater, distance from water supply sources, and distance to surface water bodies, the site ranking for this site is twenty (20). The ranking process is summarized below:

| <b><u>Criteria:</u></b>                     | <b><u>Site Condition:</u></b> | <b><u>Ranking Score:</u></b> |
|---------------------------------------------|-------------------------------|------------------------------|
| Depth to Groundwater                        | 66 feet                       | 20                           |
| <1,000 Feet to Water Source?                | No                            | 0                            |
| <200 Feet to Private Domestic Water Source? | No                            | 0                            |
| Distance to Surface Water Body              | >1,000 feet                   | 0                            |
| Total Ranking:                              |                               | 20                           |

Based on the calculated rating, the applicable remediation guidelines for this site are as follows:

|                   |                |
|-------------------|----------------|
| <b>Benzene</b>    | <b>10 ppm</b>  |
| <b>Total BTEX</b> | <b>50 ppm</b>  |
| <b>TPH</b>        | <b>100 ppm</b> |

### 3.4 Distribution of Hydrocarbons in the Unsaturated Zone

Soil samples collected during the installation of soil borings BH-2, BH-3, BH-6, and monitor wells MW-14, MW-16 through MW-20 indicated that concentrations of BTEX and TPH in these areas did not exceed the NMOCD regulatory standards. Analytical results for monitor wells MW-2 through MW-13, and MW-15 indicated the soil above the vadose zone is not impacted. The soil analytical results, from the soil borings and monitor wells, indicate the soil impact is limited to the area of surface staining and soil directly below the surface stain down to the top of the water table.

### 3.5 Distribution of Hydrocarbons in the Saturated Zone

Monitor wells MW-1A, MW-2, MW-3, MW-4A, MW-5 through MW-13, and MW-15 have been impacted with measurable PSH (see Figure 7). Groundwater sampling indicated monitor wells MW-14, MW-16 through MW-20 are impacted by dissolve phase benzene concentrations above the NMOCD regulatory standards. The first quarter 2008 groundwater sampling event indicates additional perimeter delineation is required at the site.

## **4.0 ABATEMENT OPTIONS**

### **4.1 Soil Abatement Options**

The Soil Remediation Work Plan submitted to Ed Martin on June 24, 2005, was implemented in January 2006. On January 16, 2006, due to evidence from the excavation confirmation composite sampling, the east sidewall of the excavation was cut back an additional two feet. The north and south sidewalls were cut back an additional one foot. A photo ionization detector (PID) was used to determine if any portion of the east, north, or south sidewalls had remaining impacted soil that required excavation. Upon completion of the excavation, the PID readings on the sidewalls were below the NMOCD limit of 100ppm.

On January 17, 2006, after the additional over-excavation activities were completed on the north, south and east sidewalls, grab samples were collected from the excavation floor, north sidewall (NEW-004 and NWW-005), south sidewall (SEW-001 and SWW-006), and east sidewall (EW-002 and EW-003) as referenced in Figure 6. Laboratory results of the grab samples collected from the sidewalls did not exhibit benzene, Total BTEX, or TPH above NMOCD remedial threshold limits (see Table 2). Twelve grab samples, consisting of six on each side of the pipeline (EFW-007, EFW-008, EFW-009, EFW-010, EFW-011, EFW-012, EFE-013, EFE-014, EFE-015, EFE-016, EFE-017, and EFE-018), were collected from the excavation floor to obtain a more complete evaluation of the concentration distribution at the base of the excavation. None of the excavation floor samples exhibited concentrations above the NMOCD remedial threshold limits for benzene and Total BTEX, while TPH concentrations were reported above NMOCD remedial threshold limits (see Table 2). The blending cells were aerated to accelerate degradation.

On September 20, 2006, remediation confirmation samples were collected from the blending cell areas (NW-A, NE-A, SW-A, SE-A, NW-B, NE-B, SW-B, and SE-B). Sampling results indicated hydrocarbon levels in the cells were below NMOCD remedial threshold limits (see Figure 5 and Table 3).

On January 30, 2007, a total of two (2) confirmation samples were collected from the northeast wall (NE WALL) and the southeast wall (SE WALL). The laboratory results from the final confirmation samples indicated benzene, Total BTEX, and TPH concentrations below the applicable NMOCD remedial threshold limits (see Figure 5 and Table 2).

On July 18, 2006, Plains began removal of the portion of the pipeline running through the excavation and capped each end. Caps were welded in place on July 31, 2006. On October 25, 2006, Ben Stone (NMOCD) approved the "Soil Over Excavation Report" (May 2006). On February 15, 2007, Talon/LPE began the approved NMOCD backfilling activities by placing approximately six (6) inches of sand on the floor of the excavation area in preparation for the installation of a 20 mil poly liner. On February 21, 2007, the 20 mil liner was placed in the excavation. A clay barrier was placed around the base of monitoring wells MW-1 and MW-1A to provide a seal between the wells' casing and the installed liner. A second six-inch bed of sand was placed over the 20 mil liner, and the excavation was backfilled with remediated soils from the soil treatment area. A back hoe was utilized to restore the site to approximate natural grade.

Based on the results of the NMOCD approved soil closure activities, no further soil remediation work is recommended at this time.

#### **4.2 Groundwater Abatement Options**

On March 26, 2008, the first quarter groundwater sampling event was performed. Based on available data, the groundwater gradient is approximately 0.007 feet/foot toward the southeast. The March 26, 2008, gradient map is located on Figure 8.

The site is currently impacted by PSH at fourteen monitor well locations (MW-1A, MW-2, MW-3, MW-4A, MW-5 through MW-13, and MW-15). Manual PSH recovery is performed weekly. The recovered oil is re-introduced into the Plains Pipeline System. Approximately 4,059 gallons (97 bbls) of PSH have been recovered to date.

An automated product recovery system is being proposed to achieve more efficient PSH recovery. Currently, Plains is in communication with an electric company to negotiate installing power poles to the site. The automated recovery system will be comprised of six pneumatic total fluid pumps and six skimmer pumps. The total fluid pumps will be installed in the source area (MW-1A, MW-3, MW-4A, MW-6, MW-9, and MW-10) to accommodate a more aggressive PSH removal program. The six skimmer pumps will be placed in the outer perimeter wells surrounding the wells with total fluid pumps (MW-5, MW-7, MW-8, MW-11, MW12, and MW-15).

Downstream from the pumps, two frac tanks will be connected in series for fluid collection and PSH separation. PSH will be removed from the frac tank and re-introduced into the Plains Pipeline System. Plains is evaluating and designing optional groundwater remediation systems and/or disposal options for this site. It is anticipated the automated remediation system will be operational by the end of 2008.

While on-site PSH recovery efforts are being utilized, groundwater remediation technologies, as outlined below, cannot effectively be conducted due to the presence of PSH.

An accurate estimate of the hydraulic properties of the dissolved phase impacted aquifer will require a 24-hour draw-down test. The data collected from the aquifer testing will enable reliable estimates of the transmissive and storage properties which are required to design and test groundwater treatment alternatives at the site. In order to assess the effectiveness of potential bioremediation alternatives at the site, sampling and analysis of the indigenous microbe colonies present in both the unsaturated and saturated zones will also be conducted.

Upon completion of PSH recovery efforts and aquifer testing, abatement of the impacted on-site groundwater is technically feasible utilizing the following technologies:

- Monitored Natural Attenuation / Long Term Groundwater Monitoring
- Groundwater Pump and Treat System
- Air Sparging

Monitored Natural Attenuation / Long Term Groundwater Monitoring technology (NA/LT) relies on naturally occurring processes such as dispersion, diffusion, sorption, and degradation (either biodegradation or abiotic processes such as hydrolysis), volatilization and dilution to control plume movement and destruction of dissolved phase hydrocarbons in the groundwater. Volatilization and diffusion are relatively unimportant in most non-clay groundwater systems; therefore, the main attenuation processes active are dispersion, sorption, degradation, and dilution. Dispersion is subsurface mixing due to groundwater movement and aquifer heterogeneities. Vertical dispersion is not common at sites impacted with light non-aqueous phase liquids such as crude oil so this component may also be disregarded. Sorption is a nondestructive process in which hydrocarbon compounds are sorbed to the aquifer matrix, represented by a retardation factor. Sorption operates as an attenuation process by effectively reducing the mass available to the dissolved phase plume. Biodegradation involves chemical transformation of the hydrocarbon constituents into mineralized end products, for instance CO<sub>2</sub>, H<sub>2</sub>O and salts, by living organisms. Occasionally, metabolic activity does change the chemical form of the hydrocarbon constituents but does not conclude with mineralization; this is referred to as biotransformation. Of particular importance in this pathway of attenuation is the determination of whether the impacted area is controlled by either anaerobic or aerobic conditions. Aerobic conditions exist under relatively oxygen rich environments resulting in compounds being formed through the reaction of available oxygen and dissolved phase hydrocarbons transforming into H<sub>2</sub>O. Anaerobic conditions are relatively oxygen poor environments and resulting transformations into nitrate, ferric iron, sulfate, and carbon dioxide products. Dilution is mixing of the plume with groundwater flowing through the effected area. It becomes an important process in natural attenuation when the impacted groundwater enters a zone where significant surface recharge enters the impacted aquifer. Geochemical indicators and concentration migration rate calculations will be utilized to determine if dissolved phase hydrocarbons are susceptible to natural attenuation on a site-specific basis. NA/LT technologies can be combined with passive groundwater remediation technologies, such as Isoc® technology, which are designed to enhance natural attenuation of impacted groundwater.

Pump and Treat technology employs groundwater withdrawal, combined with an air stripping system to remove dissolved BTEX constituents from the ground water. Hydraulic conductivity values expected from the loose, unconsolidated sands found in the area should support a relatively expanded range of ground water withdrawal rates. As the project matures, withdrawal rates are varied in response to shifting contaminant of concern concentration foci in an effort to maximize system utilization. The primary exclusion factors concerning this type of treatment technology are the extended length of system operation time required to achieve site cleanup goals and the large quantities of effluent produced, requiring off-site disposal or injection back into the aquifer material. Aerated effluent water could be injected back into the formation in up gradient locations to enhance aquifer-flushing action. The injected water would also carry oxygen to the subsurface, promoting biodegradation.

Air Sparging remediates the groundwater by stripping or volatilizing the BTEX constituents from the dissolved phase and increases in-situ biodegradation by the addition of oxygen to the impacted groundwater. As BTEX constituents are liberated from the aqueous phase and enter the gas phase, they migrate to the capillary fringe and subsequently the vadose zone. This treatment technique effectively removes BTEX constituents from the saturated and vadose zones



and also inhibits continued plume migration. A long-term groundwater monitoring program would be conducted to confirm plume stabilization and to monitor dissolved phase BTEX constituents. A single injection well pilot test needs to be conducted to test the applicability of this remedial technology. A skid mounted compressor, as well as, vadose zone monitor wells are utilized for injection well pilot testing purposes. The following in-situ parameters are monitored during injection well pilot testing: soil gas concentrations of BTEX constituents, soil gas pressure and groundwater level measurements. The following in-situ parameters are monitored after the air injection ceases: dissolved phase BTEX concentration, dissolved oxygen levels, temperature, and Redox potential/pH.

Installations of injection wells across areas of affected groundwater are conducted incrementally to optimize the well field configuration. The 2-inch, schedule PVC injection wells penetrate the saturated zone with approximately 5 feet of fully immersed 0.010-inch slotted pipe. Air compressors are utilized to generate the required air pressure for injection purposes. Air Sparging equipment generally consists of a compressor, pressure regulator, pressure gauges, flow meters, vacuum blower, and component isolation ball valves. In-situ system operating parameters which are monitored during system operation include: soil gas concentrations of BTEX constituents, injection well pressure and flow rate, weekly oxygen, carbon dioxide, nitrogen, and methane concentrations, and the pulsing frequency. Data derived from pilot testing is utilized to design the final system configuration.

## **5.0 SCHEDULE OF ABATEMENT ACTIVITIES**

The installation of an automated product recovery system is pending the installation of utility poles by the local utility company. Plains anticipates this system will be fully operational by years end. The "Soil Closure Report" is pending approval upon the NMOCD receiving the Stage 1 and Stage 2 Abatement Plan. Groundwater abatement activities will commence following the removal of on-site PSH thicknesses. Aquifer testing will aid in the selection of which of the outlined groundwater abatement alternatives is most effective on the Moore to Jal #1 site.

## **6.0 MONITORING PROGRAM**

All twenty monitor wells are gauged and sampled on a quarterly basis. Each well is monitored for the presence of PSH and depth to groundwater. All groundwater monitor wells, with the exception of those registering a presence of PSH greater than 0.01 foot, are purged and sampled for dissolved phase BTEX constituents. Monitor wells that contain PSH are gauged and pumped by hand or electric pump on a site specific schedule. The recovered PSH is re-introduced into the Plains Pipeline System. The quarterly groundwater monitoring data is compiled and summarized in an Annual Monitoring Report, which is submitted to the NMOCD on April 1<sup>st</sup> of each year.

## **7.0 SUMMARY AND CONCLUSIONS**

A total of twenty monitor wells are currently onsite. Fourteen monitor wells currently exhibit measurable PSH. An automated product recovery system will be installed by years end. The total fluid pumps will be installed in the source area wells (MW-1A, MW-3, MW-4A, MW-6,

MW-9, and MW-10). The six skimmer pumps will be placed in the outer perimeter wells surrounding the total fluid pump wells (MW-5, MW-7, MW-8, MW-11, MW12, and MW-15). Currently, six monitor wells exhibit dissolved phase concentrations exceeding the NMOCD regulatory standard. Additional monitor wells will be installed at the site to complete the delineation of the plume.

Subsequent to PSH removal and plume delineation, aquifer testing will be conducted and evaluated. One or more of the previously discussed groundwater abatement technologies will be selected based on the information obtained from the aquifer testing. The site will be monitored and sampled on a quarterly schedule and an annual report will be submitted to the NMOCD by April 1<sup>st</sup> of each year.

## **8.0 QA/QC PROCEDURES**

### **8.1 Soil Sampling**

Samples of the subsurface were obtained utilizing a split-spoon sampler. Representative soil samples were divided into two separate portions using clean, disposable nitrile gloves, and decontaminated sample tools. One portion of the soil sample was placed in a disposable sample bag and the other portion was placed in a sterile glass container with a Teflon lined lid furnished by the analytical laboratory. The sample bag is labeled and sealed for headspace analysis using a PID calibrated to a 100-ppm isobutylene standard.

The glass sample container is filled to capacity, to minimize the amount of headspace present. Each container is labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler is sealed for shipment to the laboratory. Proper chain-of-custody documentation is maintained throughout the sampling process.

Soil samples were delivered to a certified laboratory for analysis of BTEX using EPA SW-846 Method 8021B and TPH using EPA SW-846 Method 8015M DRO/GRO.

### **8.2 Ground Water Sampling**

After purging the monitor wells of three well volumes, ground water samples are collected with a disposable Teflon bailer by personnel wearing clean, disposable gloves.

Ground water samples collected for BTEX analysis are placed in 40 ml VOA vials equipped with Teflon lined caps, provided by the analytical laboratory. The vials filled to a positive meniscus, sealed, and visually checked to ensure the absence of air bubbles.

The filled containers are labeled and placed on ice in an insulated cooler. The cooler is sealed for transportation to the analytical laboratory. Proper chain-of-custody documentation is maintained throughout the sampling process. The ground water samples are analyzed for BTEX using EPA SW-846 Method 8021B.

### **8.3 Decontamination of Equipment**

Cleaning of drilling equipment is the responsibility of the drilling company. In general, the cleaning procedures consists of using high-pressure steam to wash the drilling and sampling equipment prior to drilling and prior to starting each soil boring. Prior to use, the sampling equipment is cleaned with Liqui-Nox® detergent and rinsed with distilled water.

### **8.4 Laboratory Protocol**

The laboratory is responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures are either transmitted with the laboratory reports or are on file at the laboratory.

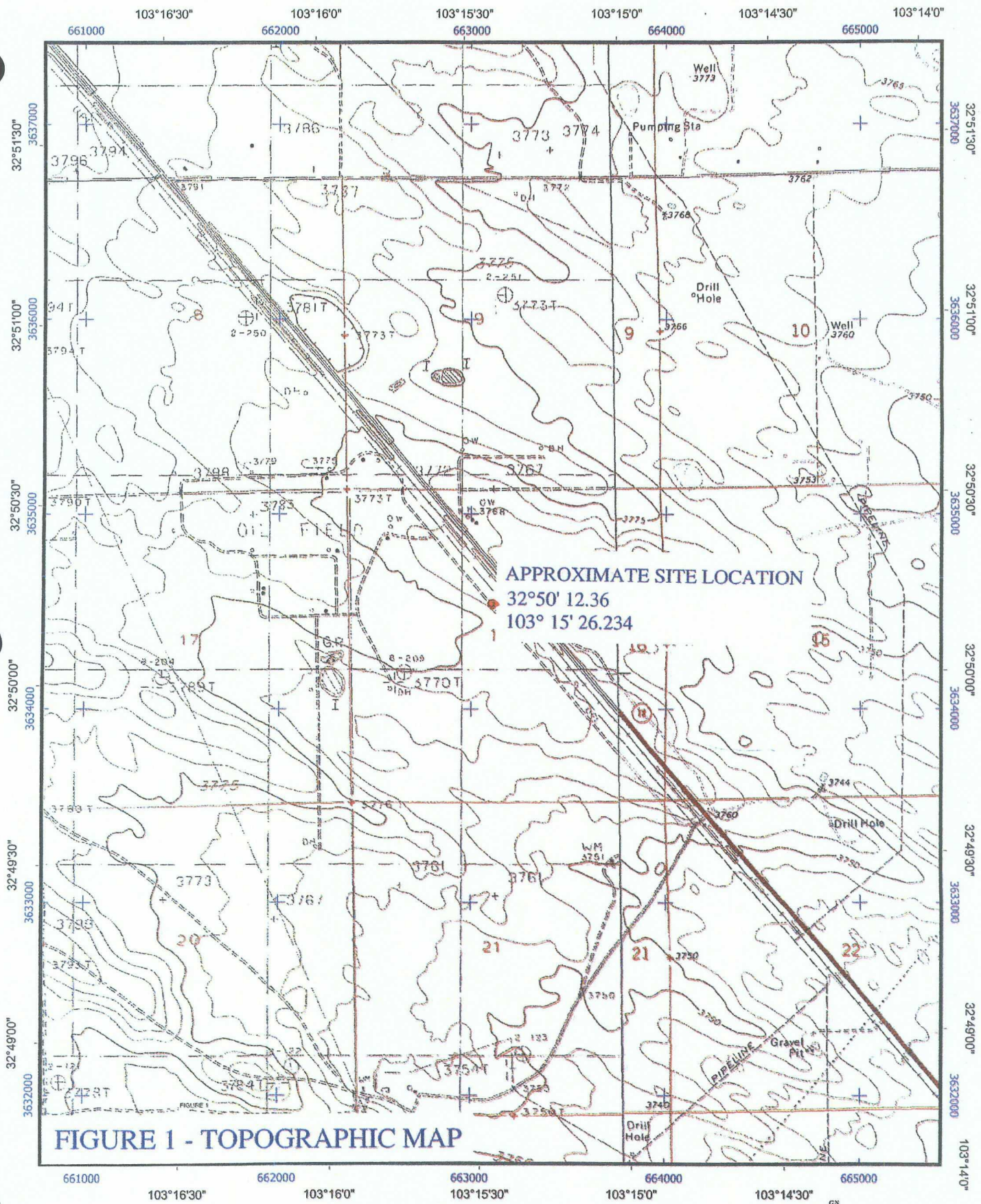
## **9.0 LIMITATIONS**

Talon/LPE has prepared this Stage 1 and Stage 2 Abatement Plan based on available information. No other warranty, expresses or implied, is made or intended.

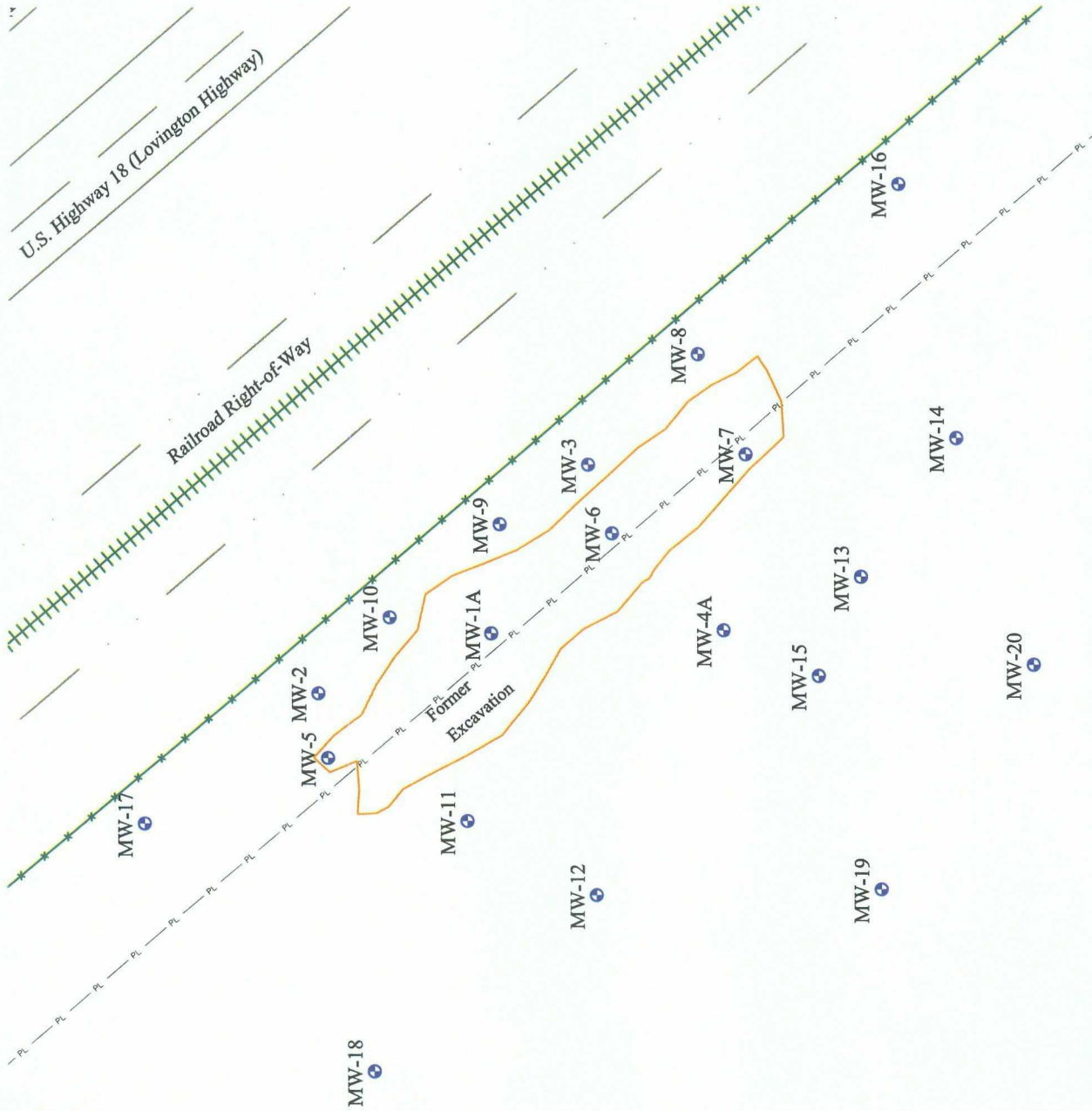
Talon has examined and relied upon previous contractor documentation, records, and information from other sources. Talon has not conducted an independent investigation of the facts contained in provided materials and/or statements. We have presumed the accuracy of the available information. Talon has prepared this report, in a professional manner, utilizing standard industry methods. The facts and conditions discussed herein may change over time and are applicable only to the identified periods of time.

This Stage 1 and Stage 2 Abatement Plan has been prepared for the benefit of Plains. The information in this report including all exhibits and attachments may not be used by any other party without the express consent of Talon and/or Plains.

# FIGURES







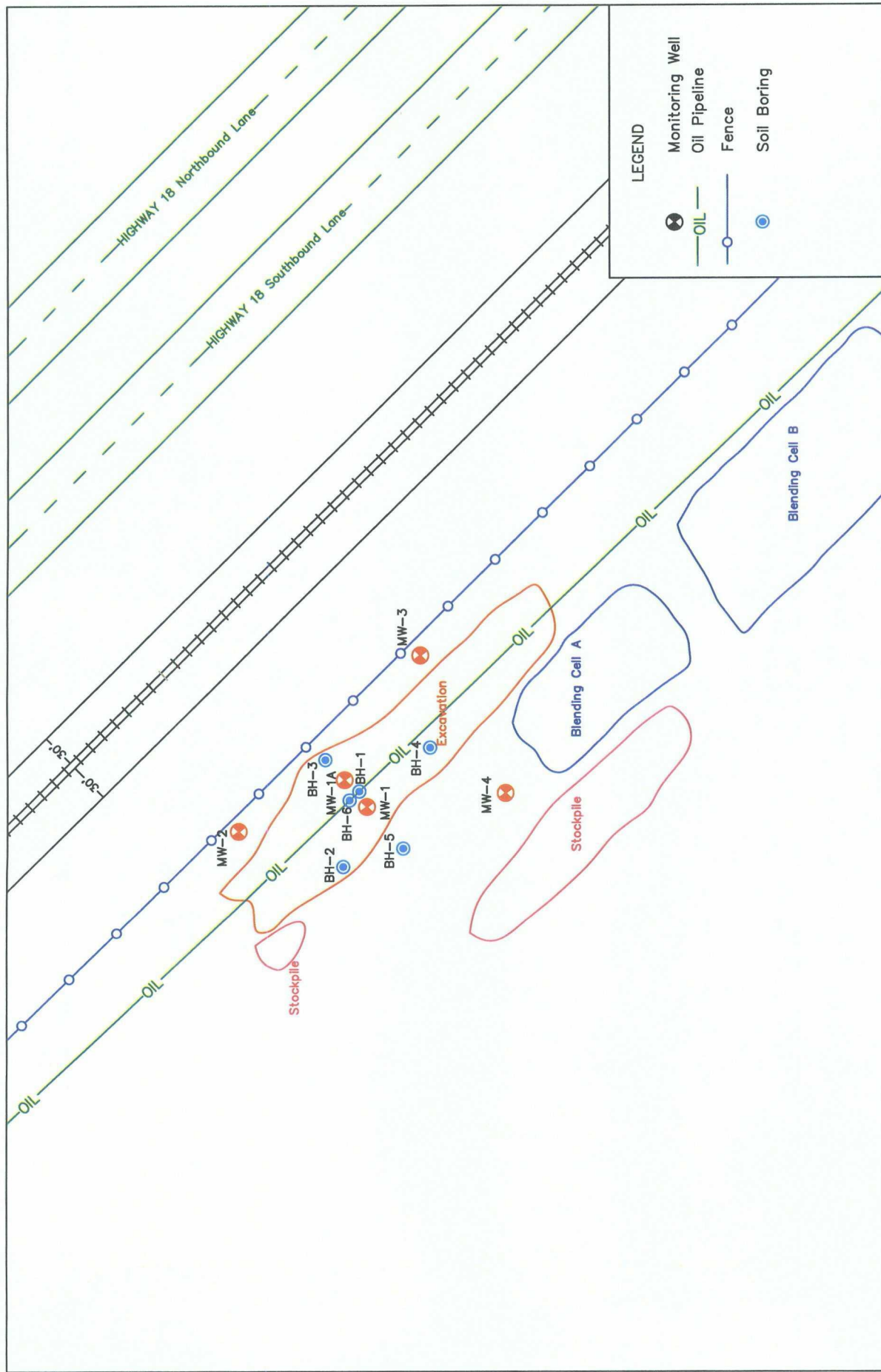
8" Moore to Jal #1  
 SRS # 2002-10270, NMOCD REF. # 1R-0380  
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
 Figure 2 - Site Plan

Date: 04/25/2008

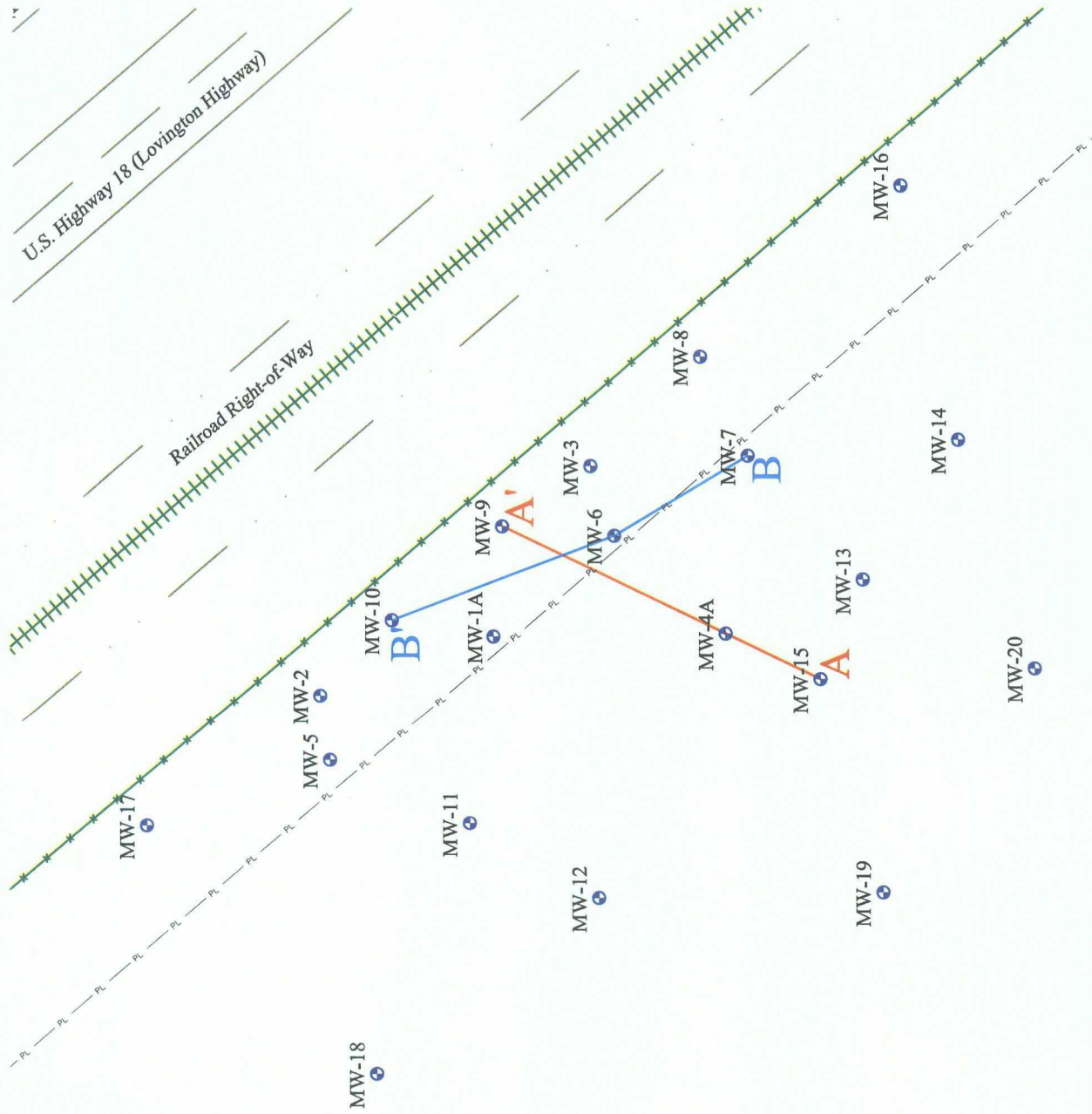
Scale: 1" = 80'

Drawn By: SJA





|                                                                                                                                                      |                                                                                                                                                          |                                    |                                 |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------|----------------------------|
| <p>Figure 3</p> <p>Soil Boring Location Map</p> <p>Plains Pipeline, L.P.</p> <p>8" Moore to Jal #1</p> <p>SRS # 2002-10270, NMOCD REF. # 1R-0380</p> | <p>Lea County, New Mexico</p> <p>SE 1/4 of the NW 1/4, Sec. 16, T17S, R37E</p> <p>N 32° 50' 13.8" W 103° 15' 25.3"</p> <p>Elevation: 3,770 feet amsl</p> | <p>DWG Date:</p> <p>March 2005</p> | <p>REVISED:</p> <p>May 2005</p> | <p>SHEET</p> <p>1 of 1</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------|----------------------------|



8" Moore to Jal #1  
 SRS # 2002-10270, NMOCD REF. # 1R-0380  
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
 Figure 4 - Cross Section (A-A' and B-B')

Date: 04/25/2008

Scale: 1" = 80'

Drawn By: SJA





# MONITOR WELL INSTALLATIONS (Cross Section A - A')

A

A'

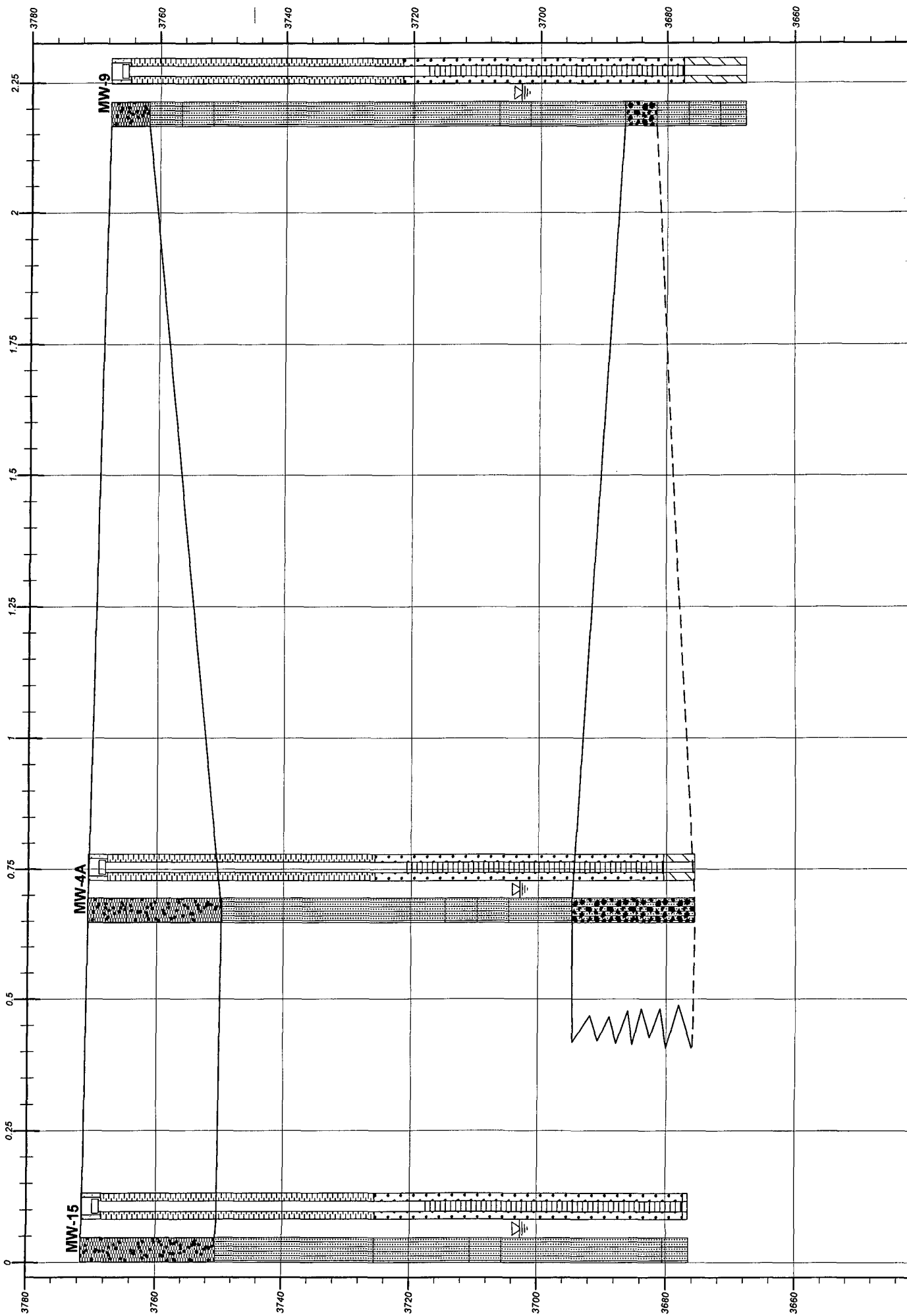


FIGURE 4A

Plains Marketing, LLP.  
Moore to Jal #1

# MONITOR WELL INSTALLATIONS (Cross Section B - B')

B

B'

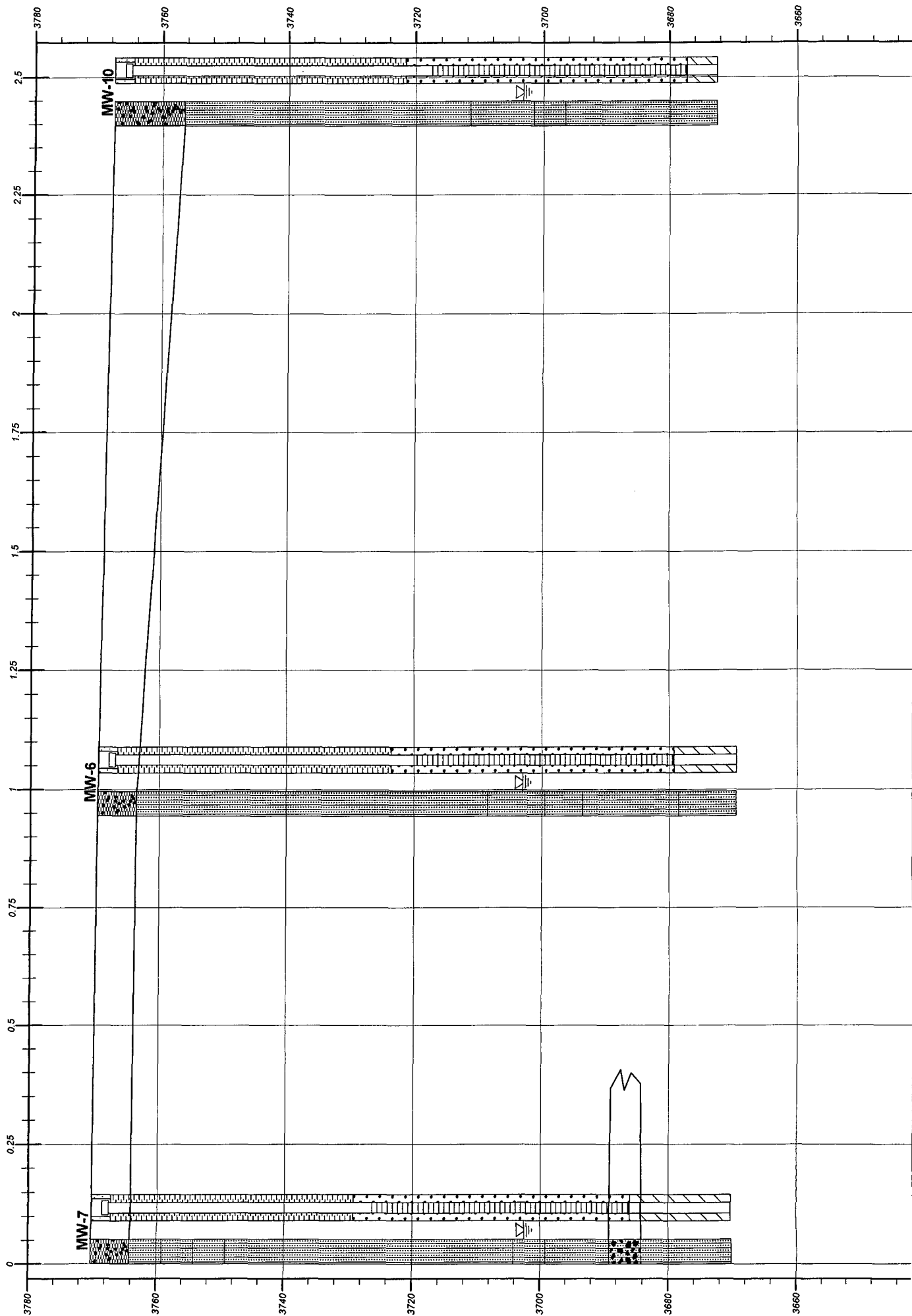


FIGURE 4B

Plains Marketing, LLP.  
Moore to Jal #1

# KEY TO SYMBOLS

Symbol Description

## Strata symbols



Caliche



Silty sand



Silty sand and gravel

## Misc. Symbols



Water table during  
drilling

## Monitor Well Details



Recessed cover  
set in concrete



Bentonite pellets



Silica sand, blank PVC



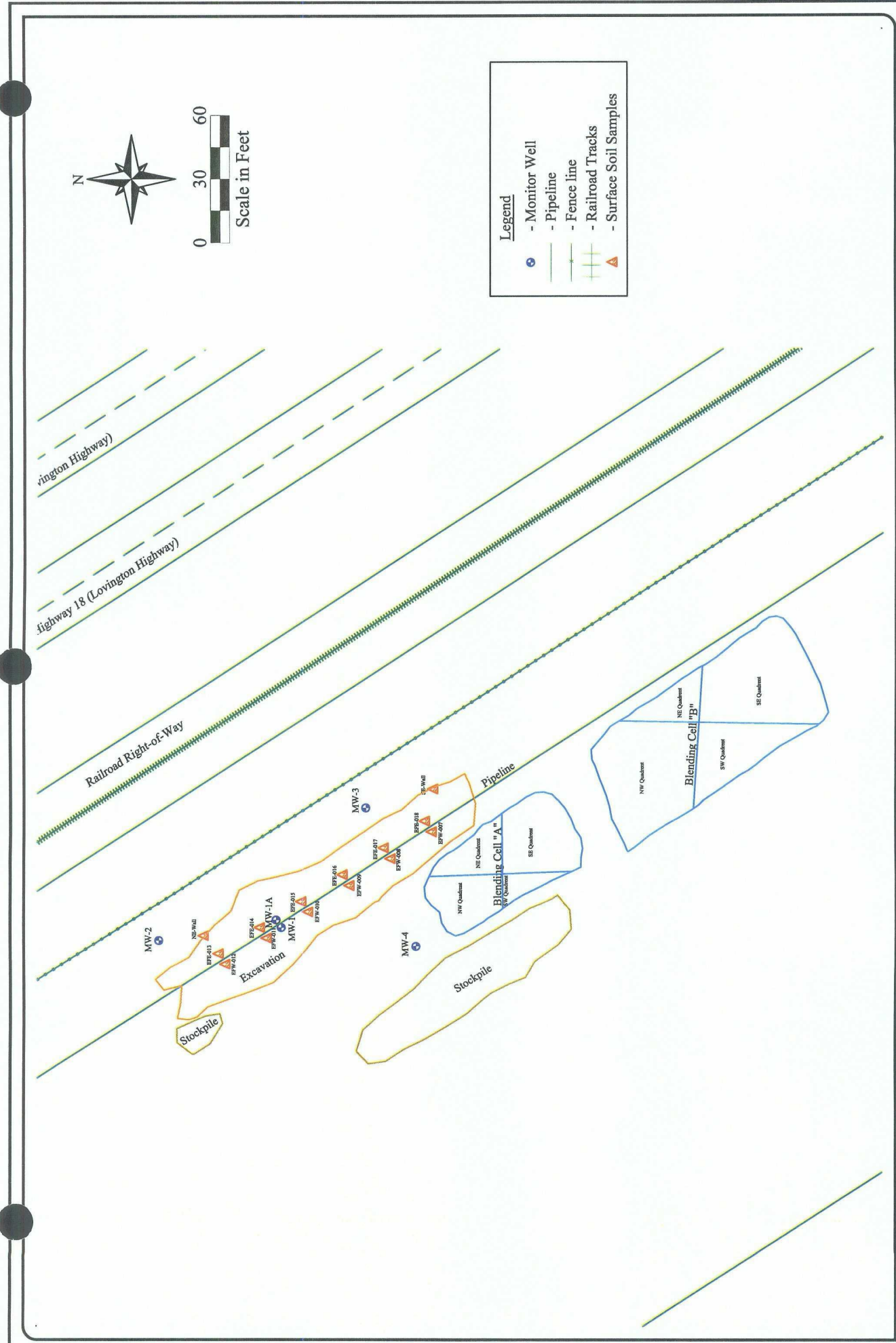
Slotted pipe w/ sand



Endcap on pipe  
Packed in sand



Assorted cuttings



Date: 04/25/2008

Scale: 1" = 60'

Drawn By: SJA

8" Moore to Jal #1  
 SRS # 2002-10270, NMOCD REF. # 1R-0380  
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
 Figure 5 - Confirmation Sampling Locations

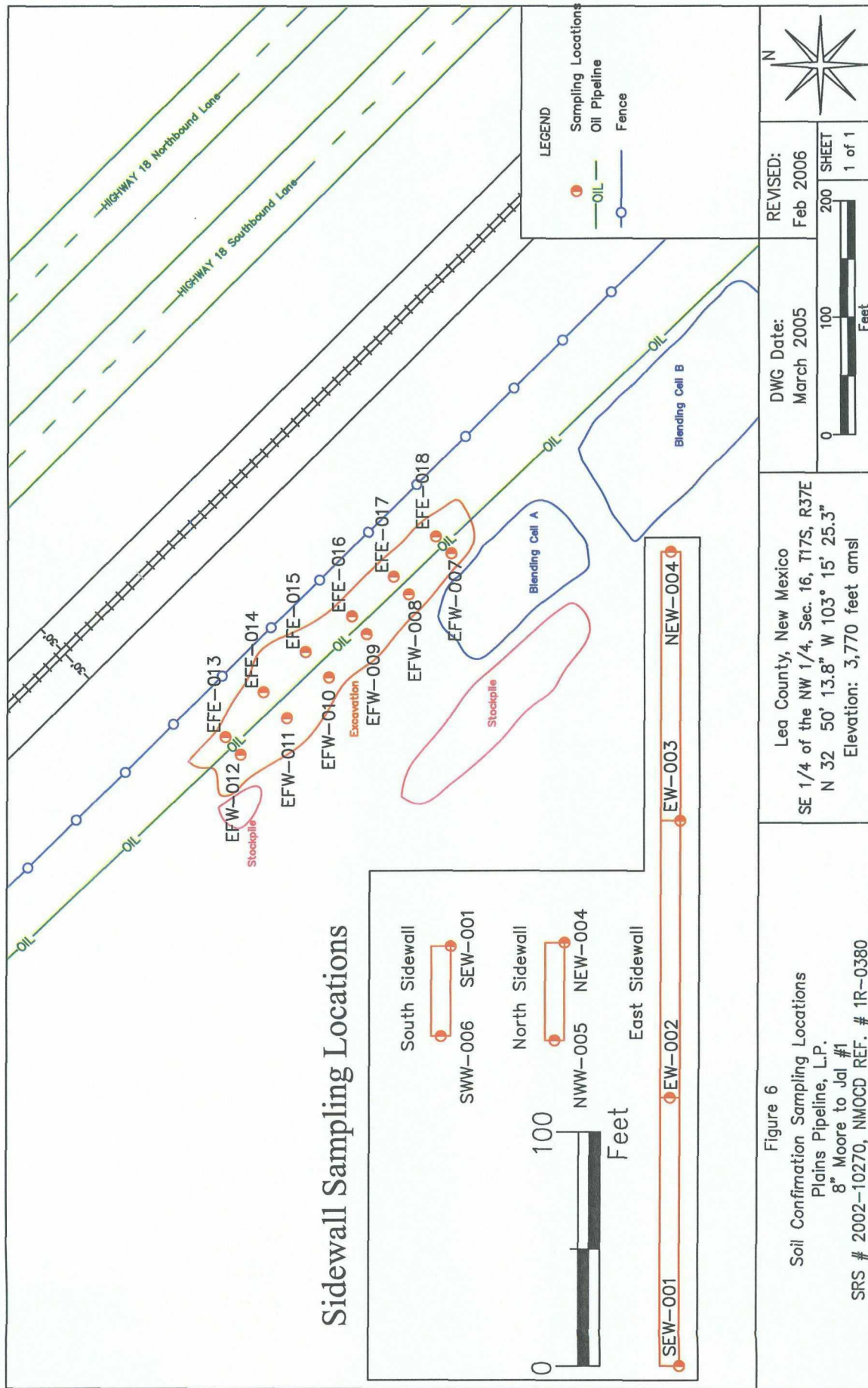


Figure 6

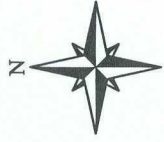
Soil Confirmation Sampling Locations

Plains Pipeline, L.P.

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # 1R-0380

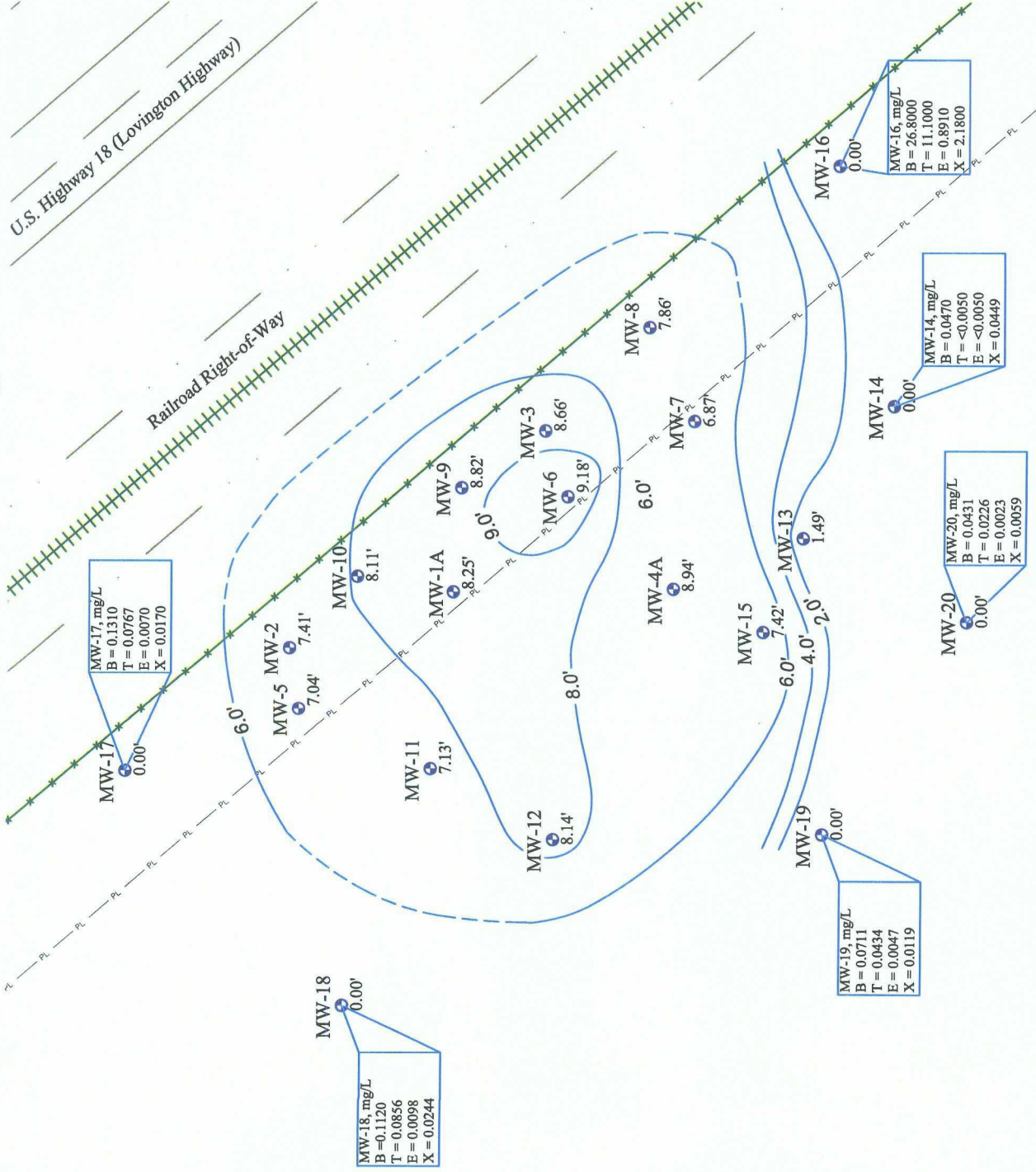
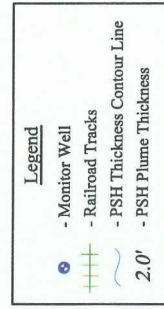




Scale in Feet  
0 40 80

U.S. Highway 18 (Lovington Highway)

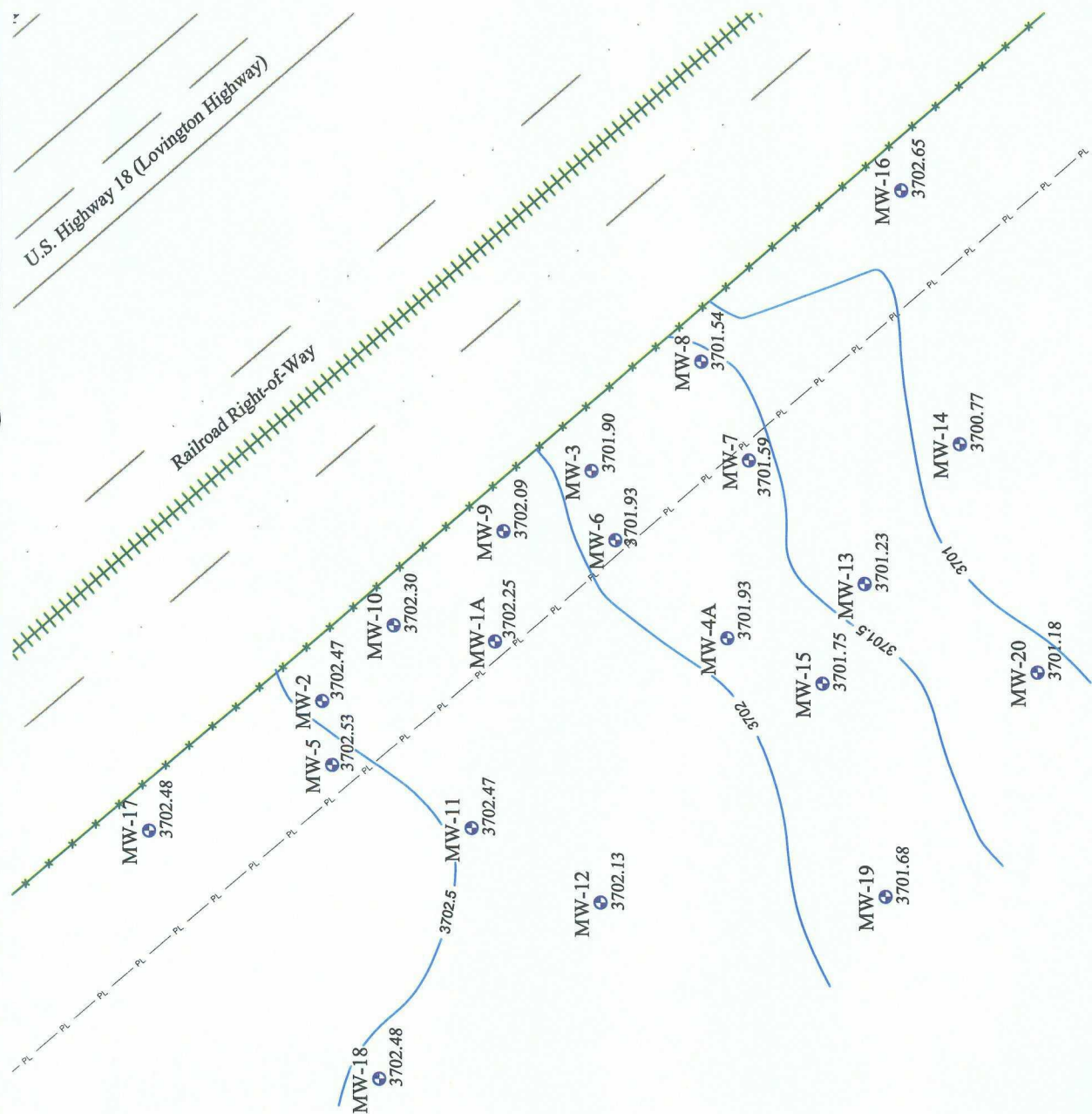
Railroad Right-of-Way



8" Moore to Jal #1  
SRS # 2002-10270, NMOCD REF. # 1R-0380  
9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
Figure 7 - PSH Thickness & Groundwater Concentration Map (03/26/2008)

Date: 04/25/2008  
Scale: 1" = 80'  
Drawn By: SJA





8" Moore to Jal #1  
 SRS # 2002-10270, NMOCD REF. # 1R-0380  
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
 Figure 8 - Groundwater Gradient Map (03/26/2008)

Date: 03/25/2008

Scale: 1" = 80'

Drawn By: SJA





# TABLES



**TABLE 1**  
**SUMMARY OF ENVIRONMENTAL BORING RESULTS (SOIL)**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| Sample ID             | Sample Date | Soil Boring | PID Readings | Benzene | Toluene | Ethyl-benzene | m,p-Xylenes | o-Xylene | Total Xylenes | Total BTEX | TPH (as gas) | TPH (as diesel) | Total TPH |
|-----------------------|-------------|-------------|--------------|---------|---------|---------------|-------------|----------|---------------|------------|--------------|-----------------|-----------|
|                       |             |             | (ppm)        | (mg/Kg) | (mg/Kg) | (mg/Kg)       | (mg/Kg)     | (mg/Kg)  | (mg/Kg)       | (mg/Kg)    | (mg/Kg)      | (mg/Kg)         | (mg/Kg)   |
| SE8M102302BH1 (5-7)   | 23-Oct-02   | BH-1        | 695          | 29.7    | 168     | 88.6          | 151         | 59.2     |               | 497        | 6810         | 5950            | 12760     |
| SE8M102302BH1 (10-12) |             |             | 505          | 35.9    | 256     | 142           | 227         | 89.1     |               | 750        | 11400        | 9960            | 21360     |
| SE8M102302BH1 (15-17) |             |             | 306          | 19.8    | 241     | 165           | 225         | 92.1     |               | 743        | 9000         | 9220            | 18220     |
| SE8M102302BH1 (20-22) |             |             | 1,350        | 38.7    | 290     | 150           | 217         | 85.2     |               | 781        | 9450         | 8140            | 17590     |
| SE8M102302BH1 (25-27) |             |             | 1,223        | 94.6    | 500     | 251           | 359         | 142      |               | 1,347      | 14400        | 13400           | 27800     |
| SE8M102302BH1 (30-32) |             |             | 682          | 114     | 342     | 174           | 285         | 109      |               | 1024       | 16600        | 10400           | 27000     |
| SE8M102302BH1 (35-37) |             |             | 510          | 65.9    | 302     | 157           | 292         | 113      |               | 929.9      | 16800        | 17400           | 34200     |
| SE8M102302BH1 (40-42) |             |             | 1,583        | 32      | 153     | 86.5          | 164         | 68.7     |               | 504.2      | 8440         | 11500           | 19940     |
| SE8M102302BH1 (45-47) |             |             | 384          | 30.2    | 210     | 118           | 207         | 82.2     |               | 647.4      | 8900         | 8180            | 17080     |
| SE8M102302BH1 (50-52) |             |             | 589          | 159     | 572     | 255           | 429         | 169      |               | 1584       | 20800        | 12700           | 33500     |
| SE8M102302BH1 (55-57) |             |             | 485          | 285     | 809     | 341           | 563         | 223      |               | 2221       | 40400        | 25200           | 65600     |
| SE8M102302BH1 (60-62) |             |             | NA           | 449     | 1300    | 689           | 1180        | 496      |               | 4114       | 103000       | 79500           | 182500    |
| SE8M102402BH2 (5-7)   | 24-Oct-02   | BH-2        | 1.6          | <0.02   | <0.02   | <0.02         | <0.02       | <0.02    |               | <0.1       | <5           | <5              | <10       |
| SE8M102402BH2 (10-12) |             |             | 2.9          | <0.02   | <0.02   | <0.02         | <0.02       | <0.02    |               | <0.1       | <5           | <5              | <10       |
| SE8M102402BH2 (15-17) |             |             | 3.1          | <0.02   | <0.02   | <0.02         | <0.02       | <0.02    |               | <0.1       | <5           | <5              | <10       |
| SE8M102402BH3 (5-7)   | 24-Oct-02   | BH-3        | 1.6          | <0.02   | <0.02   | <0.02         | <0.02       | <0.02    |               | <0.1       | <5           | <5              | <10       |
| SE8M102402BH3 (10-12) |             |             | 2.9          | <0.02   | <0.02   | <0.02         | <0.02       | <0.02    |               | <0.1       | <5           | <5              | <10       |
| SE8M102402BH3 (15-17) |             |             | 1.3          | <0.02   | <0.02   | <0.02         | <0.02       | <0.02    |               | <0.1       | <5           | <5              | <10       |
| SE8M102402BH4 (5-7)   | 24-Oct-02   | BH-4        | 46.4         | 191     | 628     | 300           | 374         | 151      |               | 1644       | 17100        | 10900           | 28000     |
| SE8M102402BH4 (10-12) |             |             | 225          | 175     | 494     | 270           | 395         | 160      |               | 1494       | 22800        | 11900           | 34700     |
| SE8M102402BH4 (15-17) |             |             | 3.3          | NS      | NS      | NS            | NS          | NS       |               | NS         | NS           | NS              | NS        |
| SE8M102402BH4 (20-22) |             |             | NA           | 76.2    | 296     | 135           | 262         | 100      |               | 869.2      | 14700        | 10400           | 25100     |
| SE8M102402BH4 (25-27) |             |             | 3.0          | NS      | NS      | NS            | NS          | NS       |               | NS         | NS           | NS              | NS        |
| SE8M102402BH4 (30-32) |             |             | NA           | 140     | 442     | 228           | 420         | 163      |               | 1393       | 20600        | 15800           | 36400     |
| SE8M102402BH4 (35-37) |             |             | 1.7          | NS      | NS      | NS            | NS          | NS       |               | NS         | NS           | NS              | NS        |
| SE8M102402BH4 (50-52) |             |             | NA           | 118     | 291     | 93.6          | 157         | 55.5     |               | 715.1      | 9040         | 6700            | 15740     |
| SE8M102502BH5 (5-7)   | 25-Oct-02   | BH-5        | 3.0          | 224     | 749     | 344           | 486         | 196      |               | 1999       | 29500        | 18000           | 47500     |
| SE8M102502BH5 (10-12) |             |             | 1.3          | 70.6    | 347     | 176           | 347         | 136      |               | 1076.6     | 15100        | 14900           | 30000     |
| SE8M102502BH5 (15-17) |             |             | 0.0          | <0.02   | <0.02   | <0.02         | <0.02       | <0.02    |               | <0.1       | <5           | <5              | <10       |
| SE8M102502BH5 (25-27) |             |             | NA           | <0.02   | <0.02   | <0.02         | <0.02       | <0.02    |               | <0.1       | <5           | <5              | <10       |
| SE8M102502BH5 (35-37) |             |             | NA           | <0.02   | <0.02   | <0.02         | <0.02       | <0.02    |               | <0.1       | <5           | <5              | <10       |
| SE8M102502BH6 (5-7)   | 25-Oct-02   | BH-6        | NA           | <0.02   | <0.02   | <0.02         | <0.02       | <0.02    |               | <0.1       | <5           | <5              | <10       |
| SE8M102502BH6 (10-12) |             |             | NA           | <0.02   | <0.02   | <0.02         | <0.02       | <0.02    |               | <0.1       | <5           | <5              | <10       |
| SE8M102502BH6 (15-17) |             |             | NA           | <0.02   | <0.02   | <0.02         | <0.02       | <0.02    |               | <0.1       | <5           | <5              | <10       |
| 2002-10270 (10-12)    | 26-Jul-04   | MW-1        | 2,982        | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| 2002-10270 (15-17)    |             |             | 2,565        | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| 2002-10270 (20-22)    |             |             | 1,574        | 14.6    | 43.6    | 23.3          | 34.3        | 15.4     |               | 131        | 4,210        | 3,950           | 8,160     |
| 2002-10270 (25-27)    |             |             | 1,558        | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| 2002-10270 (30-32)    |             |             | 1,160        | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| 2002-10270 (35-37)    |             |             | 1,049        | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| 2002-10270 (40-42)    |             |             | 927          | 80.0    | 144     | 74.1          | 94.5        | 45.5     |               | 438        | 7,710        | 6,450           | 14,200    |
| 2002-10270 (45-47)    |             |             | 1,125        | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| 2002-10270 (50-52)    |             |             | 1,227        | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| 2002-10270 (55-57)    |             |             | 2,124        | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| 2002-10270 (60-62)    |             |             | 710          | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| 2002-10270 (65-67)    |             |             | 906          | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| 2002-10270 (70-72)    |             |             | 1,543        | 11.6    | 25.1    | 13.9          | 20.0        | 9.56     |               | 80.2       | 2,280        | 2,870           | 5,150     |
| MW-2 (20-25)          | 23-Oct-04   | MW-2        | 62.2         | <0.0250 | <0.0250 | <0.0250       | <0.0250     | <0.0250  |               | <0.125     | <10.0        | <10.0           | <10.0     |
| MW-2 (25-30)          |             |             | 59.8         | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| MW-2 (30-35)          |             |             | 68.4         | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| MW-2 (35-40)          |             |             | 53.7         | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| MW-2 (40-45)          |             |             | 73.3         | <0.0250 | <0.0250 | <0.0250       | <0.0250     | <0.0250  |               | <0.125     | <10.0        | 6.59            | <10.0     |
| MW-2 (45-50)          |             |             | 224          | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| MW-2 (50-55)          |             |             | 1,838        | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |
| MW-2 (55-60)          |             |             | 875          | 139     | 434     | 158           | 308         | 105      |               | 1,140      | 8,550        | 9,390           | 17,900    |
| MW-2 (60-65)          |             |             | 800          | NA      | NA      | NA            | NA          | NA       |               | NA         | NA           | NA              | NA        |



TABLE 1  
SUMMARY OF ENVIRONMENTAL BORING RESULTS (SOIL)  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #1  
NMOCD REF. # 1R-0380  
LEA COUNTY, NEW MEXICO - SRS# 2002-10270  
Talon/LPE Project Number PLAINS007SPL

| Sample ID                 | Sample Date | Soil Boring | PID Readings<br>(ppm) | Benzene<br>(mg/Kg) | Toluene<br>(mg/Kg) | Ethyl-<br>benzene<br>(mg/Kg) | m,p-<br>Xylenes<br>(mg/Kg) | o-Xylene<br>(mg/Kg) | Total<br>Xylenes<br>(mg/Kg) | Total<br>BTEX<br>(mg/Kg) | TPH<br>(as gas)<br>(mg/Kg) | TPH<br>(as diesel)<br>(mg/Kg) | Total TPH<br>(mg/Kg) |
|---------------------------|-------------|-------------|-----------------------|--------------------|--------------------|------------------------------|----------------------------|---------------------|-----------------------------|--------------------------|----------------------------|-------------------------------|----------------------|
| MW-3 (15-20)              | 24-Oct-04   | MW-3        | 12.1                  | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-3 (20-25)              |             |             | 100                   | <0.0250            | <0.0250            | <0.0250                      | <0.0250                    | <0.0250             |                             | <0.125                   | 6.86 <sup>1</sup>          | 17.4                          | 17.4                 |
| MW-3 (25-30)              |             |             | 40.3                  | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-3 (30-35)              |             |             | 75.4                  | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-3 (35-40)              |             |             | 144                   | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-3 (40-45)              |             |             | 216                   | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-3 (45-50)              |             |             | 350                   | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-3 (50-55)              |             |             | 1,653                 | 0.226              | 2.97               | 2.97                         | 6.64                       | 2.59                |                             | 15.4                     | 481                        | 1,100                         | 1,580                |
| MW-3 (55-60)              |             |             | 534                   | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-3 (60-65)              |             |             | 740                   | 139                | 252                | 107                          | 159                        | 58                  |                             | 715                      | 4,930                      | 5,790                         | 10,720               |
| MW-4 (15-20)              | 22-Oct-04   | MW-4        | 153                   | <0.0250            | <0.0250            | <0.0250                      | <0.0250                    | <0.0250             |                             | <0.125                   | <10.0                      | 7.84 <sup>1</sup>             | <10.0                |
| MW-4 (20-25)              |             |             | 18.3                  | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-4 (25-30)              |             |             | 155                   | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-4 (30-35)              |             |             | 120                   | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-4 (35-40)              |             |             | 67.3                  | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-4 (40-45)              |             |             | 254                   | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-4 (45-50)              |             |             | 186                   | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-4 (50-55)              |             |             | 249                   | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-4 (55-60)              |             |             | 820                   | 205                | 460                | 187                          | 328                        | 127                 |                             | 1,310                    | 9,970                      | 11,100                        | 21,100               |
| MW-4 (60-65)              |             |             | 596                   | NA                 | NA                 | NA                           | NA                         | NA                  |                             | NA                       | NA                         | NA                            | NA                   |
| MW-4 (65-70)              |             |             | 447                   | 0.295              | 0.253              | 0.0567                       | 0.115                      | 0.0419              |                             | 0.762                    | 81.9                       | 165                           | 247                  |
| MW-5 65'                  | 11/6/2007   | MW-5        | 188                   | <0.0500            | 0.462              | 1.27                         |                            |                     | 3.83                        | 90.400                   | 2,000                      | 90.4                          | 2,090.40             |
| MW-5 90'                  |             |             | 91                    | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | <0.0100                  | <50.0                      | 7.19                          | 7.19                 |
| MW-6 65'                  | 11/6/2007   | MW-6        | 1850                  | 2.83               | 45.5               | 52.3                         |                            |                     | 151                         | 251.63                   | 13000                      | 5890                          | 18,890               |
| MW-6 90'                  |             |             | 61                    | <0.0100            | <0.0100            | 0.0262                       |                            |                     | 0.0797                      | 0.1059                   | <50.0                      | 8.23                          | 8.23                 |
| MW-7 65'                  | 11/6/2007   | MW-7        | 930                   | 0.387              | 9.82               | 8.65                         |                            |                     | 25.5                        | 44.357                   | 3810                       | 420                           | 4,230                |
| MW-7 90'                  |             |             | 20                    | <0.0100            | <0.0100            | <0.0100                      |                            |                     | 0.0350                      | 0.035                    | <50.0                      | 4.87                          | 4.87                 |
| MW-8 65'                  | 11/6/2007   | MW-8        | 3000                  | 28.5               | 279                | 149                          |                            |                     | 327                         | 783.5                    | 19200                      | 9760                          | 28,960               |
| MW-8 90'                  |             |             | 8.8                   | 0.0152             | 0.0535             | 0.0307                       |                            |                     | 0.0857                      | 0.1851                   | 84.5                       | 23.2                          | 107.70               |
| MW-9 65'                  | 11/7/2007   | MW-9        | 1300                  | 0.413              | 15.8               | 13.8                         |                            |                     | 41.5                        | 71.513                   | 5000                       | 642                           | 5,642                |
| MW-9 90'                  |             |             | 53                    | <0.0100            | <0.0100            | 0.0270                       |                            |                     | 0.0772                      | 0.1042                   | <50.0                      | 11.4                          | 11.40                |
| MW-10 60'                 | 11/7/2007   | MW-10       | 1050                  | <0.0500            | 2.69               | 6.30                         |                            |                     | 21.2                        | 30.19                    | 2240                       | 346                           | 2,586                |
| MW-10 65'                 |             |             | 650                   | 0.216              | 8.57               | 7.27                         |                            |                     | 22.3                        | 38.356                   | 3940                       | 374                           | 4,314                |
| MW-10 90'                 |             |             | 18                    | <0.0100            | <0.0100            | <0.0100                      |                            |                     | 0.0369                      | 0.0369                   | 85.6                       | 6.08                          | 91.68                |
| MW-11 65'                 | 11/7/2007   | MW-11       | 1200                  | <0.0500            | 8.37               | 12.0                         |                            |                     | 38.1                        | 58.47                    | 4120                       | 1810                          | 5,930                |
| MW-11 90'                 |             |             | 10                    | <0.0100            | <0.0100            | <0.0100                      |                            |                     | 0.0326                      | 0.0326                   | <50.0                      | 6.80                          | 6.80                 |
| MW-12 65'                 | 11/7/2007   | MW-12       | 1900                  | 0.679              | 41.3               | 39.6                         |                            |                     | 117                         | 198.579                  | 10100                      | 3800                          | 13,900               |
| MW-12 90'                 |             |             | 13                    | <0.0100            | <0.0100            | <0.0100                      |                            |                     | 0.0607                      | 0.0607                   | <50.0                      | 8.14                          | 8.14                 |
| MW-14 65'                 | 11/8/2007   | MW-14       | 491                   | <0.0500            | 0.338              | 1.48                         |                            |                     | 5.16                        | 6.978                    | 2540                       | 122                           | 2,662                |
| MW-14 90'                 |             |             | 3.0                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | 0                        | <50.0                      | 4.83                          | 4.83                 |
| MW-13 65'                 | 11/8/2007   | MW-13       | 127                   | 0.0208             | 0.217              | 0.489                        |                            |                     | 1.43                        | 2.1568                   | 478                        | 69.5                          | 547.50               |
| MW-13 90'                 |             |             | 0.8                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | 0                        | <50.0                      | 3.98                          | 3.98                 |
| MW-14 65'                 | 11/8/2007   | MW-14       | 1.4                   | <0.0200            | <0.0200            | <0.0200                      |                            |                     | <0.0200                     | 0                        | <50.0                      | 3.55                          | 3.55                 |
| MW-14 90'                 |             |             | 0.2                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | 0                        | <50.0                      | 2.52                          | 2.52                 |
| MW-15 65'                 | 11/8/2007   | MW-15       | 960                   | <0.0500            | 1.63               | 3.43                         |                            |                     | 11.3                        | 16.36                    | 1990                       | 736                           | 2,726                |
| MW-15 90'                 |             |             | 4.8                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | 0.0171                      | 0.0171                   | <50.0                      | 3.12                          | 3.12                 |
| MW-16 65'                 | 11/9/2007   | MW-16       | 4.8                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | <0.0100                  | <50.0                      | <1.00                         | <51.0                |
| MW-16 75'                 |             |             | 7.8                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | <0.0100                  | <50.0                      | 3.54                          | 3.54                 |
| MW-16 90'                 |             |             | 0.0                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | <0.0100                  | <50.0                      | <1.00                         | <51.0                |
| MW-17 65'                 | 11/13/2007  | MW-17       | 0.0                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | <0.0100                  | <50.0                      | <1.00                         | <51.0                |
| MW-17 90'                 |             |             | 0.0                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | <0.0100                  | <50.0                      | <1.00                         | <51.0                |
| MW-18 65'                 |             |             | 0.4                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | <0.0100                  | <50.0                      | <1.00                         | <51.0                |
| MW-18 90'                 | 11/13/2007  | MW-18       | 0.3                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | <0.0100                  | <50.0                      | <1.00                         | <51.0                |
| MW-19 65'                 | 11/13/2007  | MW-19       | 0.4                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | <0.0100                  | <50.0                      | <1.00                         | <51.0                |
| MW-19 90'                 |             |             | 0.1                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | <0.0100                  | <50.0                      | <1.00                         | <51.0                |
| MW-20 65'                 |             |             | 0.0                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | <0.0100                  | <50.0                      | <1.00                         | <51.0                |
| MW-20 90'                 | 11/13/2007  | MW-20       | 0.0                   | <0.0100            | <0.0100            | <0.0100                      |                            |                     | <0.0100                     | <0.0100                  | <50.0                      | <1.00                         | <51.0                |
| NMOCD Remedial Thresholds |             |             |                       | 10                 |                    |                              |                            |                     |                             | 50                       |                            |                               | 100                  |

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



**TABLE 2**  
**SUMMARY OF EXCAVATION ANALYTICAL RESULTS (SOIL)**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| Sample ID                 | Sample Date | Sample Location                 | Field PID Analysis | Benzene | Toluene | Ethylbenzene | m,p-Xylenes | o-Xylene | Xylene  | Total BTEX | TPH<br>(as gasoline) | TPH<br>(as diesel) | Total TPH |
|---------------------------|-------------|---------------------------------|--------------------|---------|---------|--------------|-------------|----------|---------|------------|----------------------|--------------------|-----------|
|                           |             |                                 | (ppm)              | (mg/Kg) | (mg/Kg) | (mg/Kg)      | (mg/Kg)     | (mg/Kg)  | (mg/Kg) | (mg/Kg)    | (mg/Kg)              | (mg/Kg)            | (mg/Kg)   |
| SEMR31302NSW              | 13-Mar-02   | North Sidewall                  | NA                 | <25     | 937     | 3,590        | 4,410       | 2,140    |         | 11,077     | 224                  | 545                | 769       |
| SEMR31302RAMP             | 13-Mar-02   | Ramp                            | NA                 | <25     | <25     | <25          | <25         | <25      |         | <125       | <10                  | <10                | <10       |
| SEMR51302SP               | 13-May-02   | Stockpile                       | NA                 | <1      | <1      | <1           | <1          | <1       |         | NA         | NA                   | NA                 | NA        |
| SEMR51702BCC3'            | 17-May-02   | Bottom -3'                      | NA                 | <25     | <25     | <25          | <25         | <25      |         | <125       | <10                  | <10                | <10       |
| SE8M1112503WSW            | 25-Nov-03   | West Sidewall Composite         | NA                 | <0.025  | <0.025  | <0.025       | 0.040       | <0.025   |         | 0.040      | <10.0                | 74.2               | 74.2      |
| SE8M1112503ESW            | 25-Nov-03   | East Sidewall Composite         | NA                 | 0.082   | 0.679   | 0.558        | 1.14        | 0.423    |         | 2.88       | 144                  | 2,420              | 2,564     |
| SE8M1112503SSW            | 25-Nov-03   | South Sidewall Composite        | NA                 | <0.025  | <0.025  | <0.025       | 0.078       | <0.025   |         | 0.078      | <10.0                | 144                | 144       |
| SE8M1112503NSW            | 25-Nov-03   | North Sidewall Composite        | NA                 | <0.025  | 0.179   | 0.197        | 0.577       | 0.230    |         | 1.18       | 49.1                 | 317                | 366       |
| SE8M1112503BH             | 25-Nov-03   | Bottomhole Composite            | NA                 | 0.2350  | 0.9920  | 0.5000       | 1.1500      | 0.5430   |         | 3.4200     | 175                  | 9,240              | 9,415     |
| SEW-001                   | 16-Jan-06   | South Side of East Wall         | NA                 | <0.025  | <0.025  | <0.025       | <0.025      | <0.025   |         | <0.125     | <10                  | 119                | 119       |
| EW-002                    | 16-Jan-06   | South Central Side of East Wall | NA                 | <0.025  | <0.025  | <0.025       | <0.025      | <0.025   |         | <0.125     | <10                  | <10                | <20       |
| EW-003                    | 16-Jan-06   | North Central Side of East Wall | NA                 | <0.025  | <0.025  | 0.0291       | 0.0599      | <0.025   |         | 0.0890     | <10                  | 155                | 155       |
| NEW-004                   | 16-Jan-06   | North Side of East Wall         | NA                 | <0.025  | <0.025  | <0.025       | <0.025      | <0.025   |         | <0.125     | <10                  | <10                | <20       |
| NWW-005                   | 16-Jan-06   | West Side of North Wall         | NA                 | <0.025  | <0.025  | <0.025       | <0.025      | <0.025   |         | <0.125     | <10                  | <10                | <20       |
| SWW-006                   | 16-Jan-06   | West Side of South Wall         | NA                 | <0.025  | <0.025  | <0.025       | <0.025      | <0.025   |         | <0.125     | <10                  | 64.9               | 64.9      |
| EFW-007                   | 16-Jan-06   | West Side of Excavation Base    | NA                 | <0.025  | <0.025  | <0.025       | <0.025      | <0.025   |         | <0.125     | 20.1                 | 2,190              | 2,210     |
| EFW-008                   | 16-Jan-06   | West Side of Excavation Base    | NA                 | <0.025  | <0.025  | 0.0535       | 0.1870      | 0.0671   |         | 0.3076     | 250                  | 5,490              | 5,740     |
| EFW-009                   | 16-Jan-06   | West Side of Excavation Base    | NA                 | <0.025  | <0.025  | 0.0420       | 0.0742      | <0.025   |         | 0.1162     | 81.4                 | 3,390              | 3,471     |
| EFW-010                   | 16-Jan-06   | West Side of Excavation Base    | NA                 | <0.025  | <0.025  | 0.0263       | 0.0869      | <0.025   |         | 0.1132     | 61.9                 | 2,120              | 2,182     |
| EFW-011                   | 16-Jan-06   | West Side of Excavation Base    | NA                 | <0.025  | <0.025  | 0.0310       | 0.0689      | 0.036    |         | 0.1362     | 97.8                 | 3,320              | 3,418     |
| EFW-012                   | 16-Jan-06   | West Side of Excavation Base    | NA                 | <0.025  | <0.025  | 0.1410       | 0.3240      | 0.128    |         | 0.5930     | 150                  | 2,820              | 2,970     |
| EFW-013                   | 16-Jan-06   | East Side of Excavation Base    | NA                 | <0.025  | <0.025  | 0.0400       | 0.0567      | <0.025   |         | 0.0967     | 155                  | 6,730              | 6,885     |
| EFW-014                   | 16-Jan-06   | East Side of Excavation Base    | NA                 | <0.025  | <0.025  | 0.0311       | 0.0724      | <0.025   |         | 0.1035     | 77.6                 | 5,270              | 5,348     |
| EFW-015                   | 16-Jan-06   | East Side of Excavation Base    | NA                 | 0.0274  | 0.0926  | 0.1510       | 0.5610      | 0.198    |         | 1.0300     | 242                  | 3,990              | 4,232     |
| EFW-016                   | 16-Jan-06   | East Side of Excavation Base    | NA                 | 1.2300  | 2.8500  | 0.7420       | 2.5200      | 0.9240   |         | 8.2660     | 1240                 | 6,170              | 7,410     |
| EFW-017                   | 16-Jan-06   | East Side of Excavation Base    | NA                 | <0.025  | <0.025  | <0.025       | 0.0487      | <0.025   |         | 0.0487     | 41.8                 | 8,100              | 8,142     |
| EFW-018                   | 16-Jan-06   | East Side of Excavation Base    | NA                 | <0.025  | <0.025  | 0.0675       | 0.3000      | 0.1110   |         | 0.4785     | <10                  | 4,610              | 4,610     |
| NE WALL                   | 30-Jan-07   | North East Wall                 | NA                 | <0.0100 | 0.0154  | <0.0100      |             |          | 0.0847  | 0.1001     | 1.20                 | <50.0              | 1.20      |
| SE WALL                   | 30-Jan-07   | South East Wall                 | NA                 | <0.0100 | <0.0100 | <0.0100      |             |          | 0.0447  | 0.0447     | <1.00                | <50.0              | <51.0     |
| NMOCD Remedial Thresholds |             |                                 |                    | 10      |         |              |             |          |         | 50         |                      |                    | 100       |

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

<sup>2</sup> NA : Not Analyzed

<sup>3</sup> NS : Not Sampled

<sup>4</sup> Detected, but below the Reporting Limit; therefore, result is an estimated concentration (CLP-J Flag).



TABLE 3  
SUMMARY OF LAND TREATMENT ANALYTICAL RESULTS (SOIL)  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #1  
NMOCD REF. # 1R-0380  
LEA COUNTY, NEW MEXICO - SRS# 2002-10270  
Talon/LPE Project Number PLAINS007SPL

| Sample ID | Sample Location                 | Sample Date | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethylbenzene<br>(mg/kg) | m-p-Xylenes<br>(mg/kg) | o-Xylene<br>(mg/kg) | Total<br>BTX<br>(mg/kg) | TPH<br>C <sub>6</sub> -C <sub>12</sub><br>(mg/kg) | TPH<br>C <sub>12</sub> -C <sub>28</sub><br>(mg/kg) | Total TPH<br>(mg/kg) |
|-----------|---------------------------------|-------------|--------------------|--------------------|-------------------------|------------------------|---------------------|-------------------------|---------------------------------------------------|----------------------------------------------------|----------------------|
| NW-A      | Northwest Quadrant<br>of Cell A | 15-Dec-04   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <5                                                | 987.0                                              | 987.0                |
|           |                                 | 1-Jul-05    | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | 21.5                                              | 1500.0                                             | 1520.0               |
|           |                                 | 29-Sep-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | 14.8                                              | 237.0                                              | 251.8                |
|           |                                 | 30-Dec-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 1160.0                                             | 1160.0               |
|           |                                 | 30-Mar-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 1270.0                                             | 1270.0               |
| NE-A      | Northeast Quadrant<br>of Cell A | 20-Sep-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 242.0                                              | 306.0                |
|           |                                 | 15-Dec-04   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <5                                                | 1310.0                                             | 1310.0               |
|           |                                 | 1-Jul-05    | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | 34.9                                              | 1580.0                                             | 1610.0               |
|           |                                 | 29-Sep-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 208.0                                              | 208.0                |
|           |                                 | 30-Dec-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 1840.0                                             | 1840.0               |
| SE-A      | Southeast Quadrant<br>of Cell A | 30-Mar-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 1960.0                                             | 1960.0               |
|           |                                 | 20-Sep-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 365.0                                              | 450.0                |
|           |                                 | 15-Dec-04   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <5                                                | 664.0                                              | 664.0                |
|           |                                 | 1-Jul-05    | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | 26.1                                              | 1280.0                                             | 1310.0               |
|           |                                 | 29-Sep-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 404.0                                              | 404.0                |
| SW-A      | Southwest Quadrant<br>of Cell A | 30-Dec-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 1990.0                                             | 1990.0               |
|           |                                 | 30-Mar-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 933.0                                              | 933.0                |
|           |                                 | 20-Sep-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 211.0                                              | 258.0                |
|           |                                 | 15-Dec-04   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <5                                                | 542.0                                              | 542.0                |
|           |                                 | 1-Jul-05    | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | 16.1                                              | 1000.0                                             | 1020.0               |
| SW-A      | Southwest Quadrant<br>of Cell A | 29-Sep-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 320.0                                              | 320.0                |
|           |                                 | 30-Dec-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 1010.0                                             | 1010.0               |
|           |                                 | 30-Mar-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 1040.0                                             | 1040.0               |
|           |                                 | 20-Sep-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 168.0                                              | 217.0                |



TABLE 3  
SUMMARY OF LAND TREATMENT ANALYTICAL RESULTS (SOIL)  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #1  
NMOCD REF. # 1R-0380  
LEA COUNTY, NEW MEXICO - SRS# 2002-10270  
Talon/LPE Project Number PLAINS007SPL

| Sample ID                 | Sample Location                 | Sample Date | Benzene<br>(mg/Kg) | Toluene<br>(mg/Kg) | Ethylbenzene<br>(mg/Kg) | m,p-Xylenes<br>(mg/Kg) | o-Xylene<br>(mg/Kg) | Total<br>BTX<br>(mg/Kg) | TPH<br>C <sub>6</sub> -C <sub>12</sub><br>(mg/Kg) | TPH<br>C <sub>12</sub> -C <sub>28</sub><br>(mg/Kg) | Total TPH<br>(mg/Kg) |
|---------------------------|---------------------------------|-------------|--------------------|--------------------|-------------------------|------------------------|---------------------|-------------------------|---------------------------------------------------|----------------------------------------------------|----------------------|
| SE-B                      | Southeast Quadrant<br>of Cell B | 15-Dec-04   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <5                                                | 1140.0                                             | 1140.0               |
|                           |                                 | 1-Jul-05    | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | 26.7                                              | 1610.0                                             | 1640.0               |
|                           |                                 | 29-Sep-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 177.0                                              | 177.0                |
|                           |                                 | 30-Dec-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | 10.3                                              | 2240.0                                             | 2250.3               |
|                           |                                 | 30-Mar-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 1040.0                                             | 1040.0               |
|                           |                                 | 20-Sep-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 144.0                                              | 186.0                |
| SW-B                      | Southwest Quadrant<br>of Cell B | 15-Dec-04   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <5                                                | 1470.0                                             | 1470.0               |
|                           |                                 | 1-Jul-05    | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | 24.8                                              | 1240.0                                             | 1260.0               |
|                           |                                 | 29-Sep-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | 11.5                                              | 388.0                                              | 399.5                |
|                           |                                 | 30-Dec-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 2170.0                                             | 2170.0               |
|                           |                                 | 30-Mar-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 2050.0                                             | 2050.0               |
|                           |                                 | 20-Sep-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 175.0                                              | 225.0                |
| NE-B                      | Northeast Quadrant<br>of Cell B | 15-Dec-04   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <5                                                | 1240.0                                             | 1240.0               |
|                           |                                 | 1-Jul-05    | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | 25.7                                              | 1640.0                                             | 1660.0               |
|                           |                                 | 29-Sep-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | 10.3                                              | 446.0                                              | 456.3                |
|                           |                                 | 30-Dec-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 2410.0                                             | 2410.0               |
|                           |                                 | 30-Mar-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 1700.0                                             | 1700.0               |
|                           |                                 | 20-Sep-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 170.0                                              | 210.0                |
| NW-B                      | Northwest Quadrant<br>of Cell B | 15-Dec-04   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <5                                                | 1170.0                                             | 1170.0               |
|                           |                                 | 1-Jul-05    | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | 32.7                                              | 1530.0                                             | 1560.0               |
|                           |                                 | 29-Sep-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | 11.2                                              | 384.0                                              | 395.2                |
|                           |                                 | 30-Dec-05   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 1610.0                                             | 1610.0               |
|                           |                                 | 30-Mar-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 1110.0                                             | 1110.0               |
|                           |                                 | 20-Sep-06   | NA                 | NA                 | NA                      | NA                     | NA                  | NA                      | <10                                               | 116.0                                              | 147.0                |
| NMOCD Remedial Thresholds |                                 |             | 10                 |                    |                         |                        |                     | 50                      |                                                   |                                                    | 100                  |

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

<sup>2</sup> NA : Not Analyzed

<sup>3</sup> NS : Not Sampled

<sup>4</sup> Detected, but below the Reporting Limit; therefore, result is an estimated concentration (CLP-J Flag).





**TABLE 4**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

*All concentrations are in mg/L*

| Sample Location | Sample Date | Benzene                                                     | Toluene | Ethyl-benzene | Xylene |
|-----------------|-------------|-------------------------------------------------------------|---------|---------------|--------|
| MW-1A           | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |               |        |
|                 |             |                                                             |         |               |        |
|                 |             |                                                             |         |               |        |
| MW-2            | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |               |        |
|                 |             |                                                             |         |               |        |
|                 |             |                                                             |         |               |        |
| MW-3            | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |               |        |
|                 |             |                                                             |         |               |        |
|                 |             |                                                             |         |               |        |
| MW-4A           | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |               |        |
|                 |             |                                                             |         |               |        |
|                 |             |                                                             |         |               |        |
| MW-5            | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |               |        |
|                 |             |                                                             |         |               |        |
|                 |             |                                                             |         |               |        |
| MW-6            | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |               |        |
|                 |             |                                                             |         |               |        |
|                 |             |                                                             |         |               |        |
| MW-7            | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |               |        |
|                 |             |                                                             |         |               |        |
|                 |             |                                                             |         |               |        |
| MW-8            | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |               |        |
|                 |             |                                                             |         |               |        |
|                 |             |                                                             |         |               |        |
| MW-9            | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |               |        |
|                 |             |                                                             |         |               |        |
|                 |             |                                                             |         |               |        |
| MW-10           | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |               |        |
|                 |             |                                                             |         |               |        |
|                 |             |                                                             |         |               |        |
| MW-11           | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |               |        |
|                 |             |                                                             |         |               |        |
|                 |             |                                                             |         |               |        |
| MW-12           | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |               |        |
|                 |             |                                                             |         |               |        |
|                 |             |                                                             |         |               |        |
| MW-13           | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |               |        |
|                 |             |                                                             |         |               |        |
|                 |             |                                                             |         |               |        |



**TABLE 4**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

*All concentrations are in mg/L*

| Sample Location        | Sample Date | Benzene                                                     | Toluene | Ethyl-benzene | Xylene |
|------------------------|-------------|-------------------------------------------------------------|---------|---------------|--------|
| MW-14                  | 03/26/08    | 0.47                                                        | <0.005  | <0.005        | 0.0449 |
|                        |             |                                                             |         |               |        |
|                        |             |                                                             |         |               |        |
| MW-15                  | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |               |        |
|                        |             |                                                             |         |               |        |
|                        |             |                                                             |         |               |        |
| MW-16                  | 03/26/08    | 26.8                                                        | 11.1    | 0.891         | 2.18   |
|                        |             |                                                             |         |               |        |
|                        |             |                                                             |         |               |        |
| MW-17                  | 03/26/08    | 0.131                                                       | 0.0767  | 0.007         | 0.017  |
|                        |             |                                                             |         |               |        |
|                        |             |                                                             |         |               |        |
| MW-18                  | 03/26/08    | 0.112                                                       | 0.0856  | 0.0098        | 0.0244 |
|                        |             |                                                             |         |               |        |
|                        |             |                                                             |         |               |        |
| MW-19                  | 03/26/08    | 0.0711                                                      | 0.0434  | 0.0047        | 0.0119 |
|                        |             |                                                             |         |               |        |
|                        |             |                                                             |         |               |        |
| MW-20                  | 03/26/08    | 0.0431                                                      | 0.0226  | 0.0023        | 0.0059 |
|                        |             |                                                             |         |               |        |
|                        |             |                                                             |         |               |        |
| NMWQCC Remedial Limits |             | 0.010                                                       | 0.750   | 0.750         | 0.620  |

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

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOC D REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-1A   | 10/08/04    | 3765.34                                     | 53.48                                         | 56.38                                           | 3711.51                                      | 2.90                     | 5.00                                 | 5.00                                       |
|         | 10/14/04    | 3765.34                                     | 53.25                                         | 66.36                                           | 3710.28                                      | 15.11                    | 18.00                                | 21.00                                      |
|         | 10/20/04    | 3765.34                                     | 54.11                                         | 65.92                                           | 3709.81                                      | 11.81                    | 12.50                                | 33.50                                      |
|         | 10/29/04    | 3765.34                                     | N/A                                           | 55.09                                           | 3710.25                                      |                          | 9.00                                 | 42.50                                      |
|         | 11/04/04    | 3765.34                                     | 55.51                                         | 63.71                                           | 3708.85                                      | 8.20                     | 19.50                                | 62.00                                      |
|         | 11/10/04    | 3765.34                                     | 55.72                                         | 63.49                                           | 3708.69                                      | 7.77                     | 8.00                                 | 70.00                                      |
|         | 11/17/04    | 3765.34                                     | 55.93                                         | 63.49                                           | 3708.50                                      | 7.56                     | 7.00                                 | 77.00                                      |
|         | 11/24/04    | 3765.34                                     | 55.23                                         | 66.10                                           | 3708.81                                      | 10.87                    | 8.00                                 | 85.00                                      |
|         | 12/02/04    | 3765.34                                     | 55.26                                         | 65.63                                           | 3708.84                                      | 10.37                    | 9.00                                 | 94.00                                      |
|         | 12/08/04    | 3765.34                                     | 55.22                                         | 65.60                                           | 3708.87                                      | 10.38                    | 8.00                                 | 102.00                                     |
|         | 12/15/04    | 3765.34                                     | 56.06                                         | 63.65                                           | 3708.37                                      | 7.59                     | 7.00                                 | 109.00                                     |
|         | 12/27/04    | 3765.34                                     | 56.35                                         | 63.59                                           | 3708.12                                      | 7.24                     | 7.00                                 | 116.00                                     |
|         | 12/29/04    | 3765.34                                     | 56.34                                         | 63.58                                           | 3708.13                                      | 7.24                     | 6.00                                 | 122.00                                     |
|         | 01/06/05    | 3765.34                                     | 56.41                                         | 63.64                                           | 3708.06                                      | 7.23                     | 6.00                                 | 128.00                                     |
|         | 01/13/05    | 3765.34                                     | 56.56                                         | 63.76                                           | 3707.92                                      | 7.20                     | 8.00                                 | 136.00                                     |
|         | 01/19/05    | 3765.34                                     | 56.57                                         | 63.78                                           | 3707.90                                      | 7.21                     | 8.00                                 | 144.00                                     |
|         | 01/26/05    | 3765.34                                     | 56.61                                         | 63.78                                           | 3707.87                                      | 7.17                     | 7.50                                 | 151.50                                     |
|         | 02/02/05    | 3765.34                                     | 56.63                                         | 64.00                                           | 3707.83                                      | 7.37                     | 8.00                                 | 159.50                                     |
|         | 02/09/05    | 3765.34                                     | 56.65                                         | 64.11                                           | 3707.79                                      | 7.46                     | 7.50                                 | 167.00                                     |
|         | 02/16/05    | 3765.34                                     | 56.68                                         | 64.21                                           | 3707.76                                      | 7.53                     | 7.50                                 | 174.50                                     |
|         | 02/24/05    | 3765.34                                     | 56.69                                         | 64.25                                           | 3707.74                                      | 7.56                     | 8.00                                 | 182.50                                     |
|         | 03/03/05    | 3765.34                                     | 56.71                                         | 64.41                                           | 3707.71                                      | 7.70                     | 9.00                                 | 191.50                                     |
|         | 03/11/05    | 3765.34                                     | 56.86                                         | 63.54                                           | 3707.68                                      | 6.88                     | 10.00                                | 201.50                                     |
|         | 03/18/05    | 3765.34                                     | 56.72                                         | 64.51                                           | 3707.69                                      | 7.79                     | 9.00                                 | 210.50                                     |
|         | 04/01/05    | 3765.34                                     | 56.74                                         | 64.65                                           | 3707.65                                      | 7.91                     | 8.00                                 | 218.50                                     |
|         | 04/07/05    | 3765.34                                     | 56.75                                         | 64.68                                           | 3707.64                                      | 7.93                     | 8.00                                 | 226.50                                     |
|         | 05/18/05    | 3765.34                                     | 56.80                                         | 64.99                                           | 3707.56                                      | 8.19                     | 10.00                                | 236.50                                     |
|         | 05/23/05    | 3765.34                                     | 56.81                                         | 65.00                                           | 3707.55                                      | 8.19                     | 9.00                                 | 245.50                                     |
|         | 05/26/05    | 3765.34                                     | 56.83                                         | 65.02                                           | 3707.53                                      | 8.19                     | 9.00                                 | 254.50                                     |
|         | 06/01/05    | 3765.34                                     | 56.82                                         | 65.03                                           | 3707.53                                      | 8.21                     | 9.00                                 | 263.50                                     |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-1A   | 06/03/05    | 3765.34                                     | 56.84                                         | 65.01                                           | 3707.52                                      | 8.17                     | 6.00                                 | 269.50                                     |
|         | 06/07/05    | 3765.34                                     | 56.85                                         | 65.03                                           | 3707.51                                      | 8.18                     | 8.00                                 | 277.50                                     |
|         | 06/10/05    | 3765.34                                     | 56.85                                         | 65.07                                           | 3707.50                                      | 8.22                     | 7.00                                 | 284.50                                     |
|         | 06/13/05    | 3765.34                                     | 56.87                                         | 65.10                                           | 3707.48                                      | 8.23                     | 9.00                                 | 293.50                                     |
|         | 06/18/05    | 3765.34                                     | 56.86                                         | 65.06                                           | 3707.50                                      | 8.20                     | 8.00                                 | 301.50                                     |
|         | 06/20/05    | 3765.34                                     | 56.88                                         | 65.12                                           | 3707.47                                      | 8.24                     | 8.00                                 | 309.50                                     |
|         | 06/22/05    | 3765.34                                     | 56.90                                         | 65.10                                           | 3707.46                                      | 8.20                     | 8.00                                 | 317.50                                     |
|         | 06/29/05    | 3765.34                                     | 56.89                                         | 65.17                                           | 3707.46                                      | 8.28                     | 8.50                                 | 326.00                                     |
|         | 07/01/05    | 3765.34                                     | 56.91                                         | 65.15                                           | 3707.44                                      | 8.24                     | 8.00                                 | 334.00                                     |
|         | 07/06/05    | 3765.34                                     | 56.91                                         | 65.17                                           | 3707.44                                      | 8.26                     | 7.75                                 | 341.75                                     |
|         | 07/08/05    | 3765.34                                     | 56.91                                         | 65.04                                           | 3707.45                                      | 8.13                     | 9.00                                 | 350.75                                     |
|         | 07/12/05    | 3765.34                                     | 56.95                                         | 65.25                                           | 3707.39                                      | 8.30                     | 7.00                                 | 357.75                                     |
|         | 07/14/05    | 3765.34                                     | 56.92                                         | 65.21                                           | 3707.43                                      | 8.29                     | 8.75                                 | 366.50                                     |
|         | 07/19/05    | 3765.34                                     | 56.93                                         | 65.26                                           | 3707.41                                      | 8.33                     | 6.00                                 | 372.50                                     |
|         | 07/21/05    | 3765.34                                     | 56.96                                         | 65.29                                           | 3707.38                                      | 8.33                     | 8.00                                 | 380.50                                     |
|         | 07/26/05    | 3765.34                                     | 56.95                                         | 65.31                                           | 3707.39                                      | 8.36                     | 6.00                                 | 386.50                                     |
|         | 07/28/05    | 3765.34                                     | 56.58                                         | 65.30                                           | 3707.71                                      | 8.72                     | 6.00                                 | 392.50                                     |
|         | 08/02/05    | 3765.34                                     | 56.98                                         | 65.27                                           | 3707.37                                      | 8.29                     | 8.00                                 | 400.50                                     |
|         | 08/04/05    | 3765.34                                     | 57.00                                         | 65.33                                           | 3707.34                                      | 8.33                     | 6.00                                 | 406.50                                     |
|         | 08/09/05    | 3765.34                                     | 57.00                                         | 65.38                                           | 3707.33                                      | 8.38                     | 6.00                                 | 412.50                                     |
|         | 08/11/05    | 3765.34                                     | 56.99                                         | 65.37                                           | 3707.34                                      | 8.38                     | 6.00                                 | 418.50                                     |
|         | 08/16/05    | 3765.34                                     | 57.02                                         | 65.42                                           | 3707.31                                      | 8.40                     | 7.00                                 | 425.50                                     |
|         | 08/18/05    | 3765.34                                     | 57.01                                         | 65.40                                           | 3707.32                                      | 8.39                     | 6.00                                 | 431.50                                     |
|         | 08/24/05    | 3765.34                                     | 57.03                                         | 65.44                                           | 3707.30                                      | 8.41                     | 6.00                                 | 437.50                                     |
|         | 08/26/05    | 3765.34                                     | 57.04                                         | 65.44                                           | 3707.29                                      | 8.40                     | 6.00                                 | 443.50                                     |
|         | 08/30/05    | 3765.34                                     | 56.45                                         | 66.48                                           | 3707.69                                      | 10.03                    | 9.00                                 | 452.50                                     |
|         | 09/01/05    | 3765.34                                     | 56.52                                         | 66.74                                           | 3707.59                                      | 10.22                    | 9.00                                 | 461.50                                     |
|         | 09/06/05    | 3765.34                                     | 56.65                                         | 66.28                                           | 3707.53                                      | 9.63                     | 9.00                                 | 470.50                                     |
|         | 09/08/05    | 3765.34                                     | 56.73                                         | 66.88                                           | 3707.51                                      | 9.15                     | 6.00                                 | 476.50                                     |
|         | 09/13/05    | 3765.34                                     | 56.86                                         | 66.64                                           | 3707.43                                      | 8.78                     | 9.00                                 | 485.50                                     |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-1A   | 09/16/05    | 3765.34                                     | 56.94                                         | 65.46                                           | 3707.38                                      | 8.52                     | 7.00                                 | 492.50                                     |
|         | 09/20/05    | 3765.34                                     | 57.01                                         | 65.31                                           | 3707.33                                      | 8.30                     | 7.00                                 | 499.50                                     |
|         | 09/23/05    | 3765.34                                     | 57.04                                         | 65.23                                           | 3707.32                                      | 8.19                     | 6.00                                 | 505.50                                     |
|         | 09/27/05    | 3765.34                                     | 57.07                                         | 65.17                                           | 3707.30                                      | 8.10                     | 15.00                                | 520.50                                     |
|         | 09/29/05    | 3765.34                                     | 57.09                                         | 65.10                                           | 3707.29                                      | 8.01                     | 15.00                                | 535.50                                     |
|         | 10/04/05    | 3765.34                                     | 57.08                                         | 65.18                                           | 3707.29                                      | 8.10                     | 9.00                                 | 544.50                                     |
|         | 10/06/05    | 3765.34                                     | 57.09                                         | 65.21                                           | 3707.28                                      | 8.12                     | 8.00                                 | 552.50                                     |
|         | 10/11/05    | 3765.34                                     | 57.09                                         | 65.31                                           | 3707.26                                      | 8.22                     | 8.00                                 | 560.50                                     |
|         | 10/13/05    | 3765.34                                     | 57.10                                         | 65.28                                           | 3707.26                                      | 8.18                     | 7.00                                 | 567.50                                     |
|         | 10/18/05    | 3765.34                                     | 57.12                                         | 65.31                                           | 3707.24                                      | 8.19                     | 10.00                                | 577.50                                     |
|         | 10/21/05    | 3765.34                                     | 57.13                                         | 65.29                                           | 3707.23                                      | 8.16                     | 6.00                                 | 583.50                                     |
|         | 10/26/05    | 3765.34                                     | 57.15                                         | 65.34                                           | 3707.21                                      | 8.19                     | 7.00                                 | 590.50                                     |
|         | 10/28/05    | 3765.34                                     | 57.14                                         | 65.28                                           | 3707.22                                      | 8.14                     | 8.00                                 | 598.50                                     |
|         | 11/01/05    | 3765.34                                     | 57.16                                         | 65.34                                           | 3707.20                                      | 8.18                     | 8.00                                 | 606.50                                     |
|         | 11/04/05    | 3765.34                                     | 57.17                                         | 65.33                                           | 3707.19                                      | 8.16                     | 9.00                                 | 615.50                                     |
|         | 11/09/05    | 3765.34                                     | 57.21                                         | 65.38                                           | 3707.15                                      | 8.17                     | 8.00                                 | 623.50                                     |
|         | 11/11/05    | 3765.34                                     | 57.24                                         | 65.36                                           | 3707.13                                      | 8.12                     | 8.00                                 | 631.50                                     |
|         | 11/18/05    | 3765.34                                     | 57.21                                         | 65.42                                           | 3707.14                                      | 8.21                     | 7.00                                 | 638.50                                     |
|         | 11/18/05    | 3765.34                                     | 57.25                                         | 65.36                                           | 3707.12                                      | 8.11                     | 8.00                                 | 646.50                                     |
|         | 11/22/05    | 3765.34                                     | 57.24                                         | 65.42                                           | 3707.12                                      | 8.18                     | 7.00                                 | 653.50                                     |
|         | 11/30/05    | 3765.34                                     | 57.25                                         | 65.49                                           | 3707.10                                      | 8.24                     | 7.00                                 | 660.50                                     |
|         | 12/02/05    | 3765.34                                     | 57.28                                         | 65.45                                           | 3707.08                                      | 8.17                     | 7.00                                 | 667.50                                     |
|         | 12/06/05    | 3765.34                                     | 57.27                                         | 65.52                                           | 3707.08                                      | 8.25                     | 7.00                                 | 674.50                                     |
|         | 12/14/05    | 3765.34                                     | 57.30                                         | 65.57                                           | 3707.05                                      | 8.27                     | 7.00                                 | 681.50                                     |
|         | 12/18/05    | 3765.34                                     | 57.31                                         | 65.51                                           | 3707.05                                      | 8.20                     | 7.00                                 | 688.50                                     |
|         | 12/21/05    | 3765.34                                     | 57.31                                         | 65.61                                           | 3707.03                                      | 8.30                     | 7.00                                 | 695.50                                     |
|         | 12/23/05    | 3765.34                                     | 57.33                                         | 65.53                                           | 3707.03                                      | 8.20                     | 7.00                                 | 702.50                                     |
|         | 12/27/05    | 3765.34                                     | 57.33                                         | 65.63                                           | 3707.01                                      | 8.30                     | 7.00                                 | 709.50                                     |
|         | 12/30/05    | 3765.34                                     | 57.34                                         | 65.63                                           | 3707.01                                      | 8.29                     | 7.00                                 | 716.50                                     |
|         | 01/03/06    | 3765.34                                     | 57.35                                         | 65.69                                           | 3706.99                                      | 8.34                     | 8.00                                 | 724.50                                     |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOC REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-1A   | 01/05/06    | 3765.34                                     | 57.36                                         | 65.66                                           | 3706.98                                      | 8.30                     | 6.00                                 | 730.50                                     |
|         | 01/11/06    | 3765.34                                     | 57.37                                         | 65.75                                           | 3706.96                                      | 8.38                     | 8.00                                 | 738.50                                     |
|         | 01/13/06    | 3765.34                                     | 57.40                                         | 65.68                                           | 3706.95                                      | 8.28                     | 7.00                                 | 745.50                                     |
|         | 01/18/06    | 3765.34                                     | 57.38                                         | 65.77                                           | 3706.95                                      | 8.39                     | 6.00                                 | 751.50                                     |
|         | 01/20/06    | 3765.34                                     | 57.39                                         | 65.69                                           | 3706.95                                      | 8.30                     | 8.00                                 | 759.50                                     |
|         | 01/24/06    | 3765.34                                     | 57.41                                         | 65.83                                           | 3706.92                                      | 8.42                     | 9.00                                 | 768.50                                     |
|         | 01/26/06    | 3765.34                                     | 57.40                                         | 65.80                                           | 3706.93                                      | 8.40                     | 9.00                                 | 777.50                                     |
|         | 02/02/06    | 3765.34                                     | 57.40                                         | 65.87                                           | 3706.92                                      | 8.47                     | 0.00                                 | 777.50                                     |
|         | 02/08/06    | 3765.34                                     | 57.41                                         | 65.91                                           | 3706.91                                      | 8.50                     | 8.00                                 | 785.50                                     |
|         | 02/10/06    | 3765.34                                     | 57.40                                         | 65.87                                           | 3706.92                                      | 8.47                     | 8.00                                 | 793.50                                     |
|         | 02/14/06    | 3765.34                                     | 57.43                                         | 65.91                                           | 3706.89                                      | 8.48                     | 10.00                                | 803.50                                     |
|         | 02/16/06    | 3765.34                                     | 57.46                                         | 65.83                                           | 3706.88                                      | 8.37                     | 10.00                                | 813.50                                     |
|         | 02/21/06    | 3765.34                                     | 57.45                                         | 66.00                                           | 3706.86                                      | 8.55                     | 10.00                                | 823.50                                     |
|         | 02/24/06    | 3765.34                                     | 57.47                                         | 65.91                                           | 3706.86                                      | 8.44                     | 8.00                                 | 831.50                                     |
|         | 02/28/06    | 3765.34                                     | 57.21                                         | 71.50                                           | 3706.42                                      | 14.29                    | 0.00                                 | 831.50                                     |
|         | 03/03/06    | 3765.34                                     | 57.43                                         | 66.00                                           | 3706.88                                      | 8.57                     | 0.00                                 | 831.50                                     |
|         | 03/08/06    | 3765.34                                     | 57.45                                         | 66.00                                           | 3706.86                                      | 8.55                     | 7.00                                 | 838.50                                     |
|         | 03/08/06    | 3765.34                                     | 57.50                                         | 65.87                                           | 3706.84                                      | 8.37                     | 8.50                                 | 847.00                                     |
|         | 03/15/06    | 3765.34                                     | 57.51                                         | 66.03                                           | 3706.81                                      | 8.52                     | 8.00                                 | 855.00                                     |
|         | 03/17/06    | 3765.34                                     | 57.53                                         | 65.93                                           | 3706.80                                      | 8.40                     | 7.00                                 | 862.00                                     |
|         | 03/21/06    | 3765.34                                     | 57.51                                         | 66.04                                           | 3706.81                                      | 8.53                     | 7.00                                 | 869.00                                     |
|         | 03/23/06    | 3765.34                                     | 57.42                                         | 65.83                                           | 3706.91                                      | 8.41                     | 8.50                                 | 877.50                                     |
|         | 03/28/06    | 3765.34                                     | 57.52                                         | 66.03                                           | 3706.80                                      | 8.51                     | 7.00                                 | 884.50                                     |
|         | 03/30/06    | 3765.34                                     | 57.54                                         | 65.95                                           | 3706.79                                      | 8.41                     | 7.00                                 | 891.50                                     |
|         | 04/04/06    | 3765.34                                     | 57.55                                         | 66.07                                           | 3706.77                                      | 8.52                     | 7.00                                 | 898.50                                     |
|         | 04/07/06    | 3765.34                                     | 57.57                                         | 66.05                                           | 3706.75                                      | 8.48                     | 7.50                                 | 906.00                                     |
|         | 04/12/06    | 3765.34                                     | 57.59                                         | 66.10                                           | 3706.73                                      | 8.51                     | 7.00                                 | 913.00                                     |
|         | 04/14/06    | 3765.34                                     | 57.58                                         | 66.01                                           | 3706.75                                      | 8.43                     | 6.50                                 | 919.50                                     |
|         | 04/18/06    | 3765.34                                     | 57.55                                         | 66.10                                           | 3706.76                                      | 8.55                     | 6.00                                 | 925.50                                     |
|         | 04/21/06    | 3765.34                                     | 57.61                                         | 61.18                                           | 3707.30                                      | 3.57                     | 7.00                                 | 932.50                                     |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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-1A   | 04/26/06    | 3765.34                                  | 57.56                                   | 66.10                                     | 3706.76                                | 8.54               | 7.00                           | 939.50                            |
|         | 04/28/06    | 3765.34                                  | 57.60                                   | 65.98                                     | 3706.73                                | 8.38               | 6.00                           | 945.50                            |
|         | 05/04/06    | 3765.34                                  | 57.61                                   | 66.13                                     | 3706.71                                | 8.52               | 6.00                           | 951.50                            |
|         | 05/05/06    | 3765.34                                  | 57.62                                   | 66.11                                     | 3706.70                                | 8.49               | 7.00                           | 958.50                            |
|         | 05/10/06    | 3765.34                                  | 57.66                                   | 66.20                                     | 3706.66                                | 8.54               | 7.50                           | 966.00                            |
|         | 05/12/06    | 3765.34                                  | 57.65                                   | 66.05                                     | 3706.68                                | 8.40               | 7.00                           | 973.00                            |
|         | 05/16/06    | 3765.34                                  | 57.66                                   | 66.20                                     | 3706.66                                | 8.54               | 7.00                           | 980.00                            |
|         | 05/18/06    | 3765.34                                  | 57.66                                   | 66.08                                     | 3706.67                                | 8.42               | 7.25                           | 987.25                            |
|         | 05/23/06    | 3765.34                                  | 57.67                                   | 66.22                                     | 3706.64                                | 8.55               | 8.00                           | 995.25                            |
|         | 05/26/06    | 3765.34                                  | 57.87                                   | 66.16                                     | 3706.48                                | 8.29               | 6.50                           | 1001.75                           |
|         | 05/30/06    | 3765.34                                  | 57.88                                   | 66.23                                     | 3706.63                                | 8.55               | 7.25                           | 1009.00                           |
|         | 06/01/06    | 3765.34                                  | 57.70                                   | 66.11                                     | 3706.63                                | 8.41               | 6.75                           | 1015.75                           |
|         | 06/06/06    | 3765.34                                  | 57.70                                   | 66.25                                     | 3706.61                                | 8.55               | 0.00                           | 1015.75                           |
|         | 06/09/06    | 3765.34                                  | 57.70                                   | 66.26                                     | 3706.61                                | 8.56               | 7.25                           | 1023.00                           |
|         | 06/13/06    | 3765.34                                  | 57.71                                   | 66.27                                     | 3706.60                                | 8.56               | 7.00                           | 1030.00                           |
|         | 06/16/06    | 3765.34                                  | 57.72                                   | 66.25                                     | 3706.60                                | 8.53               | 4.00                           | 1034.00                           |
|         | 06/20/06    | 3765.34                                  | 57.72                                   | 66.27                                     | 3706.59                                | 8.55               | 10.00                          | 1044.00                           |
|         | 06/23/06    | 3765.34                                  | 57.72                                   | 66.26                                     | 3706.60                                | 8.54               | 6.75                           | 1050.75                           |
|         | 06/27/06    | 3765.34                                  | 57.74                                   | 66.28                                     | 3706.58                                | 8.54               | 5.00                           | 1055.75                           |
|         | 06/30/06    | 3765.34                                  | 57.75                                   | 66.25                                     | 3706.57                                | 8.50               | 6.50                           | 1062.25                           |
|         | 07/05/06    | 3765.34                                  | 57.75                                   | 66.27                                     | 3706.57                                | 8.52               | 0.00                           | 1062.25                           |
|         | 07/07/06    | 3765.34                                  | 57.77                                   | 66.31                                     | 3706.55                                | 8.54               | 6.00                           | 1068.25                           |
|         | 07/11/06    | 3765.34                                  | 57.78                                   | 66.30                                     | 3706.54                                | 8.52               | 7.00                           | 1075.25                           |
|         | 07/13/06    | 3765.34                                  | 57.79                                   | 66.20                                     | 3706.54                                | 8.41               | 7.00                           | 1082.25                           |
|         | 07/18/06    | 3765.34                                  | 57.80                                   | 66.36                                     | 3706.51                                | 8.56               | 7.50                           | 1089.75                           |
|         | 07/21/06    | 3765.34                                  | 57.80                                   | 66.30                                     | 3706.52                                | 8.50               | 6.00                           | 1095.75                           |
|         | 07/25/06    | 3765.34                                  | 57.81                                   | 66.38                                     | 3706.50                                | 8.57               | 7.00                           | 1102.75                           |
|         | 07/27/06    | 3765.34                                  | 57.81                                   | 66.28                                     | 3706.51                                | 8.47               | 7.00                           | 1109.75                           |
|         | 08/01/06    | 3765.34                                  | 57.83                                   | 66.41                                     | 3706.48                                | 8.58               | 7.50                           | 1117.25                           |
|         | 08/03/06    | 3765.34                                  | 57.85                                   | 66.36                                     | 3706.47                                | 8.51               | 7.00                           | 1124.25                           |





TABLE 5  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" Moore to Jal #1  
NMOCDF REF. # 1R-0380  
LEA COUNTY, NEW MEXICO - SRS# 2002-10270  
Talon/LPE Project Number PLAINS007SPL

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-1A   | 08/09/06    | 3765.34                                     | 57.87                                         | 66.44                                           | 3706.44                                      | 8.57                     | 7.00                                 | 1131.25                                    |
|         | 08/11/06    | 3765.34                                     | 57.87                                         | 66.35                                           | 3706.45                                      | 8.48                     | 7.50                                 | 1138.75                                    |
|         | 08/15/06    | 3765.34                                     | 57.89                                         | 66.46                                           | 3706.42                                      | 8.57                     | 5.00                                 | 1143.75                                    |
|         | 08/15/06    | 3765.34                                     | 57.89                                         | 66.46                                           | 3706.42                                      | 8.57                     | 5.00                                 | 1148.75                                    |
|         | 08/18/06    | 3765.34                                     | 57.89                                         | 66.46                                           | 3706.42                                      | 8.57                     | 7.00                                 | 1155.75                                    |
|         | 08/25/06    | 3765.34                                     | 57.92                                         | 66.51                                           | 3706.39                                      | 8.59                     | 7.25                                 | 1163.00                                    |
|         | 08/30/06    | 3765.34                                     | 57.94                                         | 66.43                                           | 3706.38                                      | 8.49                     | 6.50                                 | 1169.50                                    |
|         | 09/12/06    | 3765.34                                     | NM                                            | NM                                              |                                              |                          | 0.00                                 | 1169.50                                    |
|         | 09/15/06    | 3765.34                                     | 57.27                                         | 67.55                                           | 3706.84                                      | 10.28                    | 9.00                                 | 1178.50                                    |
|         | 09/20/06    | 3765.34                                     | 57.74                                         | 66.64                                           | 3706.53                                      | 8.90                     | 7.00                                 | 1185.50                                    |
|         | 09/28/06    | 3765.34                                     | 57.92                                         | 66.16                                           | 3706.43                                      | 8.24                     | 7.50                                 | 1193.00                                    |
|         | 09/29/06    | 3765.34                                     | 57.98                                         | 66.03                                           | 3706.39                                      | 8.05                     | 0.00                                 | 1193.00                                    |
|         | 10/04/06    | 3765.34                                     | 58.01                                         | 66.03                                           | 3706.37                                      | 8.02                     | 7.00                                 | 1200.00                                    |
|         | 10/06/06    | 3765.34                                     | 58.03                                         | 65.94                                           | 3706.36                                      | 7.91                     | 6.00                                 | 1206.00                                    |
|         | 10/12/06    | 3765.34                                     | 58.06                                         | 63.14                                           | 3706.87                                      | 5.08                     | 6.00                                 | 1212.00                                    |
|         | 10/17/06    | 3765.34                                     | 58.90                                         | 66.30                                           | 3705.55                                      | 7.40                     | 7.00                                 | 1219.00                                    |
|         | 10/20/06    | 3765.34                                     | 58.08                                         | 66.04                                           | 3706.30                                      | 7.96                     | 0.00                                 | 1219.00                                    |
|         | 10/24/06    | 3765.34                                     | 58.10                                         | 66.02                                           | 3706.29                                      | 7.92                     | 0.00                                 | 1219.00                                    |
|         | 10/26/06    | 3765.34                                     | 58.90                                         | 66.02                                           | 3705.59                                      | 7.12                     | 0.00                                 | 1219.00                                    |
|         | 11/22/06    | 3765.34                                     | 58.16                                         | 66.34                                           | 3706.20                                      | 8.18                     | 7.00                                 | 1226.00                                    |
|         | 11/28/06    | 3765.34                                     | 58.19                                         | 66.41                                           | 3706.16                                      | 8.22                     | 0.00                                 | 1226.00                                    |
|         | 12/06/06    | 3765.34                                     | 58.25                                         | 66.49                                           | 3706.10                                      | 8.24                     | 7.50                                 | 1233.50                                    |
|         | 12/08/06    | 3765.34                                     | 58.44                                         | 68.14                                           | 3705.74                                      | 9.70                     | 8.00                                 | 1241.50                                    |
|         | 12/12/06    | 3765.34                                     | 58.25                                         | 66.49                                           | 3706.10                                      | 8.24                     | 7.00                                 | 1248.50                                    |
|         | 12/15/06    | 3765.34                                     | 58.92                                         | 66.01                                           | 3705.57                                      | 7.09                     | 6.50                                 | 1255.00                                    |
|         | 12/20/06    | 3765.34                                     | NM                                            | NM                                              |                                              | 0.00                     | 0.00                                 | 1255.00                                    |
|         | 12/22/06    | 3765.34                                     | 58.34                                         | 66.41                                           | 3706.03                                      | 8.07                     | 0.00                                 | 1255.00                                    |
|         | 12/27/06    | 3765.34                                     | 58.30                                         | 66.65                                           | 3706.04                                      | 8.35                     | 0.00                                 | 1255.00                                    |
|         | 01/03/07    | 3765.34                                     | 58.34                                         | 66.69                                           | 3706.00                                      | 8.35                     | 0.00                                 | 1255.00                                    |
|         | 01/05/07    | 3765.34                                     | 58.32                                         | 66.72                                           | 3706.01                                      | 8.40                     | 0.00                                 | 1255.00                                    |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCDF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-1A   | 01/12/07    | 3765.34                                     | 58.35                                         | 66.76                                           | 3705.98                                      | 8.41                     | 7.00                                 | 1262.00                                    |
|         | 01/15/07    | 3765.34                                     | 58.40                                         | 66.72                                           | 3705.94                                      | 8.32                     | 0.00                                 | 1262.00                                    |
|         | 01/18/07    | 3765.34                                     | 58.38                                         | 66.78                                           | 3705.95                                      | 8.40                     | 7.00                                 | 1269.00                                    |
|         | 01/31/07    | 3765.34                                     | 58.41                                         | 66.87                                           | 3705.91                                      | 8.46                     | 0.00                                 | 1269.00                                    |
|         | 02/07/07    | 3765.34                                     | 58.31                                         | 67.78                                           | 3705.89                                      | 9.47                     | 7.00                                 | 1276.00                                    |
|         | 02/09/07    | 3765.34                                     | 58.43                                         | 66.69                                           | 3705.92                                      | 8.26                     | 7.50                                 | 1283.50                                    |
|         | 02/13/07    | 3765.34                                     | 58.44                                         | 66.85                                           | 3705.89                                      | 8.41                     | 7.75                                 | 1291.25                                    |
|         | 02/16/07    | 3765.34                                     | 58.42                                         | 66.79                                           | 3705.92                                      | 8.37                     | 7.50                                 | 1298.75                                    |
|         | 02/19/07    | 3765.34                                     | 58.48                                         | 66.42                                           | 3705.91                                      | 7.94                     | 0.00                                 | 1298.75                                    |
|         | 03/09/07    | 3765.34                                     | 65.02                                         | 73.50                                           | 3699.30                                      | 8.48                     | 0.00                                 | 1298.75                                    |
|         | 03/13/07    | 3765.34                                     | 65.67                                         | 74.02                                           | 3698.67                                      | 8.35                     | 9.50                                 | 1308.25                                    |
|         | 03/23/07    | 3765.34                                     | 65.10                                         | 73.47                                           | 3699.24                                      | 8.37                     | 0.00                                 | 1308.25                                    |
|         | 03/27/07    | 3768.36                                     | 65.09                                         | 73.55                                           | 3702.25                                      | 8.46                     | 0.00                                 | 1308.25                                    |
|         | 04/06/07    | 3768.36                                     | 65.13                                         | 73.52                                           | 3702.22                                      | 8.39                     | 0.00                                 | 1308.25                                    |
|         | 04/11/07    | 3768.36                                     | 66.17                                         | 72.20                                           | 3701.47                                      | 6.03                     | 0.00                                 | 1308.25                                    |
|         | 04/17/07    | 3768.36                                     | 65.15                                         | 73.65                                           | 3702.19                                      | 8.50                     | 6.00                                 | 1314.25                                    |
|         | 04/19/07    | 3768.36                                     | 65.15                                         | 73.42                                           | 3702.22                                      | 8.27                     | 7.00                                 | 1321.25                                    |
|         | 04/24/07    | 3768.36                                     | 65.15                                         | 73.76                                           | 3702.18                                      | 8.61                     | 6.00                                 | 1327.25                                    |
|         | 05/01/07    | 3768.36                                     | 65.20                                         | 72.21                                           | 3702.32                                      | 7.01                     | 0.00                                 | 1327.25                                    |
|         | 05/21/07    | 3768.36                                     | 65.23                                         | 73.54                                           | 3702.13                                      | 8.31                     | 0.00                                 | 1327.25                                    |
|         | 05/24/07    | 3768.36                                     | 65.45                                         | 73.84                                           | 3701.90                                      | 8.39                     | 7.00                                 | 1334.25                                    |
|         | 08/28/07    | 3768.36                                     | 65.38                                         | 73.90                                           | 3701.96                                      | 8.52                     | 0.00                                 | 1334.25                                    |
|         | 08/07/07    | 3768.36                                     | 65.31                                         | 73.92                                           | 3702.02                                      | 8.61                     | 8.00                                 | 1342.25                                    |
|         | 08/17/07    | 3768.36                                     | 64.25                                         | 71.76                                           | 3703.21                                      | 7.51                     | 7.00                                 | 1349.25                                    |
|         | 08/23/07    | 3768.36                                     | 65.34                                         | 73.86                                           | 3702.00                                      | 8.52                     | 7.00                                 | 1356.25                                    |
|         | 08/31/07    | 3768.36                                     | 65.37                                         | 73.89                                           | 3701.97                                      | 8.52                     | 8.50                                 | 1364.75                                    |
|         | 09/21/07    | 3768.36                                     | 65.43                                         | 73.60                                           | 3701.95                                      | 8.17                     | 8.00                                 | 1372.75                                    |
|         | 09/28/07    | 3768.36                                     | 65.45                                         | 73.96                                           | 3701.89                                      | 8.51                     | 8.50                                 | 1381.25                                    |
|         | 10/11/07    | 3768.36                                     | 65.48                                         | 72.48                                           | 3702.04                                      | 7.00                     | 9.00                                 | 1390.25                                    |
|         | 10/18/07    | 3768.36                                     | 65.51                                         | 73.98                                           | 3701.83                                      | 8.47                     | 8.00                                 | 1398.25                                    |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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-1A   | 11/13/07    | 3768.36                                  | 64.68                                   | 73.17                                     | 3702.66                                | 8.49               | 0.00                           | 1398.25                           |
|         | 11/27/07    | 3768.36                                  | 64.72                                   | 73.21                                     | 3702.62                                | 8.49               | 0.00                           | 1398.25                           |
|         | 12/13/07    | 3768.36                                  | 64.76                                   | 73.29                                     | 3702.58                                | 8.53               | 8.50                           | 1406.75                           |
|         | 12/17/07    | 3768.36                                  | 64.83                                   | 73.28                                     | 3702.52                                | 8.45               | 0.00                           | 1406.75                           |
|         | 12/31/07    | 3768.36                                  | 64.84                                   | 73.36                                     | 3702.50                                | 8.52               | 8.00                           | 1414.75                           |
|         | 01/06/08    | 3768.36                                  | 64.91                                   | 73.29                                     | 3702.44                                | 8.38               | 8.00                           | 1422.75                           |
|         | 03/05/08    | 3768.36                                  | 65.06                                   | 73.57                                     | 3702.28                                | 8.51               | 0.00                           | 1422.75                           |
|         | 03/26/08    | 3768.36                                  | 65.12                                   | 73.37                                     | 3702.25                                | 8.25               | 0.00                           | 1422.75                           |
|         | 04/02/08    | 3768.36                                  | 65.17                                   | 73.46                                     | 3702.20                                | 8.29               | 0.00                           | 1422.75                           |
|         | 04/04/08    | 3768.36                                  | 65.28                                   | 73.49                                     | 3702.09                                | 8.21               | 8.00                           | 1430.75                           |
|         |             |                                          |                                         |                                           |                                        |                    |                                |                                   |
| MW-1    | 09/22/04    | 3766.03                                  | 56.74                                   | 67.29                                     | 3708.02                                | 10.55              | 0.00                           | 0.00                              |
|         | 10/08/04    | 3766.03                                  | 52.27                                   | 75.25                                     | 3711.00                                | 22.98              | 35.00                          | 35.00                             |
|         | 10/14/04    | 3766.03                                  | 53.67                                   | 71.20                                     | 3710.26                                | 17.53              | 20.00                          | 55.00                             |
|         | 10/20/04    | 3766.03                                  | 54.64                                   | 68.31                                     | 3709.75                                | 13.67              | 17.00                          | 72.00                             |
|         | 10/29/04    | 3766.03                                  | 56.08                                   | 63.66                                     | 3709.04                                | 7.58               | 7.00                           | 79.00                             |
|         | 11/04/04    | 3766.03                                  | 57.49                                   | 58.46                                     | 3708.42                                | 0.97               | 1.50                           | 80.50                             |
|         | 11/10/04    | 3766.03                                  | 57.69                                   | 58.40                                     | 3708.25                                | 0.71               | 0.75                           | 81.25                             |
|         | 11/17/04    | 3766.03                                  | 57.88                                   | 58.22                                     | 3708.11                                | 0.34               | 0.25                           | 81.50                             |
|         | 11/24/04    | 3766.03                                  | 57.91                                   | 58.13                                     | 3708.09                                | 0.22               | 0.50                           | 82.00                             |
|         | 12/02/04    | 3766.03                                  | 57.75                                   | 58.67                                     | 3708.17                                | 0.92               | 1.00                           | 83.00                             |
|         | 12/08/04    | 3766.03                                  | 57.70                                   | 58.64                                     | 3708.22                                | 0.94               | 0.25                           | 83.25                             |
|         | 12/15/04    | 3766.03                                  | 57.89                                   | 59.15                                     | 3707.99                                | 1.26               | 1.00                           | 84.25                             |
|         | 12/27/04    | 3766.03                                  | 58.20                                   | 58.64                                     | 3707.78                                | 0.44               | 0.13                           | 84.38                             |
|         | 12/29/04    | 3766.03                                  | 58.17                                   | 58.60                                     | 3707.81                                | 0.43               | 0.06                           | 84.44                             |
|         | 01/06/05    | 3766.03                                  | 58.29                                   | 58.72                                     | 3707.89                                | 0.43               | 0.13                           | 84.56                             |
|         | 01/13/05    | 3766.03                                  | 58.40                                   | 58.72                                     | 3707.59                                | 0.32               | 0.13                           | 84.69                             |
|         | 01/19/05    | 3766.03                                  | 58.42                                   | 58.71                                     | 3707.58                                | 0.29               | 0.13                           | 84.81                             |
|         | 01/26/05    | 3766.03                                  | 58.48                                   | 58.83                                     | 3707.51                                | 0.35               | 0.25                           | 85.06                             |
|         | 02/02/05    | 3766.03                                  | 58.49                                   | 58.81                                     | 3707.50                                | 0.32               | 0.25                           | 85.31                             |
|         | 02/09/05    | 3766.03                                  | 58.48                                   | 58.80                                     | 3707.51                                | 0.32               | 0.25                           | 85.56                             |
|         | 02/16/05    | 3766.03                                  | 58.54                                   | 58.86                                     | 3707.45                                | 0.32               | 0.25                           | 85.81                             |
|         | 02/24/05    | 3766.03                                  | 58.57                                   | 58.89                                     | 3707.42                                | 0.32               | 0.25                           | 86.06                             |
|         | 03/03/05    | 3766.03                                  | 58.62                                   | 58.89                                     | 3707.38                                | 0.27               | 0.25                           | 86.31                             |
|         | 03/11/05    | 3766.03                                  | 58.54                                   | 58.63                                     | 3707.48                                | 0.09               | 0.00                           | 86.31                             |
|         | 03/18/05    | 3766.03                                  | 58.63                                   | 59.08                                     | 3707.35                                | 0.45               | 0.25                           | 86.56                             |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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-1    | 04/01/05    | 3766.03                                  | 58.60                                   | 59.07                                     | 3707.37                                | 0.47               | 0.25                           | 86.81                             |
|         | 04/07/05    | 3766.03                                  | 58.65                                   | 59.17                                     | 3707.32                                | 0.52               | 0.25                           | 87.06                             |
|         | 05/18/05    | 3766.03                                  | 58.77                                   | 59.30                                     | 3707.20                                | 0.53               | 1.50                           | 88.56                             |
|         | 05/23/05    | 3766.03                                  | 58.88                                   | 58.94                                     | 3707.14                                | 0.06               | 0.25                           | 88.81                             |
|         | 05/28/05    | 3766.03                                  | 58.89                                   | 58.91                                     | 3707.14                                | 0.02               | 0.50                           | 89.31                             |
|         | 06/01/05    | 3766.03                                  | 58.89                                   | 58.97                                     | 3707.13                                | 0.08               | 0.50                           | 89.81                             |
|         | 06/03/05    | 3766.03                                  | 58.86                                   | 58.98                                     | 3707.16                                | 0.12               | 0.25                           | 90.06                             |
|         | 06/07/05    | 3766.03                                  | 58.90                                   | 59.03                                     | 3707.11                                | 0.13               | 0.25                           | 90.31                             |
|         | 06/10/05    | 3766.03                                  | 58.90                                   | 59.02                                     | 3707.12                                | 0.12               | 1.00                           | 91.31                             |
|         | 06/13/05    | 3766.03                                  | 58.90                                   | 59.12                                     | 3707.10                                | 0.22               | 0.50                           | 91.81                             |
|         | 06/16/05    | 3766.03                                  | 58.91                                   | 59.02                                     | 3707.11                                | 0.11               | 0.50                           | 92.31                             |
|         | 06/20/05    | 3766.03                                  | 58.95                                   | 59.12                                     | 3707.06                                | 0.17               | 0.25                           | 92.56                             |
|         | 06/22/05    | 3766.03                                  | 58.94                                   | 59.14                                     | 3707.07                                | 0.20               | 0.50                           | 93.06                             |
|         | 06/29/05    | 3766.03                                  | 58.95                                   | 59.08                                     | 3707.06                                | 0.13               | 0.25                           | 93.31                             |
|         | 07/01/05    | 3766.03                                  | 58.97                                   | 59.09                                     | 3707.05                                | 0.12               | 0.25                           | 93.56                             |
|         | 07/06/05    | 3766.03                                  | 58.99                                   | 59.08                                     | 3707.03                                | 0.09               | 0.25                           | 93.81                             |
|         | 07/08/05    | 3766.03                                  | 58.90                                   | 59.02                                     | 3707.12                                | 0.12               | 0.50                           | 94.31                             |
|         | 07/12/05    | 3766.03                                  | 59.02                                   | 59.11                                     | 3707.00                                | 0.09               | 0.25                           | 94.56                             |
|         | 07/14/05    | 3766.03                                  | 58.99                                   | 59.22                                     | 3707.01                                | 0.23               | 0.25                           | 94.81                             |
|         | 07/19/05    | 3766.03                                  | 59.01                                   | 59.18                                     | 3707.00                                | 0.17               | 0.00                           | 94.81                             |
|         | 07/21/05    | 3766.03                                  | 59.04                                   | 59.38                                     | 3706.95                                | 0.34               | 0.00                           | 94.81                             |
|         | 07/26/05    | 3766.03                                  | 59.04                                   | 59.13                                     | 3706.98                                | 0.09               | 0.00                           | 94.81                             |
|         | 07/28/05    | 3766.03                                  | 59.17                                   | 59.65                                     | 3706.80                                | 0.48               | 0.00                           | 94.81                             |
|         | 08/02/05    | 3766.03                                  | 59.04                                   | 59.23                                     | 3706.97                                | 0.19               | 0.00                           | 94.81                             |
|         | 08/04/05    | 3766.03                                  | 59.05                                   | 59.28                                     | 3706.95                                | 0.23               | 0.00                           | 94.81                             |
|         | 08/09/05    | 3766.03                                  | 59.04                                   | 59.33                                     | 3706.96                                | 0.29               | 0.00                           | 94.81                             |
|         | 08/11/05    | 3766.03                                  | 59.04                                   | 59.37                                     | 3706.95                                | 0.33               | 0.00                           | 94.81                             |
|         | 08/16/05    | 3766.03                                  | 59.05                                   | 59.46                                     | 3706.93                                | 0.41               | 0.00                           | 94.81                             |
|         | 08/18/05    | 3766.03                                  | 59.04                                   | 59.48                                     | 3706.94                                | 0.44               | 0.00                           | 94.81                             |
|         | 08/24/05    | 3766.03                                  | 59.03                                   | 59.56                                     | 3706.94                                | 0.53               | 0.00                           | 94.81                             |



TABLE 5  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" Moore to Jal #1  
NIMOD REF. # 1R-0380  
LEA COUNTY, NEW MEXICO - SRS# 2002-10270  
Talon/LPE Project Number PLAINS007SPL

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-1    | 08/26/05    | 3766.03                                     | 59.04                                         | 59.61                                           | 3706.92                                      | 0.57                     | 0.00                                 | 94.81                                      |
|         | 08/30/05    | 3766.03                                     | 59.91                                         | 59.71                                           | 3707.02                                      | 0.80                     | 0.00                                 | 94.81                                      |
|         | 09/01/05    | 3766.03                                     | 58.82                                         | 60.17                                           | 3707.05                                      | 1.35                     | 1.00                                 | 95.81                                      |
|         | 09/06/05    | 3766.03                                     | 58.85                                         | 59.63                                           | 3707.09                                      | 0.78                     | 1.00                                 | 96.81                                      |
|         | 09/08/05    | 3766.03                                     | 59.02                                         | 59.38                                           | 3706.97                                      | 0.36                     | 0.00                                 | 96.81                                      |
|         | 09/13/05    | 3766.03                                     | 58.92                                         | 59.92                                           | 3706.99                                      | 1.00                     | 1.00                                 | 97.81                                      |
|         | 09/16/05    | 3766.03                                     | 59.07                                         | 59.37                                           | 3706.92                                      | 0.30                     | 0.00                                 | 97.81                                      |
|         | 09/20/05    | 3766.03                                     | 59.05                                         | 59.67                                           | 3706.91                                      | 0.62                     | 0.00                                 | 97.81                                      |
|         | 09/23/05    | 3766.03                                     | 59.03                                         | 59.82                                           | 3706.91                                      | 0.79                     | 0.00                                 | 97.81                                      |
|         | 09/27/05    | 3766.03                                     | 59.98                                         | 59.98                                           | 3706.93                                      | 1.00                     | 1.00                                 | 98.81                                      |
|         | 09/29/05    | 3766.03                                     | 59.15                                         | 59.25                                           | 3706.87                                      | 0.10                     | 1.00                                 | 99.81                                      |
|         | 10/04/05    | 3766.03                                     | 59.11                                         | 59.44                                           | 3706.88                                      | 0.33                     | 0.00                                 | 99.81                                      |
|         | 10/06/05    | 3766.03                                     | 59.14                                         | 59.56                                           | 3706.84                                      | 0.42                     | 0.00                                 | 99.81                                      |
|         | 10/11/05    | 3766.03                                     | 59.08                                         | 59.78                                           | 3706.87                                      | 0.70                     | 0.00                                 | 99.81                                      |
|         | 10/13/05    | 3766.03                                     | 59.06                                         | 59.92                                           | 3706.87                                      | 0.86                     | 0.00                                 | 99.81                                      |
|         | 10/18/05    | 3766.03                                     | 59.04                                         | 60.42                                           | 3706.82                                      | 1.38                     | 0.00                                 | 99.81                                      |
|         | 10/21/05    | 3766.03                                     | 59.03                                         | 60.24                                           | 3706.85                                      | 1.21                     | 0.00                                 | 99.81                                      |
|         | 10/26/05    | 3766.03                                     | 58.94                                         | 60.40                                           | 3706.91                                      | 1.46                     | 1.00                                 | 100.81                                     |
|         | 10/28/05    | 3766.03                                     | 59.18                                         | 59.50                                           | 3706.81                                      | 0.32                     | 0.00                                 | 100.81                                     |
|         | 11/01/05    | 3766.03                                     | 59.16                                         | 59.70                                           | 3706.81                                      | 0.54                     | 0.00                                 | 100.81                                     |
|         | 11/04/05    | 3766.03                                     | 59.14                                         | 59.81                                           | 3706.81                                      | 0.67                     | 0.50                                 | 101.31                                     |
|         | 11/09/05    | 3766.03                                     | 59.26                                         | 59.54                                           | 3706.74                                      | 0.28                     | 0.00                                 | 101.31                                     |
|         | 11/11/05    | 3766.03                                     | 59.26                                         | 59.54                                           | 3706.74                                      | 0.28                     | 0.00                                 | 101.31                                     |
|         | 11/16/05    | 3766.03                                     | 59.21                                         | 59.84                                           | 3706.74                                      | 0.63                     | 0.00                                 | 101.31                                     |
|         | 11/18/05    | 3766.03                                     | 59.26                                         | 59.86                                           | 3706.70                                      | 0.60                     | 0.00                                 | 101.31                                     |
|         | 11/22/05    | 3766.03                                     | 59.17                                         | 60.10                                           | 3706.75                                      | 0.93                     | 0.00                                 | 101.31                                     |
|         | 11/30/05    | 3766.03                                     | 59.11                                         | 60.46                                           | 3706.76                                      | 1.35                     | 0.00                                 | 101.31                                     |
|         | 12/02/05    | 3766.03                                     | 59.11                                         | 60.46                                           | 3706.76                                      | 1.35                     | 0.00                                 | 101.31                                     |
|         | 12/06/05    | 3766.03                                     | 59.05                                         | 60.75                                           | 3706.78                                      | 1.70                     | 1.00                                 | 102.31                                     |
|         | 12/14/05    | 3766.03                                     | 59.27                                         | 60.04                                           | 3706.67                                      | 0.77                     | 0.00                                 | 102.31                                     |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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-1    | 12/16/05    | 3766.03                                  | 59.28                                   | 60.04                                     | 3706.66                                | 0.76               | 0.00                           | 102.31                            |
|         | 12/21/05    | 3766.03                                  | 59.28                                   | 60.04                                     | 3706.66                                | 0.76               | 0.00                           | 102.31                            |
|         | 12/23/05    | 3766.03                                  | 59.19                                   | 59.53                                     | 3706.90                                | 0.34               | 0.00                           | 102.31                            |
|         | 12/27/05    | 3766.03                                  | 59.19                                   | 59.53                                     | 3706.90                                | 0.34               | 0.00                           | 102.31                            |
|         | 12/30/05    | 3766.03                                  | 59.03                                   | 59.91                                     | 3706.89                                | 0.88               | 0.00                           | 102.31                            |
|         | 01/03/06    | 3766.03                                  | 59.11                                   | 61.18                                     | 3706.67                                | 2.07               | 1.00                           | 103.31                            |
|         | 01/05/06    | 3766.03                                  | 59.16                                   | 59.43                                     | 3706.84                                | 0.27               | 0.00                           | 103.31                            |
|         | 01/11/06    | 3766.03                                  | 59.38                                   | 60.03                                     | 3706.57                                | 0.65               | 0.00                           | 103.31                            |
|         | 01/13/06    | 3766.03                                  | 59.40                                   | 60.18                                     | 3706.54                                | 0.78               | 0.00                           | 103.31                            |
|         | 01/18/06    | 3766.03                                  | 59.28                                   | 60.45                                     | 3706.61                                | 1.17               | 0.00                           | 103.31                            |
|         | 01/20/06    | 3766.03                                  | 59.29                                   | 60.61                                     | 3706.58                                | 1.32               | 0.50                           | 103.81                            |
|         | 01/24/06    | 3766.03                                  | 59.24                                   | 60.87                                     | 3706.59                                | 1.63               | 0.00                           | 103.81                            |
|         | 01/26/06    | 3766.03                                  | 59.23                                   | 60.82                                     | 3706.61                                | 1.59               | 0.00                           | 103.81                            |
|         | 02/02/06    | 3766.03                                  | 59.08                                   | 61.49                                     | 3706.66                                | 2.41               | 0.00                           | 103.81                            |
|         | 02/08/06    | 3766.03                                  | 59.00                                   | 61.90                                     | 3706.68                                | 2.90               | 1.50                           | 105.31                            |
|         | 02/10/06    | 3766.03                                  | 58.97                                   | 61.83                                     | 3706.72                                | 2.86               | 1.50                           | 106.81                            |
|         | 02/14/06    | 3766.03                                  | 59.44                                   | 60.11                                     | 3706.51                                | 0.67               | 1.00                           | 107.81                            |
|         | 02/16/06    | 3766.03                                  | 59.55                                   | 59.76                                     | 3706.45                                | 0.21               | 1.00                           | 108.81                            |
|         | 02/21/06    | 3766.03                                  | 57.45                                   | 60.15                                     | 3708.26                                | 2.70               | 0.50                           | 109.31                            |
|         | 02/24/06    | 3766.03                                  | 59.52                                   | 60.00                                     | 3706.45                                | 0.48               | 0.00                           | 109.31                            |
|         | 02/28/06    | 3766.03                                  | 59.40                                   | 60.32                                     | 3706.52                                | 0.92               | 0.00                           | 109.31                            |
|         | 03/03/06    | 3766.03                                  | 59.37                                   | 60.61                                     | 3706.51                                | 1.24               | 0.00                           | 109.31                            |
|         | 03/06/06    | 3766.03                                  | 59.45                                   | 60.84                                     | 3706.41                                | 1.39               | 1.50                           | 110.81                            |
|         | 03/15/06    | 3766.03                                  | 59.30                                   | 61.05                                     | 3706.52                                | 1.75               | 1.00                           | 111.81                            |
|         | 03/17/06    | 3766.03                                  | 59.39                                   | 60.30                                     | 3706.53                                | 0.91               | 1.00                           | 112.81                            |
|         | 03/21/06    | 3766.03                                  | 59.38                                   | 60.30                                     | 3706.54                                | 0.92               | 0.00                           | 112.81                            |
|         | 03/21/06    | 3766.03                                  | 59.52                                   | 60.28                                     | 3706.42                                | 0.76               | 0.00                           | 112.81                            |
|         | 03/23/06    | 3766.03                                  | 59.39                                   | 60.33                                     | 3706.53                                | 0.94               | 1.00                           | 113.81                            |
|         | 03/29/06    | 3766.03                                  | 59.45                                   | 60.60                                     | 3706.44                                | 1.15               | 0.50                           | 114.31                            |
|         | 03/30/06    | 3766.03                                  | 59.49                                   | 60.65                                     | 3706.40                                | 1.16               | 0.50                           | 114.81                            |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-1    | 04/04/06    | 3766.03                                     | 59.38                                         | 60.98                                           | 3706.46                                      | 1.60                     | 0.50                                 | 115.31                                     |
|         | 04/07/06    | 3766.03                                     | 59.35                                         | 61.30                                           | 3706.45                                      | 1.95                     | 0.50                                 | 115.81                                     |
|         | 04/12/06    | 3766.03                                     | 59.23                                         | 61.80                                           | 3706.49                                      | 2.57                     | 1.25                                 | 117.06                                     |
|         | 04/14/06    | 3766.03                                     | 59.55                                         | 60.47                                           | 3706.37                                      | 0.92                     | 0.50                                 | 117.56                                     |
|         | 04/18/06    | 3766.03                                     | 59.43                                         | 60.82                                           | 3706.43                                      | 1.39                     | 0.50                                 | 118.06                                     |
|         | 04/21/06    | 3766.03                                     | 59.41                                         | 61.18                                           | 3706.41                                      | 1.77                     | 0.50                                 | 118.56                                     |
|         | 04/26/06    | 3766.03                                     | 59.25                                         | 61.65                                           | 3706.49                                      | 2.40                     | 1.00                                 | 119.56                                     |
|         | 04/29/06    | 3766.03                                     | 59.50                                         | 60.80                                           | 3706.37                                      | 1.30                     | 0.50                                 | 120.06                                     |
|         | 05/04/06    | 3766.03                                     | 59.41                                         | 61.25                                           | 3706.40                                      | 1.84                     | 0.50                                 | 120.56                                     |
|         | 05/05/06    | 3766.03                                     | 59.41                                         | 60.37                                           | 3706.50                                      | 0.96                     | 0.00                                 | 120.56                                     |
|         | 05/10/06    | 3766.03                                     | 59.35                                         | 60.95                                           | 3706.49                                      | 1.60                     | 0.00                                 | 120.56                                     |
|         | 05/12/06    | 3766.03                                     | 59.27                                         | 62.15                                           | 3706.41                                      | 2.88                     | 2.00                                 | 122.56                                     |
|         | 05/16/06    | 3766.03                                     | 59.37                                         | 61.82                                           | 3706.37                                      | 2.45                     | 1.20                                 | 123.76                                     |
|         | 05/18/06    | 3766.03                                     | 59.41                                         | 61.55                                           | 3706.36                                      | 2.14                     | 1.25                                 | 125.01                                     |
|         | 05/23/06    | 3766.03                                     | 59.35                                         | 61.87                                           | 3706.38                                      | 2.52                     | 1.52                                 | 126.53                                     |
|         | 05/26/06    | 3766.03                                     | 59.38                                         | 61.75                                           | 3706.37                                      | 2.37                     | 1.50                                 | 128.03                                     |
|         | 05/30/06    | 3766.03                                     | 59.43                                         | 61.82                                           | 3706.34                                      | 2.19                     | 1.00                                 | 129.03                                     |
|         | 06/01/06    | 3766.03                                     | 59.41                                         | 60.80                                           | 3706.45                                      | 1.39                     | 0.00                                 | 129.03                                     |
|         | 06/06/06    | 3766.03                                     | 59.28                                         | 62.40                                           | 3706.38                                      | 3.12                     | 0.00                                 | 129.03                                     |
|         | 06/09/06    | 3766.03                                     | 59.18                                         | 62.74                                           | 3706.42                                      | 3.56                     | 2.25                                 | 131.28                                     |
|         | 06/13/06    | 3766.03                                     | 59.27                                         | 62.50                                           | 3706.37                                      | 3.23                     | 1.75                                 | 133.03                                     |
|         | 06/16/06    | 3766.03                                     | 59.30                                         | 62.25                                           | 3706.38                                      | 2.95                     | 4.00                                 | 137.03                                     |
|         | 06/20/06    | 3766.03                                     | 59.46                                         | 61.59                                           | 3706.31                                      | 2.13                     | 7.00                                 | 144.03                                     |
|         | 06/23/06    | 3766.03                                     | 59.38                                         | 62.02                                           | 3706.33                                      | 2.64                     | 0.75                                 | 144.78                                     |
|         | 06/27/06    | 3766.03                                     | 59.74                                         | 62.08                                           | 3706.01                                      | 2.34                     | 1.50                                 | 146.28                                     |
|         | 06/30/06    | 3766.03                                     | 59.65                                         | 60.82                                           | 3706.23                                      | 1.27                     | 0.75                                 | 147.03                                     |
|         | 07/05/06    | 3766.03                                     | 59.54                                         | 61.50                                           | 3706.25                                      | 1.96                     | 0.00                                 | 147.03                                     |
|         | 07/07/06    | 3766.03                                     | 59.59                                         | 61.80                                           | 3706.17                                      | 2.21                     | 2.00                                 | 149.03                                     |
|         | 07/11/06    | 3766.03                                     | 59.62                                         | 61.31                                           | 3706.21                                      | 1.69                     | 0.75                                 | 149.78                                     |
|         | 07/13/06    | 3766.03                                     | 59.58                                         | 61.51                                           | 3706.22                                      | 1.93                     | 1.50                                 | 151.28                                     |



TABLE 5  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" Moore to Jal #1  
NMOCD REF. # 1R-0380  
LEA COUNTY, NEW MEXICO - SRS# 2002-10270  
Talon/LPE Project Number PLAINS007SPL

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-1    | 07/18/06    | 3766.03                                     | 59.58                                         | 61.55                                           | 3706.21                                      | 1.97                     | 2.50                                 | 153.78                                     |
|         | 07/21/06    | 3766.03                                     | 59.78                                         | 60.59                                           | 3706.15                                      | 0.81                     | 0.00                                 | 153.78                                     |
|         | 07/25/06    | 3766.03                                     | 59.67                                         | 61.20                                           | 3706.18                                      | 1.53                     | 0.75                                 | 154.53                                     |
|         | 07/27/06    | 3766.03                                     | 59.65                                         | 61.31                                           | 3706.18                                      | 1.66                     | 1.50                                 | 156.03                                     |
|         | 08/01/06    | 3766.03                                     | 59.71                                         | 61.15                                           | 3706.15                                      | 1.44                     | 0.00                                 | 156.03                                     |
|         | 08/03/06    | 3766.03                                     | 59.65                                         | 61.46                                           | 3706.16                                      | 1.81                     | 1.00                                 | 157.03                                     |
|         | 08/09/06    | 3766.03                                     | 59.62                                         | 61.74                                           | 3706.16                                      | 2.12                     | 1.25                                 | 158.28                                     |
|         | 08/11/06    | 3766.03                                     | 59.27                                         | 61.12                                           | 3706.54                                      | 1.85                     | 0.00                                 | 158.28                                     |
|         | 08/15/06    | 3766.03                                     | 59.65                                         | 61.82                                           | 3706.12                                      | 2.17                     | 0.00                                 | 158.28                                     |
|         | 08/18/06    | 3766.03                                     | 59.52                                         | 62.35                                           | 3706.17                                      | 2.83                     | 1.75                                 | 160.03                                     |
|         | 08/25/06    | 3766.03                                     | 59.67                                         | 61.80                                           | 3706.10                                      | 2.13                     | 1.50                                 | 161.53                                     |
|         | 08/30/06    | 3766.03                                     | 59.68                                         | 61.81                                           | 3706.09                                      | 2.13                     | 0.00                                 | 161.53                                     |
|         | 09/12/06    | 3766.03                                     | NM                                            | NM                                              |                                              |                          | 0.00                                 | 161.53                                     |
|         | 09/15/06    | 3766.03                                     | 58.27                                         | 61.35                                           | 3707.39                                      | 3.08                     | 6.50                                 | 168.03                                     |
|         | 09/20/06    | 3766.03                                     | 58.88                                         | 65.01                                           | 3706.41                                      | 6.13                     | 3.50                                 | 171.53                                     |
|         | 09/26/06    | 3766.03                                     | 59.08                                         | 64.38                                           | 3706.31                                      | 5.30                     | 3.00                                 | 174.53                                     |
|         | 09/29/06    | 3766.03                                     | 59.61                                         | 62.10                                           | 3706.12                                      | 2.49                     | 0.00                                 | 174.53                                     |
|         | 10/04/06    | 3766.03                                     | 59.26                                         | 63.81                                           | 3706.22                                      | 4.55                     | 3.00                                 | 177.53                                     |
|         | 10/06/06    | 3766.03                                     | 59.81                                         | 61.34                                           | 3706.04                                      | 1.53                     | 0.00                                 | 177.53                                     |
|         | 10/12/06    | 3766.03                                     | 59.44                                         | 63.14                                           | 3706.15                                      | 3.70                     | 1.50                                 | 179.03                                     |
|         | 10/17/06    | 3766.03                                     | 59.88                                         | 61.21                                           | 3705.99                                      | 1.33                     | 0.00                                 | 179.03                                     |
|         | 10/24/06    | 3766.03                                     | 59.88                                         | 61.21                                           | 3705.99                                      | 1.33                     | 0.00                                 | 179.03                                     |
|         | 10/26/06    | 3766.03                                     | 59.44                                         | 62.97                                           | 3706.17                                      | 3.53                     | 0.00                                 | 179.03                                     |
|         | 11/22/06    | 3766.03                                     | 58.91                                         | 66.21                                           | 3706.24                                      | 7.30                     | 6.00                                 | 185.03                                     |
|         | 11/28/06    | 3766.03                                     | 58.96                                         | 66.12                                           | 3706.21                                      | 7.16                     | 0.00                                 | 185.03                                     |
|         | 12/06/06    | 3766.03                                     | 58.93                                         | 66.70                                           | 3706.17                                      | 7.77                     | 7.00                                 | 192.03                                     |
|         | 12/08/06    | 3766.03                                     | 58.06                                         | 66.02                                           | 3707.01                                      | 7.96                     | 7.50                                 | 199.53                                     |
|         | 12/12/06    | 3766.03                                     | 59.34                                         | 64.75                                           | 3706.04                                      | 5.41                     | 4.50                                 | 204.03                                     |
|         | 12/15/06    | 3766.03                                     | 59.48                                         | 62.95                                           | 3706.13                                      | 3.47                     | 3.00                                 | 207.03                                     |
|         | 12/20/06    | 3766.03                                     | NM                                            | NM                                              |                                              |                          | 0.00                                 | 207.03                                     |



**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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-1    | 12/22/06    | 3766.03                                  | 59.19                                   | 65.57                                     | 3706.07                                | 6.38               | 0.00                           | 207.03                            |
|         | 12/27/06    | 3766.03                                  | 59.04                                   | 66.32                                     | 3706.12                                | 7.28               | 0.00                           | 207.03                            |
|         | 01/03/07    | 3766.03                                  | 58.79                                   | 66.93                                     | 3706.26                                | 8.14               | 0.00                           | 207.03                            |
|         | 01/05/07    | 3766.03                                  | 58.96                                   | 66.98                                     | 3706.11                                | 8.02               | 0.00                           | 207.03                            |
|         | 01/12/07    | 3766.03                                  | 58.96                                   | 67.16                                     | 3706.09                                | 8.20               | 0.00                           | 215.03                            |
|         | 01/15/07    | 3766.03                                  | 59.76                                   | 63.69                                     | 3705.80                                | 3.93               | 0.00                           | 215.03                            |
|         | 01/18/07    | 3766.03                                  | 59.35                                   | 65.54                                     | 3705.94                                | 6.19               | 5.00                           | 220.03                            |
|         | 01/31/07    | 3766.03                                  | 59.10                                   | 66.88                                     | 3706.00                                | 7.78               | 0.00                           | 220.03                            |
|         | 02/07/07    | 3766.03                                  | 58.91                                   | 67.12                                     | 3706.13                                | 8.21               | 6.00                           | 226.03                            |
|         | 02/09/07    | 3766.03                                  | 59.84                                   | 63.81                                     | 3705.71                                | 3.97               | 2.00                           | 228.03                            |
|         | 02/13/07    | 3766.03                                  | 59.64                                   | 64.67                                     | 3705.79                                | 5.03               | 1.00                           | 229.03                            |
|         | 02/16/07    | 3766.03                                  | 59.86                                   | 63.61                                     | 3705.72                                | 3.75               | 3.00                           | 232.03                            |
|         | 02/19/07    | 3766.03                                  | 59.78                                   | 63.93                                     | 3705.75                                | 4.15               | 0.00                           | 232.03                            |
|         | 03/09/07    | 3766.03                                  | 66.68                                   | 73.94                                     | 3698.48                                | 7.26               | 0.00                           | 232.03                            |
|         | 03/13/04    | 3766.03                                  | 65.05                                   | 73.54                                     | 3699.96                                | 8.49               | 9.00                           | 241.03                            |
|         | 03/14/07    |                                          | Plugged Well                            |                                           |                                        |                    |                                |                                   |
| MW-2    | 10/29/04    | 3770.91                                  | 61.85                                   | NM                                        | NM                                     | NM                 | 3.00                           | 3.00                              |
|         | 11/04/04    | 3770.91                                  | 61.70                                   | 65.44                                     | 3708.76                                | 3.74               | 10.00                          | 13.00                             |
|         | 11/10/04    | 3770.91                                  | 61.48                                   | 67.15                                     | 3708.75                                | 5.67               | 7.00                           | 20.00                             |
|         | 11/17/04    | 3770.91                                  | 61.72                                   | 66.74                                     | 3708.59                                | 5.02               | 5.00                           | 25.00                             |
|         | 11/24/04    | 3770.91                                  | 61.81                                   | 67.10                                     | 3708.47                                | 5.29               | 5.00                           | 30.00                             |
|         | 12/02/04    | 3770.91                                  | 61.44                                   | 68.41                                     | 3708.63                                | 6.97               | 6.00                           | 36.00                             |
|         | 12/08/04    | 3770.91                                  | 61.38                                   | 68.39                                     | 3708.69                                | 7.01               | 5.00                           | 41.00                             |
|         | 12/15/04    | 3770.91                                  | 61.52                                   | 68.86                                     | 3708.51                                | 7.34               | 7.00                           | 48.00                             |
|         | 12/27/04    | 3770.91                                  | 61.65                                   | 69.09                                     | 3708.37                                | 7.44               | 6.00                           | 54.00                             |
|         | 12/29/04    | 3770.91                                  | 61.66                                   | 69.08                                     | 3708.36                                | 7.42               | 6.00                           | 60.00                             |
|         | 01/06/05    | 3770.91                                  | 61.72                                   | 69.18                                     | 3708.29                                | 7.46               | 7.00                           | 67.00                             |
|         | 01/13/05    | 3770.91                                  | 61.81                                   | 69.21                                     | 3708.21                                | 7.40               | 7.00                           | 74.00                             |
|         | 01/19/05    | 3770.91                                  | 61.85                                   | 69.25                                     | 3708.17                                | 7.40               | 7.00                           | 81.00                             |
|         | 01/26/05    | 3770.91                                  | 61.89                                   | 69.41                                     | 3708.12                                | 7.52               | 19.00                          | 100.00                            |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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-2    | 02/02/05    | 3770.91                                  | 61.93                                   | 69.45                                     | 3708.08                                | 7.52               | 7.00                           | 107.00                            |
|         | 02/09/05    | 3770.91                                  | 61.92                                   | 69.48                                     | 3708.08                                | 7.56               | 8.00                           | 115.00                            |
|         | 02/16/05    | 3770.91                                  | 61.96                                   | 69.57                                     | 3708.04                                | 7.61               | 7.00                           | 122.00                            |
|         | 02/24/05    | 3770.91                                  | 62.01                                   | 69.59                                     | 3707.99                                | 7.58               | 8.00                           | 130.00                            |
|         | 03/03/05    | 3770.91                                  | 62.00                                   | 69.65                                     | 3707.99                                | 7.65               | 9.00                           | 139.00                            |
|         | 03/11/05    | 3770.91                                  | 62.18                                   | 67.69                                     | 3708.07                                | 5.51               | 8.00                           | 147.00                            |
|         | 03/18/05    | 3770.91                                  | 62.04                                   | 69.69                                     | 3707.95                                | 7.65               | 8.00                           | 155.00                            |
|         | 04/01/05    | 3770.91                                  | 62.08                                   | 69.79                                     | 3707.90                                | 7.71               | 8.00                           | 163.00                            |
|         | 04/07/05    | 3770.91                                  | 62.08                                   | 69.74                                     | 3707.91                                | 7.66               | 8.00                           | 171.00                            |
|         | 05/18/05    | 3770.91                                  | 62.16                                   | 69.89                                     | 3707.82                                | 7.73               | 7.50                           | 178.50                            |
|         | 05/23/05    | 3770.91                                  | 62.19                                   | 69.90                                     | 3707.79                                | 7.71               | 12.00                          | 190.50                            |
|         | 05/28/05    | 3770.91                                  | 62.24                                   | 69.80                                     | 3707.76                                | 7.56               | 10.50                          | 201.00                            |
|         | 06/01/05    | 3770.91                                  | 62.21                                   | 69.91                                     | 3707.78                                | 7.70               | 7.50                           | 208.50                            |
|         | 06/03/05    | 3770.91                                  | 62.30                                   | 69.50                                     | 3707.75                                | 7.20               | 7.00                           | 215.50                            |
|         | 06/07/05    | 3770.91                                  | 62.24                                   | 69.91                                     | 3707.75                                | 7.67               | 8.00                           | 223.50                            |
|         | 06/10/05    | 3770.91                                  | 62.26                                   | 69.81                                     | 3707.74                                | 7.55               | 9.00                           | 232.50                            |
|         | 06/13/05    | 3770.91                                  | 62.26                                   | 69.90                                     | 3707.73                                | 7.64               | 8.00                           | 240.50                            |
|         | 06/16/05    | 3770.91                                  | 62.28                                   | 69.80                                     | 3707.73                                | 7.52               | 7.00                           | 247.50                            |
|         | 06/20/05    | 3770.91                                  | 62.29                                   | 69.95                                     | 3707.70                                | 7.66               | 6.00                           | 253.50                            |
|         | 06/22/05    | 3770.91                                  | 62.36                                   | 69.57                                     | 3707.68                                | 7.21               | 6.50                           | 260.00                            |
|         | 06/29/05    | 3770.91                                  | 62.28                                   | 69.96                                     | 3707.71                                | 7.68               | 7.00                           | 267.00                            |
|         | 07/01/05    | 3770.91                                  | 62.35                                   | 69.61                                     | 3707.69                                | 7.26               | 6.00                           | 273.00                            |
|         | 07/06/05    | 3770.91                                  | 62.31                                   | 69.99                                     | 3707.68                                | 7.68               | 8.00                           | 281.00                            |
|         | 07/08/05    | 3770.91                                  | 62.41                                   | 69.54                                     | 3707.64                                | 7.13               | 6.00                           | 287.00                            |
|         | 07/12/05    | 3770.91                                  | 62.33                                   | 70.23                                     | 3707.62                                | 7.96               | 6.00                           | 293.00                            |
|         | 07/14/05    | 3770.91                                  | 62.40                                   | 69.68                                     | 3707.64                                | 7.28               | 5.00                           | 298.00                            |
|         | 07/19/05    | 3770.91                                  | 62.35                                   | 70.04                                     | 3707.64                                | 7.69               | 6.00                           | 304.00                            |
|         | 07/21/05    | 3770.91                                  | 62.44                                   | 69.69                                     | 3707.60                                | 7.25               | 4.00                           | 308.00                            |
|         | 07/28/05    | 3770.91                                  | 62.38                                   | 70.02                                     | 3707.61                                | 7.64               | 5.00                           | 313.00                            |
|         | 07/28/05    | 3770.91                                  | 62.49                                   | 69.74                                     | 3707.55                                | 7.25               | 5.00                           | 318.00                            |

**TABLE 5**  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.

8" Moore to Jal #1  
NMOCD REF. # 1R-0380  
LEA COUNTY, NEW MEXICO - SRS# 2002-10270  
Talon/LPE Project Number PLAINS007SPL

| 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-2    | 08/02/05    | 3770.91                                  | 62.40                                   | 70.03                                     | 3707.59                                | 7.63               | 4.00                           | 322.00                            |
|         | 08/04/05    | 3770.91                                  | 62.47                                   | 69.76                                     | 3707.57                                | 7.29               | 6.00                           | 328.00                            |
|         | 08/09/05    | 3770.91                                  | 62.41                                   | 70.05                                     | 3707.58                                | 7.64               | 5.00                           | 333.00                            |
|         | 08/11/05    | 3770.91                                  | 62.48                                   | 69.82                                     | 3707.55                                | 7.34               | 6.00                           | 339.00                            |
|         | 08/16/05    | 3770.91                                  | 62.45                                   | 70.09                                     | 3707.54                                | 7.64               | 4.00                           | 343.00                            |
|         | 08/18/05    | 3770.91                                  | 62.50                                   | 69.85                                     | 3707.53                                | 7.35               | 5.00                           | 348.00                            |
|         | 08/24/05    | 3770.91                                  | 62.41                                   | 70.11                                     | 3707.58                                | 7.70               | 6.00                           | 354.00                            |
|         | 08/26/05    | 3770.91                                  | 62.51                                   | 69.89                                     | 3707.51                                | 7.38               | 6.00                           | 360.00                            |
|         | 08/30/05    | 3770.91                                  | 62.46                                   | 70.08                                     | 3707.54                                | 7.62               | 6.00                           | 366.00                            |
|         | 09/01/05    | 3770.91                                  | 62.52                                   | 69.83                                     | 3707.51                                | 7.31               | 5.00                           | 371.00                            |
|         | 09/06/05    | 3770.91                                  | 62.47                                   | 70.08                                     | 3707.53                                | 7.61               | 5.00                           | 376.00                            |
|         | 09/08/05    | 3770.91                                  | 62.51                                   | 69.81                                     | 3707.52                                | 7.30               | 6.00                           | 382.00                            |
|         | 09/13/05    | 3770.91                                  | 62.48                                   | 70.07                                     | 3707.52                                | 7.59               | 6.00                           | 388.00                            |
|         | 09/16/05    | 3770.91                                  | 62.51                                   | 70.04                                     | 3707.50                                | 7.53               | 6.00                           | 394.00                            |
|         | 09/20/05    | 3770.91                                  | 62.50                                   | 70.09                                     | 3707.50                                | 7.59               | 7.00                           | 401.00                            |
|         | 09/23/05    | 3770.91                                  | 62.53                                   | 70.03                                     | 3707.48                                | 7.50               | 6.00                           | 407.00                            |
|         | 09/27/05    | 3770.91                                  | 62.50                                   | 70.15                                     | 3707.49                                | 7.65               | 7.00                           | 414.00                            |
|         | 09/29/05    | 3770.91                                  | 62.56                                   | 69.94                                     | 3707.46                                | 7.38               | 7.00                           | 421.00                            |
|         | 10/04/05    | 3770.91                                  | 62.52                                   | 70.12                                     | 3707.48                                | 7.60               | 7.00                           | 428.00                            |
|         | 10/06/05    | 3770.91                                  | 62.61                                   | 69.98                                     | 3707.42                                | 7.37               | 7.00                           | 435.00                            |
|         | 10/11/05    | 3770.91                                  | 62.53                                   | 70.14                                     | 3707.47                                | 7.61               | 6.00                           | 441.00                            |
|         | 10/13/05    | 3770.91                                  | 62.55                                   | 70.08                                     | 3707.46                                | 7.53               | 6.00                           | 447.00                            |
|         | 10/18/05    | 3770.91                                  | 62.56                                   | 70.18                                     | 3707.44                                | 7.62               | 6.00                           | 453.00                            |
|         | 10/21/05    | 3770.91                                  | 62.58                                   | 70.17                                     | 3707.42                                | 7.59               | 7.00                           | 460.00                            |
|         | 10/26/05    | 3770.91                                  | 62.57                                   | 70.20                                     | 3707.42                                | 7.63               | 8.00                           | 468.00                            |
|         | 10/28/05    | 3770.91                                  | 62.61                                   | 70.07                                     | 3707.40                                | 7.46               | 6.00                           | 474.00                            |
|         | 11/01/05    | 3770.91                                  | 62.59                                   | 70.21                                     | 3707.41                                | 7.62               | 5.00                           | 479.00                            |
|         | 11/04/05    | 3770.91                                  | 62.60                                   | 70.20                                     | 3707.40                                | 7.60               | 9.00                           | 488.00                            |
|         | 11/09/05    | 3770.91                                  | 62.64                                   | 70.28                                     | 3707.35                                | 7.64               | 6.00                           | 494.00                            |
|         | 11/11/05    | 3770.91                                  | 62.64                                   | 70.29                                     | 3707.35                                | 7.65               | 6.00                           | 500.00                            |



TABLE 5  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" Moore to Jal #1  
NMOCD REF. # 1R-0380  
LEA COUNTY, NEW MEXICO - SRS# 2002-10270  
Talon/LPE Project Number PLAINS007SPL

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-2    | 11/16/05    | 3770.91                                     | 62.63                                         | 70.27                                           | 3707.36                                      | 7.64                     | 7.00                                 | 507.00                                     |
|         | 11/19/05    | 3770.91                                     | 62.68                                         | 70.17                                           | 3707.33                                      | 7.49                     | 7.00                                 | 514.00                                     |
|         | 11/22/05    | 3770.91                                     | 62.65                                         | 70.29                                           | 3707.34                                      | 7.64                     | 6.00                                 | 520.00                                     |
|         | 11/30/05    | 3770.91                                     | 62.66                                         | 70.33                                           | 3707.33                                      | 7.67                     | 7.00                                 | 527.00                                     |
|         | 12/02/05    | 3770.91                                     | 62.71                                         | 70.22                                           | 3707.30                                      | 7.51                     | 7.00                                 | 534.00                                     |
|         | 12/06/05    | 3770.91                                     | 62.70                                         | 70.36                                           | 3707.29                                      | 7.66                     | 8.00                                 | 542.00                                     |
|         | 12/14/05    | 3770.91                                     | 62.72                                         | 70.39                                           | 3707.27                                      | 7.67                     | 7.00                                 | 549.00                                     |
|         | 12/16/05    | 3770.91                                     | 62.73                                         | 70.38                                           | 3707.26                                      | 7.65                     | 6.00                                 | 555.00                                     |
|         | 12/21/05    | 3770.91                                     | 62.75                                         | 70.25                                           | 3707.26                                      | 7.50                     | 6.00                                 | 561.00                                     |
|         | 12/23/05    | 3770.91                                     | 62.78                                         | 70.23                                           | 3707.24                                      | 7.45                     | 6.00                                 | 567.00                                     |
|         | 12/27/05    | 3770.91                                     | 62.75                                         | 70.39                                           | 3707.24                                      | 7.64                     | 6.00                                 | 573.00                                     |
|         | 12/30/05    | 3770.91                                     | 62.78                                         | 70.39                                           | 3707.22                                      | 7.61                     | 6.00                                 | 579.00                                     |
|         | 01/03/06    | 3770.91                                     | 62.76                                         | 70.39                                           | 3707.23                                      | 7.63                     | 6.00                                 | 585.00                                     |
|         | 01/05/06    | 3770.91                                     | 62.80                                         | 70.34                                           | 3707.21                                      | 7.54                     | 5.00                                 | 590.00                                     |
|         | 01/11/06    | 3770.91                                     | 62.81                                         | 70.44                                           | 3707.18                                      | 7.63                     | 6.00                                 | 596.00                                     |
|         | 01/13/06    | 3770.91                                     | 62.83                                         | 70.37                                           | 3707.18                                      | 7.54                     | 6.00                                 | 602.00                                     |
|         | 01/18/06    | 3770.91                                     | 62.80                                         | 70.43                                           | 3707.19                                      | 7.63                     | 5.00                                 | 607.00                                     |
|         | 01/20/06    | 3770.91                                     | 62.85                                         | 70.36                                           | 3707.16                                      | 7.51                     | 7.00                                 | 614.00                                     |
|         | 01/24/06    | 3770.91                                     | 62.85                                         | 72.50                                           | 3706.90                                      | 9.65                     | 6.00                                 | 620.00                                     |
|         | 01/26/06    | 3770.91                                     | 62.80                                         | 72.43                                           | 3706.95                                      | 9.63                     | 6.00                                 | 626.00                                     |
|         | 02/02/06    | 3770.91                                     | 62.82                                         | 70.51                                           | 3707.17                                      | 7.69                     | 0.00                                 | 626.00                                     |
|         | 02/08/06    | 3770.91                                     | 62.85                                         | 70.50                                           | 3707.14                                      | 7.65                     | 6.00                                 | 632.00                                     |
|         | 02/10/06    | 3770.91                                     | 62.81                                         | 70.48                                           | 3707.18                                      | 7.67                     | 6.00                                 | 638.00                                     |
|         | 02/14/06    | 3770.91                                     | 62.87                                         | 70.55                                           | 3707.12                                      | 7.68                     | 8.00                                 | 646.00                                     |
|         | 02/16/06    | 3770.91                                     | 62.91                                         | 70.46                                           | 3707.09                                      | 7.55                     | 9.00                                 | 655.00                                     |
|         | 02/21/06    | 3770.91                                     | 62.95                                         | 70.51                                           | 3707.05                                      | 7.56                     | 9.00                                 | 664.00                                     |
|         | 02/24/06    | 3770.91                                     | 62.92                                         | 70.54                                           | 3707.08                                      | 7.62                     | 8.50                                 | 672.50                                     |
|         | 02/28/06    | 3770.91                                     | 62.90                                         | 72.50                                           | 3706.86                                      | 9.60                     | 0.00                                 | 672.50                                     |
|         | 03/03/06    | 3770.91                                     | 62.92                                         | 69.60                                           | 3707.19                                      | 6.68                     | 0.00                                 | 672.50                                     |
|         | 03/06/06    | 3770.91                                     | 62.93                                         | 70.57                                           | 3707.06                                      | 7.64                     | 6.00                                 | 678.50                                     |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-2    | 03/08/06    | 3770.91                                     | 62.95                                         | 69.52                                           | 3707.17                                      | 6.57                     | 5.00                                 | 683.50                                     |
|         | 03/15/06    | 3770.91                                     | 62.97                                         | 70.63                                           | 3707.02                                      | 7.66                     | 5.00                                 | 688.50                                     |
|         | 03/17/06    | 3770.91                                     | 63.00                                         | 70.54                                           | 3707.01                                      | 7.54                     | 5.00                                 | 693.50                                     |
|         | 03/21/06    | 3770.91                                     | 62.90                                         | 70.60                                           | 3707.09                                      | 7.70                     | 6.50                                 | 700.00                                     |
|         | 03/23/06    | 3770.91                                     | 62.90                                         | 70.40                                           | 3707.11                                      | 7.50                     | 4.50                                 | 704.50                                     |
|         | 03/28/06    | 3770.91                                     | 63.30                                         | 70.80                                           | 3706.73                                      | 7.30                     | 4.00                                 | 708.50                                     |
|         | 03/30/06    | 3770.91                                     | 63.03                                         | 70.60                                           | 3706.97                                      | 7.57                     | 4.50                                 | 713.00                                     |
|         | 04/04/06    | 3770.91                                     | 63.01                                         | 70.65                                           | 3706.98                                      | 7.64                     | 5.00                                 | 718.00                                     |
|         | 04/07/06    | 3770.91                                     | 63.05                                         | 70.65                                           | 3706.95                                      | 7.60                     | 5.00                                 | 723.00                                     |
|         | 04/12/06    | 3770.91                                     | 63.02                                         | 70.29                                           | 3707.02                                      | 7.27                     | 5.50                                 | 728.50                                     |
|         | 04/14/06    | 3770.91                                     | 63.06                                         | 70.60                                           | 3706.95                                      | 7.54                     | 5.00                                 | 733.50                                     |
|         | 04/18/06    | 3770.91                                     | 63.01                                         | 70.61                                           | 3706.99                                      | 7.60                     | 5.50                                 | 739.00                                     |
|         | 04/21/06    | 3770.91                                     | 63.08                                         | 70.66                                           | 3706.92                                      | 7.58                     | 5.50                                 | 744.50                                     |
|         | 04/26/06    | 3770.91                                     | 63.03                                         | 70.62                                           | 3706.97                                      | 7.59                     | 7.00                                 | 751.50                                     |
|         | 04/28/06    | 3770.91                                     | 63.07                                         | 70.60                                           | 3706.94                                      | 7.53                     | 7.00                                 | 758.50                                     |
|         | 05/04/06    | 3770.91                                     | 63.08                                         | 70.68                                           | 3706.92                                      | 7.60                     | 6.25                                 | 764.75                                     |
|         | 05/05/06    | 3770.91                                     | 63.10                                         | 70.69                                           | 3706.90                                      | 7.59                     | 6.50                                 | 771.25                                     |
|         | 05/10/06    | 3770.91                                     | 63.13                                         | 70.74                                           | 3706.87                                      | 7.61                     | 6.50                                 | 777.75                                     |
|         | 05/12/06    | 3770.91                                     | 63.13                                         | 70.67                                           | 3706.88                                      | 7.54                     | 7.50                                 | 785.25                                     |
|         | 05/16/06    | 3770.91                                     | 63.46                                         | 70.71                                           | 3706.58                                      | 7.25                     | 6.00                                 | 791.25                                     |
|         | 05/18/06    | 3770.91                                     | 63.14                                         | 70.69                                           | 3706.86                                      | 7.55                     | 6.50                                 | 797.75                                     |
|         | 05/23/06    | 3770.91                                     | 63.14                                         | 70.73                                           | 3706.86                                      | 7.59                     | 5.75                                 | 803.50                                     |
|         | 05/28/06    | 3770.91                                     | 63.15                                         | 70.73                                           | 3706.85                                      | 7.58                     | 5.50                                 | 809.00                                     |
|         | 05/30/06    | 3770.91                                     | 63.16                                         | 70.37                                           | 3706.88                                      | 7.21                     | 6.50                                 | 815.50                                     |
|         | 06/01/06    | 3770.91                                     | 63.18                                         | 70.74                                           | 3706.82                                      | 7.56                     | 6.25                                 | 821.75                                     |
|         | 06/06/06    | 3770.91                                     | 63.17                                         | 70.28                                           | 3706.89                                      | 7.11                     | 0.00                                 | 821.75                                     |
|         | 06/09/06    | 3770.91                                     | 63.16                                         | 70.77                                           | 3706.84                                      | 7.61                     | 6.75                                 | 828.50                                     |
|         | 06/13/06    | 3770.91                                     | 63.19                                         | 70.80                                           | 3706.81                                      | 7.61                     | 7.20                                 | 835.70                                     |
|         | 06/16/06    | 3770.91                                     | 63.20                                         | 70.77                                           | 3706.80                                      | 7.57                     | 6.25                                 | 841.95                                     |
|         | 06/20/06    | 3770.91                                     | 63.20                                         | 70.77                                           | 3706.80                                      | 7.57                     | 8.00                                 | 849.95                                     |



TABLE 5  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" Moore to Jal #1  
NMOCD REF. # 1R-0380  
LEA COUNTY, NEW MEXICO - SRS# 2002-10270  
Talon/LPE Project Number PLAINS007SPL

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-2    | 06/23/06    | 3770.91                                     | 63.19                                         | 70.79                                           | 3706.81                                      | 7.80                     | 5.00                                 | 854.95                                     |
|         | 06/27/06    | 3770.91                                     | 63.22                                         | 70.81                                           | 3706.78                                      | 7.59                     | 6.00                                 | 860.95                                     |
|         | 06/30/06    | 3770.91                                     | 63.21                                         | 70.78                                           | 3706.79                                      | 7.57                     | 6.00                                 | 866.95                                     |
|         | 07/05/06    | 3770.91                                     | 63.22                                         | 70.80                                           | 3706.78                                      | 7.58                     | 6.00                                 | 872.95                                     |
|         | 07/07/06    | 3770.91                                     | 63.26                                         | 70.77                                           | 3706.75                                      | 7.51                     | 7.50                                 | 880.45                                     |
|         | 07/11/06    | 3770.91                                     | 63.25                                         | 70.81                                           | 3706.75                                      | 7.56                     | 6.50                                 | 886.95                                     |
|         | 07/13/06    | 3770.91                                     | 63.27                                         | 70.75                                           | 3706.74                                      | 7.48                     | 6.00                                 | 892.95                                     |
|         | 07/18/06    | 3770.91                                     | 63.28                                         | 70.84                                           | 3706.72                                      | 7.56                     | 5.00                                 | 897.95                                     |
|         | 07/21/06    | 3770.91                                     | 63.28                                         | 70.80                                           | 3706.73                                      | 7.52                     | 6.00                                 | 903.95                                     |
|         | 07/25/06    | 3770.91                                     | 63.30                                         | 70.84                                           | 3706.71                                      | 7.54                     | 6.50                                 | 910.45                                     |
|         | 07/27/06    | 3770.91                                     | 63.30                                         | 70.84                                           | 3706.71                                      | 7.54                     | 6.50                                 | 916.95                                     |
|         | 08/01/06    | 3770.91                                     | 63.33                                         | 70.87                                           | 3706.68                                      | 7.54                     | 8.25                                 | 923.20                                     |
|         | 08/03/06    | 3770.91                                     | 63.34                                         | 70.84                                           | 3706.67                                      | 7.50                     | 4.00                                 | 927.20                                     |
|         | 08/09/06    | 3770.91                                     | 63.35                                         | 70.89                                           | 3706.66                                      | 7.54                     | 5.00                                 | 932.20                                     |
|         | 08/11/06    | 3770.91                                     | 63.35                                         | 70.83                                           | 3706.66                                      | 7.48                     | 6.50                                 | 938.70                                     |
|         | 08/15/06    | 3770.91                                     | 63.38                                         | 70.91                                           | 3706.63                                      | 7.53                     | 6.00                                 | 944.70                                     |
|         | 08/18/06    | 3770.91                                     | 63.38                                         | 70.90                                           | 3706.63                                      | 7.52                     | 5.00                                 | 949.70                                     |
|         | 08/25/06    | 3770.91                                     | 63.40                                         | 70.95                                           | 3706.60                                      | 7.55                     | 6.50                                 | 956.20                                     |
|         | 08/30/06    | 3770.91                                     | 62.44                                         | 71.40                                           | 3707.39                                      | 8.96                     | 3.50                                 | 959.70                                     |
|         | 09/12/06    | 3770.91                                     | NM                                            | NM                                              |                                              |                          | 0.00                                 | 959.70                                     |
|         | 09/15/06    | 3770.91                                     | 63.40                                         | 70.98                                           | 3706.60                                      | 7.58                     | 2.00                                 | 961.70                                     |
|         | 09/20/06    | 3770.91                                     | 63.43                                         | 71.01                                           | 3706.57                                      | 7.58                     | 6.00                                 | 967.70                                     |
|         | 09/29/06    | 3770.91                                     | 63.45                                         | 71.00                                           | 3706.55                                      | 7.55                     | 0.00                                 | 967.70                                     |
|         | 10/04/06    | 3770.91                                     | 63.46                                         | 71.02                                           | 3706.54                                      | 7.56                     | 6.50                                 | 974.20                                     |
|         | 10/06/06    | 3770.91                                     | 63.49                                         | 71.97                                           | 3706.40                                      | 8.48                     | 7.00                                 | 981.20                                     |
|         | 10/12/06    | 3770.91                                     | 63.49                                         | 71.05                                           | 3706.51                                      | 7.56                     | 5.50                                 | 986.70                                     |
|         | 10/17/06    | 3770.91                                     | 63.52                                         | 71.07                                           | 3706.48                                      | 7.55                     | 5.50                                 | 992.20                                     |
|         | 10/20/06    | 3770.91                                     | 63.51                                         | 71.07                                           | 3706.49                                      | 7.56                     | 0.00                                 | 992.20                                     |
|         | 10/24/06    | 3770.91                                     | 63.48                                         | 71.07                                           | 3706.52                                      | 7.59                     | 0.00                                 | 992.20                                     |
|         | 10/26/06    | 3770.91                                     | 63.59                                         | 71.07                                           | 3706.42                                      | 7.48                     | 0.00                                 | 992.20                                     |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**

**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-2    | 11/22/06    | 3770.91                                     | 63.60                                         | 71.19                                           | 3706.40                                      | 7.59                     | 6.00                                 | 988.20                                     |
|         | 11/28/06    | 3770.91                                     | 63.62                                         | 71.20                                           | 3706.38                                      | 7.58                     | 0.00                                 | 988.20                                     |
|         | 12/06/06    | 3770.91                                     | 63.71                                         | 71.28                                           | 3706.29                                      | 7.57                     | 6.00                                 | 1004.20                                    |
|         | 12/08/06    | 3770.91                                     | 63.48                                         | 71.05                                           | 3706.52                                      | 7.57                     | 6.50                                 | 1010.70                                    |
|         | 12/12/06    | 3770.91                                     | 63.68                                         | 71.26                                           | 3706.32                                      | 7.58                     | 6.00                                 | 1016.70                                    |
|         | 12/15/06    | 3770.91                                     | 63.62                                         | 71.07                                           | 3706.40                                      | 7.45                     | 6.50                                 | 1023.20                                    |
|         | 12/20/06    | 3770.91                                     | NM                                            | NM                                              |                                              |                          | 0.00                                 | 1023.20                                    |
|         | 12/22/06    | 3770.91                                     | 63.72                                         | 71.25                                           | 3706.29                                      | 7.53                     | 0.00                                 | 1023.20                                    |
|         | 12/27/06    | 3770.91                                     | 63.78                                         | 71.29                                           | 3706.23                                      | 7.51                     | 0.00                                 | 1023.20                                    |
|         | 01/03/07    | 3770.91                                     | 63.78                                         | 71.38                                           | 3706.22                                      | 7.60                     | 0.00                                 | 1023.20                                    |
|         | 01/05/07    | 3770.91                                     | 63.82                                         | 71.36                                           | 3706.19                                      | 7.54                     | 0.00                                 | 1023.20                                    |
|         | 01/12/07    | 3770.91                                     | 63.82                                         | 71.42                                           | 3706.18                                      | 7.60                     | 7.00                                 | 1030.20                                    |
|         | 01/15/07    | 3770.91                                     | 63.88                                         | 71.40                                           | 3706.13                                      | 7.52                     | 0.00                                 | 1030.20                                    |
|         | 01/18/07    | 3770.91                                     | 63.86                                         | 71.43                                           | 3706.14                                      | 7.57                     | 7.00                                 | 1037.20                                    |
|         | 01/31/07    | 3770.91                                     | 63.88                                         | 71.46                                           | 3706.12                                      | 7.58                     | 0.00                                 | 1037.20                                    |
|         | 02/07/07    | 3770.91                                     | 63.75                                         | 71.50                                           | 3706.23                                      | 7.75                     | 5.50                                 | 1042.70                                    |
|         | 02/09/07    | 3770.91                                     | 63.90                                         | 71.48                                           | 3706.10                                      | 7.58                     | 0.00                                 | 1042.70                                    |
|         | 02/13/07    | 3770.91                                     | 63.89                                         | 76.48                                           | 3705.51                                      | 12.59                    | 0.00                                 | 1042.70                                    |
|         | 02/16/07    | 3770.91                                     | 63.89                                         | 74.46                                           | 3705.75                                      | 10.57                    | 0.00                                 | 1042.70                                    |
|         | 02/19/07    | 3770.91                                     | 63.87                                         | 71.48                                           | 3706.13                                      | 7.61                     | 0.00                                 | 1042.70                                    |
|         | 02/21/07    | 3770.91                                     | 63.90                                         | 71.49                                           | 3706.10                                      | 7.59                     | 0.00                                 | 1042.70                                    |
|         | 02/26/07    | 3770.91                                     | 63.95                                         | 71.53                                           | 3706.05                                      | 7.58                     | 0.00                                 | 1042.70                                    |
|         | 03/01/07    | 3770.91                                     | 63.96                                         | 71.55                                           | 3706.04                                      | 7.59                     | 0.00                                 | 1042.70                                    |
|         | 03/06/07    | 3770.91                                     | 63.90                                         | 71.49                                           | 3706.10                                      | 7.59                     | 0.00                                 | 1042.70                                    |
|         | 03/09/07    | 3770.91                                     | 63.91                                         | 71.65                                           | 3706.07                                      | 7.74                     | 0.00                                 | 1042.70                                    |
|         | 03/13/07    | 3770.91                                     | 63.95                                         | 71.53                                           | 3706.05                                      | 7.58                     | 7.00                                 | 1049.70                                    |
|         | 03/23/07    | 3770.91                                     | 63.97                                         | 71.53                                           | 3706.03                                      | 7.56                     | 0.00                                 | 1049.70                                    |
|         | 03/27/07    | 3768.35                                     | 63.86                                         | 71.54                                           | 3703.57                                      | 7.68                     | 0.00                                 | 1049.70                                    |
|         | 04/06/07    | 3768.35                                     | 64.03                                         | 71.59                                           | 3703.41                                      | 7.56                     | 0.00                                 | 1049.70                                    |
|         | 04/11/07    | 3768.35                                     | 64.03                                         | 71.57                                           | 3703.42                                      | 7.54                     | 0.00                                 | 1049.70                                    |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**

8" Moore to Jal #1  
NIMOD REF. # 1R-0380  
LEA COUNTY, NEW MEXICO - SRS# 2002-10270  
Talon/LPE Project Number PLAINS007SPL

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-2    | 04/17/07    | 3768.35                                     | 64.03                                         | 71.50                                           | 3703.42                                      | 7.47                     | 4.00                                 | 1053.70                                    |
|         | 04/19/07    | 3768.35                                     | 64.04                                         | 71.50                                           | 3703.41                                      | 7.46                     | 6.00                                 | 1059.70                                    |
|         | 04/24/07    | 3768.35                                     | 64.05                                         | 71.61                                           | 3703.39                                      | 7.56                     | 5.00                                 | 1064.70                                    |
|         | 05/01/07    | 3768.35                                     | 64.05                                         | 71.67                                           | 3703.39                                      | 7.62                     | 0.00                                 | 1064.70                                    |
|         | 05/21/07    | 3768.35                                     | 64.11                                         | 71.67                                           | 3703.33                                      | 7.56                     | 0.00                                 | 1064.70                                    |
|         | 05/24/07    | 3768.35                                     | 64.15                                         | 73.84                                           | 3703.04                                      | 9.69                     | 8.00                                 | 1072.70                                    |
|         | 08/28/07    | 3768.35                                     | 64.28                                         | 71.82                                           | 3703.17                                      | 7.54                     | 0.00                                 | 1072.70                                    |
|         | 08/07/07    | 3768.35                                     | 64.21                                         | 71.26                                           | 3703.29                                      | 7.05                     | 7.00                                 | 1079.70                                    |
|         | 08/17/07    | 3768.35                                     | 65.34                                         | 73.88                                           | 3701.99                                      | 8.54                     | 8.00                                 | 1087.70                                    |
|         | 08/23/07    | 3768.35                                     | 64.27                                         | 71.75                                           | 3703.18                                      | 7.48                     | 5.00                                 | 1092.70                                    |
|         | 08/31/07    | 3768.35                                     | 64.28                                         | 71.76                                           | 3703.17                                      | 7.48                     | 7.00                                 | 1099.70                                    |
|         | 09/21/07    | 3768.35                                     | 64.37                                         | 71.84                                           | 3703.08                                      | 7.47                     | 7.50                                 | 1107.20                                    |
|         | 09/28/07    | 3768.35                                     | 64.36                                         | 71.84                                           | 3703.09                                      | 7.48                     | 8.50                                 | 1115.70                                    |
|         | 10/11/07    | 3768.35                                     | 64.42                                         | 71.87                                           | 3703.04                                      | 7.45                     | 7.00                                 | 1122.70                                    |
|         | 10/18/07    | 3768.35                                     | 64.44                                         | 71.89                                           | 3703.02                                      | 7.45                     | 7.00                                 | 1129.70                                    |
|         | 11/13/07    | 3768.35                                     | 65.40                                         | 71.98                                           | 3702.16                                      | 6.58                     | 0.00                                 | 1129.70                                    |
|         | 11/27/07    | 3768.35                                     | 64.57                                         | 72.05                                           | 3702.88                                      | 7.48                     | 0.00                                 | 1129.70                                    |
|         | 12/13/07    | 3768.35                                     | 64.65                                         | 72.12                                           | 3702.80                                      | 7.47                     | 7.00                                 | 1136.70                                    |
|         | 12/17/07    | 3768.35                                     | 64.67                                         | 72.12                                           | 3702.79                                      | 7.45                     | 0.00                                 | 1136.70                                    |
|         | 12/31/07    | 3768.35                                     | 64.42                                         | 72.18                                           | 3703.00                                      | 7.76                     | 7.00                                 | 1143.70                                    |
|         | 01/16/08    | 3768.35                                     | 64.47                                         | 72.21                                           | 3702.95                                      | 7.74                     | 7.50                                 | 1151.20                                    |
| MW-3    | 03/05/08    | 3768.35                                     | 64.92                                         | 72.36                                           | 3702.54                                      | 7.44                     | 0.00                                 | 1151.20                                    |
|         | 03/26/08    | 3768.35                                     | 64.99                                         | 72.40                                           | 3702.47                                      | 7.41                     | 0.00                                 | 1151.20                                    |
|         | 04/02/08    | 3768.35                                     | 65.04                                         | 72.47                                           | 3702.42                                      | 7.43                     | 0.00                                 | 1151.20                                    |
|         | 04/04/08    | 3768.35                                     | 65.03                                         | 72.48                                           | 3702.43                                      | 7.45                     | 7.00                                 | 1158.20                                    |
|         | 10/29/04    | 3769.96                                     | 62.90                                         | 72.15                                           | 3705.95                                      | 9.25                     | 7.00                                 | 7.00                                       |
|         | 11/04/04    | 3769.96                                     | 60.05                                         | 70.21                                           | 3708.89                                      | 10.16                    | 21.00                                | 28.00                                      |
|         | 11/10/04    | 3769.96                                     | 60.19                                         | 70.25                                           | 3708.56                                      | 10.06                    | 9.00                                 | 37.00                                      |
|         | 11/17/04    | 3769.96                                     | 60.34                                         | 70.26                                           | 3708.43                                      | 9.92                     | 8.00                                 | 45.00                                      |
|         | 11/24/04    | 3769.96                                     | 60.50                                         | 70.26                                           | 3708.29                                      | 9.76                     | 8.00                                 | 53.00                                      |
|         | 12/02/04    | 3769.96                                     | 60.52                                         | 70.10                                           | 3708.29                                      | 9.58                     | 8.00                                 | 61.00                                      |
|         | 12/08/04    | 3769.96                                     | 60.48                                         | 70.02                                           | 3708.34                                      | 9.54                     | 7.00                                 | 68.00                                      |
|         | 12/15/04    | 3769.96                                     | 60.68                                         | 70.22                                           | 3708.14                                      | 9.54                     | 8.00                                 | 76.00                                      |
|         | 12/27/04    | 3769.96                                     | 60.81                                         | 70.39                                           | 3708.00                                      | 9.58                     | 8.00                                 | 84.00                                      |



**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-3    | 12/29/04    | 3769.96                                     | 60.78                                         | 70.39                                           | 3708.03                                      | 9.61                     | 8.00                                 | 92.00                                      |
|         | 01/06/05    | 3769.96                                     | 60.91                                         | 70.40                                           | 3707.91                                      | 9.49                     | 8.00                                 | 101.00                                     |
|         | 01/13/05    | 3769.96                                     | 61.04                                         | 70.46                                           | 3707.79                                      | 9.42                     | 9.00                                 | 110.00                                     |
|         | 01/19/05    | 3769.96                                     | 61.04                                         | 70.46                                           | 3707.79                                      | 9.42                     | 9.00                                 | 119.00                                     |
|         | 01/26/05    | 3769.96                                     | 61.11                                         | 70.56                                           | 3707.72                                      | 9.45                     | 9.00                                 | 128.00                                     |
|         | 02/02/05    | 3769.96                                     | 61.17                                         | 70.58                                           | 3707.66                                      | 9.41                     | 7.00                                 | 135.00                                     |
|         | 02/09/05    | 3769.96                                     | 61.28                                         | 70.55                                           | 3707.57                                      | 9.27                     | 8.00                                 | 143.00                                     |
|         | 02/16/05    | 3769.96                                     | 61.19                                         | 70.54                                           | 3707.65                                      | 9.35                     | 8.00                                 | 151.00                                     |
|         | 02/24/05    | 3769.96                                     | 61.21                                         | 70.55                                           | 3707.63                                      | 9.34                     | 8.00                                 | 159.00                                     |
|         | 03/03/05    | 3769.96                                     | 61.21                                         | 70.57                                           | 3707.63                                      | 9.36                     | 8.00                                 | 167.00                                     |
|         | 03/11/05    | 3769.96                                     | 61.19                                         | 70.45                                           | 3707.66                                      | 9.26                     | 10.00                                | 177.00                                     |
|         | 03/18/05    | 3769.96                                     | 61.31                                         | 70.55                                           | 3707.54                                      | 9.24                     | 8.00                                 | 185.00                                     |
|         | 04/01/05    | 3769.96                                     | 61.38                                         | 70.58                                           | 3707.48                                      | 9.20                     | 8.00                                 | 193.00                                     |
|         | 04/07/05    | 3769.96                                     | 61.35                                         | 70.54                                           | 3707.51                                      | 9.19                     | 8.00                                 | 201.00                                     |
|         | 05/18/05    | 3769.96                                     | 61.45                                         | 70.60                                           | 3707.41                                      | 9.15                     | 8.50                                 | 209.50                                     |
|         | 05/23/05    | 3769.96                                     | 61.49                                         | 70.60                                           | 3707.38                                      | 9.11                     | 9.00                                 | 218.50                                     |
|         | 05/26/05    | 3769.96                                     | 61.53                                         | 70.64                                           | 3707.34                                      | 9.11                     | 8.00                                 | 226.50                                     |
|         | 06/01/05    | 3769.96                                     | 61.51                                         | 70.90                                           | 3707.32                                      | 9.39                     | 9.00                                 | 235.50                                     |
|         | 06/03/05    | 3769.96                                     | 61.51                                         | 70.59                                           | 3707.36                                      | 9.08                     | 8.00                                 | 243.50                                     |
|         | 06/07/05    | 3769.96                                     | 61.55                                         | 70.65                                           | 3707.32                                      | 9.10                     | 8.00                                 | 251.50                                     |
|         | 06/10/05    | 3769.96                                     | 61.54                                         | 70.61                                           | 3707.33                                      | 9.07                     | 8.00                                 | 259.50                                     |
|         | 06/13/05    | 3769.96                                     | 61.55                                         | 70.63                                           | 3707.32                                      | 9.08                     | 9.50                                 | 269.00                                     |
|         | 06/16/05    | 3769.96                                     | 61.56                                         | 70.60                                           | 3707.32                                      | 9.04                     | 8.50                                 | 277.50                                     |
|         | 06/20/05    | 3769.96                                     | 61.58                                         | 70.66                                           | 3707.29                                      | 9.08                     | 9.00                                 | 286.50                                     |
|         | 06/22/05    | 3769.96                                     | 61.60                                         | 70.75                                           | 3707.26                                      | 9.15                     | 8.00                                 | 294.50                                     |
|         | 06/29/05    | 3769.96                                     | 61.59                                         | 70.69                                           | 3707.28                                      | 9.10                     | 10.00                                | 304.50                                     |
|         | 07/01/05    | 3769.96                                     | 61.62                                         | 70.74                                           | 3707.25                                      | 9.12                     | 10.00                                | 314.50                                     |
|         | 07/06/05    | 3769.96                                     | 61.65                                         | 70.66                                           | 3707.23                                      | 9.01                     | 10.00                                | 324.50                                     |
|         | 07/08/05    | 3769.96                                     | 61.63                                         | 70.64                                           | 3707.25                                      | 9.01                     | 8.00                                 | 332.50                                     |
|         | 07/12/05    | 3769.96                                     | 61.65                                         | 70.85                                           | 3707.21                                      | 9.20                     | 9.00                                 | 341.50                                     |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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    | 07/14/05    | 3769.96                                  | 61.64                                   | 70.67                                     | 3707.24                                | 9.03               | 9.00                           | 350.50                            |
|         | 07/19/05    | 3769.96                                  | 61.65                                   | 70.71                                     | 3707.22                                | 9.06               | 9.00                           | 359.50                            |
|         | 07/21/05    | 3769.96                                  | 61.68                                   | 70.74                                     | 3707.19                                | 9.06               | 9.00                           | 368.50                            |
|         | 07/26/05    | 3769.96                                  | 61.69                                   | 70.73                                     | 3707.19                                | 9.04               | 9.00                           | 377.50                            |
|         | 07/28/05    | 3769.96                                  | 61.70                                   | 70.71                                     | 3707.18                                | 9.01               | 10.00                          | 387.50                            |
|         | 08/02/05    | 3769.96                                  | 60.70                                   | 70.75                                     | 3708.05                                | 10.05              | 9.00                           | 396.50                            |
|         | 08/04/05    | 3769.96                                  | 61.72                                   | 70.73                                     | 3707.16                                | 9.01               | 9.00                           | 405.50                            |
|         | 08/09/05    | 3769.96                                  | 61.72                                   | 70.77                                     | 3707.15                                | 9.05               | 9.00                           | 414.50                            |
|         | 08/11/05    | 3769.96                                  | 61.73                                   | 70.75                                     | 3707.15                                | 9.02               | 9.00                           | 423.50                            |
|         | 08/16/05    | 3769.96                                  | 61.75                                   | 70.79                                     | 3707.13                                | 9.04               | 9.00                           | 432.50                            |
|         | 08/18/05    | 3769.96                                  | 61.74                                   | 70.76                                     | 3707.14                                | 9.02               | 9.00                           | 441.50                            |
|         | 08/24/05    | 3769.96                                  | 61.76                                   | 70.86                                     | 3707.11                                | 9.10               | 9.00                           | 450.50                            |
|         | 08/26/05    | 3769.96                                  | 61.68                                   | 70.79                                     | 3707.19                                | 9.11               | 10.00                          | 460.50                            |
|         | 08/30/05    | 3769.96                                  | 61.74                                   | 70.77                                     | 3707.14                                | 9.03               | 8.00                           | 468.50                            |
|         | 09/01/05    | 3769.96                                  | 61.66                                   | 70.76                                     | 3707.21                                | 9.10               | 9.00                           | 477.50                            |
|         | 09/06/05    | 3769.96                                  | 61.75                                   | 70.81                                     | 3707.12                                | 9.06               | 9.00                           | 486.50                            |
|         | 09/08/05    | 3769.96                                  | 61.76                                   | 70.79                                     | 3707.12                                | 9.03               | 9.00                           | 495.50                            |
|         | 09/13/05    | 3769.96                                  | 61.76                                   | 70.83                                     | 3707.11                                | 9.07               | 9.00                           | 504.50                            |
|         | 09/16/05    | 3769.96                                  | 61.79                                   | 70.85                                     | 3707.08                                | 9.06               | 9.00                           | 513.50                            |
|         | 09/20/05    | 3769.96                                  | 61.81                                   | 70.80                                     | 3707.07                                | 8.99               | 9.00                           | 522.50                            |
|         | 09/23/05    | 3769.96                                  | 61.82                                   | 70.88                                     | 3707.05                                | 9.06               | 9.00                           | 531.50                            |
|         | 09/27/05    | 3769.96                                  | 61.80                                   | 70.88                                     | 3707.07                                | 9.08               | 9.00                           | 540.50                            |
|         | 09/29/05    | 3769.96                                  | 61.81                                   | 70.86                                     | 3707.06                                | 9.05               | 9.00                           | 549.50                            |
|         | 10/04/05    | 3769.96                                  | 61.81                                   | 70.83                                     | 3707.07                                | 9.02               | 9.00                           | 558.50                            |
|         | 10/06/05    | 3769.96                                  | 61.87                                   | 70.91                                     | 3707.01                                | 9.04               | 9.00                           | 567.50                            |
|         | 10/11/05    | 3769.96                                  | 61.84                                   | 70.91                                     | 3707.03                                | 9.07               | 9.00                           | 576.50                            |
|         | 10/13/05    | 3769.96                                  | 61.84                                   | 70.90                                     | 3707.03                                | 9.06               | 9.00                           | 585.50                            |
|         | 10/18/05    | 3769.96                                  | 61.84                                   | 70.92                                     | 3707.03                                | 9.08               | 9.00                           | 594.50                            |
|         | 10/21/05    | 3769.96                                  | 61.88                                   | 70.95                                     | 3706.99                                | 9.07               | 9.00                           | 603.50                            |
|         | 10/26/05    | 3769.96                                  | 61.86                                   | 70.97                                     | 3707.01                                | 9.11               | 9.00                           | 612.50                            |



TABLE 5  
Summary of PSH Thickness & Gauging Measurements  
PLAINS PIPELINE, L.P.  
8" Moore to Jal #1  
NMOCD REF. # 1R-0380  
LEA COUNTY, NEW MEXICO - SRS# 2002-10270  
Talon/LPE Project Number PLAINS007SPL

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-3    | 10/28/05    | 3769.96                                     | 61.86                                         | 70.95                                           | 3707.01                                      | 9.09                     | 9.00                                 | 621.50                                     |
|         | 11/01/05    | 3769.96                                     | 61.89                                         | 70.98                                           | 3706.98                                      | 9.09                     | 9.00                                 | 630.50                                     |
|         | 11/04/05    | 3769.96                                     | 61.90                                         | 70.97                                           | 3706.97                                      | 9.07                     | 10.00                                | 640.50                                     |
|         | 11/09/05    | 3769.96                                     | 61.93                                         | 71.02                                           | 3706.94                                      | 9.09                     | 9.00                                 | 649.50                                     |
|         | 11/11/05    | 3769.96                                     | 61.90                                         | 71.03                                           | 3706.96                                      | 9.13                     | 9.00                                 | 658.50                                     |
|         | 11/16/05    | 3769.96                                     | 61.96                                         | 71.04                                           | 3706.91                                      | 9.08                     | 9.00                                 | 667.50                                     |
|         | 11/18/05    | 3769.96                                     | 61.66                                         | 71.01                                           | 3707.18                                      | 9.35                     | 9.00                                 | 676.50                                     |
|         | 11/22/05    | 3769.96                                     | 61.96                                         | 71.04                                           | 3706.91                                      | 9.08                     | 9.00                                 | 685.50                                     |
|         | 11/30/05    | 3769.96                                     | 62.00                                         | 71.06                                           | 3706.87                                      | 9.06                     | 10.00                                | 695.50                                     |
|         | 12/02/05    | 3769.96                                     | 62.00                                         | 71.05                                           | 3706.87                                      | 9.05                     | 9.00                                 | 704.50                                     |
|         | 12/06/05    | 3769.96                                     | 61.97                                         | 71.06                                           | 3706.90                                      | 9.09                     | 9.00                                 | 713.50                                     |
|         | 12/14/05    | 3769.96                                     | 62.02                                         | 71.08                                           | 3706.85                                      | 9.06                     | 9.00                                 | 722.50                                     |
|         | 12/16/05    | 3769.96                                     | 62.03                                         | 71.05                                           | 3706.85                                      | 9.02                     | 9.00                                 | 731.50                                     |
|         | 12/21/05    | 3769.96                                     | 62.03                                         | 71.07                                           | 3706.85                                      | 9.04                     | 11.00                                | 742.50                                     |
|         | 12/23/05    | 3769.96                                     | 62.06                                         | 71.06                                           | 3706.82                                      | 9.00                     | 9.00                                 | 751.50                                     |
|         | 12/27/05    | 3769.96                                     | 62.07                                         | 71.11                                           | 3706.81                                      | 9.04                     | 10.00                                | 761.50                                     |
|         | 12/30/05    | 3769.96                                     | 62.09                                         | 71.06                                           | 3706.79                                      | 8.97                     | 10.00                                | 771.50                                     |
|         | 01/03/06    | 3769.96                                     | 62.10                                         | 71.11                                           | 3706.78                                      | 9.01                     | 10.00                                | 781.50                                     |
|         | 01/05/06    | 3769.96                                     | 62.09                                         | 71.10                                           | 3706.79                                      | 9.01                     | 10.00                                | 791.50                                     |
|         | 01/11/06    | 3769.96                                     | 62.10                                         | 71.14                                           | 3706.78                                      | 9.04                     | 10.00                                | 801.50                                     |
|         | 01/13/06    | 3769.96                                     | 62.17                                         | 71.15                                           | 3706.71                                      | 8.98                     | 10.00                                | 811.50                                     |
|         | 01/18/06    | 3769.96                                     | 62.11                                         | 71.13                                           | 3706.77                                      | 9.02                     | 10.00                                | 821.50                                     |
|         | 01/20/06    | 3769.96                                     | 62.18                                         | 71.14                                           | 3706.70                                      | 8.96                     | 10.00                                | 831.50                                     |
|         | 01/24/06    | 3769.96                                     | 62.20                                         | 71.20                                           | 3706.68                                      | 9.00                     | 10.00                                | 841.50                                     |
|         | 01/26/06    | 3769.96                                     | 62.19                                         | 71.21                                           | 3706.69                                      | 9.02                     | 9.00                                 | 850.50                                     |
|         | 02/02/06    | 3769.96                                     | 62.15                                         | 71.15                                           | 3706.73                                      | 9.00                     | 3.00                                 | 853.50                                     |
|         | 02/08/06    | 3769.96                                     | 62.17                                         | 71.15                                           | 3706.71                                      | 8.98                     | 10.00                                | 863.50                                     |
|         | 02/10/06    | 3769.96                                     | 62.16                                         | 71.13                                           | 3706.72                                      | 8.97                     | 10.00                                | 873.50                                     |
|         | 02/14/06    | 3769.96                                     | 62.20                                         | 71.20                                           | 3706.68                                      | 9.00                     | 10.00                                | 883.50                                     |
|         | 02/16/06    | 3769.96                                     | 62.23                                         | 71.20                                           | 3706.65                                      | 8.97                     | 8.00                                 | 891.50                                     |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-3    | 02/21/06    | 3769.96                                     | 62.23                                         | 71.21                                           | 3706.65                                      | 8.98                     | 8.00                                 | 895.50                                     |
|         | 02/24/06    | 3769.96                                     | 62.26                                         | 71.21                                           | 3706.63                                      | 8.95                     | 7.50                                 | 907.00                                     |
|         | 02/28/06    | 3769.96                                     | 62.21                                         | 71.50                                           | 3706.64                                      | 9.29                     | 0.00                                 | 907.00                                     |
|         | 03/03/06    | 3769.96                                     | 62.25                                         | 71.25                                           | 3706.63                                      | 9.00                     | 8.50                                 | 915.50                                     |
|         | 03/06/06    | 3769.96                                     | 62.22                                         | 71.20                                           | 3706.66                                      | 8.98                     | 7.00                                 | 922.50                                     |
|         | 03/08/06    | 3769.96                                     | 62.24                                         | 71.20                                           | 3706.64                                      | 8.96                     | 8.50                                 | 931.00                                     |
|         | 03/15/06    | 3769.96                                     | 62.28                                         | 71.23                                           | 3706.61                                      | 8.95                     | 8.00                                 | 939.00                                     |
|         | 03/17/06    | 3769.96                                     | 62.33                                         | 71.25                                           | 3706.56                                      | 8.92                     | 10.00                                | 949.00                                     |
|         | 03/21/06    | 3769.96                                     | 62.30                                         | 71.27                                           | 3706.58                                      | 8.97                     | 7.00                                 | 956.00                                     |
|         | 03/23/06    | 3769.96                                     | 62.18                                         | 71.00                                           | 3706.72                                      | 8.82                     | 7.00                                 | 963.00                                     |
|         | 03/28/06    | 3769.96                                     | 62.30                                         | 71.25                                           | 3706.59                                      | 8.95                     | 7.50                                 | 970.50                                     |
|         | 03/30/06    | 3769.96                                     | 62.32                                         | 71.21                                           | 3706.57                                      | 8.89                     | 7.00                                 | 977.50                                     |
|         | 04/04/06    | 3769.96                                     | 62.34                                         | 71.27                                           | 3706.55                                      | 8.93                     | 7.50                                 | 985.00                                     |
|         | 04/07/06    | 3769.96                                     | 62.35                                         | 71.28                                           | 3706.54                                      | 8.93                     | 0.00                                 | 985.00                                     |
|         | 04/12/06    | 3769.96                                     | 62.35                                         | 71.29                                           | 3706.54                                      | 8.94                     | 7.00                                 | 992.00                                     |
|         | 04/14/06    | 3769.96                                     | 62.38                                         | 71.28                                           | 3706.51                                      | 8.90                     | 7.00                                 | 999.00                                     |
|         | 04/18/06    | 3769.96                                     | 62.23                                         | 71.27                                           | 3706.65                                      | 9.04                     | 7.50                                 | 1006.50                                    |
|         | 04/21/06    | 3769.96                                     | 62.40                                         | 71.31                                           | 3706.49                                      | 8.91                     | 7.50                                 | 1014.00                                    |
|         | 04/26/06    | 3769.96                                     | 62.34                                         | 71.28                                           | 3706.55                                      | 8.94                     | 8.50                                 | 1022.50                                    |
|         | 04/28/06    | 3769.96                                     | 62.38                                         | 71.26                                           | 3706.51                                      | 8.88                     | 7.50                                 | 1030.00                                    |
|         | 05/04/06    | 3769.96                                     | 62.38                                         | 71.30                                           | 3706.51                                      | 8.92                     | 7.50                                 | 1037.50                                    |
|         | 05/05/06    | 3769.96                                     | 62.42                                         | 71.31                                           | 3706.47                                      | 8.89                     | 7.50                                 | 1045.00                                    |
|         | 05/10/06    | 3769.96                                     | 62.45                                         | 71.35                                           | 3706.44                                      | 8.90                     | 7.00                                 | 1052.00                                    |
|         | 05/12/06    | 3769.96                                     | 62.44                                         | 71.31                                           | 3706.46                                      | 8.87                     | 8.25                                 | 1060.25                                    |
|         | 05/16/06    | 3769.96                                     | 62.46                                         | 71.35                                           | 3706.43                                      | 8.89                     | 7.00                                 | 1067.25                                    |
|         | 05/18/06    | 3769.96                                     | 62.45                                         | 71.33                                           | 3706.44                                      | 8.88                     | 7.50                                 | 1074.75                                    |
|         | 05/23/06    | 3769.96                                     | 62.45                                         | 71.38                                           | 3706.44                                      | 8.93                     | 6.25                                 | 1081.00                                    |
|         | 05/26/06    | 3769.96                                     | 62.49                                         | 71.36                                           | 3706.41                                      | 8.87                     | 7.25                                 | 1088.25                                    |
|         | 05/30/06    | 3769.96                                     | 62.48                                         | 71.37                                           | 3706.41                                      | 8.89                     | 7.50                                 | 1095.75                                    |
|         | 06/01/06    | 3769.96                                     | 62.49                                         | 71.35                                           | 3706.41                                      | 8.86                     | 4.50                                 | 1100.25                                    |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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    | 06/06/06    | 3769.96                                  | 62.50                                   | 71.37                                     | 3706.40                                | 8.87               | 0.00                           | 1100.25                           |
|         | 06/09/06    | 3769.96                                  | 62.48                                   | 71.38                                     | 3706.41                                | 8.90               | 5.00                           | 1105.25                           |
|         | 06/13/06    | 3769.96                                  | 62.50                                   | 71.40                                     | 3706.39                                | 8.90               | 7.25                           | 1112.50                           |
|         | 06/16/06    | 3769.96                                  | 62.57                                   | 71.43                                     | 3706.33                                | 8.86               | 7.00                           | 1119.50                           |
|         | 06/20/06    | 3769.96                                  | 62.51                                   | 71.39                                     | 3706.38                                | 8.88               | 10.00                          | 1129.50                           |
|         | 06/23/06    | 3769.96                                  | 62.19                                   | 70.78                                     | 3706.74                                | 8.59               | 7.00                           | 1136.50                           |
|         | 06/27/06    | 3769.96                                  | 62.54                                   | 71.40                                     | 3706.36                                | 8.86               | 7.50                           | 1144.00                           |
|         | 06/30/06    | 3769.96                                  | 62.54                                   | 71.40                                     | 3706.36                                | 8.86               | 7.50                           | 1151.50                           |
|         | 07/05/06    | 3769.96                                  | 62.53                                   | 71.41                                     | 3706.36                                | 8.88               | 7.00                           | 1158.50                           |
|         | 07/07/06    | 3769.96                                  | 62.58                                   | 71.43                                     | 3706.32                                | 8.85               | 6.00                           | 1164.50                           |
|         | 07/11/06    | 3769.96                                  | 62.57                                   | 71.42                                     | 3706.33                                | 8.85               | 6.50                           | 1171.00                           |
|         | 07/13/06    | 3769.96                                  | 62.59                                   | 71.43                                     | 3706.31                                | 8.84               | 8.00                           | 1179.00                           |
|         | 07/18/06    | 3769.96                                  | 62.60                                   | 71.45                                     | 3706.30                                | 8.85               | 7.00                           | 1186.00                           |
|         | 07/21/06    | 3769.96                                  | 62.60                                   | 71.43                                     | 3706.30                                | 8.83               | 7.00                           | 1193.00                           |
|         | 07/25/06    | 3769.96                                  | 62.60                                   | 71.45                                     | 3706.30                                | 8.85               | 6.00                           | 1199.00                           |
|         | 07/27/06    | 3769.96                                  | 62.61                                   | 71.44                                     | 3706.29                                | 8.83               | 7.50                           | 1206.50                           |
|         | 08/01/06    | 3769.96                                  | 62.74                                   | 71.48                                     | 3706.17                                | 8.74               | 6.00                           | 1212.50                           |
|         | 08/03/06    | 3769.96                                  | 62.66                                   | 71.47                                     | 3706.24                                | 8.81               | 5.50                           | 1218.00                           |
|         | 08/09/06    | 3769.96                                  | 62.67                                   | 71.50                                     | 3706.23                                | 8.83               | 7.00                           | 1225.00                           |
|         | 08/11/06    | 3769.96                                  | 62.66                                   | 71.47                                     | 3706.24                                | 8.81               | 6.50                           | 1231.50                           |
|         | 08/15/06    | 3769.96                                  | 62.70                                   | 71.55                                     | 3706.20                                | 8.85               | 6.50                           | 1238.00                           |
|         | 08/18/06    | 3769.96                                  | 62.70                                   | 71.52                                     | 3706.20                                | 8.82               | 5.00                           | 1243.00                           |
|         | 08/25/06    | 3769.96                                  | 62.73                                   | 71.58                                     | 3706.17                                | 8.85               | 7.00                           | 1250.00                           |
|         | 08/30/06    | 3769.96                                  | 62.44                                   | 71.60                                     | 3706.42                                | 9.16               | 7.50                           | 1257.50                           |
|         | 09/12/06    | 3769.96                                  | NM                                      | NM                                        |                                        |                    | 0.00                           | 1257.50                           |
|         | 09/15/06    | 3769.96                                  | 62.70                                   | 71.65                                     | 3706.19                                | 8.95               | 5.00                           | 1262.50                           |
|         | 09/20/06    | 3769.96                                  | 62.72                                   | 71.63                                     | 3706.17                                | 8.91               | 7.00                           | 1269.50                           |
|         | 09/26/06    | 3769.96                                  | 62.75                                   | 71.65                                     | 3706.14                                | 8.90               | 7.50                           | 1277.00                           |
|         | 09/29/06    | 3769.96                                  | 62.77                                   | 71.68                                     | 3706.12                                | 8.91               | 0.00                           | 1277.00                           |
|         | 10/04/06    | 3769.96                                  | 62.71                                   | 71.72                                     | 3706.17                                | 9.01               | 8.00                           | 1285.00                           |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-3    | 10/06/06    | 3769.96                                     | 62.81                                         | 71.68                                           | 3706.09                                      | 8.87                     | 6.50                                 | 1291.50                                    |
|         | 10/12/06    | 3769.96                                     | 62.82                                         | 71.71                                           | 3706.07                                      | 8.89                     | 7.00                                 | 1298.50                                    |
|         | 10/17/06    | 3769.96                                     | 62.82                                         | 71.73                                           | 3706.07                                      | 8.91                     | 0.00                                 | 1298.50                                    |
|         | 10/20/06    | 3769.96                                     | 62.82                                         | 71.73                                           | 3706.07                                      | 8.91                     | 0.00                                 | 1298.50                                    |
|         | 10/24/06    | 3769.96                                     | 62.80                                         | 71.71                                           | 3706.09                                      | 8.91                     | 0.00                                 | 1298.50                                    |
|         | 10/26/06    | 3769.96                                     | 62.80                                         | 71.74                                           | 3706.09                                      | 8.94                     | 0.00                                 | 1298.50                                    |
|         | 11/22/06    | 3769.96                                     | 62.95                                         | 71.83                                           | 3705.94                                      | 8.88                     | 7.00                                 | 1305.50                                    |
|         | 11/28/06    | 3769.96                                     | 62.95                                         | 71.80                                           | 3705.95                                      | 8.85                     | 7.00                                 | 1312.50                                    |
|         | 12/06/06    | 3769.96                                     | 63.05                                         | 71.90                                           | 3705.85                                      | 8.85                     | 8.00                                 | 1320.50                                    |
|         | 12/08/06    | 3769.96                                     | 62.82                                         | 71.00                                           | 3706.16                                      | 8.18                     | 8.00                                 | 1328.50                                    |
|         | 12/12/06    | 3769.96                                     | 63.02                                         | 71.80                                           | 3705.89                                      | 8.78                     | 7.50                                 | 1336.00                                    |
|         | 12/15/06    | 3769.96                                     | 62.80                                         | 71.74                                           | 3706.09                                      | 8.94                     | 7.00                                 | 1343.00                                    |
|         | 12/20/06    | 3769.96                                     | NM                                            | NM                                              |                                              |                          | 0.00                                 | 1343.00                                    |
|         | 12/22/06    | 3769.96                                     | 63.06                                         | 71.90                                           | 3705.84                                      | 8.84                     | 0.00                                 | 1343.00                                    |
|         | 12/27/06    | 3769.96                                     | 63.02                                         | 71.92                                           | 3705.87                                      | 8.90                     | 0.00                                 | 1343.00                                    |
|         | 01/03/07    | 3769.96                                     | 63.12                                         | 71.98                                           | 3705.78                                      | 8.86                     | 0.00                                 | 1343.00                                    |
|         | 01/05/07    | 3769.96                                     | 63.09                                         | 71.04                                           | 3705.92                                      | 7.95                     | 0.00                                 | 1343.00                                    |
|         | 01/12/07    | 3769.96                                     | 63.16                                         | 72.02                                           | 3705.74                                      | 8.86                     | 7.00                                 | 1350.00                                    |
|         | 01/15/07    | 3769.96                                     | 63.18                                         | 71.80                                           | 3705.75                                      | 8.62                     | 0.00                                 | 1350.00                                    |
|         | 01/18/07    | 3769.96                                     | 63.18                                         | 72.04                                           | 3705.72                                      | 8.86                     | 6.00                                 | 1356.00                                    |
|         | 01/31/07    | 3769.96                                     | 63.19                                         | 72.04                                           | 3705.71                                      | 8.85                     | 0.00                                 | 1356.00                                    |
|         | 02/07/07    | 3769.96                                     | 63.10                                         | 71.45                                           | 3705.86                                      | 8.35                     | 6.50                                 | 1362.50                                    |
|         | 02/09/07    | 3769.96                                     | 63.21                                         | 72.07                                           | 3705.69                                      | 8.86                     | 0.00                                 | 1362.50                                    |
|         | 02/13/07    | 3769.96                                     | 63.22                                         | 72.07                                           | 3705.68                                      | 8.85                     | 0.00                                 | 1362.50                                    |
|         | 02/18/07    | 3769.96                                     | 62.23                                         | 72.07                                           | 3706.55                                      | 9.84                     | 0.00                                 | 1362.50                                    |
|         | 02/19/07    | 3769.96                                     | 63.22                                         | 72.08                                           | 3705.68                                      | 8.86                     | 0.00                                 | 1362.50                                    |
|         | 02/21/07    | 3769.96                                     | 63.22                                         | 72.11                                           | 3705.67                                      | 8.89                     | 0.00                                 | 1362.50                                    |
|         | 02/26/07    | 3769.96                                     | 65.23                                         | 72.11                                           | 3703.90                                      | 6.88                     | 0.00                                 | 1362.50                                    |
|         | 03/01/07    | 3769.96                                     | 63.27                                         | 72.08                                           | 3705.63                                      | 8.81                     | 0.00                                 | 1362.50                                    |
|         | 03/06/07    | 3769.96                                     | 63.23                                         | 72.24                                           | 3705.65                                      | 9.01                     | 0.00                                 | 1362.50                                    |
|         | 03/09/07    | 3769.96                                     | 63.25                                         | 72.09                                           | 3705.65                                      | 8.84                     | 0.00                                 | 1362.50                                    |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NIMOD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-3    | 03/23/07    | 3769.96                                     | 63.30                                         | 72.12                                           | 3705.60                                      | 8.82                     | 0.00                                 | 1362.50                                    |
|         | 03/27/07    | 3767.24                                     | 63.31                                         | 72.31                                           | 3702.85                                      | 9.00                     | 0.00                                 | 1362.50                                    |
|         | 04/06/07    | 3767.24                                     | 63.35                                         | 72.18                                           | 3702.83                                      | 8.83                     | 0.00                                 | 1362.50                                    |
|         | 04/11/07    | 3767.24                                     | 66.13                                         | 73.17                                           | 3700.27                                      | 7.04                     | 0.00                                 | 1362.50                                    |
|         | 04/17/07    | 3767.24                                     | 63.35                                         | 72.18                                           | 3702.83                                      | 8.83                     | 0.00                                 | 1368.50                                    |
|         | 04/19/07    | 3767.24                                     | 63.38                                         | 72.18                                           | 3702.80                                      | 8.80                     | 7.00                                 | 1375.50                                    |
|         | 04/24/07    | 3767.24                                     | 63.36                                         | 72.19                                           | 3702.82                                      | 8.83                     | 6.00                                 | 1381.50                                    |
|         | 05/01/07    | 3767.24                                     | 63.41                                         | 72.21                                           | 3702.77                                      | 8.80                     | 0.00                                 | 1381.50                                    |
|         | 05/21/07    | 3767.24                                     | 63.43                                         | 72.25                                           | 3702.75                                      | 8.82                     | 0.00                                 | 1381.50                                    |
|         | 05/24/07    | 3767.24                                     | 63.48                                         | 72.26                                           | 3702.71                                      | 8.78                     | 7.00                                 | 1388.50                                    |
|         | 06/28/07    | 3767.24                                     | 63.58                                         | 72.40                                           | 3702.60                                      | 8.82                     | 0.00                                 | 1388.50                                    |
|         | 08/07/07    | 3767.24                                     | 63.52                                         | 72.36                                           | 3702.66                                      | 8.84                     | 8.00                                 | 1396.50                                    |
|         | 08/17/07    | 3767.24                                     | 63.61                                         | 72.38                                           | 3702.58                                      | 8.77                     | 8.00                                 | 1404.50                                    |
|         | 08/23/07    | 3767.24                                     | 63.58                                         | 72.34                                           | 3702.61                                      | 8.76                     | 10.50                                | 1415.00                                    |
|         | 08/31/07    | 3767.24                                     | 63.92                                         | 72.36                                           | 3702.31                                      | 8.44                     | 3.00                                 | 1418.00                                    |
|         | 09/21/07    | 3767.24                                     | 63.71                                         | 72.44                                           | 3702.48                                      | 8.73                     | 8.50                                 | 1426.50                                    |
|         | 09/28/07    | 3767.24                                     | 63.69                                         | 72.43                                           | 3702.50                                      | 8.74                     | 8.50                                 | 1435.00                                    |
|         | 10/11/07    | 3767.24                                     | 63.43                                         | 72.48                                           | 3702.72                                      | 9.05                     | 9.00                                 | 1444.00                                    |
|         | 10/18/07    | 3767.24                                     | 63.77                                         | 72.48                                           | 3702.42                                      | 8.71                     | 8.50                                 | 1452.50                                    |
|         | 11/13/07    | 3767.24                                     | 63.83                                         | 72.56                                           | 3702.36                                      | 8.73                     | 0.00                                 | 1452.50                                    |
|         | 11/27/07    | 3767.24                                     | 63.87                                         | 72.61                                           | 3702.32                                      | 8.74                     | 0.00                                 | 1452.50                                    |
| MW-4    | 12/13/07    | 3767.24                                     | 63.98                                         | 72.70                                           | 3702.21                                      | 8.72                     | 8.50                                 | 1461.00                                    |
|         | 12/17/07    | 3767.24                                     | 64.00                                         | 72.72                                           | 3702.19                                      | 8.72                     | 0.00                                 | 1461.00                                    |
|         | 12/31/07    | 3767.24                                     | 64.05                                         | 72.73                                           | 3702.15                                      | 8.68                     | 8.00                                 | 1469.00                                    |
|         | 01/16/08    | 3767.24                                     | 64.08                                         | 72.77                                           | 3702.12                                      | 8.69                     | 8.00                                 | 1477.00                                    |
|         | 03/05/08    | 3767.24                                     | 64.25                                         | 72.93                                           | 3701.95                                      | 8.68                     | 0.00                                 | 1477.00                                    |
|         | 03/26/08    | 3767.24                                     | 64.30                                         | 72.96                                           | 3701.90                                      | 8.66                     | 0.00                                 | 1477.00                                    |
|         | 04/02/08    | 3767.24                                     | 64.34                                         | 73.03                                           | 3701.86                                      | 8.69                     | 0.00                                 | 1477.00                                    |
|         | 04/04/08    | 3767.24                                     | 64.36                                         | 73.05                                           | 3701.84                                      | 8.69                     | 8.00                                 | 1485.00                                    |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 10/29/04    | 3772.74                                     | 59.80                                         | 71.07                                           | 3711.59                                      | 11.27                    |                                      |                                            |
|         | 11/04/04    | 3772.74                                     | 63.06                                         | 72.51                                           | 3708.55                                      | 9.45                     | 20.50                                | 20.50                                      |
|         | 11/10/04    | 3772.74                                     | 63.12                                         | 72.78                                           | 3708.46                                      | 9.66                     | 16.00                                | 36.50                                      |
|         | 11/17/04    | 3772.74                                     | 63.21                                         | 73.09                                           | 3708.34                                      | 9.88                     | 16.00                                | 52.50                                      |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOC REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-4    | 11/24/04    | 3772.74                                     | 63.30                                         | 73.31                                           | 3708.24                                      | 10.01                    | 16.50                                | 69.00                                      |
|         | 12/02/04    | 3772.74                                     | 63.31                                         | 73.30                                           | 3708.23                                      | 9.99                     | 17.00                                | 86.00                                      |
|         | 12/08/04    | 3772.74                                     | 63.27                                         | 73.29                                           | 3708.27                                      | 10.02                    | 18.00                                | 104.00                                     |
|         | 12/15/04    | 3772.74                                     | 63.39                                         | 73.52                                           | 3708.13                                      | 10.13                    | 17.00                                | 121.00                                     |
|         | 12/27/04    | 3772.74                                     | 63.53                                         | 73.71                                           | 3707.99                                      | 10.18                    | 19.00                                | 140.00                                     |
|         | 12/29/04    | 3772.74                                     | 63.54                                         | 73.61                                           | 3707.99                                      | 10.07                    | 19.00                                | 159.00                                     |
|         | 01/06/05    | 3772.74                                     | 63.57                                         | 73.70                                           | 3707.95                                      | 10.13                    | 17.50                                | 176.50                                     |
|         | 01/13/05    | 3772.74                                     | 63.71                                         | 73.79                                           | 3707.82                                      | 10.08                    | 19.00                                | 195.50                                     |
|         | 01/19/05    | 3772.74                                     | 63.72                                         | 73.76                                           | 3707.82                                      | 10.04                    | 19.00                                | 214.50                                     |
|         | 01/26/05    | 3772.74                                     | 61.89                                         | 69.41                                           | 3709.95                                      | 7.52                     | 7.50                                 | 222.00                                     |
|         | 02/02/05    | 3772.74                                     | 63.82                                         | 73.76                                           | 3707.73                                      | 9.94                     | 18.00                                | 240.00                                     |
|         | 02/09/05    | 3772.74                                     | 63.86                                         | 73.77                                           | 3707.69                                      | 9.91                     | 19.00                                | 259.00                                     |
|         | 02/16/05    | 3772.74                                     | 63.86                                         | 73.73                                           | 3707.70                                      | 9.87                     | 19.00                                | 278.00                                     |
|         | 02/24/05    | 3772.74                                     | 63.93                                         | 73.76                                           | 3707.63                                      | 9.83                     | 18.00                                | 296.00                                     |
|         | 03/03/05    | 3772.74                                     | 63.92                                         | 73.74                                           | 3707.64                                      | 9.82                     | 19.00                                | 315.00                                     |
|         | 03/11/05    | 3772.74                                     | 63.79                                         | 73.26                                           | 3707.81                                      | 9.47                     | 15.00                                | 330.00                                     |
|         | 03/18/05    | 3772.74                                     | 63.97                                         | 73.74                                           | 3707.60                                      | 9.77                     | 18.00                                | 348.00                                     |
|         | 04/01/05    | 3772.74                                     | 64.02                                         | 73.76                                           | 3707.55                                      | 9.74                     | 17.00                                | 365.00                                     |
|         | 04/07/05    | 3772.74                                     | 64.05                                         | 73.73                                           | 3707.53                                      | 9.68                     | 18.00                                | 383.00                                     |
|         | 05/18/05    | 3772.74                                     | 64.11                                         | 73.76                                           | 3707.47                                      | 9.65                     | 18.00                                | 401.00                                     |
|         | 05/23/05    | 3772.74                                     | 64.18                                         | 73.76                                           | 3707.41                                      | 9.58                     | 18.00                                | 419.00                                     |
|         | 05/26/05    | 3772.74                                     | 64.20                                         | 73.73                                           | 3707.40                                      | 9.53                     | 15.00                                | 434.00                                     |
|         | 06/01/05    | 3772.74                                     | 64.20                                         | 73.70                                           | 3707.40                                      | 9.50                     | 13.00                                | 447.00                                     |
|         | 06/03/05    | 3772.74                                     | 64.20                                         | 73.64                                           | 3707.41                                      | 9.44                     | 10.00                                | 457.00                                     |
|         | 06/07/05    | 3772.74                                     | 64.22                                         | 73.43                                           | 3707.41                                      | 9.21                     | 9.00                                 | 466.00                                     |
|         | 06/10/05    | 3772.74                                     | 64.23                                         | 73.69                                           | 3707.37                                      | 9.46                     | 9.00                                 | 475.00                                     |
|         | 06/13/05    | 3772.74                                     | 64.21                                         | 73.75                                           | 3707.39                                      | 9.54                     | 9.50                                 | 484.50                                     |
|         | 06/16/05    | 3772.74                                     | 64.24                                         | 73.66                                           | 3707.37                                      | 9.42                     | 10.00                                | 494.50                                     |
|         | 06/20/05    | 3772.74                                     | 64.26                                         | 73.72                                           | 3707.34                                      | 9.46                     | 10.00                                | 504.50                                     |
|         | 06/22/05    | 3772.74                                     | 64.28                                         | 73.64                                           | 3707.34                                      | 9.36                     | 10.00                                | 514.50                                     |



**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-4    | 06/29/05    | 3772.74                                     | 64.27                                         | 73.74                                           | 3707.33                                      | 9.47                     | 12.00                                | 526.50                                     |
|         | 07/01/05    | 3772.74                                     | 64.29                                         | 73.62                                           | 3707.33                                      | 9.33                     | 14.00                                | 540.50                                     |
|         | 07/06/05    | 3772.74                                     | 64.30                                         | 73.74                                           | 3707.31                                      | 9.44                     | 8.00                                 | 548.50                                     |
|         | 07/09/05    | 3772.74                                     | 64.33                                         | 73.63                                           | 3707.29                                      | 9.30                     | 9.50                                 | 558.00                                     |
|         | 07/12/05    | 3772.74                                     | 64.34                                         | 73.72                                           | 3707.27                                      | 9.38                     | 9.00                                 | 567.00                                     |
|         | 07/14/05    | 3772.74                                     | 64.34                                         | 73.66                                           | 3707.28                                      | 9.32                     | 9.00                                 | 576.00                                     |
|         | 07/19/05    | 3772.74                                     | 64.34                                         | 73.80                                           | 3707.26                                      | 9.46                     | 10.00                                | 586.00                                     |
|         | 07/21/05    | 3772.74                                     | 64.38                                         | 73.73                                           | 3707.24                                      | 9.35                     | 10.00                                | 596.00                                     |
|         | 07/26/05    | 3772.74                                     | 62.39                                         | 70.02                                           | 3709.43                                      | 7.63                     | 11.00                                | 607.00                                     |
|         | 07/28/05    | 3772.74                                     | 64.41                                         | 73.69                                           | 3707.22                                      | 9.28                     | 9.00                                 | 616.00                                     |
|         | 08/02/05    | 3772.74                                     | 64.40                                         | 73.74                                           | 3707.22                                      | 9.34                     | 10.00                                | 626.00                                     |
|         | 08/04/05    | 3772.74                                     | 64.43                                         | 73.64                                           | 3707.20                                      | 9.21                     | 9.00                                 | 635.00                                     |
|         | 08/09/05    | 3772.74                                     | 64.42                                         | 73.75                                           | 3707.20                                      | 9.33                     | 10.00                                | 645.00                                     |
|         | 08/11/05    | 3772.74                                     | 64.45                                         | 73.64                                           | 3707.19                                      | 9.19                     | 10.00                                | 655.00                                     |
|         | 08/16/05    | 3772.74                                     | 64.44                                         | 73.75                                           | 3707.18                                      | 9.31                     | 11.00                                | 666.00                                     |
|         | 08/18/05    | 3772.74                                     | 64.47                                         | 73.62                                           | 3707.17                                      | 9.15                     | 10.00                                | 676.00                                     |
|         | 08/24/05    | 3772.74                                     | 64.47                                         | 73.74                                           | 3707.16                                      | 9.27                     | 10.00                                | 686.00                                     |
|         | 08/26/05    | 3772.74                                     | 64.48                                         | 73.65                                           | 3707.16                                      | 9.17                     | 10.00                                | 696.00                                     |
|         | 08/30/05    | 3772.74                                     | 64.46                                         | 73.67                                           | 3707.17                                      | 9.21                     | 9.00                                 | 705.00                                     |
|         | 09/01/05    | 3772.74                                     | 64.51                                         | 73.52                                           | 3707.15                                      | 9.01                     | 10.00                                | 715.00                                     |
|         | 09/06/05    | 3772.74                                     | 64.43                                         | 73.64                                           | 3707.20                                      | 9.21                     | 12.00                                | 727.00                                     |
|         | 09/08/05    | 3772.74                                     | 64.51                                         | 73.53                                           | 3707.15                                      | 9.02                     | 12.00                                | 739.00                                     |
|         | 09/13/05    | 3772.74                                     | 64.49                                         | 73.68                                           | 3707.15                                      | 9.19                     | 12.00                                | 751.00                                     |
|         | 09/16/05    | 3772.74                                     | 64.54                                         | 73.66                                           | 3707.11                                      | 9.12                     | 11.00                                | 762.00                                     |
|         | 09/20/05    | 3772.74                                     | 64.50                                         | 73.65                                           | 3707.14                                      | 9.15                     | 13.00                                | 775.00                                     |
|         | 09/23/05    | 3772.74                                     | 64.56                                         | 73.72                                           | 3707.08                                      | 9.16                     | 12.00                                | 787.00                                     |
|         | 09/27/05    | 3772.74                                     | 64.55                                         | 74.73                                           | 3706.97                                      | 10.18                    | 12.00                                | 799.00                                     |
|         | 09/29/05    | 3772.74                                     | 64.56                                         | 73.63                                           | 3707.09                                      | 9.07                     | 12.00                                | 811.00                                     |
|         | 10/04/05    | 3772.74                                     | 64.56                                         | 73.74                                           | 3707.08                                      | 9.18                     | 14.00                                | 825.00                                     |
|         | 10/06/05    | 3772.74                                     | 64.64                                         | 73.65                                           | 3707.02                                      | 9.01                     | 12.00                                | 837.00                                     |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOC REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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-4    | 10/11/05    | 3772.74                                  | 64.57                                   | 73.76                                     | 3707.07                                | 9.19               | 10.00                          | 847.00                            |
|         | 10/13/05    | 3772.74                                  | 64.58                                   | 73.64                                     | 3707.07                                | 9.06               | 14.00                          | 861.00                            |
|         | 10/18/05    | 3772.74                                  | 64.61                                   | 73.78                                     | 3707.03                                | 9.17               | 12.00                          | 873.00                            |
|         | 10/21/05    | 3772.74                                  | 64.63                                   | 73.44                                     | 3707.05                                | 8.81               | 15.00                          | 888.00                            |
|         | 10/26/05    | 3772.74                                  | 64.62                                   | 73.77                                     | 3707.02                                | 9.15               | 11.00                          | 899.00                            |
|         | 10/28/05    | 3772.74                                  | 64.62                                   | 73.67                                     | 3707.03                                | 9.05               | 10.00                          | 909.00                            |
|         | 11/01/05    | 3772.74                                  | 64.63                                   | 73.78                                     | 3707.01                                | 9.15               | 11.00                          | 920.00                            |
|         | 11/04/05    | 3772.74                                  | 64.64                                   | 73.75                                     | 3707.01                                | 9.11               | 9.00                           | 929.00                            |
|         | 11/09/05    | 3772.74                                  | 64.70                                   | 73.85                                     | 3706.94                                | 9.15               | 12.00                          | 941.00                            |
|         | 11/11/05    | 3772.74                                  | 64.72                                   | 73.83                                     | 3706.93                                | 9.11               | 12.00                          | 953.00                            |
|         | 11/16/05    | 3772.74                                  | 64.68                                   | 73.81                                     | 3706.96                                | 9.13               | 12.00                          | 965.00                            |
|         | 11/18/05    | 3772.74                                  | 64.73                                   | 73.71                                     | 3706.93                                | 8.98               | 12.00                          | 977.00                            |
|         | 11/22/05    | 3772.74                                  | 64.71                                   | 73.82                                     | 3706.94                                | 9.11               | 12.00                          | 989.00                            |
|         | 11/30/05    | 3772.74                                  | 64.71                                   | 73.85                                     | 3706.93                                | 9.14               | 11.00                          | 1000.00                           |
|         | 12/02/05    | 3772.74                                  | 64.76                                   | 73.76                                     | 3706.90                                | 9.00               | 12.00                          | 1012.00                           |
|         | 12/06/05    | 3772.74                                  | 64.75                                   | 73.87                                     | 3706.90                                | 9.12               | 12.00                          | 1024.00                           |
|         | 12/14/05    | 3772.74                                  | 64.77                                   | 73.88                                     | 3706.88                                | 9.11               | 13.00                          | 1037.00                           |
|         | 12/16/05    | 3772.74                                  | 64.80                                   | 73.86                                     | 3706.85                                | 9.06               | 13.00                          | 1050.00                           |
|         | 12/21/05    | 3772.74                                  | 64.80                                   | 73.89                                     | 3706.85                                | 9.09               | 13.00                          | 1063.00                           |
|         | 12/23/05    | 3772.74                                  | 64.83                                   | 73.72                                     | 3706.84                                | 8.89               | 13.00                          | 1076.00                           |
|         | 12/27/05    | 3772.74                                  | 64.82                                   | 73.88                                     | 3706.83                                | 9.06               | 12.00                          | 1088.00                           |
|         | 12/30/05    | 3772.74                                  | 64.86                                   | 73.88                                     | 3706.80                                | 9.02               | 12.00                          | 1100.00                           |
|         | 01/03/06    | 3772.74                                  | 64.82                                   | 73.83                                     | 3706.84                                | 9.01               | 13.00                          | 1113.00                           |
|         | 01/05/06    | 3772.74                                  | 64.85                                   | 73.80                                     | 3706.82                                | 8.95               | 12.00                          | 1125.00                           |
|         | 01/11/06    | 3772.74                                  | 64.84                                   | 73.92                                     | 3706.81                                | 9.08               | 12.00                          | 1137.00                           |
|         | 01/13/06    | 3772.74                                  | 64.91                                   | 73.81                                     | 3706.76                                | 8.90               | 11.00                          | 1148.00                           |
|         | 01/18/06    | 3772.74                                  | 64.86                                   | 73.92                                     | 3706.79                                | 9.06               | 14.00                          | 1162.00                           |
|         | 01/20/06    | 3772.74                                  | 64.95                                   | 73.80                                     | 3706.73                                | 8.85               | 9.50                           | 1171.50                           |
|         | 01/24/06    | 3772.74                                  | 64.94                                   | 73.98                                     | 3706.72                                | 9.04               | 11.00                          | 1182.50                           |
|         | 01/26/06    | 3772.74                                  | 64.90                                   | 73.93                                     | 3706.76                                | 9.03               | 11.00                          | 1193.50                           |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NIMOD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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-4    | 02/02/06    | 3772.74                                  | 64.87                                   | 73.90                                     | 3706.79                                | 9.03               | 0.00                           | 1193.50                           |
|         | 02/08/06    | 3772.74                                  | 64.90                                   | 73.98                                     | 3706.75                                | 9.08               | 10.00                          | 1203.50                           |
|         | 02/10/06    | 3772.74                                  | 64.87                                   | 73.97                                     | 3706.78                                | 9.10               | 10.00                          | 1213.50                           |
|         | 02/14/06    | 3772.74                                  | 64.93                                   | 74.00                                     | 3706.72                                | 9.07               | 12.00                          | 1225.50                           |
|         | 02/16/06    | 3772.74                                  | 65.00                                   | 73.90                                     | 3706.67                                | 8.90               | 9.50                           | 1235.00                           |
|         | 02/21/06    | 3772.74                                  | 65.00                                   | 74.10                                     | 3706.65                                | 9.10               | 9.50                           | 1244.50                           |
|         | 02/24/06    | 3772.74                                  | 65.00                                   | 74.00                                     | 3706.66                                | 9.00               | 9.00                           | 1253.50                           |
|         | 02/28/06    | 3772.74                                  | 64.96                                   | 73.98                                     | 3706.70                                | 9.02               | 0.00                           | 1253.50                           |
|         | 03/03/06    | 3772.74                                  | 64.80                                   | 74.04                                     | 3706.83                                | 9.24               | 0.00                           | 1253.50                           |
|         | 03/06/06    | 3772.74                                  | 64.95                                   | 74.00                                     | 3706.70                                | 9.05               | 7.00                           | 1260.50                           |
|         | 03/08/06    | 3772.74                                  | 65.02                                   | 73.93                                     | 3706.65                                | 8.91               | 8.25                           | 1268.75                           |
|         | 03/15/06    | 3772.74                                  | 65.02                                   | 74.05                                     | 3706.64                                | 9.03               | 13.00                          | 1281.75                           |
|         | 03/17/06    | 3772.74                                  | 65.07                                   | 73.95                                     | 3706.60                                | 8.88               | 12.00                          | 1293.75                           |
|         | 03/21/06    | 3772.74                                  | 65.02                                   | 74.00                                     | 3706.64                                | 8.98               | 13.00                          | 1306.75                           |
|         | 03/23/06    | 3772.74                                  | 64.96                                   | 73.81                                     | 3706.72                                | 8.85               | 11.00                          | 1317.75                           |
|         | 03/28/06    | 3772.74                                  | 65.05                                   | 74.04                                     | 3706.61                                | 8.99               | 8.50                           | 1326.25                           |
|         | 03/30/06    | 3772.74                                  | 65.08                                   | 73.95                                     | 3706.60                                | 8.87               | 8.00                           | 1334.25                           |
|         | 04/04/06    | 3772.74                                  | 65.05                                   | 74.05                                     | 3706.61                                | 9.00               | 7.50                           | 1341.75                           |
|         | 04/07/06    | 3772.74                                  | 65.10                                   | 74.05                                     | 3706.57                                | 8.95               | 8.50                           | 1350.25                           |
|         | 04/12/06    | 3772.74                                  | 65.09                                   | 74.07                                     | 3706.57                                | 8.98               | 7.50                           | 1357.75                           |
|         | 04/14/06    | 3772.74                                  | 65.11                                   | 74.00                                     | 3706.56                                | 8.89               | 7.50                           | 1365.25                           |
|         | 04/18/06    | 3772.74                                  | 65.10                                   | 74.03                                     | 3706.57                                | 8.93               | 8.00                           | 1373.25                           |
|         | 04/21/06    | 3772.74                                  | 65.15                                   | 74.05                                     | 3706.52                                | 8.90               | 7.50                           | 1380.75                           |
|         | 04/26/06    | 3772.74                                  | 65.07                                   | 74.03                                     | 3706.59                                | 8.96               | 7.00                           | 1387.75                           |
|         | 04/28/06    | 3772.74                                  | 65.14                                   | 73.95                                     | 3706.54                                | 8.81               | 8.50                           | 1396.25                           |
|         | 05/04/06    | 3772.74                                  | 65.14                                   | 74.05                                     | 3706.53                                | 8.91               | 7.00                           | 1403.25                           |
|         | 05/05/06    | 3772.74                                  | 65.17                                   | 74.08                                     | 3706.50                                | 8.91               | 8.50                           | 1411.75                           |
|         | 05/10/06    | 3772.74                                  | 65.22                                   | 74.13                                     | 3706.45                                | 8.91               | 7.00                           | 1418.75                           |
|         | 05/12/06    | 3772.74                                  | 65.17                                   | 74.10                                     | 3706.50                                | 8.93               | 7.50                           | 1426.25                           |
|         | 05/16/06    | 3772.74                                  | 65.20                                   | 74.13                                     | 3706.47                                | 8.93               | 7.00                           | 1433.25                           |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-4    | 05/18/06    | 3772.74                                     | 65.20                                         | 74.03                                           | 3706.48                                      | 8.83                     | 7.00                                 | 1440.25                                    |
|         | 05/23/06    | 3772.74                                     | 65.20                                         | 74.13                                           | 3706.47                                      | 8.93                     | 8.50                                 | 1448.75                                    |
|         | 05/26/06    | 3772.74                                     | 65.20                                         | 74.07                                           | 3706.48                                      | 8.87                     | 6.50                                 | 1455.25                                    |
|         | 05/30/06    | 3772.74                                     | 65.32                                         | 74.14                                           | 3706.36                                      | 8.82                     | 5.50                                 | 1460.75                                    |
|         | 06/01/06    | 3772.74                                     | 65.23                                         | 74.05                                           | 3706.45                                      | 8.82                     | 6.75                                 | 1467.50                                    |
|         | 06/06/06    | 3772.74                                     | 65.25                                         | 74.10                                           | 3706.43                                      | 8.85                     | 0.00                                 | 1467.50                                    |
|         | 06/09/06    | 3772.74                                     | 65.21                                         | 74.13                                           | 3706.46                                      | 8.92                     | 8.50                                 | 1476.00                                    |
|         | 06/13/06    | 3772.74                                     | 65.23                                         | 74.15                                           | 3706.44                                      | 8.92                     | 7.25                                 | 1483.25                                    |
|         | 06/16/06    | 3772.74                                     | 65.25                                         | 74.15                                           | 3706.42                                      | 8.90                     | 5.25                                 | 1488.50                                    |
|         | 06/20/06    | 3772.74                                     | 65.24                                         | 74.16                                           | 3706.43                                      | 8.92                     | 7.00                                 | 1495.50                                    |
|         | 06/23/06    | 3772.74                                     | 65.23                                         | 74.18                                           | 3706.44                                      | 8.95                     | 7.50                                 | 1503.00                                    |
|         | 06/27/06    | 3772.74                                     | 65.29                                         | 74.20                                           | 3706.38                                      | 8.91                     | 9.00                                 | 1512.00                                    |
|         | 06/30/06    | 3772.74                                     | 65.28                                         | 74.17                                           | 3706.39                                      | 8.89                     | 8.00                                 | 1520.00                                    |
|         | 07/05/06    | 3772.74                                     | 65.27                                         | 74.18                                           | 3706.40                                      | 8.91                     | 4.00                                 | 1524.00                                    |
|         | 07/07/06    | 3772.74                                     | 65.33                                         | 74.16                                           | 3706.35                                      | 8.83                     | 8.50                                 | 1532.50                                    |
|         | 07/11/06    | 3772.74                                     | 65.31                                         | 74.21                                           | 3706.36                                      | 8.90                     | 7.50                                 | 1540.00                                    |
|         | 07/13/06    | 3772.74                                     | 65.34                                         | 74.11                                           | 3706.35                                      | 8.77                     | 7.50                                 | 1547.50                                    |
|         | 07/18/06    | 3772.74                                     | 65.35                                         | 74.21                                           | 3706.33                                      | 8.86                     | 7.50                                 | 1555.00                                    |
|         | 07/21/06    | 3772.74                                     | 65.34                                         | 74.20                                           | 3706.34                                      | 8.86                     | 0.00                                 | 1555.00                                    |
|         | 07/25/06    | 3772.74                                     | 65.36                                         | 74.25                                           | 3706.31                                      | 8.89                     | 7.00                                 | 1562.00                                    |
|         | 07/27/06    | 3772.74                                     | 65.33                                         | 74.14                                           | 3706.35                                      | 8.81                     | 7.50                                 | 1569.50                                    |
|         | 08/01/06    | 3772.74                                     | 65.38                                         | 74.25                                           | 3706.30                                      | 8.87                     | 8.00                                 | 1577.50                                    |
|         | 08/03/06    | 3772.74                                     | 65.66                                         | 74.17                                           | 3706.06                                      | 8.51                     | 7.52                                 | 1585.02                                    |
|         | 08/09/06    | 3772.74                                     | 65.40                                         | 74.27                                           | 3706.28                                      | 8.87                     | 6.50                                 | 1591.52                                    |
|         | 08/11/06    | 3772.74                                     | 65.74                                         | 74.15                                           | 3705.99                                      | 8.41                     | 6.50                                 | 1598.02                                    |
|         | 08/15/06    | 3772.74                                     | 65.45                                         | 74.32                                           | 3706.23                                      | 8.87                     | 7.00                                 | 1605.02                                    |
|         | 08/18/06    | 3772.74                                     | 65.45                                         | 74.28                                           | 3706.23                                      | 8.83                     | 7.50                                 | 1612.52                                    |
|         | 08/25/06    | 3772.74                                     | 65.46                                         | 74.35                                           | 3706.21                                      | 8.89                     | 7.00                                 | 1619.52                                    |
|         | 08/30/06    | 3772.74                                     | 65.48                                         | 74.37                                           | 3706.19                                      | 8.89                     | 7.50                                 | 1627.02                                    |
|         | 09/12/06    | 3772.74                                     | NM                                            | NM                                              |                                              |                          | 0.00                                 | 1627.02                                    |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-4    | 09/15/06    | 3772.74                                     | 65.48                                         | 74.40                                           | 3706.19                                      | 8.92                     | 9.00                                 | 1636.02                                    |
|         | 09/20/06    | 3772.74                                     | 65.48                                         | 74.38                                           | 3706.19                                      | 8.90                     | 8.00                                 | 1644.02                                    |
|         | 09/26/06    | 3772.74                                     | 65.51                                         | 74.40                                           | 3706.16                                      | 8.89                     | 8.50                                 | 1652.52                                    |
|         | 09/29/06    | 3772.74                                     | 65.52                                         | 74.39                                           | 3706.16                                      | 8.87                     | 0.00                                 | 1652.52                                    |
|         | 10/04/06    | 3772.74                                     | 65.54                                         | 74.46                                           | 3706.13                                      | 8.92                     | 6.75                                 | 1659.27                                    |
|         | 10/06/06    | 3772.74                                     | 65.57                                         | 74.37                                           | 3706.11                                      | 8.80                     | 6.00                                 | 1665.27                                    |
|         | 10/12/06    | 3772.74                                     | 65.57                                         | 74.48                                           | 3706.10                                      | 8.91                     | 7.00                                 | 1672.27                                    |
|         | 10/17/06    | 3772.74                                     | 65.59                                         | 74.50                                           | 3706.08                                      | 8.91                     | 8.00                                 | 1680.27                                    |
|         | 10/20/06    | 3772.74                                     | 65.59                                         | 74.46                                           | 3706.09                                      | 8.87                     | 0.00                                 | 1680.27                                    |
|         | 10/24/06    | 3772.74                                     | 65.55                                         | 74.50                                           | 3706.12                                      | 8.95                     | 0.00                                 | 1680.27                                    |
|         | 10/26/06    | 3772.74                                     | 65.59                                         | 74.48                                           | 3706.08                                      | 8.89                     | 0.00                                 | 1680.27                                    |
|         | 11/22/06    | 3772.74                                     | 65.65                                         | 74.66                                           | 3706.01                                      | 9.01                     | 8.00                                 | 1688.27                                    |
|         | 11/28/06    | 3772.74                                     | 65.66                                         | 74.66                                           | 3706.00                                      | 9.00                     | 0.00                                 | 1688.27                                    |
|         | 12/06/06    | 3772.74                                     | 65.78                                         | 74.78                                           | 3705.88                                      | 9.00                     | 8.50                                 | 1696.77                                    |
|         | 12/08/06    | 3772.74                                     | 65.57                                         | 74.48                                           | 3706.10                                      | 8.91                     | 8.00                                 | 1704.77                                    |
|         | 12/12/06    | 3772.74                                     | 65.72                                         | 74.72                                           | 3705.94                                      | 9.00                     | 8.00                                 | 1712.77                                    |
|         | 12/15/06    | 3772.74                                     | 65.55                                         | 74.48                                           | 3706.12                                      | 8.93                     | 7.00                                 | 1719.77                                    |
|         | 12/20/06    | 3772.74                                     | NM                                            | NM                                              |                                              |                          | 0.00                                 | 1719.77                                    |
|         | 12/22/06    | 3772.74                                     | 65.78                                         | 74.82                                           | 3705.88                                      | 9.04                     | 0.00                                 | 1719.77                                    |
|         | 12/27/06    | 3772.74                                     | 65.8                                          | 74.82                                           | 3705.86                                      | 9.02                     | 0.00                                 | 1719.77                                    |
|         | 01/03/07    | 3772.74                                     | 65.85                                         | 74.89                                           | 3705.81                                      | 9.04                     | 0.00                                 | 1719.77                                    |
|         | 01/05/07    | 3772.74                                     | 65.85                                         | 74.84                                           | 3705.81                                      | 8.99                     | 0.00                                 | 1719.77                                    |
|         | 01/12/07    | 3772.74                                     | 65.88                                         | 74.88                                           | 3705.78                                      | 9.00                     | 8.30                                 | 1728.07                                    |
|         | 01/15/07    | 3772.74                                     | 65.92                                         | 74.88                                           | 3705.74                                      | 8.96                     | 0.00                                 | 1728.07                                    |
|         | 01/18/07    | 3772.74                                     | 65.90                                         | 74.92                                           | 3705.76                                      | 9.02                     | 7.00                                 | 1735.07                                    |
|         | 01/31/07    | 3772.74                                     | 65.90                                         | 74.98                                           | 3705.75                                      | 9.08                     | 0.00                                 | 1735.07                                    |
|         | 02/07/07    | 3772.74                                     | 65.81                                         | 74.84                                           | 3705.85                                      | 9.03                     | 7.00                                 | 1742.07                                    |
|         | 02/09/07    | 3772.74                                     | 66.03                                         | 74.84                                           | 3705.65                                      | 8.81                     | 8.00                                 | 1750.07                                    |
|         | 02/13/07    | 3772.74                                     | 65.98                                         | 74.93                                           | 3705.69                                      | 8.95                     | 13.00                                | 1763.07                                    |
|         | 02/16/07    | 3772.74                                     | 65.97                                         | 74.87                                           | 3705.70                                      | 8.90                     | 9.50                                 | 1772.57                                    |
|         | 02/19/07    | 3772.74                                     | 65.97                                         | 74.84                                           | 3705.71                                      | 8.87                     | 9.00                                 | 1781.57                                    |
|         | 02/21/07    | 3772.74                                     | 66.02                                         | 74.44                                           | 3705.71                                      | 8.42                     | 9.00                                 | 1790.57                                    |
|         | 02/26/07    | 3772.74                                     | 66.28                                         | 75.19                                           | 3705.39                                      | 8.91                     | 0.00                                 | 1790.57                                    |
|         | 03/13/07    | 3772.74                                     | 63.27                                         | 72.09                                           | 3708.41                                      | 8.82                     | 8.50                                 | 1799.07                                    |
|         | 03/14/07    |                                             | Plugged Well                                  |                                                 |                                              |                          |                                      |                                            |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NIMOD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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-4A   | 11/08/07    | Installed Well                           |                                         |                                           |                                        |                    |                                |                                   |
|         | 11/13/07    | 3770.64                                  | 68.70                                   | 68.94                                     | 3701.91                                | 0.24               |                                |                                   |
|         | 11/27/07    | 3770.64                                  | 68.61                                   | 69.88                                     | 3701.88                                | 1.27               |                                |                                   |
|         | 12/13/07    | 3770.64                                  | 68.38                                   | 80.2                                      | 3700.84                                | 11.82              | 11.50                          | 11.50                             |
|         | 12/17/07    | 3770.64                                  | 68.62                                   | 70.38                                     | 3701.81                                | 1.76               |                                | 11.50                             |
|         | 12/31/07    | 3770.64                                  | 68.16                                   | 72.71                                     | 3701.93                                | 4.55               | 4.00                           | 15.50                             |
|         | 01/16/08    | 3770.64                                  | 68.23                                   | 72.63                                     | 3701.88                                | 4.40               | 4.00                           | 19.50                             |
|         | 03/05/08    | 3770.64                                  | 67.58                                   | 76.52                                     | 3701.99                                | 8.94               | 0.00                           | 19.50                             |
|         | 03/26/08    | 3770.64                                  | 67.64                                   | 76.58                                     | 3701.93                                | 8.94               | 0.00                           | 19.50                             |
|         | 04/02/08    | 3770.64                                  | 67.72                                   | 76.63                                     | 3701.85                                | 8.91               | 0.00                           | 19.50                             |
| MW-5    | 04/04/08    | 3770.64                                  | 67.70                                   | 76.64                                     | 3701.87                                | 8.94               | 8.50                           | 28.00                             |
|         |             |                                          |                                         |                                           |                                        |                    |                                |                                   |
|         | 11/06/07    | Installed Well                           |                                         |                                           |                                        |                    |                                |                                   |
|         | 11/13/07    | 3768.85                                  | 66.26                                   | 67.62                                     | 3702.43                                | 1.36               |                                |                                   |
|         | 11/27/07    | 3768.85                                  | 65.36                                   | 70.91                                     | 3702.82                                | 5.55               |                                |                                   |
|         | 12/13/07    | 3768.85                                  | 65.26                                   | 72.21                                     | 3702.76                                | 6.95               | 6.50                           | 6.50                              |
|         | 12/17/07    | 3768.85                                  | 65.20                                   | 72.17                                     | 3702.81                                | 6.97               |                                | 6.50                              |
|         | 12/31/07    | 3768.85                                  | 65.21                                   | 72.29                                     | 3702.79                                | 7.08               | 6.50                           | 13.00                             |
|         | 01/16/08    | 3768.85                                  | 65.28                                   | 72.37                                     | 3702.72                                | 7.09               | 7.00                           | 20.00                             |
|         | 03/05/08    | 3768.85                                  | 65.41                                   | 72.50                                     | 3702.59                                | 7.09               | 0.00                           | 20.00                             |
| MW-6    | 03/26/08    | 3768.85                                  | 65.48                                   | 72.52                                     | 3702.53                                | 7.04               | 0.00                           | 20.00                             |
|         | 04/02/08    | 3768.85                                  | 65.55                                   | 72.61                                     | 3702.45                                | 7.06               | 0.00                           | 20.00                             |
|         | 04/04/08    | 3768.85                                  | 65.56                                   | 72.63                                     | 3702.44                                | 7.07               | 7.00                           | 27.00                             |
|         |             |                                          |                                         |                                           |                                        |                    |                                |                                   |
|         | 11/06/07    | Installed Well                           |                                         |                                           |                                        |                    |                                |                                   |
|         | 11/13/07    | 3769.50                                  | 66.27                                   | 75.46                                     | 3702.13                                | 9.19               |                                |                                   |
|         | 11/27/07    | 3769.50                                  | 66.08                                   | 75.29                                     | 3702.31                                | 9.21               |                                |                                   |
|         | 12/13/07    | 3769.50                                  | 66.10                                   | 75.36                                     | 3702.29                                | 9.26               | 9.00                           | 9.00                              |
|         | 12/17/07    | 3769.50                                  | 66.16                                   | 75.39                                     | 3702.23                                | 9.23               | 0.00                           | 9.00                              |
|         | 12/31/07    | 3769.50                                  | 66.19                                   | 75.42                                     | 3702.20                                | 9.23               | 9.00                           | 18.00                             |
|         | 01/16/08    | 3769.50                                  | 66.26                                   | 75.48                                     | 3702.13                                | 9.22               | 9.00                           | 27.00                             |
|         | 03/05/08    | 3769.50                                  | 66.40                                   | 75.61                                     | 3701.99                                | 9.21               | 0.00                           | 27.00                             |
|         | 03/26/08    | 3769.50                                  | 66.47                                   | 75.65                                     | 3701.93                                | 9.18               | 0.00                           | 27.00                             |
|         | 04/02/08    | 3769.50                                  | 66.52                                   | 75.71                                     | 3701.88                                | 9.19               | 0.00                           | 27.00                             |
|         | 04/04/08    | 3769.50                                  | 66.51                                   | 75.72                                     | 3701.88                                | 9.21               | 9.00                           | 36.00                             |
|         |             |                                          |                                         |                                           |                                        |                    |                                |                                   |
|         |             |                                          |                                         |                                           |                                        |                    |                                |                                   |
|         |             |                                          |                                         |                                           |                                        |                    |                                |                                   |
|         |             |                                          |                                         |                                           |                                        |                    |                                |                                   |
|         |             |                                          |                                         |                                           |                                        |                    |                                |                                   |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-7    | 11/06/07    | Installed Well                              |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/13/07    | 3770.20                                     | 68.16                                         | 70.54                                           | 3701.75                                      | 2.38                     |                                      |                                            |
|         | 11/27/07    | 3770.20                                     | 67.51                                         | 73.93                                           | 3701.92                                      | 6.42                     |                                      |                                            |
|         | 12/13/07    | 3770.20                                     | 67.30                                         | 75.02                                           | 3701.97                                      | 7.72                     | 7.50                                 | 7.50                                       |
|         | 12/17/07    | 3770.20                                     | 67.68                                         | 73.56                                           | 3701.81                                      | 5.88                     | 0.00                                 | 7.50                                       |
|         | 12/31/07    | 3770.20                                     | 67.37                                         | 75.08                                           | 3701.90                                      | 7.71                     | 7.00                                 | 14.50                                      |
|         | 01/16/08    | 3770.20                                     | 67.74                                         | 75.61                                           | 3701.52                                      | 7.87                     | 5.50                                 | 20.00                                      |
|         | 03/05/08    | 3770.20                                     | 67.56                                         | 75.39                                           | 3701.70                                      | 7.83                     | 0.00                                 | 20.00                                      |
|         | 03/26/08    | 3770.20                                     | 67.79                                         | 74.66                                           | 3701.59                                      | 6.87                     | 0.00                                 | 20.00                                      |
|         | 04/02/08    | 3770.20                                     | 67.89                                         | 75.30                                           | 3701.60                                      | 7.61                     | 0.00                                 | 20.00                                      |
| MW-8    | 04/04/08    | 3770.20                                     | 67.70                                         | 75.31                                           | 3701.59                                      | 7.61                     | 7.00                                 | 27.00                                      |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/06/07    | Installed Well                              |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/13/07    | 3768.09                                     | 65.52                                         | 73.36                                           | 3701.63                                      | 7.84                     |                                      |                                            |
|         | 11/27/07    | 3768.09                                     | 67.01                                         | 72.16                                           | 3700.46                                      | 5.15                     |                                      |                                            |
|         | 12/13/07    | 3768.09                                     | 63.26                                         | 73.17                                           | 3703.64                                      | 9.91                     | 9.50                                 | 9.50                                       |
|         | 12/17/07    | 3768.09                                     | 65.29                                         | 73.18                                           | 3701.85                                      | 7.89                     | 0.00                                 | 9.50                                       |
|         | 12/31/07    | 3768.09                                     | 65.36                                         | 73.24                                           | 3701.78                                      | 7.88                     | 7.00                                 | 16.50                                      |
|         | 01/16/08    | 3768.09                                     | 65.38                                         | 73.27                                           | 3701.76                                      | 7.89                     | 7.50                                 | 24.00                                      |
|         | 03/05/08    | 3768.09                                     | 65.53                                         | 73.45                                           | 3701.61                                      | 7.92                     | 0.00                                 | 24.00                                      |
| MW-9    | 03/26/08    | 3768.09                                     | 65.61                                         | 73.47                                           | 3701.54                                      | 7.86                     | 0.00                                 | 24.00                                      |
|         | 04/02/08    | 3768.09                                     | 65.65                                         | 73.54                                           | 3701.49                                      | 7.89                     | 0.00                                 | 24.00                                      |
|         | 04/04/08    | 3768.09                                     | 65.67                                         | 73.54                                           | 3701.48                                      | 7.87                     | 7.50                                 | 31.50                                      |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/07/07    | Installed Well                              |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/13/07    | 3767.64                                     | 64.07                                         | 72.74                                           | 3702.53                                      | 8.67                     |                                      |                                            |
|         | 11/27/07    | 3767.64                                     | 65.72                                         | 72.38                                           | 3701.12                                      | 6.66                     |                                      |                                            |
|         | 12/13/07    | 3767.64                                     | 64.17                                         | 73.11                                           | 3702.40                                      | 8.94                     | 8.50                                 | 8.50                                       |
|         | 12/17/07    | 3767.64                                     | 64.21                                         | 73.06                                           | 3702.37                                      | 8.85                     | 0.00                                 | 8.50                                       |
|         | 12/31/07    | 3767.64                                     | 64.23                                         | 73.06                                           | 3702.35                                      | 8.83                     | 8.00                                 | 16.50                                      |
|         | 01/16/08    | 3767.64                                     | 64.28                                         | 73.16                                           | 3702.29                                      | 8.88                     | 8.50                                 | 25.00                                      |
|         | 03/05/08    | 3767.64                                     | 64.44                                         | 73.30                                           | 3702.14                                      | 8.86                     | 0.00                                 | 25.00                                      |
|         | 03/26/08    | 3767.64                                     | 64.49                                         | 73.31                                           | 3702.09                                      | 8.82                     | 0.00                                 | 25.00                                      |
|         | 04/02/08    | 3767.64                                     | 64.54                                         | 73.39                                           | 3702.04                                      | 8.85                     | 0.00                                 | 25.00                                      |
|         | 04/04/08    | 3767.64                                     | 64.56                                         | 73.40                                           | 3702.02                                      | 8.84                     | 8.50                                 | 33.50                                      |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-10   | 11/07/07    | Installed Well                              |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/13/07    | 3767.51                                     | 64.94                                         | 66.57                                           | 3702.37                                      | 1.63                     |                                      |                                            |
|         | 11/27/07    | 3767.51                                     | 64.05                                         | 71.04                                           | 3702.62                                      | 6.99                     |                                      |                                            |
|         | 12/13/07    | 3767.51                                     | 63.92                                         | 72.03                                           | 3702.62                                      | 8.11                     | 8.00                                 | 8.00                                       |
|         | 12/17/07    | 3767.51                                     | 63.96                                         | 72.02                                           | 3702.58                                      | 8.06                     | 0.00                                 | 8.00                                       |
|         | 12/31/07    | 3767.51                                     | 63.94                                         | 72.09                                           | 3702.59                                      | 8.15                     | 8.00                                 | 16.00                                      |
|         | 01/16/08    | 3767.51                                     | 64.03                                         | 72.17                                           | 3702.50                                      | 8.14                     | 8.00                                 | 24.00                                      |
|         | 03/05/08    | 3767.51                                     | 64.19                                         | 72.32                                           | 3702.34                                      | 8.13                     | 0.00                                 | 24.00                                      |
|         | 03/26/08    | 3767.51                                     | 64.24                                         | 72.35                                           | 3702.30                                      | 8.11                     | 0.00                                 | 24.00                                      |
|         | 04/02/08    | 3767.51                                     | 64.29                                         | 72.42                                           | 3702.24                                      | 8.13                     | 0.00                                 | 24.00                                      |
|         | 04/04/08    | 3767.51                                     | 64.30                                         | 72.41                                           | 3702.24                                      | 8.11                     | 8.00                                 | 32.00                                      |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
| MW-11   | 11/07/07    | Installed Well                              |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/13/07    | 3769.37                                     | 66.58                                         | 68.13                                           | 3702.60                                      | 1.55                     |                                      |                                            |
|         | 11/27/07    | 3769.37                                     | 65.36                                         | 72.38                                           | 3703.17                                      | 7.02                     |                                      |                                            |
|         | 12/13/07    | 3769.37                                     | 65.39                                         | 72.82                                           | 3703.09                                      | 7.43                     | 7.00                                 | 7.00                                       |
|         | 12/17/07    | 3769.37                                     | 64.46                                         | 72.84                                           | 3703.90                                      | 8.38                     | 0.00                                 | 7.00                                       |
|         | 12/31/07    | 3769.37                                     | 65.77                                         | 72.90                                           | 3702.74                                      | 7.13                     | 7.00                                 | 14.00                                      |
|         | 01/16/08    | 3769.37                                     | 65.86                                         | 72.99                                           | 3702.65                                      | 7.13                     | 7.00                                 | 21.00                                      |
|         | 03/05/08    | 3769.37                                     | 65.98                                         | 73.10                                           | 3702.54                                      | 7.12                     | 0.00                                 | 21.00                                      |
|         | 03/26/08    | 3769.37                                     | 66.04                                         | 73.17                                           | 3702.47                                      | 7.13                     | 0.00                                 | 21.00                                      |
|         | 04/02/08    | 3769.37                                     | 66.10                                         | 73.24                                           | 3702.41                                      | 7.14                     | 0.00                                 | 21.00                                      |
|         | 04/04/08    | 3769.37                                     | 66.10                                         | 73.25                                           | 3702.41                                      | 7.15                     | 7.00                                 | 28.00                                      |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |



**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-12   | 11/07/07    | Installed Well                              |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/13/07    | 3769.68                                     | 67.36                                         | 68.13                                           | 3702.23                                      | 0.77                     |                                      |                                            |
|         | 11/27/07    | 3769.68                                     | 66.41                                         | 72.84                                           | 3702.50                                      | 6.43                     |                                      |                                            |
|         | 12/13/08    | 3769.68                                     | 66.16                                         | 73.31                                           | 3702.66                                      | 7.15                     | 7.00                                 | 7.00                                       |
|         | 12/17/07    | 3769.68                                     | 66.22                                         | 74.29                                           | 3702.49                                      | 8.07                     | 0.00                                 | 7.00                                       |
|         | 12/31/07    | 3769.68                                     | 66.23                                         | 74.36                                           | 3702.47                                      | 8.13                     | 8.00                                 | 15.00                                      |
|         | 01/16/08    | 3769.68                                     | 66.41                                         | 74.53                                           | 3702.30                                      | 8.12                     | 8.00                                 | 23.00                                      |
|         | 03/05/08    | 3769.68                                     | 66.44                                         | 74.58                                           | 3702.26                                      | 8.14                     | 0.00                                 | 23.00                                      |
|         | 03/26/08    | 3769.68                                     | 66.49                                         | 74.63                                           | 3702.21                                      | 8.14                     | 0.00                                 | 23.00                                      |
|         | 04/02/08    | 3769.68                                     | 66.57                                         | 74.71                                           | 3702.13                                      | 8.14                     | 0.00                                 | 23.00                                      |
|         | 04/04/08    | 3769.68                                     | 66.59                                         | 74.7                                            | 3702.12                                      | 8.11                     | 0.00                                 | 23.00                                      |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
| MW-13   | 11/08/07    | Installed Well                              |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/13/07    | 3771.14                                     |                                               | 69.50                                           | 3701.64                                      |                          |                                      |                                            |
|         | 11/27/07    | 3771.14                                     |                                               | 69.61                                           | 3701.53                                      |                          |                                      |                                            |
|         | 12/17/07    | 3771.14                                     |                                               | 69.66                                           | 3701.48                                      |                          |                                      |                                            |
|         | 12/19/07    | 3771.14                                     |                                               | 69.65                                           | 3701.49                                      |                          |                                      |                                            |
|         | 03/05/08    | 3771.14                                     | 69.74                                         | 70.88                                           | 3701.26                                      | 1.14                     | 0.00                                 | 0.00                                       |
|         | 03/26/08    | 3771.14                                     | 69.73                                         | 71.22                                           | 3701.23                                      | 1.49                     | 0.00                                 | 0.00                                       |
|         | 04/02/08    | 3771.14                                     | 69.45                                         | 71.37                                           | 3701.46                                      | 1.92                     | 0.00                                 | 0.00                                       |
|         | 04/04/08    | 3771.14                                     | 69.46                                         | 71.36                                           | 3701.45                                      | 1.90                     | 0.00                                 | 0.00                                       |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
| MW-14   | 11/08/07    | Installed Well                              |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/13/07    | 3771.62                                     |                                               | 70.34                                           | 3701.28                                      |                          |                                      |                                            |
|         | 11/27/07    | 3771.62                                     |                                               | 70.44                                           | 3701.18                                      |                          |                                      |                                            |
|         | 12/17/07    | 3771.62                                     |                                               | 70.48                                           | 3701.14                                      |                          |                                      |                                            |
|         | 12/19/07    | 3771.62                                     |                                               | 70.48                                           | 3701.14                                      |                          |                                      |                                            |
|         | 03/05/08    | 3771.62                                     |                                               | 70.78                                           | 3700.84                                      |                          |                                      |                                            |
|         | 03/26/08    | 3771.62                                     |                                               | 70.85                                           | 3700.77                                      |                          |                                      |                                            |
|         | 04/02/08    | 3771.62                                     |                                               | 70.74                                           | 3700.88                                      |                          |                                      |                                            |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |

**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**

8" Moore to Jal #1  
NMOCD REF. # 1R-0380  
LEA COUNTY, NEW MEXICO - SRS# 2002-10270  
Talon/LPE Project Number PLAINS007SPL

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-15   | 11/08/07    | Installed Well                              |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/13/07    | 3771.49                                     |                                               | 69.94                                           | 3701.55                                      |                          |                                      |                                            |
|         | 11/27/07    | 3771.49                                     | 69.70                                         | 70.07                                           | 3701.75                                      | 0.37                     |                                      |                                            |
|         | 12/13/07    | 3771.49                                     | 69.08                                         | 69.74                                           | 3703.21                                      | 1.66                     |                                      |                                            |
|         | 12/17/07    | 3771.49                                     | 69.67                                         | 70.59                                           | 3701.71                                      | 0.92                     |                                      |                                            |
|         | 12/31/08    | 3771.49                                     | 69.68                                         | 71.07                                           | 3701.64                                      | 1.39                     |                                      |                                            |
|         | 01/16/08    | 3771.49                                     | 69.82                                         | 71.42                                           | 3701.48                                      | 1.60                     |                                      |                                            |
|         | 03/05/08    | 3771.49                                     | 69.97                                         | 75.52                                           | 3701.73                                      | 6.55                     |                                      |                                            |
|         | 03/26/08    | 3771.49                                     | 68.85                                         | 76.27                                           | 3701.75                                      | 7.42                     |                                      |                                            |
|         | 04/02/08    | 3771.49                                     | 68.88                                         | 76.37                                           | 3701.71                                      | 7.49                     |                                      |                                            |
| MW-16   | 04/04/08    | 3771.49                                     | 68.89                                         | 76.36                                           | 3701.70                                      | 7.47                     |                                      |                                            |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/09/07    | Installed Well                              |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/13/07    | 3769.23                                     |                                               | 68.22                                           | 3701.01                                      |                          |                                      |                                            |
|         | 11/27/07    | 3769.23                                     |                                               | 68.23                                           | 3701.00                                      |                          |                                      |                                            |
|         | 12/17/07    | 3769.23                                     |                                               | 68.32                                           | 3700.91                                      |                          |                                      |                                            |
|         | 12/19/07    | 3769.23                                     |                                               | 68.31                                           | 3700.92                                      |                          |                                      |                                            |
|         | 03/05/08    | 3769.23                                     |                                               | 68.63                                           | 3700.60                                      |                          |                                      |                                            |
|         | 03/26/08    | 3769.23                                     |                                               | 66.58                                           | 3702.65                                      |                          |                                      |                                            |
|         | 04/02/08    | 3769.23                                     |                                               | 68.59                                           | 3700.64                                      |                          |                                      |                                            |
| MW-17   |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/13/07    | Installed Well                              |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/14/07    | 3767.45                                     |                                               | 64.61                                           | 3702.84                                      |                          |                                      |                                            |
|         | 11/27/07    | 3767.45                                     |                                               | 64.67                                           | 3702.78                                      |                          |                                      |                                            |
|         | 12/17/07    | 3767.45                                     |                                               | 64.41                                           | 3703.04                                      |                          |                                      |                                            |
|         | 12/20/07    | 3767.45                                     |                                               | 64.40                                           | 3703.05                                      |                          |                                      |                                            |
|         | 03/05/08    | 3767.45                                     |                                               | 65.02                                           | 3702.43                                      |                          |                                      |                                            |
|         | 03/26/08    | 3767.45                                     |                                               | 64.97                                           | 3702.48                                      |                          |                                      |                                            |
|         | 04/02/08    | 3767.45                                     |                                               | 64.99                                           | 3702.46                                      |                          |                                      |                                            |
|         |             |                                             |                                               |                                                 |                                              |                          |                                      |                                            |



**TABLE 5**  
**Summary of PSH Thickness & Gauging Measurements**  
**PLAINS PIPELINE, L.P.**  
**8" Moore to Jal #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO - SRS# 2002-10270**  
**Talon/LPE Project Number PLAINS007SPL**

| 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<br>(ft) | PSH Volume<br>Recovered<br>(gallons) | PSH<br>Cumulative<br>Recovery<br>(gallons) |
|---------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------|
| MW-18   | 11/13/07    | Installed Well                              |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/14/07    | 3769.79                                     |                                               | 71.39                                           | 3698.40                                      |                          |                                      |                                            |
|         | 11/27/07    | 3769.79                                     |                                               | 67.03                                           | 3702.76                                      |                          |                                      |                                            |
|         | 12/17/07    | 3769.79                                     |                                               | 67.05                                           | 3702.74                                      |                          |                                      |                                            |
|         | 12/20/07    | 3769.79                                     |                                               | 67.03                                           | 3702.76                                      |                          |                                      |                                            |
|         | 03/05/08    | 3769.79                                     |                                               | 67.36                                           | 3702.43                                      |                          |                                      |                                            |
|         | 03/26/08    | 3769.79                                     |                                               | 67.31                                           | 3702.48                                      |                          |                                      |                                            |
|         | 04/02/08    | 3769.79                                     |                                               | 67.33                                           | 3702.46                                      |                          |                                      |                                            |
| MW-19   | 11/13/07    | Installed Well                              |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/14/07    | 3773.35                                     |                                               | 71.49                                           | 3701.86                                      |                          |                                      |                                            |
|         | 11/27/07    | 3773.35                                     |                                               | 71.32                                           | 3702.03                                      |                          |                                      |                                            |
|         | 12/17/07    | 3773.35                                     |                                               | 71.39                                           | 3701.96                                      |                          |                                      |                                            |
|         | 12/20/07    | 3773.35                                     |                                               | 71.38                                           | 3701.97                                      |                          |                                      |                                            |
|         | 03/05/08    | 3773.35                                     |                                               | 71.74                                           | 3701.61                                      |                          |                                      |                                            |
|         | 03/26/08    | 3773.35                                     |                                               | 71.67                                           | 3701.68                                      |                          |                                      |                                            |
|         | 04/02/08    | 3773.35                                     |                                               | 71.65                                           | 3701.70                                      |                          |                                      |                                            |
| MW-20   | 11/13/07    | Installed Well                              |                                               |                                                 |                                              |                          |                                      |                                            |
|         | 11/14/07    | 3773.11                                     |                                               | 67.03                                           | 3706.08                                      |                          |                                      |                                            |
|         | 11/27/07    | 3773.11                                     |                                               | 71.64                                           | 3701.47                                      |                          |                                      |                                            |
|         | 12/17/07    | 3773.11                                     |                                               | 71.67                                           | 3701.44                                      |                          |                                      |                                            |
|         | 12/20/07    | 3773.11                                     |                                               | 71.66                                           | 3701.45                                      |                          |                                      |                                            |
|         | 03/05/08    | 3773.11                                     |                                               | 72.01                                           | 3701.10                                      |                          |                                      |                                            |
|         | 03/26/08    | 3773.11                                     |                                               | 71.93                                           | 3701.18                                      |                          |                                      |                                            |
|         | 04/02/08    | 3773.11                                     |                                               | 74.93                                           | 3698.18                                      |                          |                                      |                                            |

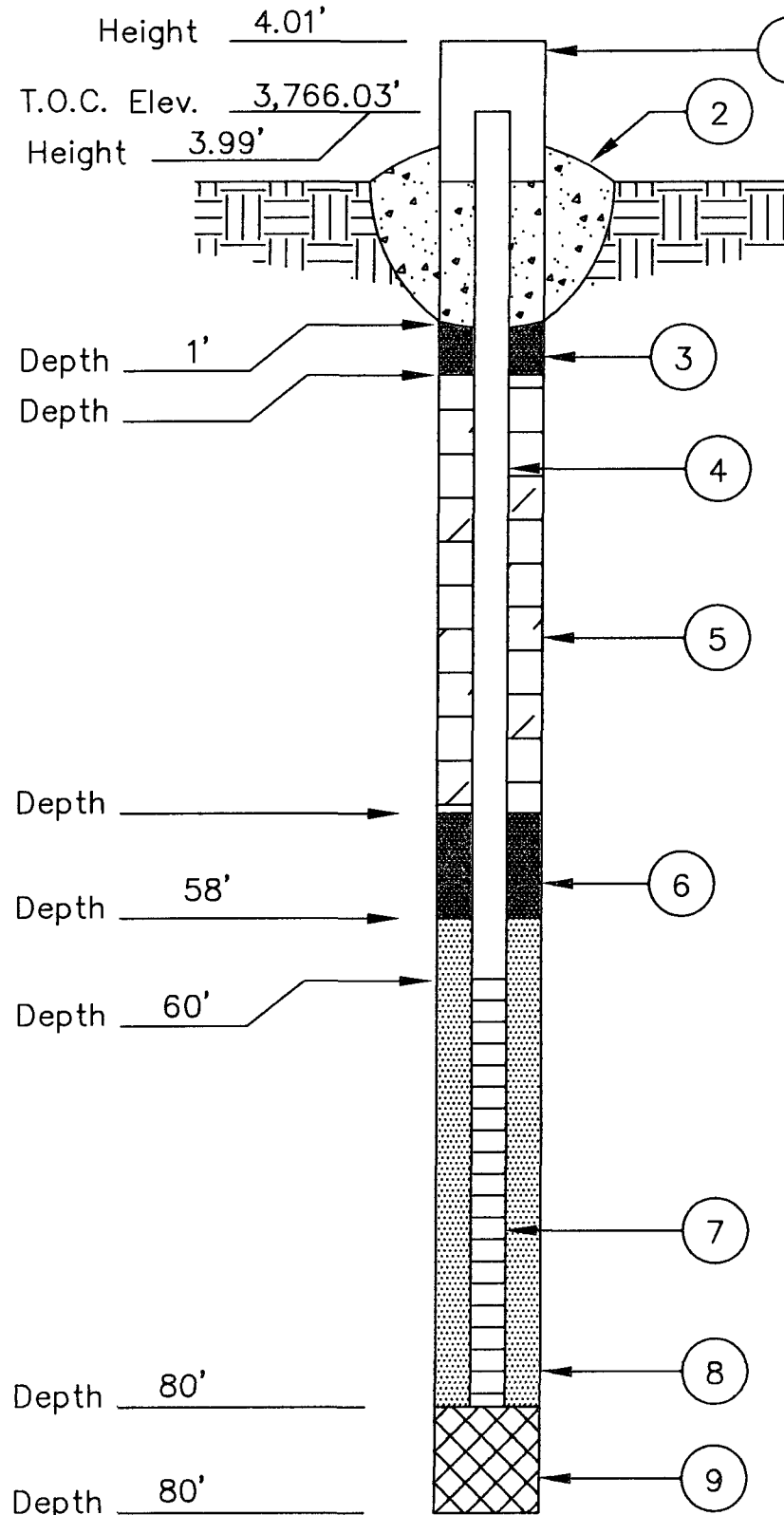
Existing wells now utilize new survey data back to 3/27/08

## **APPENDIX A**

### **Soil Boring and Well Completion Logs**

# Monitoring Well Construction Information Standard Well

Job No.: 2002-10270 Job Name: 8-Inch Moore to Jal #1 Boring / Well No. MW-1  
Date: 07/26/04 Field Representative: JR State Unique Well No. NA



- 1) Protective Casing ☒ Yes ☐ No  
Locking ☒ Yes ☐ No  
Protective Posts ☐ Yes ☒ No  
Concrete Pyramid ☐ Yes ☒ No
- 2) Concrete Seal ☒ Yes ☐ No
- 3) Type of Surface Seal if Installed 19 bags of Bentonite Plug
- 4) Solid Pipe Type PVC  
Solid Pipe Length 65 ft.  
Joint Type Slip/Glued or  
Threaded
- 5) Type of Backfill Bentonite Plug
- 6) Type of Lower Seal if Installed Bentonite Plug
- 7) Screen Type P.V.C.  
Screen Length 20 ft.  
Slot Size .010"  
Length 20 ft.  
Screen Diameter 4 in.
- 8) Type of Backfill around Screen 9 bags of 12/20 sand
- 9) Type of Backfill Native Soils
- 10) Drilling Method Air Rotary
- 11) Additives Used if any None
- 12) Borehole Diameter 8.5" in.

## Log Of Test Borings

(NOTE - Page 1 of 3)



**ENVIRONMENTAL PLUS, INC.**  
 STATE APPROVED LAND FARM AND  
 ENVIRONMENTAL SERVICES  
 EUNICE, NM  
 505-394-3481

Project Number: Plains All American Pipeline - 2002-10270

Project Name: 8-Inch Moore to Jal #1

Location: UL-F of Section 16, Township 17 South, Range 37 East

Boring Number: MW-1

Surface Elevation: 3,762.04'

Start Date: 07/26/04 Time: 1015

Completion Date: 07/26/04 Time: 1555

Description

CALICHE, White to Tan, Soft to Indurated

Tan to Red Brown, Soft, Fine to Medium-Grained SAND  
with some trace SILT, CLAY and PEBBLES

some CALICHE FRAGMENTS present

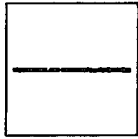
| Sample #<br>and Time | Sample<br>Type | Recovery<br>(inches) | Moisture | PID<br>Readings<br>(ppm) | U.S.C.S.<br>Symbol | Depth<br>(feet) |  |
|----------------------|----------------|----------------------|----------|--------------------------|--------------------|-----------------|--|
|                      |                |                      |          |                          |                    |                 |  |
|                      |                |                      |          |                          |                    | 5               |  |
| 1032                 | SS             | 24                   | Moist    | 2,982                    | -                  |                 |  |
|                      |                |                      |          |                          |                    | 10              |  |
|                      |                |                      |          |                          |                    |                 |  |
| 1033                 | Cuttings       | NA                   | Damp     | 2,565                    | -                  | 15              |  |
|                      |                |                      |          |                          |                    |                 |  |
|                      |                |                      |          |                          |                    | 20              |  |
| 1040                 | SS             | 22                   | Damp     | 1,574                    | -                  |                 |  |
|                      |                |                      |          |                          |                    |                 |  |
|                      |                |                      |          |                          |                    | 25              |  |
| 1041                 | Cuttings       | NA                   | Damp     | 1,558                    | SP                 |                 |  |
|                      |                |                      |          |                          |                    |                 |  |
|                      |                |                      |          |                          |                    | 30              |  |
| 1051                 | SS             | 24                   | Damp     | 1,160                    | SP                 |                 |  |
|                      |                |                      |          |                          |                    |                 |  |
|                      |                |                      |          |                          |                    | 35              |  |

(NOTE - Page 2 of 3)



## Log Of Test Borings

(NOTE - Page 3 of 3)



**ENVIRONMENTAL PLUS, INC.**  
 STATE APPROVED LAND FARM AND  
 ENVIRONMENTAL SERVICES  
 EUNICE, NM  
 505-394-3481

Project Number: Plains All American Pipeline - 2002-10270

Project Name: 8-Inch Moore to Jal #1

Location: UL-F of Section 16, Township 17 South, Range 37 East

Boring Number: MW-1

Surface Elevation: 3,762.04

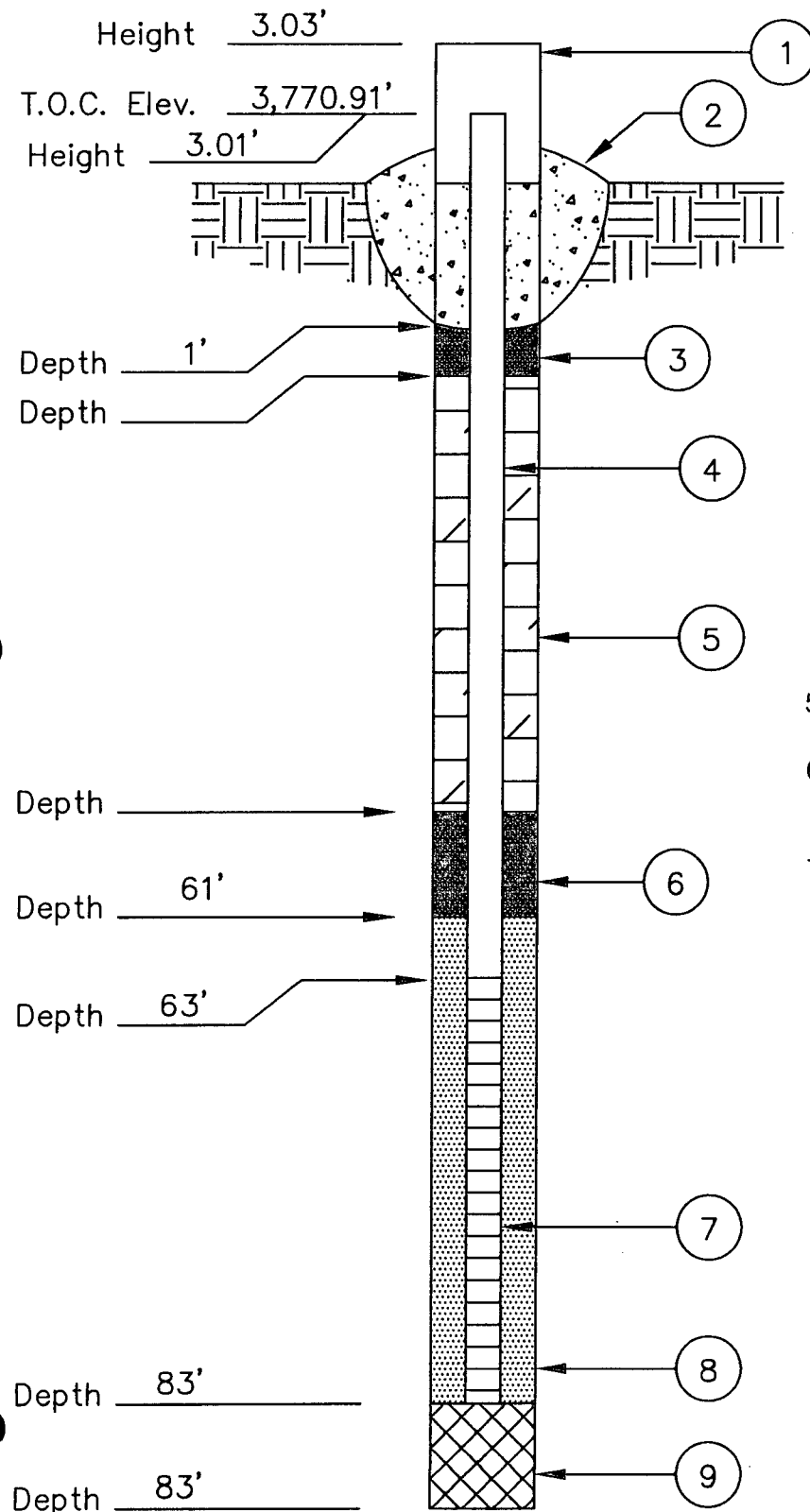
| Sample # and Time | Sample Type | Recovery (Inches) | Moisture | PID Readings (ppm) | U.S.C.S. Symbol | Depth (feet) | Start Date: <u>07/26/04</u> Time: <u>1015</u><br>Completion Date: <u>07/26/04</u> Time: <u>1555</u><br>Description |
|-------------------|-------------|-------------------|----------|--------------------|-----------------|--------------|--------------------------------------------------------------------------------------------------------------------|
| 1207              | SS          | 24                | Wet      | 1,543              | SP              | 75           | Oil present on sample                                                                                              |
|                   |             |                   |          |                    |                 | 80           |                                                                                                                    |
|                   |             |                   |          |                    |                 | 85           |                                                                                                                    |
|                   |             |                   |          |                    |                 | 90           |                                                                                                                    |
|                   |             |                   |          |                    |                 | 95           |                                                                                                                    |
|                   |             |                   |          |                    |                 | 100          |                                                                                                                    |
|                   |             |                   |          |                    |                 |              | End of Boring at 85'                                                                                               |

| Water Level Measurements (feet) |      |              |              |               |             | Drilling Method: Air Rotary 8.5" OD |
|---------------------------------|------|--------------|--------------|---------------|-------------|-------------------------------------|
| Date                            | Time | Sample Depth | Casing Depth | Cave-in Depth | Water Level | Backfill Method: MW-1 Installed     |
| 07/26/04                        | -    | -            | -            | -             | -           |                                     |
| 11/04/04                        | -    | -            | -            | -             | 58.46       |                                     |
|                                 |      |              |              |               |             | Field Representative: JR            |



# Monitoring Well Construction Information Standard Well

Job No.: 2002-10270 Job Name: 8-Inch Moore to Jal #1 Boring / Well No. MW-2  
Date: 10/23/04 Field Representative: JR State Unique Well No. NA



- 1) Protective Casing ☒ Yes ☐ No  
Locking ☒ Yes ☐ No  
Protective Posts Yes ☒ No  
Concrete Pyramid Yes ☒ No
- 2) Concrete Seal ☒ Yes ☐ No
- 3) Type of Surface Seal if Installed 36 bags of Bentonite Plug
- 4) Solid Pipe Type PVC  
Solid Pipe Length 63 ft.  
Joint Type Slip/Glued or Threaded Threaded
- 5) Type of Backfill Bentonite Plug
- 6) Type of Lower Seal if Installed Bentonite Plug
- 7) Screen Type P.V.C.  
Screen Length 20 ft.  
Slot Size .020"  
Length 20 ft.  
Screen Diameter 4 in.
- 8) Type of Backfill around Screen 14 bags of 12/20 sand
- 9) Type of Backfill Native Soils
- 10) Drilling Method 6.25" I.D. H.S.A.
- 11) Additives Used if any Water
- 12) Borehole Diameter 10.25" O.D. in.

## Log Of Test Borings

(NOTE - Page 1 of 3)



**ENVIRONMENTAL PLUS, INC.**  
 STATE APPROVED LAND FARM AND  
 ENVIRONMENTAL SERVICES  
 EUNICE, NM  
 505-394-3481

Project Number: Plains All American Pipeline - 2002-10270

Project Name: 8-Inch Moore to Jal #1

Location: UL-F of Section 16, Township 17 South, Range 37 East

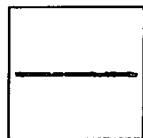
Boring Number: MW-2

Surface Elevation: 3,767.90'

| Sample #<br>and Time | Sample<br>Type | Recovery<br>(Inches) | Moisture | PID<br>Readings<br>(ppm) | U.S.C.S.<br>Symbol | Depth<br>(feet) | Start Date: <u>10/23/04</u> Time: <u>0745</u><br>Completion Date: <u>10/23/04</u> Time: <u>1830</u><br>Description |
|----------------------|----------------|----------------------|----------|--------------------------|--------------------|-----------------|--------------------------------------------------------------------------------------------------------------------|
|                      |                |                      |          |                          |                    |                 | 0.5' Sandy Loam Topsoil                                                                                            |
|                      |                |                      |          |                          |                    | 5               | CALICHE, White to Tan, Soft to Indurated                                                                           |
|                      |                |                      |          |                          |                    | 10              |                                                                                                                    |
|                      |                |                      |          |                          |                    | 15              |                                                                                                                    |
|                      |                |                      |          |                          |                    | 20              |                                                                                                                    |
|                      |                |                      |          |                          |                    | 25              |                                                                                                                    |
| 0827                 | CS             | 24                   | Dry      | 62.2                     | SP                 |                 | Intermix of CALICHE and underlying SAND                                                                            |
|                      |                |                      |          |                          |                    | 30              |                                                                                                                    |
| 0835                 | CS             | 36                   | Dry      | 59.8                     | SP                 |                 | Tan to Red Brown, Soft, Fine to Medium-Grained SAND<br>with some trace SILT, CLAY and PEBBLES                      |
|                      |                |                      |          |                          |                    | 35              |                                                                                                                    |

## Log Of Test Borings

(NOTE - Page 2 of 3)



**ENVIRONMENTAL PLUS, INC.**  
 STATE APPROVED LAND FARM AND  
 ENVIRONMENTAL SERVICES  
 EUNICE, NM  
 505-394-3481

Project Number: Plains All American Pipeline - 2002-10270

Project Name: 8-Inch Moore to Jal #1

Location: UL-F of Section 16, Township 17 South, Range 37 East

Boring Number: MW-2

Surface Elevation: 3,767.90'

Start Date: 10/23/04 Time: 0745

Completion Date: 10/23/04 Time: 1830

Description

| Sample #<br>and Time | Sample<br>Type | Recovery<br>(inches) | Moisture | PID<br>Readings<br>(ppm) | U.S.C.S.<br>Symbol | Depth<br>(feet) |                                            |
|----------------------|----------------|----------------------|----------|--------------------------|--------------------|-----------------|--------------------------------------------|
| 0853                 | CS             | 53                   | Dry      | 68.4                     | SP                 |                 | SAND is indurated                          |
| 0902                 | CS             | 28                   | Damp     | 53.7                     | SP                 | 40              |                                            |
| 0920                 | CS             | 60                   | Damp     | 73.3                     | SP                 | 45              |                                            |
| 0927                 | CS             | 54                   | Damp     | 224                      | SP                 | 50              | SAND is indurated                          |
| 0936                 | CS             | 50                   | Damp     | 1,838                    | SP                 | 55              | Bottom 6" of sample had a HYDROCARBON ODOR |
| 0946                 | CS             | 60                   | Moist    | 875                      | SP                 | 60              | Strong HYDROCARBON ODOR                    |
| 0958                 | CS             | 48                   | Wet      | 800                      | SP                 | 65              | Saturated with PSH and Water               |
|                      |                |                      |          |                          |                    | 70              |                                            |

## Log Of Test Borings

(NOTE - Page 3 of 3)



**ENVIRONMENTAL PLUS, INC.**  
 STATE APPROVED LAND FARM AND  
 ENVIRONMENTAL SERVICES  
 EUNICE, NM  
 505-394-3481

Project Number: Plains All American Pipeline - 2002-10270

Project Name: 8-Inch Moore to Jal #1

Location: UL-F of Section 16, Township 17 South, Range 37 East

Boring Number: MW-2

Surface Elevation: 3,767.90'

Start Date: 10/23/04 Time: 0745

Completion Date: 10/23/04 Time: 1830

Description

75

80

85

90

95

100

End of Boring at 83'

## Water Level Measurements (feet)

Drilling Method: Air Rotary 10.25" OD

Backfill Method: MW-2 Installed

Field Representative: JR

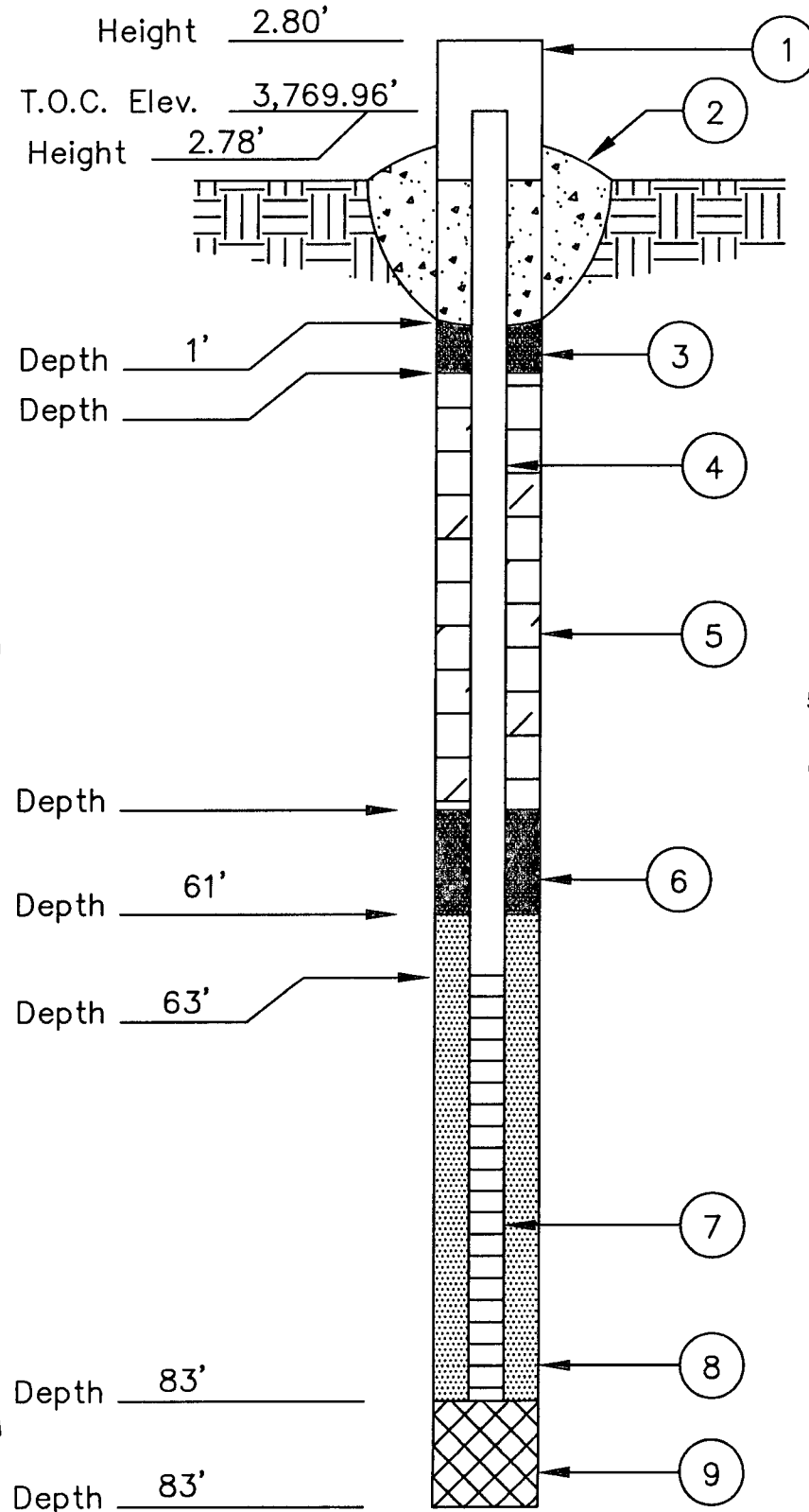
| Date     | Time | Sample Depth | Casing Depth | Cave-in Depth | Water Level |
|----------|------|--------------|--------------|---------------|-------------|
| 10/23/04 | 1500 | -            | -            | -             | -           |
| 11/04/04 | -    | -            | -            | -             | 65.44       |

# ENVIRONMENTAL PLUS, INC.

STATE APPROVED LAND FARM AND  
ENVIRONMENTAL SERVICES  
EUNICE, NM  
505-394-3481

## Monitoring Well Construction Information Standard Well

Job No.: 2002-10270 Job Name: 8-Inch Moore to Jal #1 Boring / Well No. MW-3  
Date: 10/23/04 Field Representative: JR State Unique Well No. NA



- 1) Protective Casing ☒ Yes ☐ No  
 Locking ☒ Yes ☐ No  
 Protective Posts ☐ Yes ☒ No  
 Concrete Pyramid ☐ Yes ☒ No
- 2) Concrete Seal ☒ Yes ☐ No
- 3) Type of Surface Seal if Installed 28 bags of Bentonite Plug
- 4) Solid Pipe Type PVC  
 Solid Pipe Length 63 ft.  
 Joint Type Slip/Glued or Threaded
- 5) Type of Backfill Bentonite Plug
- 6) Type of Lower Seal if Installed Bentonite Plug
- 7) Screen Type P.V.C.  
 Screen Length 20 ft.  
 Slot Size .020"  
 Length 20 ft.  
 Screen Diameter 4 in.
- 8) Type of Backfill around Screen 15.5 bags of 12/20 sand
- 9) Type of Backfill Native Soils
- 10) Drilling Method 6.25" I.D. H.S.A.
- 11) Additives Used if any Water
- 12) Borehole Diameter 10.25" O.D. in.

## Log Of Test Borings

(NOTE - Page 1 of 3)



**ENVIRONMENTAL PLUS, INC.**  
 STATE APPROVED LAND FARM AND  
 ENVIRONMENTAL SERVICES  
 EUNICE, NM  
 505-394-3481

Project Number: Plains All American Pipeline - 2002-10270

Project Name: 8-Inch Moore to Jal #1

Location: UL-F of Section 16, Township 17 South, Range 37 East

Boring Number: MW-3

Surface Elevation: 3,767.18'

| Sample #<br>and Time | Sample<br>Type | Recovery<br>(inches) | Moisture | PID<br>Readings<br>(ppm) | U.S.C.S.<br>Symbol | Depth<br>(feet) | Start Date: <u>10/24/04</u> Time: <u>0800</u><br>Completion Date: <u>10/24/04</u> Time: <u>1800</u><br>Description |
|----------------------|----------------|----------------------|----------|--------------------------|--------------------|-----------------|--------------------------------------------------------------------------------------------------------------------|
|                      |                |                      |          |                          |                    |                 | 0.5' Sandy Loam Topsoil                                                                                            |
|                      |                |                      |          |                          |                    | 5               |                                                                                                                    |
|                      |                |                      |          |                          |                    | 10              |                                                                                                                    |
|                      |                |                      |          |                          |                    | 15              |                                                                                                                    |
|                      |                |                      |          |                          |                    | 20              |                                                                                                                    |
| 0918                 | CS             | 24                   | Dry      | 12.1                     | SP                 | 25              | Intermix of CALICHE and underlying SAND                                                                            |
| 0923                 | CS             | 36                   | Dry      | 100                      | SP                 | 30              | Tan to Red Brown, Soft, Fine to Medium-Grained SAND<br>with some trace SILT, CLAY and PEBBLES                      |
| 0928                 | CS             | 36                   | Dry      | 40.3                     | SP                 | 35              |                                                                                                                    |



**ENVIRONMENTAL PLUS, INC.**  
 STATE APPROVED LAND FARM AND  
 ENVIRONMENTAL SERVICES  
 EUNICE, NM  
 505-394-3481

Project Number: Plains All American Pipeline - 2002-10270

Project Name: 8-Inch Moore to Jal #1

Location: UL-F of Section 16, Township 17 South, Range 37 East

Boring Number: MW-3

Surface Elevation: 3,767.18

| Sample #<br>and Time | Sample<br>Type | Recovery<br>(inches) | Moisture     | PID<br>Readings<br>(ppm) | U.S.C.S.<br>Symbol | Depth<br>(feet) | Start Date: <u>10/24/04</u> Time: <u>0800</u><br>Completion Date: <u>10/24/04</u> Time: <u>1800</u><br>Description |
|----------------------|----------------|----------------------|--------------|--------------------------|--------------------|-----------------|--------------------------------------------------------------------------------------------------------------------|
| 0936                 | CS             | 48                   | Dry          | 75.4                     | SP                 | 40              | Bottom 12" is indurated, tan SAND                                                                                  |
| 0949                 | CS             | 24                   | Dry/<br>Damp | 144                      | SP                 | 45              |                                                                                                                    |
| 0954                 | CS             | 60                   | Dry/<br>Damp | 216                      | SP                 | 50              |                                                                                                                    |
| 1000                 | CS             | 60                   | Dry/<br>Damp | 350                      | SP                 | 55              | Slight HYDROCARBON ODOR                                                                                            |
| 1009                 | CS             | 60                   | Dry/<br>Damp | 1,653                    | SP                 | 60              | Slight HYDROCARBON ODOR                                                                                            |
| 1019                 | CS             | 60                   | Wet          | 534                      | SP                 | 65              | Strong HYDROCARBON ODOR,<br>slight hydrocarbon sheen on probe surface                                              |
| 1034                 | CS             | 48                   | Wet          | 740                      | SP                 | 70              | Saturated with PSH and Water                                                                                       |

## Log Of Test Borings

(NOTE - Page 3 of 3)



**ENVIRONMENTAL PLUS, INC.**  
 STATE APPROVED LAND FARM AND  
 ENVIRONMENTAL SERVICES  
 EUNICE, NM  
 505-394-3481

Project Number: Plains All American Pipeline - 2002-10270

Project Name: 8-Inch Moore to Jal #1

Location: UL-F of Section 16, Township 17 South, Range 37 East

Boring Number: MW-3

Surface Elevation: 3,767.18

| Sample #<br>and Time | Sample<br>Type | Recovery<br>(inches) | Moisture | PID<br>Readings<br>(ppm) | U.S.C.S.<br>Symbol | Depth<br>(feet) | Start Date: <u>10/24/04</u> Time: <u>0800</u><br>Completion Date: <u>10/24/04</u> Time: <u>1800</u><br>Description |
|----------------------|----------------|----------------------|----------|--------------------------|--------------------|-----------------|--------------------------------------------------------------------------------------------------------------------|
|                      |                |                      |          |                          |                    | 75              |                                                                                                                    |
|                      |                |                      |          |                          |                    | 80              |                                                                                                                    |
|                      |                |                      |          |                          |                    | 85              | End of Boring at 83'                                                                                               |
|                      |                |                      |          |                          |                    | 90              |                                                                                                                    |
|                      |                |                      |          |                          |                    | 95              |                                                                                                                    |
|                      |                |                      |          |                          |                    | 100             |                                                                                                                    |

## Water Level Measurements (feet)

| Date     | Time | Sample<br>Depth | Casing<br>Depth | Cave-in<br>Depth | Water<br>Level | Drilling Method: Air Rotary 10.25" OD |
|----------|------|-----------------|-----------------|------------------|----------------|---------------------------------------|
| 10/24/04 | 1500 | -               | -               | -                | -              | Backfill Method: MW-3 Installed       |
| 10/29/04 | -    | -               | -               | -                | 72.15          | Field Representative: JR              |



# SOIL BORING / MONITORING WELL LOG

PROJECT: Moore to Jal #1  
 PROJECT NUMBER: PLAINS007SPL  
 CLIENT: Plains Marketing, LLP.  
 BORING / WELL NUMBER: MW-4A  
 TOTAL DEPTH: 95'  
 SURFACE ELEVATION: 3770.64'  
 GEOLOGIST: Marc Stroupe

DRILLING COMPANY: Talon/LPE  
 DRILLER: Jose Salas  
 DRILLING METHOD: Air Rotary  
 BORE HOLE DIAMETER: 7 7/8"  
 SCREEN: Diam. 4" Length 40' Slot Size 0.010"  
 CASING: Diam. 4" Length 50' Type PVC Sch 40  
 DATE DRILLED: November 08, 2007

PAGE 1 of 1

| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                                     | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|------------------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      |                                                                                                            | 0           |
|             |             |                   | 2.5          |         |                 | 6'                   | Caliche, Light Brown, 5YR 6/4, Cutting Returns - Silty Gravels, No Moisture, No Odor                       |             |
|             |             |                   | 0.02         |         |                 |                      | Caliche, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor                  |             |
|             |             |                   | 0.01         |         |                 |                      |                                                                                                            |             |
| 20          |             |                   | 0.02         |         |                 | 21'                  |                                                                                                            | 20          |
|             |             |                   | 2.7          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, Slight Odor       |             |
|             |             |                   | 1.2          |         |                 |                      |                                                                                                            |             |
|             |             |                   | 0.3          |         |                 |                      |                                                                                                            |             |
|             |             |                   | 0.2          |         |                 |                      |                                                                                                            | 40          |
|             |             |                   | 1.2          |         |                 |                      |                                                                                                            |             |
|             |             |                   | 1.1          |         |                 |                      |                                                                                                            |             |
|             |             |                   | 4.1          |         |                 | 56'                  |                                                                                                            |             |
|             |             |                   | 155          |         |                 | 61'                  | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, Odor              | 60          |
|             |             |                   | 491          |         | 65'-66'         | 66'                  | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, Strong Odor       |             |
|             |             |                   | 81           |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, Moist, Odor                    |             |
|             |             |                   | 30           |         |                 | 76'                  |                                                                                                            |             |
|             |             |                   | 22           |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Silty Gravels, Pea size Pebbles, Moist, Odor        | 80          |
|             |             |                   | 8.4          |         |                 | 86'                  |                                                                                                            |             |
|             |             |                   | 3.0          |         | 90'-91'         |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Silty Gravels, Pea size Pebbles, Moist, Slight Odor |             |
|             |             |                   | 2.0          |         |                 | 95'                  | Over Drill                                                                                                 |             |
|             |             |                   |              |         |                 |                      | Bottom of Hole                                                                                             | 100         |
| 100         |             |                   |              |         |                 |                      |                                                                                                            |             |
|             |             |                   |              |         |                 |                      |                                                                                                            |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                            | 120         |

## REMARKS:

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



# SOIL BORING / MONITORING WELL LOG

PROJECT: Moore to Jal #1  
 PROJECT NUMBER: PLAINS007SPL  
 CLIENT: Plains Marketing, LLP.  
 BORING / WELL NUMBER: MW-5  
 TOTAL DEPTH: 100'  
 SURFACE ELEVATION: 3768.85'  
 GEOLOGIST: Marc Stroupe

DRILLING COMPANY: Talon/LPE  
 DRILLER: Jose Salas  
 DRILLING METHOD: Air Rotary  
 BORE HOLE DIAMETER: 7 7/8"  
 SCREEN: Diam. 4" Length 40' Slot Size 0.010"  
 CASING: Diam. 4" Length 50' Type PVC Sch 40  
 DATE DRILLED: November 06, 2007

PAGE 1 of 1

| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                                          | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|-----------------------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      | Topsoil/Caliche, Light Brown, 5YR 6/4, Cutting Returns -Silty Gravels, No Moisture, No Odor                     | 0           |
| 0.2         |             |                   |              |         |                 | 6'                   |                                                                                                                 |             |
| 2.0         |             |                   |              |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor                |             |
| 3.4         |             |                   |              |         |                 |                      |                                                                                                                 |             |
| 20          |             |                   |              |         |                 |                      |                                                                                                                 | 20          |
| 1.0         |             |                   |              |         |                 |                      |                                                                                                                 |             |
| 1.1         |             |                   |              |         |                 |                      |                                                                                                                 |             |
| 3.0         |             |                   |              |         |                 |                      |                                                                                                                 |             |
| 1.5         |             |                   |              |         |                 |                      |                                                                                                                 |             |
| 0.8         |             |                   |              |         |                 |                      |                                                                                                                 | 40          |
| 0.7         |             |                   |              |         |                 |                      |                                                                                                                 |             |
| 0.7         |             |                   |              |         |                 | 51'                  |                                                                                                                 |             |
| 2.6         |             |                   |              |         |                 | 56'                  | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor                |             |
| 124         |             |                   |              |         |                 | 61'                  | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor                | 60          |
| 188         |             |                   |              |         | 65'-66'         |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, Odor                   |             |
| 11.4        |             |                   |              |         |                 | 71'                  |                                                                                                                 |             |
| 7.9         |             |                   |              |         |                 |                      | Sand/Sandstone, Light Olive Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, Slight Odor            |             |
| 5.8         |             |                   |              |         |                 |                      |                                                                                                                 | 80          |
| 4.5         |             |                   |              |         |                 | 86'                  |                                                                                                                 |             |
| 91.0        |             |                   |              |         | 90'-91'         |                      | Sand/Sandstone, Light Olive Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, Slight Odor Over Drill |             |
| 2.2         |             |                   |              |         |                 |                      |                                                                                                                 |             |
| 1.7         |             |                   |              |         |                 | 100'                 |                                                                                                                 | 100         |
|             |             |                   |              |         |                 |                      | Bottom of Hole                                                                                                  |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                                 | 120         |

## REMARKS:

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# SOIL BORING / MONITORING WELL LOG

|                                       |                                                                   |
|---------------------------------------|-------------------------------------------------------------------|
| PROJECT: <u>Moore to Jal #1</u>       | DRILLING COMPANY: <u>Talon/LPE</u>                                |
| PROJECT NUMBER: <u>PLAINS007SPL</u>   | DRILLER: <u>Jose Salas</u>                                        |
| CLIENT: <u>Plains Marketing, LLP.</u> | DRILLING METHOD: <u>Air Rotary</u>                                |
| BORING / WELL NUMBER: <u>MW-6</u>     | BORE HOLE DIAMETER: <u>7 7/8"</u>                                 |
| TOTAL DEPTH: <u>100'</u>              | SCREEN: Diam. <u>4"</u> Length <u>40'</u> Slot Size <u>0.010"</u> |
| SURFACE ELEVATION: <u>3769.50'</u>    | CASING: Diam. <u>4"</u> Length <u>50'</u> Type <u>PVC Sch 40</u>  |
| GEOLOGIST: <u>Marc Stroupe</u>        | DATE DRILLED: <u>November 06, 2007</u>                            |

PAGE 1 of 1

| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                         | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      |                                                                                                | 0           |
|             |             |                   | 110          |         |                 | 6'                   | Caliche, Light Brown, 5YR 6/4, Cutting Returns -Silty Gravels, No Moisture, No Odor            |             |
|             |             |                   | 1050         |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, Moist, Odor        |             |
| 20          |             |                   | 1060         |         |                 |                      |                                                                                                | 20          |
|             |             |                   | 800          |         |                 |                      |                                                                                                |             |
|             |             |                   | 1150         |         |                 |                      |                                                                                                |             |
|             |             |                   | 550          |         |                 |                      |                                                                                                |             |
|             |             |                   | 1250         |         |                 |                      |                                                                                                |             |
| 40          |             |                   | 1200         |         |                 |                      |                                                                                                | 40          |
|             |             |                   | 425          |         |                 |                      |                                                                                                |             |
|             |             |                   | 540          |         |                 |                      |                                                                                                |             |
|             |             |                   | 530          |         |                 |                      |                                                                                                |             |
| 60          |             |                   | 520          |         |                 | 61'                  |                                                                                                | 60          |
|             |             |                   | 1820         | 65'-66' |                 |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, Moist, Strong Odor |             |
|             |             |                   | 200          |         |                 | 70'                  | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, Moist, Strong Odor |             |
|             |             |                   | 138          |         |                 | 76'                  | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, Moist, Strong Odor |             |
| 80          |             |                   | 80           |         |                 |                      |                                                                                                | 80          |
|             |             |                   | 100          |         |                 |                      |                                                                                                |             |
|             |             |                   | 61           | 90'-91' |                 | 91'                  | Over Drill                                                                                     |             |
|             |             |                   | 20           |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, Damp, Strong Odor  |             |
| 100         |             |                   | 65           |         |                 | 100'                 |                                                                                                | 100         |
|             |             |                   |              |         |                 |                      | Bottom of Hole                                                                                 |             |
|             |             |                   |              |         |                 |                      |                                                                                                |             |
|             |             |                   |              |         |                 |                      |                                                                                                |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                | 120         |

REMARKS:

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



# SOIL BORING / MONITORING WELL LOG

PROJECT: Moore to Jal #1  
 PROJECT NUMBER: PLAINS007SPL  
 CLIENT: Plains Marketing, LLP.  
 BORING / WELL NUMBER: MW-7  
 TOTAL DEPTH: 100'  
 SURFACE ELEVATION: 3770.20'  
 GEOLOGIST: Marc Stroupe

DRILLING COMPANY: Talon/LPE  
 DRILLER: Jose Salas  
 DRILLING METHOD: Air Rotary  
 BORE HOLE DIAMETER: 7 7/8"  
 SCREEN: Diam. 4" Length 40' Slot Size 0.010"  
 CASING: Diam. 4" Length 44' Type PVC Sch 40  
 DATE DRILLED: November 06, 2007

PAGE 1 of 1

| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                                      | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|-------------------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      | Caliche, Dark Reddish Brown, 10R 3/4, Poorly Graded Sands, No Moisture, No Odor                             | 0           |
|             |             |                   | 0.7          |         |                 | 6'                   | Sand/Sandstone, Light Moderate Red, 5R 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, Odor         |             |
|             |             |                   | 560          |         |                 | 11'                  | Sand/Sandstone, Dark Reddish Brown, 5R 2/4, Cutting Returns - Poorly Graded Sands, No Moisture, Strong Odor |             |
|             |             |                   | 880          |         |                 | 16'                  | Sand/Sandstone, Light Moderate Red, 5R 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, Odor         | 20          |
| 20          |             |                   | 157          |         |                 | 21'                  | Sand/Sandstone, Light Brown, 5R 6/4, Cutting Returns -Poorly Graded Sands, Moist, Odor                      |             |
|             |             |                   | 440          |         |                 |                      |                                                                                                             |             |
|             |             |                   | 440          |         |                 |                      |                                                                                                             |             |
|             |             |                   | 480          |         |                 |                      |                                                                                                             |             |
| 40          |             |                   | 740          |         |                 |                      |                                                                                                             | 40          |
|             |             |                   | 660          |         |                 |                      |                                                                                                             |             |
|             |             |                   | 48           |         |                 |                      |                                                                                                             |             |
|             |             |                   | 32           |         |                 |                      |                                                                                                             |             |
| 60          |             |                   | 62           |         |                 |                      |                                                                                                             | 60          |
|             |             |                   | 930          |         | 65'-66'         | 66'                  | Sand/Sandstone, Light Brown, 5YR 1/4, Cutting Returns -Poorly Graded Sands, Moist, Strong Odor              |             |
|             |             |                   | 110          |         |                 | 71'                  | Sand/Sandstone, Light Brown, 5R 6/4, Cutting Returns -Poorly Graded Sands, Moist, Odor                      |             |
|             |             |                   | 110          |         |                 |                      |                                                                                                             |             |
| 80          |             |                   | 190          |         |                 | 81'                  | Sand/Sandstone, Light Brown, 5R 6/4, Cutting Returns -Poorly Graded Gravels, Damp, Odor                     | 80          |
|             |             |                   | 27           |         |                 | 86'                  | Over Drill                                                                                                  |             |
|             |             |                   | 20           |         | 90'-91'         |                      | Sand/Sandstone, Light Brown, 5R 6/4, Cutting Returns -Poorly Graded Sands, Moist, Odor                      |             |
|             |             |                   | 10           |         |                 |                      |                                                                                                             |             |
| 100         |             |                   | 3.2          |         |                 | 100'                 | Bottom of Hole                                                                                              | 100         |
|             |             |                   |              |         |                 |                      |                                                                                                             |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                             | 120         |

## REMARKS:

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



# SOIL BORING / MONITORING WELL LOG

PROJECT: Moore to Jal #1

DRILLING COMPANY: Talon/LPE

PROJECT NUMBER: PLAINS007SPL

DRILLER: Jose Salas

CLIENT: Plains Marketing, LLP.

DRILLING METHOD: Air Rotary

BORING / WELL NUMBER: MW-8

BORE HOLE DIAMETER: 7 7/8"

TOTAL DEPTH: 100'

SCREEN: Diam. 4" Length 40' Slot Size 0.010"

SURFACE ELEVATION: 3768.09'

CASING: Diam. 4" Length 50' Type PVC Sch 40

GEOLOGIST: Marc Stroupe

DATE DRILLED: November 06, 2007

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| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                         | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      |                                                                                                | 0           |
|             |             |                   | 0.2          |         |                 | 6'                   | Caliche, Light Brown, 5YR 6/4, Cutting Returns -Silty Gravels, No Moisture, No Odor            |             |
|             |             |                   | 0.9          |         |                 | 11'                  | Caliche, Light Brown, 5YR 6/4, Cutting Returns -Silty Gravels, No Moisture, Slight Odor        |             |
|             |             |                   | 0.8          |         |                 | 16'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, Odor        |             |
| 20          |             |                   | 0.7          |         |                 | 21'                  | Sand/Sandstone, Light Brown, 5YR 4/6, Cutting Returns -Silty Gravels, No Moisture, No Odor     | 20          |
|             |             |                   | 1.7          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, No Moisture, No Odor     |             |
|             |             |                   | 1.1          |         |                 |                      |                                                                                                |             |
|             |             |                   | 1.2          |         |                 |                      |                                                                                                |             |
| 40          |             |                   | 1.1          |         |                 | 41'                  |                                                                                                | 40          |
|             |             |                   | 2.1          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, Strong Odor |             |
|             |             |                   | 2.6          |         |                 |                      |                                                                                                |             |
|             |             |                   | 6.2          |         |                 |                      |                                                                                                |             |
| 60          |             |                   | 23           |         |                 | 61'                  |                                                                                                | 60          |
|             |             |                   | 3000         |         | 65'-66'         | 66'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Moist, Strong Odor       |             |
|             |             |                   | 140          |         |                 | 71'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, Odor        |             |
|             |             |                   | 52           |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Silty Gravels, Moist, Odor              |             |
| 80          |             |                   | 49           |         |                 | 81'                  |                                                                                                | 80          |
|             |             |                   | 56           |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Silty Gravels, Damp, Odor               |             |
|             |             |                   | 8.8          |         | 90'-91'         |                      | Over Drill                                                                                     |             |
|             |             |                   | 27           |         |                 | 96'                  |                                                                                                |             |
| 100         |             |                   | 8.2          |         |                 | 100'                 | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Silty Gravels, Moist, Odor              | 100         |
|             |             |                   |              |         |                 |                      | Bottom of Hole                                                                                 |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                | 120         |

## REMARKS:

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



# SOIL BORING / MONITORING WELL LOG

|                                       |                                                                   |
|---------------------------------------|-------------------------------------------------------------------|
| PROJECT: <u>Moore to Jal #1</u>       | DRILLING COMPANY: <u>Talon/LPE</u>                                |
| PROJECT NUMBER: <u>PLAINS007SPL</u>   | DRILLER: <u>Jose Salas</u>                                        |
| CLIENT: <u>Plains Marketing, LLP.</u> | DRILLING METHOD: <u>Air Rotary</u>                                |
| BORING / WELL NUMBER: <u>MW-9</u>     | BORE HOLE DIAMETER: <u>7 7/8"</u>                                 |
| TOTAL DEPTH: <u>100'</u>              | SCREEN: Diam. <u>4"</u> Length <u>40'</u> Slot Size <u>0.010"</u> |
| SURFACE ELEVATION: <u>3767.64'</u>    | CASING: Diam. <u>4"</u> Length <u>50'</u> Type <u>PVC Sch 40</u>  |
| GEOLOGIST: <u>Marc Stroupe</u>        | DATE DRILLED: <u>November 07, 2007</u>                            |

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| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                           | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|--------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      |                                                                                                  | 0           |
|             |             |                   | 0.4          |         |                 | 6'                   | Caliche, Light Brown, 5YR 6/4, Cutting Returns -Silty Gravels, No Moisture, No Odor              |             |
|             |             |                   | 0.9          |         |                 | 11'                  | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor |             |
|             |             |                   | 6.8          |         |                 | 16'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Odor                 |             |
| 20          |             |                   | 0.6          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 4/6, Cutting Returns -Poorly Graded Sands, No Moisture, Odor    | 20          |
|             |             |                   | 2.1          |         |                 |                      |                                                                                                  |             |
|             |             |                   | 12.4         |         |                 |                      |                                                                                                  |             |
|             |             |                   | 8.6          |         |                 |                      |                                                                                                  |             |
| 40          |             |                   | 5.2          |         |                 |                      |                                                                                                  | 40          |
|             |             |                   | 6.5          |         |                 |                      |                                                                                                  |             |
|             |             |                   | 4.9          |         |                 |                      |                                                                                                  |             |
|             |             |                   | 162          |         |                 |                      |                                                                                                  |             |
| 60          |             |                   | 1180         |         |                 | 61'                  |                                                                                                  | 60          |
|             |             |                   | 1300         |         | 65'-66'         | 66'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, Strong Odor   |             |
|             |             |                   | 261          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, Strong Odor   |             |
|             |             |                   | 320          |         |                 |                      |                                                                                                  |             |
| 80          |             |                   | 200          |         |                 | 81'                  |                                                                                                  | 80          |
|             |             |                   | 55           |         |                 | 86'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Sandy Gravels, Moist, Strong Odor         |             |
|             |             |                   | 53           |         | 90'-91'         | 91'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, Odor          |             |
|             |             |                   | 56           |         |                 | 96'                  | Over Drill                                                                                       |             |
|             |             |                   | 22           |         |                 | 100'                 | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, Damp, Odor           |             |
| 100         |             |                   |              |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, Moist, Odor          | 100         |
|             |             |                   |              |         |                 |                      | Bottom of Hole                                                                                   |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                  | 120         |

## REMARKS:

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



# SOIL BORING / MONITORING WELL LOG

|                                       |                                                                   |
|---------------------------------------|-------------------------------------------------------------------|
| PROJECT: <u>Moore to Jal #1</u>       | DRILLING COMPANY: <u>Talon/LPE</u>                                |
| PROJECT NUMBER: <u>PLAINS007SPL</u>   | DRILLER: <u>Jose Salas</u>                                        |
| CLIENT: <u>Plains Marketing, LLP.</u> | DRILLING METHOD: <u>Air Rotary</u>                                |
| BORING / WELL NUMBER: <u>MW-10</u>    | BORE HOLE DIAMETER: <u>7 7/8"</u>                                 |
| TOTAL DEPTH: <u>95'</u>               | SCREEN: Diam. <u>4"</u> Length <u>40'</u> Slot Size <u>0.010"</u> |
| SURFACE ELEVATION: <u>3767.51'</u>    | CASING: Diam. <u>4"</u> Length <u>50'</u> Type <u>PVC Sch 40</u>  |
| GEOLOGIST: <u>Marc Stroupe</u>        | DATE DRILLED: <u>November 07, 2007</u>                            |

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| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                               | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|------------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      | Caliche, Light Brown, 5YR 6/4, Cutting Returns -Silty Gravels, No Moisture, No Odor                  | 0           |
|             |             |                   | 3.2          |         |                 |                      |                                                                                                      |             |
|             |             |                   | 3.4          |         |                 | 11'                  |                                                                                                      |             |
|             |             |                   | 1.4          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, Odor        |             |
| 20          |             |                   | 2.4          |         |                 |                      |                                                                                                      | 20          |
|             |             |                   | 0.9          |         |                 |                      |                                                                                                      |             |
|             |             |                   | 3.1          |         |                 |                      |                                                                                                      |             |
|             |             |                   | 5.1          |         |                 |                      |                                                                                                      |             |
| 40          |             |                   | 2.0          |         |                 |                      |                                                                                                      | 40          |
|             |             |                   | 2.6          |         |                 |                      |                                                                                                      |             |
|             |             |                   | 6.5          |         |                 |                      |                                                                                                      |             |
|             |             |                   | 317          |         |                 | 56'                  |                                                                                                      |             |
| 60          |             |                   | 1050         | 60'-61' |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, Strong Odor | 60          |
|             |             |                   | 650          | 65'-66' | 66'             |                      |                                                                                                      |             |
|             |             |                   | 277          |         | 71'             |                      | Sand/Sandstone, Light Brown, 5YR 4/6, Cutting Returns -Poorly Graded Sands, No Moisture, Odor        |             |
|             |             |                   | 64           |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, Odor              |             |
| 80          |             |                   | 49           |         |                 |                      |                                                                                                      | 80          |
|             |             |                   | 22           |         |                 |                      |                                                                                                      |             |
|             |             |                   | 18           | 90'-91' |                 |                      | Over Drill                                                                                           |             |
|             |             |                   | 12           |         | 95'             |                      | Bottom of Hole                                                                                       |             |
| 100         |             |                   |              |         |                 |                      |                                                                                                      | 100         |
|             |             |                   |              |         |                 |                      |                                                                                                      |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                      | 120         |

**REMARKS:**

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



# SOIL BORING / MONITORING WELL LOG

|                                      |                                                                  |
|--------------------------------------|------------------------------------------------------------------|
| PROJECT: <u>Moore to Jal #1</u>      | DRILLING COMPANY: <u>Talon/LPE</u>                               |
| PROJECT NUMBER: <u>PLAINS007SPL</u>  | DRILLER: <u>Jose Salas</u>                                       |
| CLIENT: <u>Plains Marketing, LLP</u> | DRILLING METHOD: <u>Air Rotary</u>                               |
| BORING / WELL NUMBER: <u>MW-11</u>   | BORE HOLE DIAMETER: <u>7 7/8"</u>                                |
| TOTAL DEPTH: <u>95'</u>              | SCREEN: Diam. _____ Length <u>40'</u> Slot Size <u>0.010"</u>    |
| SURFACE ELEVATION: _____             | CASING: Diam. <u>4"</u> Length <u>50'</u> Type <u>PVC Sch 40</u> |
| GEOLOGIST: <u>Marc Stroupe</u>       | DATE DRILLED: <u>November 07, 2007</u>                           |

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| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                                 | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|--------------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      | Caliche, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor              | 0           |
|             |             |                   | 4.3          |         |                 |                      |                                                                                                        |             |
|             |             |                   | 1.3          |         |                 |                      |                                                                                                        |             |
|             |             |                   | 1.5          |         |                 |                      |                                                                                                        |             |
| 20          |             |                   | 0.2          |         |                 |                      |                                                                                                        | 20          |
|             |             |                   | 1.0          |         |                 |                      |                                                                                                        |             |
|             |             |                   | 0.9          |         |                 | 31'                  |                                                                                                        |             |
|             |             |                   | 4.4          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, Slight Odor   |             |
| 40          |             |                   | 2.0          |         |                 |                      |                                                                                                        | 40          |
|             |             |                   | 2.4          |         |                 |                      |                                                                                                        |             |
|             |             |                   | 4.9          |         |                 |                      |                                                                                                        |             |
|             |             |                   | 96           |         |                 | 56'                  |                                                                                                        |             |
| 60          |             |                   | 550          |         |                 | 61'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, Odor          | 60          |
|             |             |                   | 1200         |         | 65'-66'         | 66'                  | Sand/Sandstone, Light Brown, 5YR 4/6, Cutting Returns -Poorly Graded Sands, Moist, Strong Odor         |             |
|             |             |                   | 570          |         |                 | 71'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, Odor                |             |
|             |             |                   | 52           |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Marble Size Pebbles, Moist, Odor |             |
| 80          |             |                   | 45           |         |                 |                      |                                                                                                        | 80          |
|             |             |                   | 6.0          |         |                 | 86'                  |                                                                                                        |             |
|             |             |                   | 10           |         | 90'-91'         |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, Odor                |             |
|             |             |                   | 11           |         |                 | 95'                  | Over Drill                                                                                             |             |
| 100         |             |                   |              |         |                 |                      | Bottom of Hole                                                                                         | 100         |
|             |             |                   |              |         |                 |                      |                                                                                                        |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                        | 120         |

**REMARKS:**

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





# SOIL BORING / MONITORING WELL LOG

PROJECT: Moore to Jal #1

DRILLING COMPANY: Talon/LPE

PROJECT NUMBER: PLAINS007SPL

DRILLER: Jose Salas

CLIENT: Plains Marketing, LLP.

DRILLING METHOD: Air Rotary

BORING / WELL NUMBER: MW-12

BORE HOLE DIAMETER: 7 7/8"

TOTAL DEPTH: 100'

SCREEN: Diam.      Length      40'      Slot Size      0.010"

SURFACE ELEVATION:

CASING: Diam. 4" Length 50' Type PVC Sch 40

GEOLOGIST: Marc Stroupe

DATE DRILLED: November 07, 2007

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| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                                       | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|--------------------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      |                                                                                                              | 0           |
| 2.5         |             |                   |              |         |                 |                      | Caliche, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor                    |             |
| 1.1         |             |                   |              |         |                 |                      |                                                                                                              |             |
| 0.2         |             |                   |              |         |                 |                      |                                                                                                              |             |
| 20          |             |                   |              |         |                 |                      |                                                                                                              | 20          |
| 2.2         |             |                   |              |         |                 |                      |                                                                                                              |             |
| 1.1         |             |                   |              |         |                 |                      |                                                                                                              |             |
| 1.1         |             |                   |              |         | 31'             |                      |                                                                                                              |             |
| 2.3         |             |                   |              |         | 36'             |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, Slight Odor         |             |
| 0.7         |             |                   |              |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, Odor                | 40          |
| 0.7         |             |                   |              |         |                 |                      |                                                                                                              |             |
| 1.9         |             |                   |              |         |                 |                      |                                                                                                              |             |
| 2.5         |             |                   |              |         |                 |                      |                                                                                                              |             |
| 360         |             |                   |              |         | 61'             |                      |                                                                                                              | 60          |
| 1900        |             |                   |              |         | 61'             |                      | Sand/Sandstone, Light Brown, 5YR 4/6, Cutting Returns -Poorly Graded Sands, No Moisture, Strong Odor         |             |
| 66.0        |             |                   |              | 65'-66' | 71'             |                      | Sand/Sandstone, Light Brown, 5YR 4/6, Cutting Returns -Poorly Graded Sands, Moist, Strong Odor               |             |
| 188         |             |                   |              |         | 76'             |                      | Sand/Sandstone, Light Brown, 5YR 4/6, Cutting Returns -Poorly Graded Sands, Moist, Odor                      |             |
| 50          |             |                   |              |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Small Marble Size Pebbles, Moist, Odor | 80          |
| 14          |             |                   |              |         |                 |                      |                                                                                                              |             |
| 13          |             |                   |              |         | 90'-91'         | 91'                  | Over Drill                                                                                                   |             |
| 6.5         |             |                   |              |         |                 | 96'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, Odor                      |             |
| 1.2         |             |                   |              |         | 100'            |                      | Bottom of Hole                                                                                               | 100         |
|             |             |                   |              |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 4/6, Cutting Returns -Poorly Graded Sands, Moist, Slight Odor               |             |
|             |             |                   |              |         |                 |                      |                                                                                                              |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                              | 120         |

REMARKS:

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



# SOIL BORING / MONITORING WELL LOG

PROJECT: Moore to Jal #1  
 PROJECT NUMBER: PLAINS007SPL  
 CLIENT: Plains Marketing, LLP.  
 BORING / WELL NUMBER: MW-13  
 TOTAL DEPTH: 95'  
 SURFACE ELEVATION: \_\_\_\_\_  
 GEOLOGIST: Marc Stroupe

DRILLING COMPANY: Talon/LPE  
 DRILLER: Jose Salas  
 DRILLING METHOD: Air Rotary  
 BORE HOLE DIAMETER: 7 7/8"  
 SCREEN: Diam. \_\_\_\_\_ Length 40' Slot Size 0.010"  
 CASING: Diam. 4" Length 54' Type PVC Sch 40  
 DATE DRILLED: November 08, 2007

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| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                                              | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|---------------------------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      | Caliche, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor                           | 0           |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                                     |             |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                                     |             |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                                     |             |
| 20          |             |                   | 0.0          |         |                 |                      |                                                                                                                     | 20          |
|             |             |                   | 0.2          |         |                 |                      |                                                                                                                     |             |
|             |             |                   | 0.1          |         |                 |                      |                                                                                                                     |             |
|             |             |                   | 2.3          |         |                 | 36'                  |                                                                                                                     |             |
| 40          |             |                   | 0.2          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, Slight Odor                | 40          |
|             |             |                   | 3.6          |         |                 |                      |                                                                                                                     |             |
|             |             |                   | 1.7          |         |                 |                      |                                                                                                                     |             |
|             |             |                   | 1.9          |         |                 |                      |                                                                                                                     |             |
| 60          |             |                   | 3.1          |         |                 | 61'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, Odor                             | 60          |
|             |             |                   | 127          | 65'-66' |                 | 66'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Pea Size Pebbles, Moist, Odor                 |             |
|             |             |                   | 10.5         |         |                 | 71'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Marble Size Pebbles, Moist, Odor              |             |
|             |             |                   | 6.6          |         |                 | 76'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Small Marble Size Pebbles, Moist, Slight Odor | 80          |
| 80          |             |                   | 1.6          |         |                 |                      |                                                                                                                     |             |
|             |             |                   | 0.9          |         |                 |                      |                                                                                                                     |             |
|             |             |                   | 0.8          | 90'-91' |                 |                      |                                                                                                                     |             |
|             |             |                   | 0.0          |         |                 | 95'                  | Over Drill Bottom of Hole                                                                                           | 100         |
| 100         |             |                   |              |         |                 |                      |                                                                                                                     |             |
|             |             |                   |              |         |                 |                      |                                                                                                                     |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                                     | 120         |

**REMARKS:**

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



# SOIL BORING / MONITORING WELL LOG

PROJECT: Moore to Jal #1

DRILLING COMPANY: Talon/LPE

PROJECT NUMBER: PLAINS007SPL

DRILLER: Jose Salas

CLIENT: Plains Marketing, LLP

DRILLING METHOD: Air Rotary

BORING / WELL NUMBER: MW-14

BORE HOLE DIAMETER: 7 7/8"

TOTAL DEPTH: 95'

SCREEN: Diam. \_\_\_\_\_ Length 40' Slot Size 0.010"

SURFACE ELEVATION: \_\_\_\_\_

CASING: Diam. 4" Length 52' Type PVC Sch 40

GEOLOGIST: Marc Stroupe

DATE DRILLED: November 08, 2007

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| Depth (FT.) | Soil Symbol | Well Construction | PID Readings                    | Samples | Sample Interval | Description Interval | Description of Stratum                                                                                     | Depth (FT.) |
|-------------|-------------|-------------------|---------------------------------|---------|-----------------|----------------------|------------------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |                                 |         |                 |                      | Caliche, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor                  | 0           |
| 20          |             |                   | 0.0<br>0.0<br>0.0<br>0.0        |         |                 | 21'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Gravels, No Moisture, No Odor         | 20          |
| 40          |             |                   | 0.0<br>0.0<br>0.0<br>0.0<br>0.1 |         |                 | 51'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, Slight Odor       | 40          |
| 60          |             |                   | 0.3<br>1.4<br>1.0<br>1.4        |         |                 | 66'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Pea Size Pebbles, Moist, Slight Odor | 60          |
| 80          |             |                   | 0.0<br>0.0<br>0.0<br>0.2        |         | 65'-66'         | 91'                  |                                                                                                            | 80          |
| 100         |             |                   | 0.2<br>0.0                      |         | 90'-91'         | 95'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Moist, Slight Odor Over Drill        | 100         |
| 120         |             |                   |                                 |         |                 |                      | Bottom of Hole                                                                                             | 120         |

REMARKS:

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# SOIL BORING / MONITORING WELL LOG

|                                       |                                                                   |
|---------------------------------------|-------------------------------------------------------------------|
| PROJECT: <u>Moore to Jal #1</u>       | DRILLING COMPANY: <u>Talon/LPE</u>                                |
| PROJECT NUMBER: <u>PLAINS007SPL</u>   | DRILLER: <u>Jose Salas</u>                                        |
| CLIENT: <u>Plains Marketing, LLP.</u> | DRILLING METHOD: <u>Air Rotary</u>                                |
| BORING / WELL NUMBER: <u>MW-15</u>    | BORE HOLE DIAMETER: <u>7 7/8"</u>                                 |
| TOTAL DEPTH: <u>95'</u>               | SCREEN: Diam. <u>4"</u> Length <u>40'</u> Slot Size <u>0.010"</u> |
| SURFACE ELEVATION: <u>3771.49'</u>    | CASING: Diam. <u>4"</u> Length <u>54'</u> Type <u>PVC Sch 40</u>  |
| GEOLOGIST: <u>Marc Stroupe</u>        | DATE DRILLED: <u>November 08, 2007</u>                            |

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| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                                          | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|-----------------------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      | Caliche, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor                       | 0           |
|             |             |                   | 1.4          |         |                 |                      |                                                                                                                 |             |
|             |             |                   | 0.3          |         |                 |                      |                                                                                                                 |             |
|             |             |                   | 0.2          |         |                 |                      |                                                                                                                 |             |
| 20          |             |                   | 0.0          |         |                 | 21'                  |                                                                                                                 | 20          |
|             |             |                   | 0.4          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Gravels, No Moisture, Slight Odor          |             |
|             |             |                   | 1.1          |         |                 |                      |                                                                                                                 |             |
|             |             |                   | 1.7          |         |                 |                      |                                                                                                                 |             |
| 40          |             |                   | 0.3          |         |                 | 46'                  |                                                                                                                 | 40          |
|             |             |                   | 3.8          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor                |             |
|             |             |                   | 1.0          |         |                 |                      |                                                                                                                 |             |
|             |             |                   | 2.0          |         |                 |                      |                                                                                                                 |             |
| 60          |             |                   | 1.5          |         |                 | 61'                  |                                                                                                                 | 60          |
|             |             |                   | 910          | 65'-66' | 66'             |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, Strong Odor            |             |
|             |             |                   | 180          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, Odor                   |             |
|             |             |                   | 32           |         |                 |                      |                                                                                                                 |             |
| 80          |             |                   | 20           |         |                 |                      |                                                                                                                 | 80          |
|             |             |                   | 9.8          |         |                 |                      |                                                                                                                 |             |
|             |             |                   | 4.8          | 90'-91' | 91'             |                      |                                                                                                                 |             |
|             |             |                   | 2.4          |         | 95'             |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, Slight Odor Over Drill |             |
| 100         |             |                   |              |         |                 |                      | Bottom of Hole                                                                                                  | 100         |
|             |             |                   |              |         |                 |                      |                                                                                                                 |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                                 | 120         |

**REMARKS:**

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# SOIL BORING / MONITORING WELL LOG

|                                      |                                                                  |
|--------------------------------------|------------------------------------------------------------------|
| PROJECT: <u>Moore to Jal #1</u>      | DRILLING COMPANY: <u>Talon/LPE</u>                               |
| PROJECT NUMBER: <u>PLAINS007SPL</u>  | DRILLER: <u>Jose Salas</u>                                       |
| CLIENT: <u>Plains Marketing, LLP</u> | DRILLING METHOD: <u>Air Rotary</u>                               |
| BORING / WELL NUMBER: <u>MW-16</u>   | BORE HOLE DIAMETER: <u>7 7/8"</u>                                |
| TOTAL DEPTH: <u>95'</u>              | SCREEN: Diam. _____ Length <u>40'</u> Slot Size <u>0.010"</u>    |
| SURFACE ELEVATION: _____             | CASING: Diam. <u>4"</u> Length <u>50'</u> Type <u>PVC Sch 40</u> |
| GEOLOGIST: <u>Marc Stroupe</u>       | DATE DRILLED: <u>November 09, 2007</u>                           |

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| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                                               | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|----------------------------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      | Caliche, 5YR 6/4. Cutting Returns -Silty Gravels, Pea Size Gravels. No Moisture, No Odor                             | 0           |
|             |             |                   | 0.0          |         |                 | 6'                   |                                                                                                                      |             |
|             |             |                   | 0.0          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor                     |             |
| 20          |             |                   | 0.0          |         |                 |                      |                                                                                                                      | 20          |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                                      |             |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                                      |             |
| 40          |             |                   | 0.0          |         |                 |                      |                                                                                                                      | 40          |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                                      |             |
|             |             |                   | 0.0          |         |                 | 51'                  |                                                                                                                      |             |
|             |             |                   | 0.0          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Gravels, No Moisture, Slight Odor               |             |
| 60          |             |                   | 0.2          |         |                 |                      |                                                                                                                      | 60          |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                                      |             |
|             |             |                   | 4.8          |         | 65'-66'         | 66'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, Slight Odor                 |             |
|             |             |                   | 0.9          |         |                 |                      |                                                                                                                      |             |
|             |             |                   | 7.8          |         | 75'-76'         | 76'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Marble to Pea Size Gravels, Moist, Slight Odor |             |
| 80          |             |                   | 2.3          |         |                 |                      |                                                                                                                      | 80          |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                                      |             |
|             |             |                   | 0.0          |         | 90'-91'         | 91'                  | Over Drill                                                                                                           |             |
|             |             |                   | 0.1          |         |                 | 95'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Damp, Odor                               |             |
| 100         |             |                   |              |         |                 |                      | Bottom of Hole                                                                                                       | 100         |
|             |             |                   |              |         |                 |                      |                                                                                                                      |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                                      | 120         |

**REMARKS:**

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# SOIL BORING / MONITORING WELL LOG

PROJECT: Moore to Jal #1  
 PROJECT NUMBER: PLAINS007SPL  
 CLIENT: Plains Marketing, LLP.  
 BORING / WELL NUMBER: MW-17  
 TOTAL DEPTH: 95'  
 SURFACE ELEVATION: \_\_\_\_\_  
 GEOLOGIST: Marc Stroupe

DRILLING COMPANY: Talon/LPE  
 DRILLER: Jose Salas  
 DRILLING METHOD: Air Rotary  
 BORE HOLE DIAMETER: 7 7/8"  
 SCREEN: Diam. \_\_\_\_\_ Length 50' Slot Size 0.010"  
 CASING: Diam. 4" Length 40' Type PVC Sch 40  
 DATE DRILLED: November 13, 2007

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| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                                            | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|-------------------------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      | Caliche, Light Brown, 5YR 7/2, Cutting Returns -Poorly Graded Gravels, Calcareous Limestone, No Moisture, No Odor | 0           |
|             |             |                   | 0.0          |         |                 | 6'                   | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor                  |             |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                                   |             |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                                   |             |
| 20          |             |                   | 0.0          |         |                 |                      |                                                                                                                   | 20          |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                                   |             |
|             |             |                   | 0.1          |         |                 |                      |                                                                                                                   |             |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                                   |             |
| 40          |             |                   | 0.0          |         |                 | 46'                  |                                                                                                                   | 40          |
|             |             |                   | 0.0          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Gravels, No Moisture, Slight Odor            |             |
|             |             |                   | 0.1          |         |                 |                      |                                                                                                                   |             |
|             |             |                   | 0.0          |         |                 | 61'                  |                                                                                                                   | 60          |
| 60          |             |                   | 0.2          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, Slight Odor                    | 60          |
|             |             |                   | 0.0          |         | 65'-66'         | 66'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Pea Sized Pebbles, Moist, Slight Odor       |             |
|             |             |                   | 0.0          |         |                 | 71'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Pea Sized Pebbles, Moist, No Odor           |             |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                                   | 80          |
|             |             |                   | 0.1          |         |                 |                      |                                                                                                                   |             |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                                   |             |
| 80          |             |                   | 0.0          |         |                 | 91'                  | Over Drill                                                                                                        | 80          |
|             |             |                   | 0.0          |         | 90'-91'         | 95'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, No Odor                        |             |
|             |             |                   | 0.0          |         |                 |                      | Bottom of Hole                                                                                                    | 100         |
| 100         |             |                   |              |         |                 |                      |                                                                                                                   | 100         |
|             |             |                   |              |         |                 |                      |                                                                                                                   |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                                   | 120         |

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# SOIL BORING / MONITORING WELL LOG

PROJECT: Moore to Jal #1

DRILLING COMPANY: Talon/LPE

PROJECT NUMBER: PLAINS007SPL

DRILLER: Jose Salas

CLIENT: Plains Marketing, LLP

DRILLING METHOD: Air Rotary

BORING / WELL NUMBER: MW-18

BORE HOLE DIAMETER: 7 7/8"

TOTAL DEPTH: 95'

SCREEN: Diam. \_\_\_\_\_ Length 51' Slot Size 0.010"

SURFACE ELEVATION: \_\_\_\_\_

CASING: Diam. 4" Length 40' Type PVC Sch 40

GEOLOGIST: Marc Stroupe

DATE DRILLED: November 13, 2007

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| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                                  | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|---------------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      |                                                                                                         | 0           |
|             |             |                   | 0.0          |         |                 | 6'                   | Caliche, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Gravels, No Moisture, No Odor             |             |
|             |             |                   | 0.0          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor        |             |
| 20          |             |                   | 0.0          |         |                 |                      |                                                                                                         | 20          |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                         |             |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                         |             |
| 40          |             |                   | 0.0          |         |                 |                      |                                                                                                         | 40          |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                         |             |
|             |             |                   | 0.4          |         |                 |                      |                                                                                                         |             |
|             |             |                   | 0.3          |         |                 |                      |                                                                                                         |             |
|             |             |                   | 0.1          |         |                 |                      |                                                                                                         |             |
| 60          |             |                   | 0.2          |         |                 | 61'                  |                                                                                                         | 60          |
|             |             |                   | 0.4          |         | 65'-66'         |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Gravels, No Moisture, Slight Odor  |             |
|             |             |                   | 0.3          |         |                 |                      |                                                                                                         |             |
|             |             |                   | 0.1          |         |                 | 75'                  |                                                                                                         |             |
| 80          |             |                   | 0.2          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Pea Sized Pebbles, Moist, No Odor | 80          |
|             |             |                   | 0.0          |         |                 | 86'                  |                                                                                                         |             |
|             |             |                   | 0.3          |         | 90'-91'         | 91'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, No Odor              |             |
|             |             |                   | 0.4          |         |                 | 95'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Damp, No Odor               |             |
| 100         |             |                   |              |         |                 |                      | Over Drill                                                                                              | 100         |
|             |             |                   |              |         |                 |                      | Bottom of Hole                                                                                          |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                         | 120         |

**REMARKS:**

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# SOIL BORING / MONITORING WELL LOG

PROJECT: Moore to Jal #1  
 PROJECT NUMBER: PLAINS007SPL  
 CLIENT: Plains Marketing, LLP.  
 BORING / WELL NUMBER: MW-19  
 TOTAL DEPTH: 95'  
 SURFACE ELEVATION: \_\_\_\_\_  
 GEOLOGIST: Marc Stroupe

DRILLING COMPANY: Talon/LPE  
 DRILLER: Jose Salas  
 DRILLING METHOD: Air Rotary  
 BORE HOLE DIAMETER: 7 7/8"  
 SCREEN: Diam. \_\_\_\_\_ Length 51' Slot Size 0.010"  
 CASING: Diam. 4" Length 40' Type PVC Sch 40  
 DATE DRILLED: November 13, 2007

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| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                                  | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|---------------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      |                                                                                                         | 0           |
|             |             |                   | 0.0          |         |                 | 6'                   | Caliche, Light Brown, 5YR 6/4, Cutting Returns -Silty Gravels, Small Pebbles, No Moisture, No Odor      |             |
|             |             |                   | 0.0          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor        |             |
|             |             |                   | 0.0          |         |                 | 16'                  |                                                                                                         |             |
| 20          |             |                   | 0.0          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor        | 20          |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                         |             |
|             |             |                   | 0.1          |         |                 |                      |                                                                                                         |             |
|             |             |                   | 0.3          |         |                 |                      |                                                                                                         |             |
| 40          |             |                   | 0.1          |         |                 |                      |                                                                                                         | 40          |
|             |             |                   | 0.1          |         |                 |                      |                                                                                                         |             |
|             |             |                   | 0.2          |         |                 |                      |                                                                                                         |             |
|             |             |                   | 0.4          |         |                 | 56'                  |                                                                                                         |             |
| 60          |             |                   | 0.4          |         |                 | 61'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Gravels, No Moisture, Slight Odor  | 60          |
|             |             |                   | 0.4          |         |                 | 66'                  | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, Moist, Slight Odor          |             |
|             |             |                   | 0.0          |         | 65'-66'         |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, No Odor              |             |
|             |             |                   | 0.1          |         |                 |                      |                                                                                                         |             |
| 80          |             |                   | 0.1          |         |                 | 81'                  |                                                                                                         | 80          |
|             |             |                   | 0.3          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Pea Sized Pebbles, Moist, No Odor |             |
|             |             |                   | 0.1          |         | 90'-91'         |                      |                                                                                                         |             |
|             |             |                   | 0.0          |         |                 | 95'                  | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor        |             |
| 100         |             |                   |              |         |                 |                      | Over Drill                                                                                              | 100         |
|             |             |                   |              |         |                 |                      | Bottom of Hole                                                                                          |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                         | 120         |

**REMARKS:**

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# SOIL BORING / MONITORING WELL LOG

|                                      |                                                                  |  |
|--------------------------------------|------------------------------------------------------------------|--|
| PROJECT: <u>Moore to Jal #1</u>      | DRILLING COMPANY: <u>Talon/LPE</u>                               |  |
| PROJECT NUMBER: <u>PLAINS007SPL</u>  | DRILLER: <u>Jose Salas</u>                                       |  |
| CLIENT: <u>Plains Marketing, LLP</u> | DRILLING METHOD: <u>Air Rotary</u>                               |  |
| BORING / WELL NUMBER: <u>MW-20</u>   | BORE HOLE DIAMETER: <u>7 7/8"</u>                                |  |
| TOTAL DEPTH: <u>95'</u>              | SCREEN: Diam. _____ Length <u>51'</u> Slot Size <u>0.010"</u>    |  |
| SURFACE ELEVATION: _____             | CASING: Diam. <u>4"</u> Length <u>40'</u> Type <u>PVC Sch 40</u> |  |
| GEOLOGIST: <u>Marc Stroupe</u>       | DATE DRILLED: <u>November 13, 2007</u>                           |  |

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| Depth (FT.) | Soil Symbol | Well Construction | PID Readings | Samples | Sample Interval | Description Interval | Description of Stratum                                                                                       | Depth (FT.) |
|-------------|-------------|-------------------|--------------|---------|-----------------|----------------------|--------------------------------------------------------------------------------------------------------------|-------------|
| 0           |             |                   |              |         |                 |                      |                                                                                                              | 0           |
|             |             |                   | 0.0          |         |                 | 6'                   | Caliche, Light Brown, 5YR 6/4, Cutting Returns -Silty Gravels, Very Small Pebbles, No Moisture, No Odor      |             |
|             |             |                   | 0.0          |         |                 | 11'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor             |             |
|             |             |                   | 0.0          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns -Poorly Graded Sands, No Moisture, No Odor             |             |
| 20          |             |                   | 0.0          |         |                 | 26'                  |                                                                                                              | 20          |
|             |             |                   | 0.0          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Gravels, No Moisture, no Odor           |             |
| 40          |             |                   | 0.0          |         |                 |                      |                                                                                                              | 40          |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                              |             |
|             |             |                   | 0.0          |         |                 |                      |                                                                                                              |             |
|             |             |                   | 0.0          |         |                 | 61'                  |                                                                                                              | 60          |
| 60          |             |                   | 0.0          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Moist, No Odor                   |             |
|             |             |                   | 0.0          |         | 65'-66'         | 66'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Poorly Graded Sands, Pea Size Pebbles, Moist, No Odor |             |
|             |             |                   | 0.0          |         |                 | 81'                  |                                                                                                              | 80          |
|             |             |                   | 0.0          |         |                 |                      | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Very Small Pebbles, Moist, No Odor     |             |
| 80          |             |                   | 0.0          |         |                 | 91'                  |                                                                                                              |             |
|             |             |                   | 0.0          |         | 90'-91'         | 95'                  | Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns -Silty Gravels, Smooth Very Small Pebbles, No Odor     |             |
| 100         |             |                   | 0.0          |         |                 |                      | Over Drill                                                                                                   | 100         |
|             |             |                   |              |         |                 |                      | Bottom of Hole                                                                                               |             |
| 120         |             |                   |              |         |                 |                      |                                                                                                              | 120         |

## REMARKS:

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



# KEY TO SYMBOLS

## Symbol Description

### Strata symbols



Caliche



Silty sand



Silty sand and gravel

### Misc. Symbols



Water table at  
boring completion

### Soil Samplers



Bulk/Grab sample

### Monitor Well Details



Recessed cover  
set in concrete



Bentonite pellets



Silica sand, blank PVC



Slotted pipe w/ sand



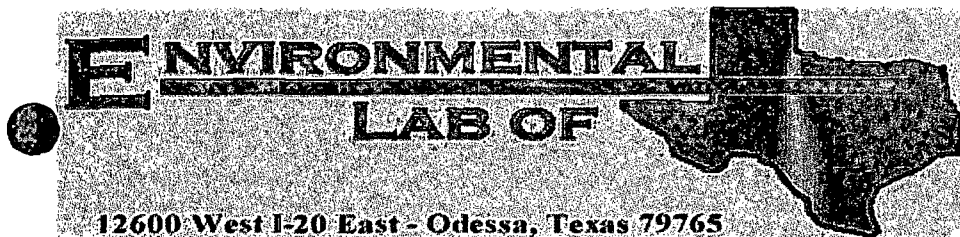
Endcap on pipe  
Packed in sand



Assorted cuttings

**APPENDIX B**

**Laboratory Reports**



# 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 #1

Project Number: 2002-10270

Location: 15 miles North of Hobbs, NM

Lab Order Number: 6A18005

Report Date: 03/30/07

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

Project: 8 inch Moore to Jal #1  
Project Number: 2002-10270  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received    |
|-----------|---------------|--------|----------------|------------------|
| EFW-009   | 6A18005-01    | Soil   | 01/17/06 13:20 | 01-18-2006 08:16 |
| EFW-010   | 6A18005-02    | Soil   | 01/17/06 13:30 | 01-18-2006 08:16 |
| EFW-011   | 6A18005-03    | Soil   | 01/17/06 13:45 | 01-18-2006 08:16 |
| EFW-012   | 6A18005-04    | Soil   | 01/17/06 13:50 | 01-18-2006 08:16 |
| EFE-013   | 6A18005-05    | Soil   | 01/17/06 14:05 | 01-18-2006 08:16 |
| EFE-014   | 6A18005-06    | Soil   | 01/17/06 14:15 | 01-18-2006 08:16 |
| EFE-015   | 6A18005-07    | Soil   | 01/17/06 14:25 | 01-18-2006 08:16 |
| EFE-016   | 6A18005-08    | Soil   | 01/17/06 14:35 | 01-18-2006 08:16 |
| EFE-017   | 6A18005-09    | Soil   | 01/17/06 14:45 | 01-18-2006 08:16 |
| EFE-018   | 6A18005-10    | Soil   | 01/17/06 14:55 | 01-18-2006 08:16 |
| SPN-019   | 6A18005-11    | Soil   | 01/17/06 10:35 | 01-18-2006 08:16 |
| SEW-001   | 6A18005-12    | Soil   | 01/17/06 11:30 | 01-18-2006 08:16 |
| EW-002    | 6A18005-13    | Soil   | 01/17/06 11:40 | 01-18-2006 08:16 |
| EW-003    | 6A18005-14    | Soil   | 01/17/06 11:50 | 01-18-2006 08:16 |
| NEW-004   | 6A18005-15    | Soil   | 01/17/06 12:00 | 01-18-2006 08:16 |
| NWW-005   | 6A18005-16    | Soil   | 01/17/06 12:10 | 01-18-2006 08:16 |
| SWW-006   | 6A18005-17    | Soil   | 01/17/06 12:25 | 01-18-2006 08:16 |
| EFW-007   | 6A18005-18    | Soil   | 01/17/06 13:00 | 01-18-2006 08:16 |
| EFW-008   | 6A18005-19    | Soil   | 01/17/06 13:15 | 01-18-2006 08:16 |

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

| Analyte                           | Result     | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>EFW-009 (6A18005-01) Soil</b>  |            |                 |           |          |         |          |          |           |       |
| Benzene                           | ND         | 0.0250          | mg/kg dry | 25       | EA61902 | 01/19/06 | 01/20/06 | EPA 8021B |       |
| Toluene                           | J [0.0196] | 0.0250          | "         | "        | "       | "        | "        | "         | J     |
| Ethylbenzene                      | 0.0420     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | 0.0742     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | J [0.0237] | 0.0250          | "         | "        | "       | "        | "        | "         | J     |
| Surrogate: a,a,a-Trifluorotoluene |            | 94.0 %          | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |            | 96.2 %          | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12    | 81.4       | 10.0            | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | 3390       | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | 3470       | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |            | 121 %           | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |            | 120 %           | 70-130    |          | "       | "        | "        | "         |       |
| <b>EFW-010 (6A18005-02) Soil</b>  |            |                 |           |          |         |          |          |           |       |
| Benzene                           | ND         | 0.0250          | mg/kg dry | 25       | EA61902 | 01/19/06 | 01/20/06 | EPA 8021B |       |
| Toluene                           | ND         | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | 0.0263     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | 0.0689     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND         | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene |            | 96.5 %          | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |            | 89.5 %          | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12    | 61.9       | 10.0            | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | 2120       | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | 2180       | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |            | 120 %           | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |            | 123 %           | 70-130    |          | "       | "        | "        | "         |       |
| <b>EFW-011 (6A18005-03) Soil</b>  |            |                 |           |          |         |          |          |           |       |
| Benzene                           | ND         | 0.0250          | mg/kg dry | 25       | EA61902 | 01/19/06 | 01/20/06 | EPA 8021B |       |
| Toluene                           | J [0.0136] | 0.0250          | "         | "        | "       | "        | "        | "         | J     |
| Ethylbenzene                      | 0.0310     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | 0.0689     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | 0.0363     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene |            | 92.0 %          | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |            | 95.0 %          | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12    | 97.8       | 10.0            | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | 3320       | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | 3420       | 10.0            | "         | "        | "       | "        | "        | "         |       |

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Page 2 of 17

Plains All American EH & S  
1301 S. County Road 1150  
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Project Number: 2002-10270  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

| Analyte                           | Result     | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>EFW-011 (6A18005-03) Soil</b>  |            |                 |           |          |         |          |          |           |       |
| Surrogate: 1-Chlorooctane         |            | 109 %           | 70-130    |          | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Surrogate: 1-Chlorooctadecane     |            | 114 %           | 70-130    |          | "       | "        | "        | "         |       |
| <b>EFW-012 (6A18005-04) Soil</b>  |            |                 |           |          |         |          |          |           |       |
| Benzene                           | ND         | 0.0250          | mg/kg dry | 25       | EA61902 | 01/19/06 | 01/20/06 | EPA 8021B |       |
| Toluene                           | J [0.0196] | 0.0250          | "         | "        | "       | "        | "        | "         | J     |
| Ethylbenzene                      | 0.141      | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | 0.324      | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | 0.128      | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene |            | 99.2 %          | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |            | 115 %           | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12    | 150        | 10.0            | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | 2820       | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | 2970       | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |            | 122 %           | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |            | 129 %           | 70-130    |          | "       | "        | "        | "         |       |
| <b>EFE-013 (6A18005-05) Soil</b>  |            |                 |           |          |         |          |          |           |       |
| Benzene                           | ND         | 0.0250          | mg/kg dry | 25       | EA61902 | 01/19/06 | 01/20/06 | EPA 8021B |       |
| Toluene                           | J [0.0187] | 0.0250          | "         | "        | "       | "        | "        | "         | J     |
| Ethylbenzene                      | 0.0400     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | 0.0567     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND         | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene |            | 94.5 %          | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |            | 99.5 %          | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12    | 155        | 10.0            | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | 6730       | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | 6880       | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |            | 123 %           | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |            | 113 %           | 70-130    |          | "       | "        | "        | "         |       |

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

| Analyte                           | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>EFE-014 (6A18005-06) Soil</b>  |        |                 |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.0250          | mg/kg dry | 25       | EA61902 | 01/19/06 | 01/20/06 | EPA 8021B |       |
| Toluene                           | ND     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | 0.0311 | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | 0.0724 | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene |        | 91.2 %          | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 82.5 %          | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12    | 77.6   | 10.0            | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | 5270   | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | 5350   | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 118 %           | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 114 %           | 70-130    |          | "       | "        | "        | "         |       |
| <b>EFE-015 (6A18005-07) Soil</b>  |        |                 |           |          |         |          |          |           |       |
| Benzene                           | 0.0274 | 0.0250          | mg/kg dry | 25       | EA61902 | 01/19/06 | 01/20/06 | EPA 8021B |       |
| Toluene                           | 0.0926 | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | 0.151  | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | 0.561  | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | 0.198  | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene |        | 105 %           | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 119 %           | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12    | 242    | 10.0            | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | 3990   | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | 4230   | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 124 %           | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 116 %           | 70-130    |          | "       | "        | "        | "         |       |
| <b>EFE-016 (6A18005-08) Soil</b>  |        |                 |           |          |         |          |          |           |       |
| Benzene                           | 1.23   | 0.0250          | mg/kg dry | 25       | EA61902 | 01/19/06 | 01/20/06 | EPA 8021B |       |
| Toluene                           | 2.85   | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | 0.742  | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | 2.52   | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | 0.924  | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene |        | 815 %           | 80-120    |          | "       | "        | "        | "         | S-04  |
| Surrogate: 4-Bromofluorobenzene   |        | 154 %           | 80-120    |          | "       | "        | "        | "         | S-04  |
| Gasoline Range Organics C6-C12    | 1240   | 10.0            | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | 6170   | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | 7400   | 10.0            | "         | "        | "       | "        | "        | "         |       |

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

| Analyte                           | Result     | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|------------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>EFE-016 (6A18005-08) Soil</b>  |            |                    |           |          |         |          |          |           |       |
| Surrogate: 1-Chlorooctane         |            | 112 %              | 70-130    |          | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Surrogate: 1-Chlorooctadecane     |            | 93.0 %             | 70-130    |          | "       | "        | "        | "         |       |
| <b>EFE-017 (6A18005-09) Soil</b>  |            |                    |           |          |         |          |          |           |       |
| Benzene                           | ND         | 0.0250             | mg/kg dry | 25       | EA61902 | 01/19/06 | 01/20/06 | EPA 8021B |       |
| Toluene                           | ND         | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND         | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | 0.0487     | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | J [0.0177] | 0.0250             | "         | "        | "       | "        | "        | "         | J     |
| Surrogate: a,a,a-Trifluorotoluene |            | 84.5 %             | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |            | 82.5 %             | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12    | 41.8       | 10.0               | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | 8100       | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | 8140       | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |            | 126 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |            | 116 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>EFE-018 (6A18005-10) Soil</b>  |            |                    |           |          |         |          |          |           |       |
| Benzene                           | ND         | 0.0250             | mg/kg dry | 25       | EA61902 | 01/19/06 | 01/20/06 | EPA 8021B |       |
| Toluene                           | ND         | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | 0.0657     | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | 0.300      | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | 0.111      | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene |            | 86.5 %             | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |            | 87.0 %             | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12    | J [8.58]   | 10.0               | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M | J     |
| Diesel Range Organics >C12-C35    | 4610       | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | 4610       | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |            | 107 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |            | 109 %              | 70-130    |          | "       | "        | "        | "         |       |

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

| Analyte                           | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>SPN-019 (6A18005-11) Soil</b>  |        |                 |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.0250          | mg/kg dry | 25       | EA61902 | 01/19/06 | 01/20/06 | EPA 8021B |       |
| Toluene                           | ND     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene |        | 86.2 %          | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 88.8 %          | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12    | ND     | 10.0            | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | 211    | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | 211    | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 150 %           | 70-130    |          | "       | "        | "        | "         | S-04  |
| Surrogate: 1-Chlorooctadecane     |        | 128 %           | 70-130    |          | "       | "        | "        | "         |       |
| <b>SEW-001 (6A18005-12) Soil</b>  |        |                 |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.0250          | mg/kg dry | 25       | EA61902 | 01/19/06 | 01/20/06 | EPA 8021B |       |
| Toluene                           | ND     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene |        | 83.2 %          | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 83.2 %          | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12    | ND     | 10.0            | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | 119    | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | 119    | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 123 %           | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 109 %           | 70-130    |          | "       | "        | "        | "         |       |
| <b>EW-002 (6A18005-13) Soil</b>   |        |                 |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.0250          | mg/kg dry | 25       | EA61902 | 01/19/06 | 01/23/06 | EPA 8021B |       |
| Toluene                           | ND     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene |        | 91.2 %          | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 91.8 %          | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12    | ND     | 10.0            | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | ND     | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | ND     | 10.0            | "         | "        | "       | "        | "        | "         |       |

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

Project: 8 inch Moore to Jal #1  
Project Number: 2002-10270  
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>EW-002 (6A18005-13) Soil</b>   |            |                    |           |          |         |          |          |           |       |
| Surrogate: 1-Chlorooctane         |            | 121 %              | 70-130    |          | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Surrogate: 1-Chlorooctadecane     |            | 107 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>EW-003 (6A18005-14) Soil</b>   |            |                    |           |          |         |          |          |           |       |
| Benzene                           | ND         | 0.0250             | mg/kg dry | 25       | EA61902 | 01/19/06 | 01/21/06 | EPA 8021B |       |
| Toluene                           | J [0.0223] | 0.0250             | "         | "        | "       | "        | "        | "         | J     |
| Ethylbenzene                      | 0.0291     | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | 0.0599     | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND         | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene |            | 82.0 %             | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |            | 90.2 %             | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12    | ND         | 10.0               | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | 155        | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | 155        | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |            | 125 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |            | 113 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>NEW-004 (6A18005-15) Soil</b>  |            |                    |           |          |         |          |          |           |       |
| Benzene                           | ND         | 0.0250             | mg/kg dry | 25       | EA62021 | 01/20/06 | 01/21/06 | EPA 8021B |       |
| Toluene                           | ND         | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND         | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND         | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND         | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene |            | 85.0 %             | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |            | 97.2 %             | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12    | ND         | 10.0               | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | ND         | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | ND         | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |            | 119 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |            | 105 %              | 70-130    |          | "       | "        | "        | "         |       |

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

| Analyte                                  | Result            | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes    |
|------------------------------------------|-------------------|-----------------|-----------|----------|---------|----------|----------|-----------|----------|
| <b>NWW-005 (6A18005-16) Soil</b>         |                   |                 |           |          |         |          |          |           |          |
| Benzene                                  | ND                | 0.0250          | mg/kg dry | 25       | EA62021 | 01/20/06 | 01/23/06 | EPA 8021B |          |
| Toluene                                  | ND                | 0.0250          | "         | "        | "       | "        | "        | "         |          |
| Ethylbenzene                             | ND                | 0.0250          | "         | "        | "       | "        | "        | "         |          |
| Xylene (p/m)                             | ND                | 0.0250          | "         | "        | "       | "        | "        | "         |          |
| Xylene (o)                               | ND                | 0.0250          | "         | "        | "       | "        | "        | "         |          |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> |                   | 92.8 %          | 80-120    |          | "       | "        | "        | "         |          |
| <i>Surrogate: 4-Bromofluorobenzene</i>   |                   | 91.2 %          | 80-120    |          | "       | "        | "        | "         |          |
| Gasoline Range Organics C6-C12           | ND                | 10.0            | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |          |
| Diesel Range Organics >C12-C35           | ND                | 10.0            | "         | "        | "       | "        | "        | "         |          |
| Total Hydrocarbon nC6-nC35               | ND                | 10.0            | "         | "        | "       | "        | "        | "         |          |
| <i>Surrogate: 1-Chlorooctane</i>         |                   | 93.0 %          | 70-130    |          | "       | "        | "        | "         |          |
| <i>Surrogate: 1-Chlorooctadecane</i>     |                   | 81.2 %          | 70-130    |          | "       | "        | "        | "         |          |
| <b>SWW-006 (6A18005-17) Soil</b>         |                   |                 |           |          |         |          |          |           |          |
| Benzene                                  | ND                | 0.0250          | mg/kg dry | 25       | EA62021 | 01/20/06 | 01/23/06 | EPA 8021B |          |
| Toluene                                  | ND                | 0.0250          | "         | "        | "       | "        | "        | "         |          |
| Ethylbenzene                             | ND                | 0.0250          | "         | "        | "       | "        | "        | "         |          |
| Xylene (p/m)                             | ND                | 0.0250          | "         | "        | "       | "        | "        | "         |          |
| Xylene (o)                               | ND                | 0.0250          | "         | "        | "       | "        | "        | "         |          |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> |                   | 95.2 %          | 80-120    |          | "       | "        | "        | "         |          |
| <i>Surrogate: 4-Bromofluorobenzene</i>   |                   | 98.5 %          | 80-120    |          | "       | "        | "        | "         |          |
| Gasoline Range Organics C6-C12           | ND                | 10.0            | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |          |
| <b>Diesel Range Organics &gt;C12-C35</b> | <b>64.9</b>       | 10.0            | "         | "        | "       | "        | "        | "         |          |
| <b>Total Hydrocarbon nC6-nC35</b>        | <b>64.9</b>       | 10.0            | "         | "        | "       | "        | "        | "         |          |
| <i>Surrogate: 1-Chlorooctane</i>         |                   | 127 %           | 70-130    |          | "       | "        | "        | "         |          |
| <i>Surrogate: 1-Chlorooctadecane</i>     |                   | 112 %           | 70-130    |          | "       | "        | "        | "         |          |
| <b>EFW-007 (6A18005-18) Soil</b>         |                   |                 |           |          |         |          |          |           |          |
| Benzene                                  | ND                | 0.0250          | mg/kg dry | 25       | EA62021 | 01/20/06 | 01/23/06 | EPA 8021B |          |
| Toluene                                  | ND                | 0.0250          | "         | "        | "       | "        | "        | "         |          |
| Ethylbenzene                             | ND                | 0.0250          | "         | "        | "       | "        | "        | "         |          |
| Xylene (p/m)                             | <b>J [0.0228]</b> | 0.0250          | "         | "        | "       | "        | "        | "         | <b>J</b> |
| Xylene (o)                               | ND                | 0.0250          | "         | "        | "       | "        | "        | "         |          |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> |                   | 90.8 %          | 80-120    |          | "       | "        | "        | "         |          |
| <i>Surrogate: 4-Bromofluorobenzene</i>   |                   | 93.8 %          | 80-120    |          | "       | "        | "        | "         |          |
| Gasoline Range Organics C6-C12           | <b>20.1</b>       | 10.0            | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |          |
| Diesel Range Organics >C12-C35           | <b>2190</b>       | 10.0            | "         | "        | "       | "        | "        | "         |          |
| Total Hydrocarbon nC6-nC35               | <b>2210</b>       | 10.0            | "         | "        | "       | "        | "        | "         |          |

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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>EFW-007 (6A18005-18) Soil</b>  |            |                    |           |          |         |          |          |           |       |
| Surrogate: 1-Chlorooctane         |            | 111 %              | 70-130    |          | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Surrogate: 1-Chlorooctadecane     |            | 114 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>EFW-008 (6A18005-19) Soil</b>  |            |                    |           |          |         |          |          |           |       |
| Benzene                           | ND         | 0.0250             | mg/kg dry | 25       | EA62021 | 01/20/06 | 01/24/06 | EPA 8021B |       |
| Toluene                           | J [0.0204] | 0.0250             | "         | "        | "       | "        | "        | "         | J     |
| Ethylbenzene                      | 0.0535     | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | 0.187      | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | 0.0671     | 0.0250             | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene |            | 88.5 %             | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |            | 126 %              | 80-120    |          | "       | "        | "        | "         | S-04  |
| Gasoline Range Organics C6-C12    | 250        | 10.0               | mg/kg dry | 1        | EA61807 | 01/18/06 | 01/19/06 | EPA 8015M |       |
| Diesel Range Organics >C12-C35    | 5490       | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35        | 5740       | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |            | 116 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |            | 97.0 %             | 70-130    |          | "       | "        | "        | "         |       |

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**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

| Analyte                          | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------------------|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| <b>EFW-009 (6A18005-01) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 8.2    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>EFW-010 (6A18005-02) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 9.3    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>EFW-011 (6A18005-03) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 7.4    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>EFW-012 (6A18005-04) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 12.6   | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>EFE-013 (6A18005-05) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 3.8    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>EFE-014 (6A18005-06) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 7.1    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>EFE-015 (6A18005-07) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 10.5   | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>EFE-016 (6A18005-08) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 13.3   | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>EFE-017 (6A18005-09) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 7.3    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>EFE-018 (6A18005-10) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 3.3    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>SPN-019 (6A18005-11) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 4.9    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |

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**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

| Analyte                          | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------------------|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| <b>SEW-001 (6A18005-12) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 7.1    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>EW-002 (6A18005-13) Soil</b>  |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 8.2    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>EW-003 (6A18005-14) Soil</b>  |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 5.1    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>NEW-004 (6A18005-15) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 7.7    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>NWW-005 (6A18005-16) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 6.3    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>SWW-006 (6A18005-17) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 5.4    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>EFW-007 (6A18005-18) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 8.9    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |
| <b>EFW-008 (6A18005-19) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 7.2    | 0.1                | %     | 1        | EA61901 | 01/18/06 | 01/19/06 | % calculation |       |

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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 EA61807 - Solvent Extraction (GC)**

**Blank (EA61807-BLK1)**

Prepared: 01/18/06 Analyzed: 01/19/06

|                                |      |      |           |      |  |      |        |  |  |  |
|--------------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | ND   | 10.0 | mg/kg wet |      |  |      |        |  |  |  |
| Diesel Range Organics >C12-C35 | ND   | 10.0 | "         |      |  |      |        |  |  |  |
| Total Hydrocarbon nC6-nC35     | ND   | 10.0 | "         |      |  |      |        |  |  |  |
| Surrogate: 1-Chlorooctane      | 55.2 |      | mg/kg     | 50.0 |  | 110  | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane  | 48.5 |      | "         | 50.0 |  | 97.0 | 70-130 |  |  |  |

**LCS (EA61807-BS1)**

Prepared: 01/18/06 Analyzed: 01/19/06

|                                |      |      |           |      |  |      |        |  |  |  |
|--------------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | 488  | 10.0 | mg/kg wet | 500  |  | 97.6 | 75-125 |  |  |  |
| Diesel Range Organics >C12-C35 | 585  | 10.0 | "         | 500  |  | 117  | 75-125 |  |  |  |
| Total Hydrocarbon nC6-nC35     | 1070 | 10.0 | "         | 1000 |  | 107  | 75-125 |  |  |  |
| Surrogate: 1-Chlorooctane      | 63.3 |      | mg/kg     | 50.0 |  | 127  | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane  | 54.2 |      | "         | 50.0 |  | 108  | 70-130 |  |  |  |

**Calibration Check (EA61807-CCV1)**

Prepared: 01/18/06 Analyzed: 01/19/06

|                                |      |  |       |      |  |      |        |  |  |  |
|--------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | 485  |  | mg/kg | 500  |  | 97.0 | 80-120 |  |  |  |
| Diesel Range Organics >C12-C35 | 585  |  | "     | 500  |  | 117  | 80-120 |  |  |  |
| Total Hydrocarbon nC6-nC35     | 1070 |  | "     | 1000 |  | 107  | 80-120 |  |  |  |
| Surrogate: 1-Chlorooctane      | 63.0 |  | "     | 50.0 |  | 126  | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane  | 54.5 |  | "     | 50.0 |  | 109  | 70-130 |  |  |  |

**Matrix Spike (EA61807-MS1)**

Source: 6A18005-13

Prepared: 01/18/06 Analyzed: 01/20/06

|                                |      |      |           |      |    |     |        |  |  |  |
|--------------------------------|------|------|-----------|------|----|-----|--------|--|--|--|
| Gasoline Range Organics C6-C12 | 565  | 10.0 | mg/kg dry | 545  | ND | 104 | 75-125 |  |  |  |
| Diesel Range Organics >C12-C35 | 616  | 10.0 | "         | 545  | ND | 113 | 75-125 |  |  |  |
| Total Hydrocarbon nC6-nC35     | 1180 | 10.0 | "         | 1090 | ND | 108 | 75-125 |  |  |  |
| Surrogate: 1-Chlorooctane      | 63.5 |      | mg/kg     | 50.0 |    | 127 | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane  | 55.6 |      | "         | 50.0 |    | 111 | 70-130 |  |  |  |

**Matrix Spike Dup (EA61807-MSD1)**

Source: 6A18005-13

Prepared: 01/18/06 Analyzed: 01/20/06

|                                |      |      |           |      |    |     |        |       |    |  |
|--------------------------------|------|------|-----------|------|----|-----|--------|-------|----|--|
| Gasoline Range Organics C6-C12 | 556  | 10.0 | mg/kg dry | 545  | ND | 102 | 75-125 | 1.61  | 20 |  |
| Diesel Range Organics >C12-C35 | 614  | 10.0 | "         | 545  | ND | 113 | 75-125 | 0.325 | 20 |  |
| Total Hydrocarbon nC6-nC35     | 1170 | 10.0 | "         | 1090 | ND | 107 | 75-125 | 0.851 | 20 |  |
| Surrogate: 1-Chlorooctane      | 62.5 |      | mg/kg     | 50.0 |    | 125 | 70-130 |       |    |  |
| Surrogate: 1-Chlorooctadecane  | 54.9 |      | "         | 50.0 |    | 110 | 70-130 |       |    |  |

Environmental Lab of Texas

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

Project: 8 inch Moore to Jal #1  
Project Number: 2002-10270  
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 EA61902 - EPA 5030C (GC)**

**Blank (EA61902-BLK1)**

Prepared & Analyzed: 01/19/06

|                                   |      |        |           |      |  |      |        |  |  |  |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| Benzene                           | ND   | 0.0250 | mg/kg wet |      |  |      |        |  |  |  |
| Toluene                           | ND   | 0.0250 | "         |      |  |      |        |  |  |  |
| Ethylbenzene                      | ND   | 0.0250 | "         |      |  |      |        |  |  |  |
| Xylene (p/m)                      | ND   | 0.0250 | "         |      |  |      |        |  |  |  |
| Xylene (o)                        | ND   | 0.0250 | "         |      |  |      |        |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 36.7 |        | ug/kg     | 40.0 |  | 91.8 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 35.7 |        | "         | 40.0 |  | 89.2 | 80-120 |  |  |  |

**LCS (EA61902-BS1)**

Prepared: 01/19/06 Analyzed: 01/20/06

|                                   |      |        |           |      |  |      |        |  |  |  |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| Benzene                           | 1.28 | 0.0250 | mg/kg wet | 1.25 |  | 102  | 80-120 |  |  |  |
| Toluene                           | 1.29 | 0.0250 | "         | 1.25 |  | 103  | 80-120 |  |  |  |
| Ethylbenzene                      | 1.23 | 0.0250 | "         | 1.25 |  | 98.4 | 80-120 |  |  |  |
| Xylene (p/m)                      | 2.38 | 0.0250 | "         | 2.50 |  | 95.2 | 80-120 |  |  |  |
| Xylene (o)                        | 1.33 | 0.0250 | "         | 1.25 |  | 106  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 38.4 |        | ug/kg     | 40.0 |  | 96.0 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 38.3 |        | "         | 40.0 |  | 95.8 | 80-120 |  |  |  |

**Calibration Check (EA61902-CCV1)**

Prepared: 01/19/06 Analyzed: 01/21/06

|                                   |      |  |       |      |  |      |        |  |  |  |
|-----------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Benzene                           | 46.4 |  | ug/kg | 50.0 |  | 92.8 | 80-120 |  |  |  |
| Toluene                           | 46.1 |  | "     | 50.0 |  | 92.2 | 80-120 |  |  |  |
| Ethylbenzene                      | 43.4 |  | "     | 50.0 |  | 86.8 | 80-120 |  |  |  |
| Xylene (p/m)                      | 84.5 |  | "     | 100  |  | 84.5 | 80-120 |  |  |  |
| Xylene (o)                        | 47.6 |  | "     | 50.0 |  | 95.2 | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 34.7 |  | "     | 40.0 |  | 86.8 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 36.2 |  | "     | 40.0 |  | 90.5 | 80-120 |  |  |  |

**Matrix Spike (EA61902-MS1)**

Source: 6A17011-04

Prepared: 01/19/06 Analyzed: 01/21/06

|                                   |      |        |           |      |        |      |        |  |  |  |
|-----------------------------------|------|--------|-----------|------|--------|------|--------|--|--|--|
| Benzene                           | 1.41 | 0.0250 | mg/kg dry | 1.46 | ND     | 96.6 | 80-120 |  |  |  |
| Toluene                           | 1.38 | 0.0250 | "         | 1.46 | ND     | 94.5 | 80-120 |  |  |  |
| Ethylbenzene                      | 1.29 | 0.0250 | "         | 1.46 | ND     | 88.4 | 80-120 |  |  |  |
| Xylene (p/m)                      | 2.48 | 0.0250 | "         | 2.91 | 0.0282 | 84.3 | 80-120 |  |  |  |
| Xylene (o)                        | 1.40 | 0.0250 | "         | 1.46 | ND     | 95.9 | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 34.5 |        | ug/kg     | 40.0 |        | 86.2 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 35.1 |        | "         | 40.0 |        | 87.8 | 80-120 |  |  |  |

Environmental Lab of Texas

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

Project: 8 inch Moore to Jal #1  
Project Number: 2002-10270  
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 EA61902 - EPA 5030C (GC)**

**Matrix Spike Dup (EA61902-MSD1)**

Source: 6A17011-04

Prepared: 01/19/06 Analyzed: 01/21/06

|                                   |      |        |           |      |        |      |        |       |    |  |
|-----------------------------------|------|--------|-----------|------|--------|------|--------|-------|----|--|
| Benzene                           | 1.37 | 0.0250 | mg/kg dry | 1.46 | ND     | 93.8 | 80-120 | 2.94  | 20 |  |
| Toluene                           | 1.38 | 0.0250 | "         | 1.46 | ND     | 94.5 | 80-120 | 0.00  | 20 |  |
| Ethylbenzene                      | 1.30 | 0.0250 | "         | 1.46 | ND     | 89.0 | 80-120 | 0.676 | 20 |  |
| Xylene (p/m)                      | 2.51 | 0.0250 | "         | 2.91 | 0.0282 | 85.3 | 80-120 | 1.18  | 20 |  |
| Xylene (o)                        | 1.41 | 0.0250 | "         | 1.46 | ND     | 96.6 | 80-120 | 0.727 | 20 |  |
| Surrogate: a,a,a-Trifluorotoluene | 33.5 |        | ug/kg     | 40.0 |        | 83.8 | 80-120 |       |    |  |
| Surrogate: 4-Bromofluorobenzene   | 35.2 |        | "         | 40.0 |        | 88.0 | 80-120 |       |    |  |

**Batch EA62021 - EPA 5030C (GC)**

**Blank (EA62021-BLK1)**

Prepared: 01/20/06 Analyzed: 01/23/06

|                                   |      |         |           |      |  |      |        |  |  |  |
|-----------------------------------|------|---------|-----------|------|--|------|--------|--|--|--|
| Benzene                           | ND   | 0.00100 | mg/kg wet |      |  |      |        |  |  |  |
| Toluene                           | ND   | 0.00100 | "         |      |  |      |        |  |  |  |
| Ethylbenzene                      | ND   | 0.00100 | "         |      |  |      |        |  |  |  |
| Xylene (p/m)                      | ND   | 0.00100 | "         |      |  |      |        |  |  |  |
| Xylene (o)                        | ND   | 0.00100 | "         |      |  |      |        |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 37.9 |         | ug/kg     | 40.0 |  | 94.8 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 36.8 |         | "         | 40.0 |  | 92.0 | 80-120 |  |  |  |

**LCs (EA62021-BS1)**

Prepared: 01/20/06 Analyzed: 01/21/06

|                                   |      |        |           |      |  |      |        |  |  |  |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| Benzene                           | 1.15 | 0.0250 | mg/kg wet | 1.25 |  | 92.0 | 80-120 |  |  |  |
| Toluene                           | 1.15 | 0.0250 | "         | 1.25 |  | 92.0 | 80-120 |  |  |  |
| Ethylbenzene                      | 1.07 | 0.0250 | "         | 1.25 |  | 85.6 | 80-120 |  |  |  |
| Xylene (p/m)                      | 2.04 | 0.0250 | "         | 2.50 |  | 81.6 | 80-120 |  |  |  |
| Xylene (o)                        | 1.16 | 0.0250 | "         | 1.25 |  | 92.8 | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 32.2 |        | ug/kg     | 40.0 |  | 80.5 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 33.1 |        | "         | 40.0 |  | 82.8 | 80-120 |  |  |  |

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

Project: 8 inch Moore to Jal #1  
Project Number: 2002-10270  
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 EA62021 - EPA 5030C (GC)**

**Calibration Check (EA62021-CCV1)**

Prepared: 01/20/06 Analyzed: 01/24/06

|                                   |      |  |       |      |  |      |        |  |  |  |
|-----------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Benzene                           | 44.3 |  | ug/kg | 50.0 |  | 88.6 | 80-120 |  |  |  |
| Toluene                           | 44.5 |  | "     | 50.0 |  | 89.0 | 80-120 |  |  |  |
| Ethylbenzene                      | 40.2 |  | "     | 50.0 |  | 80.4 | 80-120 |  |  |  |
| Xylene (p/m)                      | 81.2 |  | "     | 100  |  | 81.2 | 80-120 |  |  |  |
| Xylene (o)                        | 41.9 |  | "     | 50.0 |  | 83.8 | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 36.6 |  | "     | 40.0 |  | 91.5 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 33.0 |  | "     | 40.0 |  | 82.5 | 80-120 |  |  |  |

**Matrix Spike (EA62021-MS1)**

Source: 6A18005-15

Prepared: 01/20/06 Analyzed: 01/24/06

|                                   |      |        |           |      |    |      |        |  |  |  |
|-----------------------------------|------|--------|-----------|------|----|------|--------|--|--|--|
| Benzene                           | 1.15 | 0.0250 | mg/kg dry | 1.35 | ND | 85.2 | 80-120 |  |  |  |
| Toluene                           | 1.17 | 0.0250 | "         | 1.35 | ND | 86.7 | 80-120 |  |  |  |
| Ethylbenzene                      | 1.10 | 0.0250 | "         | 1.35 | ND | 81.5 | 80-120 |  |  |  |
| Xylene (p/m)                      | 2.21 | 0.0250 | "         | 2.71 | ND | 81.5 | 80-120 |  |  |  |
| Xylene (o)                        | 1.17 | 0.0250 | "         | 1.35 | ND | 86.7 | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 35.9 |        | ug/kg     | 40.0 |    | 89.8 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 37.1 |        | "         | 40.0 |    | 92.8 | 80-120 |  |  |  |

**Matrix Spike Dup (EA62021-MSD1)**

Source: 6A18005-15

Prepared: 01/20/06 Analyzed: 01/24/06

|                                   |      |        |           |      |    |      |        |      |    |  |
|-----------------------------------|------|--------|-----------|------|----|------|--------|------|----|--|
| Benzene                           | 1.24 | 0.0250 | mg/kg dry | 1.35 | ND | 91.9 | 80-120 | 7.57 | 20 |  |
| Toluene                           | 1.24 | 0.0250 | "         | 1.35 | ND | 91.9 | 80-120 | 5.82 | 20 |  |
| Ethylbenzene                      | 1.16 | 0.0250 | "         | 1.35 | ND | 85.9 | 80-120 | 5.26 | 20 |  |
| Xylene (p/m)                      | 2.31 | 0.0250 | "         | 2.71 | ND | 85.2 | 80-120 | 4.44 | 20 |  |
| Xylene (o)                        | 1.23 | 0.0250 | "         | 1.35 | ND | 91.1 | 80-120 | 4.95 | 20 |  |
| Surrogate: a,a,a-Trifluorotoluene | 36.9 |        | ug/kg     | 40.0 |    | 92.2 | 80-120 |      |    |  |
| Surrogate: 4-Bromofluorobenzene   | 39.5 |        | "         | 40.0 |    | 98.8 | 80-120 |      |    |  |

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

Project: 8 inch Moore to Jal #1  
Project Number: 2002-10270  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

## General Chemistry Parameters by EPA / Standard Methods - 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 EA61901 - General Preparation (Prep)

##### Blank (EA61901-BLK1)

Prepared: 01/18/06 Analyzed: 01/19/06

% Solids 100 %

##### Duplicate (EA61901-DUP1)

Source: 6A18001-01

Prepared: 01/18/06 Analyzed: 01/19/06

% Solids 87.2 % 87.1 0.115 20

##### Duplicate (EA61901-DUP2)

Source: 6A18005-13

Prepared: 01/18/06 Analyzed: 01/19/06

% Solids 92.2 % 91.8 0.435 20

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

Project: 8 inch Moore to Jal #1  
Project Number: 2002-10270  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

### Notes and Definitions

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

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

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

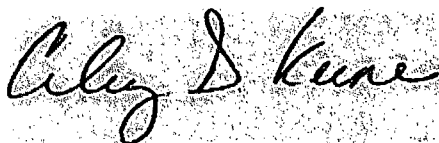
RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

3/30/2007

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
La Tasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

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Fax: (806) 794-1298  
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email: lab@traceanalysis.com

TraceAnalysis, Inc.

155 McCutcheon, Suite H  
El Paso, Texas 79932  
Tel: (915) 585-3443  
Fax: (915) 585-4944  
1 (888) 588-3443

Company Name: TraceAnalysis, Inc.

Address: 5001 EAST INDUSTRIAL RD.

Contact Person: JOHN SANCHEZ

Invoice to: 3RD PLAINS PL

Project #: 60000000075PL

Project Location: 15th St & Hobbs Ave

Phone #: 432-522-2133

Fax #:

e-mail:

Project Name: 8" ABOVE TO JAIL

Sampler Signature: John Sanchez

LAB #

(LAB USE ONLY)

FIELD CODE

# CONTAINERS

VOLUME/AMOUNT

MATRIX

PRESERVATIVE METHOD

SAMPLING

DATE

TIME

|    |             |   |      |       |     |                  |                                |      |     |      |            |  |
|----|-------------|---|------|-------|-----|------------------|--------------------------------|------|-----|------|------------|--|
| 01 | LA-0005     | 1 | 4.02 | WATER | HCl | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | 17.06 9:55 |  |
| 02 | NE-1 SITE 2 | 1 | 4.02 | ✓     |     |                  |                                |      | ✓   |      | " 10:05    |  |
| 03 | NE-2 SITE 2 | 1 | "    | ✓     |     |                  |                                |      | ✓   |      | " 10:10    |  |
| 04 | SE-1-001    | 1 | "    | ✓     |     |                  |                                |      | ✓   |      | " 11:30    |  |
| 05 | NE-002      | 1 | "    | ✓     |     |                  |                                |      | ✓   |      | " 11:40    |  |
| 06 | NE-003      | 1 | "    | ✓     |     |                  |                                |      | ✓   |      | " 11:50    |  |
| 07 | NE-004      | 1 | "    | ✓     |     |                  |                                |      | ✓   |      | " 12:00    |  |
| 08 | NE-005      | 1 | "    | ✓     |     |                  |                                |      | ✓   |      | " 12:10    |  |
| 09 | SE-006      | 1 | "    | ✓     |     |                  |                                |      | ✓   |      | " 12:20    |  |
| 10 | SE-007      | 1 | "    | ✓     |     |                  |                                |      | ✓   |      | " 13:00    |  |
| 11 | SE-008      | 1 | "    | ✓     |     |                  |                                |      | ✓   |      | " 13:05    |  |

LAB USE ONLY

LAB USE ONLY

REMARKS:

LAB USE ONLY

Intact ☒ Y ☐ N

Headspace ☐ Y ☒ N

Temp ☐ ☒

Log-in Review ☐ ☒

Dry Weight Basis Required ☐

TRRP Report Required ☐

Check If Special Reporting Limits Are Needed ☐

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

ANALYSIS REQUEST

(Circle or Specify Method No.)

GC/MS Vol. 8260B/624

GC/MS Semi. Vol. 8270C/625

PCBs 8082/808

Pesticides 8081A/608

BOD TSS pH

Moisture Content

Turn Around Time if different from standard

Relinquished by: John Sanchez Date: 11-16-06 Time: 8:16

Relinquished by:  Date:  Time:

Relinquished by:  Date:  Time:

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

LAB COPY

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

at Plains P/L

Date/Time: 01-18-04 08:00

Order #: LA 18005

Initials: JMM

## Sample Receipt Checklist

|                                                           |                                         |                             |                        |
|-----------------------------------------------------------|-----------------------------------------|-----------------------------|------------------------|
| Temperature of container/cooler?                          | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | -2.5 C                 |
| Shipping container/cooler in good condition?              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |
| Custody Seals intact on shipping container/cooler?        | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <del>Not present</del> |
| Custody Seals intact on sample bottles?                   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Not present            |
| Chain of custody present?                                 | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |
| Sample Instructions complete on Chain of Custody?         | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |
| Chain of Custody signed when relinquished and received?   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |
| Chain of custody agrees with sample label(s)              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | *                      |
| Container labels legible and intact?                      | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |
| Sample Matrix and properties same as on chain of custody? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |
| Samples in proper container/bottle?                       | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |
| Samples properly preserved?                               | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |
| Sample bottles intact?                                    | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |
| Preservations documented on Chain of Custody?             | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |
| Containers documented on Chain of Custody?                | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |
| Sufficient sample amount for indicated test?              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |
| Samples received within sufficient hold time?             | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |
| VOC samples have zero headspace?                          | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Not Applicable         |

Other observations:

\* see attached e-mail

## Variance Documentation:

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

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

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



**Jeanne McMurrey**

---

From: "Louis Sanchez" <lsanchez@talonlpe.com>  
 To: "Jeanne McMurrey" <jeanne@elabtexas.com>  
 Sent: Wednesday, January 18, 2006 2:07 PM  
 Subject: RE: sample time discrepancy

Let's go with 1315. Sorry for all the problems.

Respectfully,  
**Louis B. Sanchez**

TALON/LPE  
 Project Manager  
 Phone: 432-522-2133  
 Fax: 432-522-2180  
 Cell: 432-770-0838  
 Email: [lsanchez@talonlpe.com](mailto:lsanchez@talonlpe.com)

**TALONLPE**

[www.talonlpe.com](http://www.talonlpe.com)

-----Original Message-----

**From:** Jeanne McMurrey [<mailto:jeanne@elabtexas.com>]  
**Sent:** Wednesday, January 18, 2006 1:50 PM  
**To:** Louis Sanchez  
**Subject:** Re: sample time discrepancy

Hi Louis,

We had a discrepancy on sample time on one of your samples for 8" Moore to Jal #1.

|         | <i>COC</i> | <i>Label</i> |
|---------|------------|--------------|
| EFW-008 | 1310       | 1315         |

Which time would you like to reference?

Thanks,  
 Jeanne

Jeanne McMurrey  
 Environmental Lab of Texas I, Ltd.  
 12600 West I-20 East  
 Odessa, Texas 79765  
 432-563-1800

--  
 This message has been scanned for viruses and dangerous content by **BasinBroadband**, and is believed to be clean.

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 This message has been scanned for viruses and dangerous content by **BasinBroadband**, and is believed to be clean.

1/18/2006

# TALON

318 EAST TAYLOR ST.  
HOBBS, NEW MEXICO  
88240

505-393-4261

FAX 505-393-4658

## FACSIMILE TRANSMITTAL SHEET

|                                |                                                |
|--------------------------------|------------------------------------------------|
| TO: <i>Carrie</i>              | FROM: <i>Marc Stroope</i>                      |
| COMPANY:                       | DATE: <i>03/30/07</i>                          |
| FAX NUMBER:                    | TOTAL NO. OF PAGES INCLUDING COVER<br><i>4</i> |
| PHONE NUMBER:                  | SENDER'S REFERENCE NUMBER:                     |
| RE: <i>6A1800S Corrections</i> | YOUR REFERENCE NUMBER:                         |

☐ URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

### NOTES/COMMENTS

Carrie,

Please regenerate the lab report Lab Order Number: 6A1800S with corrected field codes. 6A1800S-05 through 6A1800S-10 should be "EFE-" rather than "EFW-." Please email the new report to mstroope@talonlpe.com and mail to the Hobbs address above. If you have any questions, please call 432-425-8660.

Thanks,

*MS*

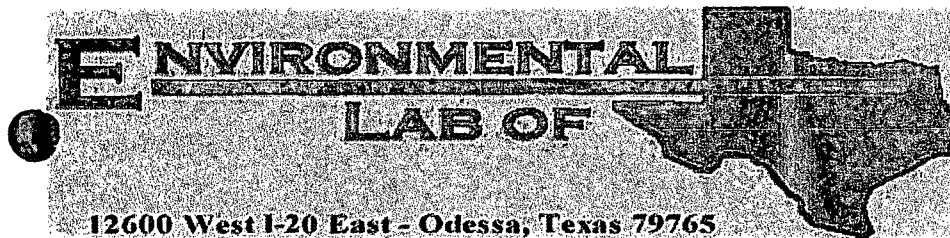
Plains All American E&S  
1301 S. County Road 1136  
Midland TX, 79706-4476

Project: Ranch Moore to Jai #1  
Project Number: 2002-10270  
Project Manager: Connie Reynolds

Fax: (432) 687-4914  
Reported:  
01/25/06 16:50

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| EFW-009   | 6A18005-01    | Soil   | 01/17/06 13:20 | 01/18/06 08:16 |
| EFW-010   | 6A18005-02    | Soil   | 01/17/06 13:30 | 01/18/06 08:16 |
| EFW-011   | 6A18005-03    | Soil   | 01/17/06 13:45 | 01/18/06 08:16 |
| EFW-012   | 6A18005-04    | Soil   | 01/17/06 13:50 | 01/18/06 08:16 |
| EFW-013   | 6A18005-05    | Soil   | 01/17/06 14:05 | 01/18/06 08:16 |
| EFW-014   | 6A18005-06    | Soil   | 01/17/06 14:15 | 01/18/06 08:16 |
| EFW-015   | 6A18005-07    | Soil   | 01/17/06 14:25 | 01/18/06 08:16 |
| EFW-016   | 6A18005-08    | Soil   | 01/17/06 14:35 | 01/18/06 08:16 |
| EFW-017   | 6A18005-09    | Soil   | 01/17/06 14:45 | 01/18/06 08:16 |
| EFW-018   | 6A18005-10    | Soil   | 01/17/06 14:55 | 01/18/06 08:16 |
| SPN-019   | 6A18005-11    | Soil   | 01/17/06 10:35 | 01/18/06 08:16 |
| SEW-001   | 6A18005-12    | Soil   | 01/17/06 11:30 | 01/18/06 08:16 |
| EW-002    | 6A18005-13    | Soil   | 01/17/06 11:40 | 01/18/06 08:16 |
| EW-003    | 6A18005-14    | Soil   | 01/17/06 11:50 | 01/18/06 08:16 |
| NEW-004   | 6A18005-15    | Soil   | 01/17/06 12:00 | 01/18/06 08:16 |
| NWW-005   | 6A18005-16    | Soil   | 01/17/06 12:10 | 01/18/06 08:16 |
| SWW-006   | 6A18005-17    | Soil   | 01/17/06 12:25 | 01/18/06 08:16 |
| EFW-007   | 6A18005-18    | Soil   | 01/17/06 13:00 | 01/18/06 08:16 |
| EFW-008   | 6A18005-19    | Soil   | 01/17/06 13:15 | 01/18/06 08:16 |



# 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 #1

Project Number: 2002-10270

Location: None Given

Lab Order Number: 6121007

Report Date: 09/26/06

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

Project: 8 inch Moore to Jal #1  
Project Number: 2002-10270  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received    |
|-----------|---------------|--------|----------------|------------------|
| NW-A      | 6121007-01    | Soil   | 09/20/06 10:45 | 09-21-2006 10:40 |
| NE-A      | 6121007-02    | Soil   | 09/20/06 10:50 | 09-21-2006 10:40 |
| SW-A      | 6121007-03    | Soil   | 09/20/06 10:52 | 09-21-2006 10:40 |
| SE-A      | 6121007-04    | Soil   | 09/20/06 10:55 | 09-21-2006 10:40 |
| NW-B      | 6121007-05    | Soil   | 09/20/06 10:59 | 09-21-2006 10:40 |
| NE-B      | 6121007-06    | Soil   | 09/20/06 11:02 | 09-21-2006 10:40 |
| SW-B      | 6121007-07    | Soil   | 09/20/06 11:06 | 09-21-2006 10:40 |
| SE-B      | 6121007-08    | Soil   | 09/20/06 11:04 | 09-21-2006 10:40 |

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

Project: 8 inch Moore to Jal #1  
Project Number: 2002-10270  
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>NW-A (6I21007-01) Soil</b> |          |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12          | J [3.50] | 10.0               | mg/kg dry | 1        | EI62502 | 09/22/06 | 09/23/06 | EPA 8015M | J     |
| Carbon Ranges C12-C28         | 242      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35         | 64.5     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons            | 306      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane     |          | 96.2 %             | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane |          | 123 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>NE-A (6I21007-02) Soil</b> |          |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12          | J [3.84] | 10.0               | mg/kg dry | 1        | EI62502 | 09/22/06 | 09/23/06 | EPA 8015M | J     |
| Carbon Ranges C12-C28         | 365      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35         | 85.4     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons            | 450      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane     |          | 96.0 %             | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane |          | 126 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>SW-A (6I21007-03) Soil</b> |          |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12          | J [3.41] | 10.0               | mg/kg dry | 1        | EI62502 | 09/22/06 | 09/23/06 | EPA 8015M | J     |
| Carbon Ranges C12-C28         | 168      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35         | 49.1     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons            | 217      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane     |          | 97.8 %             | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane |          | 124 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>SE-A (6I21007-04) Soil</b> |          |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12          | J [2.73] | 10.0               | mg/kg dry | 1        | EI62502 | 09/22/06 | 09/23/06 | EPA 8015M | J     |
| Carbon Ranges C12-C28         | 211      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35         | 46.9     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons            | 258      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane     |          | 93.0 %             | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane |          | 120 %              | 70-130    |          | "       | "        | "        | "         |       |

Environmental Lab of Texas

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

Page 2 of 7

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

Project: 8 inch Moore to Jal #1  
Project Number: 2002-10270  
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>NW-B (6121007-05) Soil</b> |          |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12          | J [3.81] | 10.0               | mg/kg dry | 1        | EI62502 | 09/22/06 | 09/23/06 | EPA 8015M | J     |
| Carbon Ranges C12-C28         | 116      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35         | 31.0     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons            | 147      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane     |          | 95.0 %             | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane |          | 122 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>NE-B (6121007-06) Soil</b> |          |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12          | J [4.33] | 10.0               | mg/kg dry | 1        | EI62502 | 09/22/06 | 09/23/06 | EPA 8015M | J     |
| Carbon Ranges C12-C28         | 170      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35         | 40.5     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons            | 210      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane     |          | 116 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane |          | 146 %              | 70-130    |          | "       | "        | "        | "         | S-04  |
| <b>SW-B (6121007-07) Soil</b> |          |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12          | J [2.88] | 10.0               | mg/kg dry | 1        | EI62502 | 09/22/06 | 09/23/06 | EPA 8015M | J     |
| Carbon Ranges C12-C28         | 175      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35         | 49.9     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons            | 225      | 10.0               | "         | "        | "       | "        | "        | "         | S-04  |
| Surrogate: 1-Chlorooctane     |          | 99.2 %             | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane |          | 130 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>SE-B (6121007-08) Soil</b> |          |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12          | J [2.91] | 10.0               | mg/kg dry | 1        | EI62502 | 09/22/06 | 09/23/06 | EPA 8015M | J     |
| Carbon Ranges C12-C28         | 144      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35         | 42.5     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons            | 186      | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane     |          | 97.6 %             | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane |          | 124 %              | 70-130    |          | "       | "        | "        | "         |       |

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

Project: 8 inch Moore to Jal #1  
Project Number: 2002-10270  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

| Analyte                       | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|-------------------------------|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| <b>NW-A (6121007-01) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                    | 11.4   | 0.1                | %     | 1        | E162201 | 09/21/06 | 09/22/06 | % calculation |       |
| <b>NE-A (6121007-02) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                    | 8.8    | 0.1                | %     | 1        | E162201 | 09/21/06 | 09/22/06 | % calculation |       |
| <b>SW-A (6121007-03) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                    | 12.4   | 0.1                | %     | 1        | E162201 | 09/21/06 | 09/22/06 | % calculation |       |
| <b>SE-A (6121007-04) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                    | 10.8   | 0.1                | %     | 1        | E162201 | 09/21/06 | 09/22/06 | % calculation |       |
| <b>NW-B (6121007-05) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                    | 12.5   | 0.1                | %     | 1        | E162201 | 09/21/06 | 09/22/06 | % calculation |       |
| <b>NE-B (6121007-06) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                    | 14.3   | 0.1                | %     | 1        | E162201 | 09/21/06 | 09/22/06 | % calculation |       |
| <b>SW-B (6121007-07) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                    | 11.4   | 0.1                | %     | 1        | E162201 | 09/21/06 | 09/22/06 | % calculation |       |
| <b>SE-B (6121007-08) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                    | 11.3   | 0.1                | %     | 1        | E162201 | 09/21/06 | 09/22/06 | % calculation |       |



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

Project: 8 inch Moore to Jal #1  
Project Number: 2002-10270  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

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

**Batch EI62502 - Solvent Extraction (GC)**

**Blank (EI62502-BLK1)**

Prepared: 09/22/06 Analyzed: 09/23/06

|                               |      |      |           |      |  |     |        |  |  |  |
|-------------------------------|------|------|-----------|------|--|-----|--------|--|--|--|
| Carbon Ranges C6-C12          | ND   | 10.0 | mg/kg wet |      |  |     |        |  |  |  |
| Carbon Ranges C12-C28         | ND   | 10.0 | "         |      |  |     |        |  |  |  |
| Carbon Ranges C28-C35         | ND   | 10.0 | "         |      |  |     |        |  |  |  |
| Total Hydrocarbons            | ND   | 10.0 | "         |      |  |     |        |  |  |  |
| Surrogate: 1-Chlorooctane     | 53.4 |      | mg/kg     | 50.0 |  | 107 | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 64.7 |      | "         | 50.0 |  | 129 | 70-130 |  |  |  |

**LCS (EI62502-BS1)**

Prepared: 09/22/06 Analyzed: 09/23/06

|                               |      |      |           |      |  |      |        |  |  |  |
|-------------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| Carbon Ranges C6-C12          | 569  | 10.0 | mg/kg wet | 500  |  | 114  | 75-125 |  |  |  |
| Carbon Ranges C12-C28         | 422  | 10.0 | "         | 500  |  | 84.4 | 75-125 |  |  |  |
| Carbon Ranges C28-C35         | ND   | 10.0 | "         | 0.00 |  |      | 75-125 |  |  |  |
| Total Hydrocarbons            | 991  | 10.0 | "         | 1000 |  | 99.1 | 75-125 |  |  |  |
| Surrogate: 1-Chlorooctane     | 59.6 |      | mg/kg     | 50.0 |  | 119  | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 64.6 |      | "         | 50.0 |  | 129  | 70-130 |  |  |  |

**LCS Dup (EI62502-BSD1)**

Prepared: 09/22/06 Analyzed: 09/25/06

|                               |      |      |           |      |  |      |        |      |    |  |
|-------------------------------|------|------|-----------|------|--|------|--------|------|----|--|
| Carbon Ranges C6-C12          | 535  | 10.0 | mg/kg wet | 500  |  | 107  | 75-125 | 6.16 | 20 |  |
| Carbon Ranges C12-C28         | 486  | 10.0 | "         | 500  |  | 97.2 | 75-125 | 14.1 | 20 |  |
| Carbon Ranges C28-C35         | ND   | 10.0 | "         | 0.00 |  |      | 75-125 |      | 20 |  |
| Total Hydrocarbons            | 1020 | 10.0 | "         | 1000 |  | 102  | 75-125 | 2.88 | 20 |  |
| Surrogate: 1-Chlorooctane     | 58.8 |      | mg/kg     | 50.0 |  | 118  | 70-130 |      |    |  |
| Surrogate: 1-Chlorooctadecane | 49.8 |      | "         | 50.0 |  | 99.6 | 70-130 |      |    |  |

**Calibration Check (EI62502-CCV1)**

Prepared: 09/22/06 Analyzed: 09/23/06

|                               |      |  |       |      |  |      |        |  |  |  |
|-------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Carbon Ranges C6-C12          | 221  |  | mg/kg | 250  |  | 88.4 | 80-120 |  |  |  |
| Carbon Ranges C12-C28         | 221  |  | "     | 250  |  | 88.4 | 80-120 |  |  |  |
| Total Hydrocarbons            | 442  |  | "     | 500  |  | 88.4 | 80-120 |  |  |  |
| Surrogate: 1-Chlorooctane     | 58.1 |  | "     | 50.0 |  | 116  | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 49.4 |  | "     | 50.0 |  | 98.8 | 70-130 |  |  |  |

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

Project: 8 inch Moore to Jal #1  
Project Number: 2002-10270  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**General Chemistry Parameters by EPA / Standard Methods - 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 EI62201 - General Preparation (Prep)**

**Blank (EI62201-BLK1)**

Prepared: 09/21/06 Analyzed: 09/22/06

% Solids 99.8 %

**Duplicate (EI62201-DUP1)**

Source: 6I21001-01

Prepared: 09/21/06 Analyzed: 09/22/06

% Solids 90.3 % 90.4 0.111 20

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

Project: 8 inch Moore to Jal #1  
Project Number: 2002-10270  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

### Notes and Definitions

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

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

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: 9/26/2006

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

# Environmental Labs of Texas

12600 West I-20 East, Odessa, TX 79763  
(432) 563-1800 FAX: (432) 563-1713

Chain of Custody Form

Page 1 of 1

| <b>Company Name</b> Llano-Permian Environmental<br><b>LPE Project Manager</b> Ron Rounsaville<br><b>Mailing Address</b> 318 E. Taylor Street<br><b>City, State, Zip</b> Hobbs, NM<br><b>LPE Phone#/Fax#</b> 505-393-4261 / 505-393-4658<br><b>Client Company</b> PAAP / Camille Reynolds<br><b>Facility Name</b> 8" Moore to Jal #1 / 2002-10270<br><b>Project Reference</b> LBSPLAINS007SPL<br><b>LPE Sampler Name</b> Camilo Chavez |             | <b>Bill To</b><br><br><b>Attn:</b> ENV Accounts Payable<br><b>PO Box 4648,</b><br><b>Houston, TX 77210-4648</b> |              | <b>ANALYSIS REQUEST</b><br>BTEX 8021B <input checked="" type="checkbox"/> TPH 8015M <input checked="" type="checkbox"/> CHLORIDES (Cl) <input type="checkbox"/> SULFATES (SO <sub>4</sub> ) <input type="checkbox"/> PH <input type="checkbox"/> TCLP <input type="checkbox"/> OTHER >> <input type="checkbox"/> PAH <input type="checkbox"/> TPH 1005 <input type="checkbox"/> NORM <input type="checkbox"/> |            |      |           |        |          |           |          |       |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----------|--------|----------|-----------|----------|-------|----------|
| LAB I.D.                                                                                                                                                                                                                                                                                                                                                                                                                              | SAMPLE I.D. | (C) RAB OR (C) OMP.                                                                                                                                                                              | # CONTAINERS | MATRIX                                                                                                                                                                                                                                                                                                                                                                                                        |            |      |           |        | PRESERV. |           | DATE     | TIME  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                                                                                                                                                                                                  |              | GROUND WATER                                                                                                                                                                                                                                                                                                                                                                                                  | WASTEWATER | SOIL | CRUDE OIL | SLUDGE | OTHER:   | ACID/BASE |          |       | ICE/COOL |
| 1 NW-A                                                                                                                                                                                                                                                                                                                                                                                                                                |             | C 1                                                                                                                                                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                               |            | X    |           |        |          | X         | 10-20-06 | 10:45 |          |
| 2 NE-A                                                                                                                                                                                                                                                                                                                                                                                                                                |             | C 1                                                                                                                                                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                               |            | X    |           |        |          | X         | 10-20-06 | 10:50 |          |
| 3 SW-A                                                                                                                                                                                                                                                                                                                                                                                                                                |             | C 1                                                                                                                                                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                               |            | X    |           |        |          | X         | 10-20-06 | 10:52 |          |
| 4 SE-A                                                                                                                                                                                                                                                                                                                                                                                                                                |             | C 1                                                                                                                                                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                               |            | X    |           |        |          | X         | 10-20-06 | 10:55 |          |
| 5 NW-B                                                                                                                                                                                                                                                                                                                                                                                                                                |             | C 1                                                                                                                                                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                               |            | X    |           |        |          | X         | 10-20-06 | 10:59 |          |
| 6 NE-B                                                                                                                                                                                                                                                                                                                                                                                                                                |             | C 1                                                                                                                                                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                               |            | X    |           |        |          | X         | 10-20-06 | 11:02 |          |
| 7 SW-B                                                                                                                                                                                                                                                                                                                                                                                                                                |             | C 1                                                                                                                                                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                               |            | X    |           |        |          | X         | 10-20-06 | 11:06 |          |
| 8 SE-B                                                                                                                                                                                                                                                                                                                                                                                                                                |             | C 1                                                                                                                                                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                               |            | X    |           |        |          | X         | 10-20-06 | 11:08 |          |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                  |              |                                                                                                                                                                                                                                                                                                                                                                                                               |            |      |           |        |          |           |          |       |          |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                                                                                                                                                                                                  |              |                                                                                                                                                                                                                                                                                                                                                                                                               |            |      |           |        |          |           |          |       |          |

|                                               |                                                                                                        |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Sampler Relinquished:</b><br>Camilo Chavez | <b>Received By:</b><br>[Signature]                                                                     |
| <b>Relinquished by:</b><br>[Signature]        | <b>Received By: (lab staff)</b><br>[Signature]                                                         |
| <b>Delivered by:</b><br>[Signature]           | <b>Sample Cool &amp; Intact</b><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

|                                                                                                           |
|-----------------------------------------------------------------------------------------------------------|
| <b>E-mail results to:</b> jgraham@llano-permian.com<br><b>REMARKS:</b><br>3.6<br>for glass<br>Seals/Label |
|-----------------------------------------------------------------------------------------------------------|

# Environmental Lab of Texas

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

Client: Plains  
 Date/Time: 9/21/06 10:40  
 Lab ID #: 10E21007  
 Initials: OK

### Sample Receipt Checklist

|     |                                                        |     |    | Client Initials          |
|-----|--------------------------------------------------------|-----|----|--------------------------|
| #1  | Temperature of container/ cooler?                      | Yes | No | 3.0 °C                   |
| #2  | Shipping container in good condition?                  | Yes | No |                          |
| #3  | Custody Seals intact on shipping container/ cooler?    | Yes | No | Not Present              |
| #4  | Custody Seals intact on sample bottles/ container?     | Yes | No | Not Present              |
| #5  | Chain of Custody present?                              | Yes | No |                          |
| #6  | Sample instructions complete of Chain of Custody?      | Yes | No |                          |
| #7  | Chain of Custody signed when relinquished/ received?   | Yes | No |                          |
| #8  | Chain of Custody agrees with sample label(s)?          | Yes | No | ID written on Cont./ Lid |
| #9  | Container label(s) legible and intact?                 | Yes | No | Not Applicable           |
| #10 | Sample matrix/ properties agree with Chain of Custody? | Yes | No |                          |
| #11 | Containers supplied by EL0T?                           | Yes | No |                          |
| #12 | Samples in proper container/ bottle?                   | Yes | No | See Below                |
| #13 | Samples properly preserved?                            | Yes | No | See Below                |
| #14 | Sample bottles intact?                                 | Yes | No |                          |
| #15 | Preservations documented on Chain of Custody?          | Yes | No |                          |
| #16 | Containers documented on Chain of Custody?             | Yes | No |                          |
| #17 | Sufficient sample amount for indicated test(s)?        | Yes | No | See Below                |
| #18 | All samples received within sufficient hold time?      | Yes | No | See Below                |
| #19 | VOC samples have zero headspace?                       | Yes | No | Not Applicable           |

### Variance Documentation

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

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

Corrective Action Taken:

Check all that Apply:

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



6701 Aberdeen Avenue, Suite 9  
155 McCutcheon, Suite H

Lubbock, Texas 79424 800•378•1296  
El Paso, Texas 79932 888•588•3443  
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298  
915•585•3443 FAX 915•585•4944

## Analytical and Quality Control Report

Eb Taylor  
Talon LPE-Hobbs  
318 E Taylor  
Hobbs, TX, 88240

Report Date: February 2, 2007

Work Order: 7013108



Project Location: Lea County, NM  
Project Name: Moore to Jal #1  
Project Number: Plains 007SPL  
SRS #: 2002-10270

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 |
|--------|-------------|--------|------------|------------|---------------|
| 115093 | NE WALL     | SOIL   | 2007-01-30 | 06:58      | 2007-01-31    |
| 115094 | SE WALL     | SOIL   | 2007-01-30 | 07:07      | 2007-01-31    |

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

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

Dr. Blair Leftwich, Director

### Standard Flags

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

## Analytical Report

### Sample: 115093 - NE WALL

Analysis: BTEX  
QC Batch: 34163  
Prep Batch: 29648

Analytical Method: S 8021B  
Date Analyzed: 2007-01-31  
Sample Preparation:

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | 0.0154       | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | 0.0847       | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.01   | mg/Kg | 1        | 1.00            | 101                 | 69 - 113           |
| 4-Bromofluorobenzene (4-BFB) |      | 1.03   | mg/Kg | 1        | 1.00            | 103                 | 63.4 - 121         |

### Sample: 115093 - NE WALL

Analysis: TPH DRO  
QC Batch: 34190  
Prep Batch: 29667

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-02-01  
Sample Preparation: 2007-01-31

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 147    | mg/Kg | 1        | 150             | 98                  | 70 - 130           |

### Sample: 115093 - NE WALL

Analysis: TPH GRO  
QC Batch: 34155  
Prep Batch: 29636

Analytical Method: S 8015B  
Date Analyzed: 2007-01-31  
Sample Preparation:

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 1.20         | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.824  | mg/Kg | 1        | 1.00            | 82                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 1.13   | mg/Kg | 1        | 1.00            | 113                 | 70 - 130           |

**Sample: 115094 - SE WALL**

Analysis: BTEX  
QC Batch: 34163  
Prep Batch: 29648

Analytical Method: S 8021B  
Date Analyzed: 2007-01-31  
Sample Preparation:

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

| Parameter    | Flag | RL<br>Result  | Units | Dilution | RL     |
|--------------|------|---------------|-------|----------|--------|
| Benzene      |      | <0.0100       | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100       | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100       | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <b>0.0447</b> | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.996  | mg/Kg | 1        | 1.00            | 100                 | 69 - 113           |
| 4-Bromofluorobenzene (4-BFB) |      | 1.01   | mg/Kg | 1        | 1.00            | 101                 | 63.4 - 121         |

**Sample: 115094 - SE WALL**

Analysis: TPH DRO  
QC Batch: 34190  
Prep Batch: 29667

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-02-01  
Sample Preparation: 2007-01-31

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 106    | mg/Kg | 1        | 150             | 71                  | 70 - 130           |

**Sample: 115094 - SE WALL**

Analysis: TPH GRO  
QC Batch: 34155  
Prep Batch: 29636

Analytical Method: S 8015B  
Date Analyzed: 2007-01-31  
Sample Preparation:

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | <1.00        | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.812  | mg/Kg | 1        | 1.00            | 81                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 1.12   | mg/Kg | 1        | 1.00            | 112                 | 70 - 130           |

**Method Blank (1)** QC Batch: 34155

QC Batch: 34155  
Prep Batch: 29636

Date Analyzed: 2007-01-31  
QC Preparation: 2007-01-30

Analyzed By: ss  
Prepared By: ss



| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| GRO       |      | <0.829        | mg/Kg | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.912  | mg/Kg | 1        | 1.00            | 91                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.964  | mg/Kg | 1        | 1.00            | 96                  | 70 - 130           |

**Method Blank (1)** QC Batch: 34163

QC Batch: 34163  
Prep Batch: 29648

Date Analyzed: 2007-01-31  
QC Preparation: 2007-01-30

Analyzed By: ss  
Prepared By: ss

| Parameter    | Flag | MDL<br>Result | Units | RL   |
|--------------|------|---------------|-------|------|
| Benzene      | 1    | <0.00270      | mg/Kg | 0.01 |
| Toluene      |      | <0.00320      | mg/Kg | 0.01 |
| Ethylbenzene |      | <0.00340      | mg/Kg | 0.01 |
| Xylene       |      | <0.0104       | mg/Kg | 0.01 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.01   | mg/Kg | 1        | 1.00            | 101                 | 69 - 113           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.897  | mg/Kg | 1        | 1.00            | 90                  | 63.4 - 121         |

**Method Blank (1)** QC Batch: 34190

QC Batch: 34190  
Prep Batch: 29667

Date Analyzed: 2007-02-01  
QC Preparation: 2007-02-01

Analyzed By: WR  
Prepared By: WR

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| DRO       |      | <15.4         | mg/Kg | 50 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 158    | mg/Kg | 1        | 150             | 105                 | 70 - 130           |

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

QC Batch: 34155  
Prep Batch: 29636

Date Analyzed: 2007-01-31  
QC Preparation: 2007-01-30

Analyzed By: ss  
Prepared By: ss

| Param | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO   | 8.33          | mg/Kg | 1    | 10.0            | <0.829           | 83   | 70 - 130      |

<sup>1</sup>SPECIAL- A MS/MSD was run for QC Batch 34163 but not included because sample that was spiked had to be re-analyzed. LCS/LCSD are used as the spiked samples for this batch. •

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 |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO   | 8.84           | mg/Kg | 1    | 10.0            | <0.829           | 88   | 70 - 130      | 6   | 20           |

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)       | 1.18          | 1.13           | mg/Kg | 1    | 1.00            | 118         | 113          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 1.06          | 1.12           | mg/Kg | 1    | 1.00            | 106         | 112          | 70 - 130      |

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

QC Batch: 34163  
Prep Batch: 29648

Date Analyzed: 2007-01-31  
QC Preparation: 2007-01-30

Analyzed By: ss  
Prepared By: ss

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 1.05          | mg/Kg | 1    | 1.00            | <0.00270         | 105  | 70 - 130      |
| Toluene      | 1.03          | mg/Kg | 1    | 1.00            | <0.00320         | 103  | 70 - 130      |
| Ethylbenzene | 1.04          | mg/Kg | 1    | 1.00            | <0.00340         | 104  | 70 - 130      |
| Xylene       | 3.14          | mg/Kg | 1    | 3.00            | <0.0104          | 105  | 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      | 1.04           | mg/Kg | 1    | 1.00            | <0.00270         | 104  | 70 - 130      | 1   | 20           |
| Toluene      | 1.04           | mg/Kg | 1    | 1.00            | <0.00320         | 104  | 70 - 130      | 1   | 20           |
| Ethylbenzene | 1.04           | mg/Kg | 1    | 1.00            | <0.00340         | 104  | 70 - 130      | 0   | 20           |
| Xylene       | 3.13           | mg/Kg | 1    | 3.00            | <0.0104          | 104  | 70 - 130      | 0   | 20           |

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)       | 0.973         | 0.958          | mg/Kg | 1    | 1.00            | 97          | 96           | 69 - 113      |
| 4-Bromofluorobenzene (4-BFB) | 1.01          | 1.00           | mg/Kg | 1    | 1.00            | 101         | 100          | 63.4 - 121    |

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

QC Batch: 34190  
Prep Batch: 29667

Date Analyzed: 2007-02-01  
QC Preparation: 2007-02-01

Analyzed By: WR  
Prepared By: WR

| Param | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO   | 256           | mg/Kg | 1    | 250             | <15.4            | 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 |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO   | 258            | mg/Kg | 1    | 250             | <15.4            | 103  | 70 - 130      | 1   | 20           |

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

| Surrogate     | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| n-Triacontane | 158        | 162         | mg/Kg | 1    | 150          | 105      | 108       | 70 - 130   |

**Matrix Spike (MS-1)** Spiked Sample: 115093

QC Batch: 34155  
Prep Batch: 29636

Date Analyzed: 2007-01-31  
QC Preparation: 2007-01-30

Analyzed By: ss  
Prepared By: ss

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|-----------|-------|------|--------------|---------------|------|------------|
| GRO   | 13.7      | mg/Kg | 1    | 10.0         | 1.2032        | 125  | 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 |
|-------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO   | 12.3       | mg/Kg | 1    | 10.0         | 1.2032        | 111  | 70 - 130   | 11  | 20        |

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

| Surrogate                    | MS Result            | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|----------------------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT)       | <sup>2 3</sup> 0.653 | 0.644      | mg/Kg | 1    | 1            | 65      | 64       | 70 - 130   |
| 4-Bromofluorobenzene (4-BFB) | 1.22                 | 1.24       | mg/Kg | 1    | 1            | 122     | 124      | 70 - 130   |

**Matrix Spike (MS-1)** Spiked Sample: 115086

QC Batch: 34190  
Prep Batch: 29667

Date Analyzed: 2007-02-01  
QC Preparation: 2007-02-01

Analyzed By: WR  
Prepared By: WR

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|-----------|-------|------|--------------|---------------|------|------------|
| DRO   | 310       | mg/Kg | 1    | 250          | <15.4         | 124  | 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 |
|-------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| DRO   | 234        | mg/Kg | 1    | 250          | <15.4         | 94   | 70 - 130   | 28  | 20        |

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

| Surrogate     | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|---------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| n-Triacontane | 178       | 146        | mg/Kg | 1    | 150          | 119     | 97       | 70 - 130   |

**Standard (ICV-1)**

QC Batch: 34155

Date Analyzed: 2007-01-31

Analyzed By: ss

<sup>2</sup>Surrogate out due to peak interference.

<sup>3</sup>Surrogate out due to peak interference.

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.913                  | 91                          | 85 - 115                      | 2007-01-31       |

**Standard (CCV-1)**

QC Batch: 34155

Date Analyzed: 2007-01-31

Analyzed By: ss

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 1.01                   | 101                         | 85 - 115                      | 2007-01-31       |

**Standard (ICV-1)**

QC Batch: 34163

Date Analyzed: 2007-01-31

Analyzed By: ss

| 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/Kg | 0.100                 | 0.105                  | 105                         | 85 - 115                      | 2007-01-31       |
| Toluene      |      | mg/Kg | 0.100                 | 0.105                  | 105                         | 85 - 115                      | 2007-01-31       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.105                  | 105                         | 85 - 115                      | 2007-01-31       |
| Xylene       |      | mg/Kg | 0.300                 | 0.318                  | 106                         | 85 - 115                      | 2007-01-31       |

**Standard (CCV-1)**

QC Batch: 34163

Date Analyzed: 2007-01-31

Analyzed By: ss

| 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/Kg | 0.100                 | 0.101                  | 101                         | 85 - 115                      | 2007-01-31       |
| Toluene      |      | mg/Kg | 0.100                 | 0.101                  | 101                         | 85 - 115                      | 2007-01-31       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.100                  | 100                         | 85 - 115                      | 2007-01-31       |
| Xylene       |      | mg/Kg | 0.300                 | 0.302                  | 101                         | 85 - 115                      | 2007-01-31       |

**Standard (ICV-1)**

QC Batch: 34190

Date Analyzed: 2007-02-01

Analyzed By: WR

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 233                    | 93                          | 85 - 115                      | 2007-02-01       |

**Standard (CCV-1)**

QC Batch: 34190

Date Analyzed: 2007-02-01

Analyzed By: WR

Report Date: February 2, 2007  
Plains 007SPL

Work Order: 7013108  
Moore to Jal #1

Page Number: 8 of 9  
Lea County, NM

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 225                    | 90                          | 85 - 115                      | 2007-02-01       |



# TRACE ANALYSIS, INC.

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## Analytical and Quality Control Report

Marc Stroope  
Talon LPE-Hobbs  
318 E Taylor  
Hobbs, NM, 88240

Report Date: November 21, 2007

Work Order: 7110930



Project Location: Lea County, NM  
Project Name: Moore to Jal #1  
Project Number: Plains007SPL  
SRS #: 2002-10270

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 |
|--------|-------------|--------|------------|------------|---------------|
| 142515 | MW-5 65'    | soil   | 2007-11-06 | 08:06      | 2007-11-09    |
| 142516 | MW-5 90'    | soil   | 2007-11-06 | 08:10      | 2007-11-09    |
| 142517 | MW-6 65'    | soil   | 2007-11-06 | 10:36      | 2007-11-09    |
| 142518 | MW-6 90'    | soil   | 2007-11-06 | 10:40      | 2007-11-09    |
| 142519 | MW-7 65'    | soil   | 2007-11-06 | 12:16      | 2007-11-09    |
| 142520 | MW-7 90'    | soil   | 2007-11-06 | 12:22      | 2007-11-09    |
| 142521 | MW-8 65'    | soil   | 2007-11-06 | 15:30      | 2007-11-09    |
| 142522 | MW-8 90'    | soil   | 2007-11-06 | 15:34      | 2007-11-09    |

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 25 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: 142515 - MW-5 65'

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43032   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0500      | mg/Kg | 5        | 0.0100 |
| Toluene      |      | 0.462        | mg/Kg | 5        | 0.0100 |
| Ethylbenzene |      | 1.27         | mg/Kg | 5        | 0.0100 |
| Xylene       |      | 3.83         | mg/Kg | 5        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 5.16   | mg/Kg | 5        | 5.00            | 103                 | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) |      | 6.77   | mg/Kg | 5        | 5.00            | 135                 | 47.3 - 144.2       |

### Sample: 142515 - MW-5 65'

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42961   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | 2000         | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | 1    | 420    | mg/Kg | 1        | 150             | 280                 | 17.3 - 169.6       |

### Sample: 142515 - MW-5 65'

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43051   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 90.4         | mg/Kg | 5        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 3.99   | mg/Kg | 5        | 5.00            | 80                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) | 2    | 6.69   | mg/Kg | 5        | 5.00            | 134                 | 51.2 - 107.4       |

<sup>1</sup>High surrogate recovery due to peak interference.

<sup>2</sup>High surrogate recovery due to peak interference.

**Sample: 142516 - MW-5 90'**

Analysis: BTEX  
QC Batch: 43050  
Prep Batch: 37111

Analytical Method: S 8021B  
Date Analyzed: 2007-11-10  
Sample Preparation: 2007-11-10

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.06   | mg/Kg | 1        | 1.00            | 106                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 1.07   | mg/Kg | 1        | 1.00            | 107                 | 70 - 130           |

**Sample: 142516 - MW-5 90'**

Analysis: TPH DRO  
QC Batch: 42961  
Prep Batch: 37071

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 222    | mg/Kg | 1        | 150             | 148                 | 17.3 - 169.6       |

**Sample: 142516 - MW-5 90'**

Analysis: TPH GRO  
QC Batch: 43012  
Prep Batch: 37111

Analytical Method: S 8015B  
Date Analyzed: 2007-11-10  
Sample Preparation: 2007-11-10

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 7.19         | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.858  | mg/Kg | 1        | 1.00            | 86                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 1.06   | mg/Kg | 1        | 1.00            | 106                 | 70 - 130           |

**Sample: 142517 - MW-6 65'**

Analysis: BTEX  
QC Batch: 43032  
Prep Batch: 37129

Analytical Method: S 8021B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | 2.83         | mg/Kg | 20       | 0.0100 |
| Toluene      |      | 45.5         | mg/Kg | 20       | 0.0100 |
| Ethylbenzene |      | 52.3         | mg/Kg | 20       | 0.0100 |
| Xylene       |      | 151          | mg/Kg | 20       | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 18.9   | mg/Kg | 20       | 20.0            | 94                  | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) | 3    | 71.6   | mg/Kg | 20       | 20.0            | 358                 | 47.3 - 144.2       |

**Sample: 142517 - MW-6 65'**

Analysis: TPH DRO  
QC Batch: 42962  
Prep Batch: 37071

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | 13000        | mg/Kg | 10       | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | 4    | 507    | mg/Kg | 10       | 150             | 338                 | 17.3 - 169.6       |

**Sample: 142517 - MW-6 65'**

Analysis: TPH GRO  
QC Batch: 43086  
Prep Batch: 37177

Analytical Method: S 8015B  
Date Analyzed: 2007-11-14  
Sample Preparation: 2007-11-14

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 5890         | mg/Kg | 100      | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 91.4   | mg/Kg | 100      | 100             | 91                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) | 5    | 156    | mg/Kg | 100      | 100             | 156                 | 70 - 130           |

<sup>3</sup>High surrogate recovery due to peak interference.

<sup>4</sup>High surrogate recovery due to peak interference.

<sup>5</sup>High surrogate recovery due to peak interference.

**Sample: 142518 - MW-6 90'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43032   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result  | Units | Dilution | RL     |
|--------------|------|---------------|-------|----------|--------|
| Benzene      |      | <0.0100       | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100       | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <b>0.0262</b> | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <b>0.0797</b> | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.04   | mg/Kg | 1        | 1.00            | 104                 | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) |      | 1.16   | mg/Kg | 1        | 1.00            | 116                 | 47.3 - 144.2       |

**Sample: 142518 - MW-6 90'**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42961   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 179    | mg/Kg | 1        | 150             | 119                 | 17.3 - 169.6       |

**Sample: 142518 - MW-6 90'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43051   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter | Flag     | RL<br>Result | Units | Dilution | RL   |
|-----------|----------|--------------|-------|----------|------|
| GRO       | <i>B</i> | <b>8.23</b>  | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.769  | mg/Kg | 1        | 1.00            | 77                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) |      | 1.04   | mg/Kg | 1        | 1.00            | 104                 | 51.2 - 107.4       |

**Sample: 142519 - MW-7 65'**

Analysis: BTEX  
QC Batch: 43032  
Prep Batch: 37129

Analytical Method: S 8021B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | 0.387        | mg/Kg | 10       | 0.0100 |
| Toluene      |      | 9.82         | mg/Kg | 10       | 0.0100 |
| Ethylbenzene |      | 8.65         | mg/Kg | 10       | 0.0100 |
| Xylene       |      | 25.5         | mg/Kg | 10       | 0.0100 |

| Surrogate                    | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |              | 8.68   | mg/Kg | 10       | 10.0            | 87                  | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) | <sup>6</sup> | 18.0   | mg/Kg | 10       | 10.0            | 180                 | 47.3 - 144.2       |

**Sample: 142519 - MW-7 65'**

Analysis: TPH DRO  
QC Batch: 42961  
Prep Batch: 37071

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | 3810         | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | <sup>7</sup> | 305    | mg/Kg | 1        | 150             | 203                 | 17.3 - 169.6       |

**Sample: 142519 - MW-7 65'**

Analysis: TPH GRO  
QC Batch: 43051  
Prep Batch: 37129

Analytical Method: S 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 420          | mg/Kg | 10       | 1.00 |

| Surrogate                    | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |              | 5.27   | mg/Kg | 10       | 10.0            | 53                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) | <sup>8</sup> | 20.4   | mg/Kg | 10       | 10.0            | 204                 | 51.2 - 107.4       |

<sup>6</sup>High surrogate recovery due to peak interference.

<sup>7</sup>High surrogate recovery due to peak interference.

<sup>8</sup>High surrogate recovery due to peak interference.

**Sample: 142520 - MW-7 90'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43032   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | 0.0350       | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.948  | mg/Kg | 1        | 1.00            | 95                  | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) |      | 1.06   | mg/Kg | 1        | 1.00            | 106                 | 47.3 - 144.2       |

**Sample: 142520 - MW-7 90'**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42961   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 182    | mg/Kg | 1        | 150             | 121                 | 17.3 - 169.6       |

**Sample: 142520 - MW-7 90'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43051   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       | B    | 4.87         | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.754  | mg/Kg | 1        | 1.00            | 75                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) |      | 0.960  | mg/Kg | 1        | 1.00            | 96                  | 51.2 - 107.4       |

**Sample: 142521 - MW-8 65'**

Analysis: BTEX  
 QC Batch: 43032  
 Prep Batch: 37129

Analytical Method: S 8021B  
 Date Analyzed: 2007-11-12  
 Sample Preparation: 2007-11-12

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | 28.5         | mg/Kg | 20       | 0.0100 |
| Toluene      | 9    | 279          | mg/Kg | 20       | 0.0100 |
| Ethylbenzene | 10   | 149          | mg/Kg | 20       | 0.0100 |
| Xylene       | 11   | 327          | mg/Kg | 20       | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 15.8   | mg/Kg | 20       | 20.0            | 79                  | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) | 12   | 115    | mg/Kg | 20       | 20.0            | 575                 | 47.3 - 144.2       |

**Sample: 142521 - MW-8 65'**

Analysis: TPH DRO  
 QC Batch: 42962  
 Prep Batch: 37071

Analytical Method: Mod. 8015B  
 Date Analyzed: 2007-11-12  
 Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | 19200        | mg/Kg | 10       | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | 13   | 1280   | mg/Kg | 10       | 150             | 853                 | 17.3 - 169.6       |

**Sample: 142521 - MW-8 65'**

Analysis: TPH GRO  
 QC Batch: 43086  
 Prep Batch: 37177

Analytical Method: S 8015B  
 Date Analyzed: 2007-11-14  
 Sample Preparation: 2007-11-14

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 9760         | mg/Kg | 100      | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 90.7   | mg/Kg | 100      | 100             | 91                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) | 14   | 189    | mg/Kg | 100      | 100             | 189                 | 70 - 130           |

<sup>9</sup>Estimated concentration value greater than standard range.

<sup>10</sup>Estimated concentration value greater than standard range.

<sup>11</sup>Estimated concentration value greater than standard range.

<sup>12</sup>High surrogate recovery due to peak interference.

<sup>13</sup>High surrogate recovery due to peak interference.

<sup>14</sup>High surrogate recovery due to peak interference.

**Sample: 142522 - MW-8 90'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43052   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37127 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | 0.0152       | mg/Kg | 1        | 0.0100 |
| Toluene      |      | 0.0535       | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | 0.0307       | mg/Kg | 1        | 0.0100 |
| Xylene       |      | 0.0857       | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.941  | mg/Kg | 1        | 1.00            | 94                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.921  | mg/Kg | 1        | 1.00            | 92                  | 70 - 130           |

**Sample: 142522 - MW-8 90'**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42962   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       | B    | 84.5         | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 215    | mg/Kg | 1        | 150             | 143                 | 17.3 - 169.6       |

**Sample: 142522 - MW-8 90'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43054   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37127 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 23.2         | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.895  | mg/Kg | 1        | 1.00            | 90                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 1.06   | mg/Kg | 1        | 1.00            | 106                 | 70 - 130           |

**Method Blank (1)**      QC Batch: 42961

|                   |                            |                 |
|-------------------|----------------------------|-----------------|
| QC Batch: 42961   | Date Analyzed: 2007-11-12  | Analyzed By: LD |
| Prep Batch: 37071 | QC Preparation: 2007-11-12 | Prepared By: LD |



| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| DRO       |      | 30.6          | mg/Kg | 50 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 180    | mg/Kg | 1        | 150             | 120                 | 32.9 - 156.1       |

**Method Blank (1)** QC Batch: 42962

QC Batch: 42962 Date Analyzed: 2007-11-12 Analyzed By: LD  
Prep Batch: 37071 QC Preparation: 2007-11-12 Prepared By: LD

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| DRO       |      | 16.9          | mg/Kg | 50 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 158    | mg/Kg | 1        | 150             | 105                 | 32.9 - 156.1       |

**Method Blank (1)** QC Batch: 43012

QC Batch: 43012 Date Analyzed: 2007-11-10 Analyzed By: DC  
Prep Batch: 37111 QC Preparation: 2007-11-10 Prepared By: DC

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| GRO       |      | <0.0118       | mg/Kg | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.935  | mg/Kg | 1        | 1.00            | 94                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.946  | mg/Kg | 1        | 1.00            | 95                  | 70 - 130           |

**Method Blank (1)** QC Batch: 43032

QC Batch: 43032 Date Analyzed: 2007-11-12 Analyzed By: DC  
Prep Batch: 37129 QC Preparation: 2007-11-12 Prepared By: DC

| Parameter    | Flag | MDL<br>Result | Units | RL   |
|--------------|------|---------------|-------|------|
| Benzene      |      | <0.00110      | mg/Kg | 0.01 |
| Toluene      |      | <0.00150      | mg/Kg | 0.01 |
| Ethylbenzene |      | <0.00160      | mg/Kg | 0.01 |
| Xylene       |      | <0.00410      | mg/Kg | 0.01 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 1.18   | mg/Kg | 1        | 1.00         | 118              | 58.2 - 121.3    |
| 4-Bromofluorobenzene (4-BFB) |      | 0.530  | mg/Kg | 1        | 1.00         | 53               | 25 - 123.7      |

**Method Blank (1)** QC Batch: 43050

QC Batch: 43050  
Prep Batch: 37111

Date Analyzed: 2007-11-10  
QC Preparation: 2007-11-10

Analyzed By: DC  
Prepared By: DC

| Parameter    | Flag | MDL Result | Units | RL   |
|--------------|------|------------|-------|------|
| Benzene      |      | <0.00300   | mg/Kg | 0.01 |
| Toluene      |      | <0.00300   | mg/Kg | 0.01 |
| Ethylbenzene |      | <0.00400   | mg/Kg | 0.01 |
| Xylene       |      | <0.0140    | mg/Kg | 0.01 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 1.14   | mg/Kg | 1        | 1.00         | 114              | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      | 1.13   | mg/Kg | 1        | 1.00         | 113              | 70 - 130        |

**Method Blank (1)** QC Batch: 43051

QC Batch: 43051  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|------------|-------|----|
| GRO       |      | 0.928      | mg/Kg | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.917  | mg/Kg | 1        | 1.00         | 92               | 67.8 - 103      |
| 4-Bromofluorobenzene (4-BFB) |      | 0.489  | mg/Kg | 1        | 1.00         | 49               | 24.6 - 123      |

**Method Blank (1)** QC Batch: 43052

QC Batch: 43052  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Parameter    | Flag | MDL Result | Units | RL   |
|--------------|------|------------|-------|------|
| Benzene      |      | <0.00300   | mg/Kg | 0.01 |
| Toluene      |      | <0.00300   | mg/Kg | 0.01 |
| Ethylbenzene |      | <0.00400   | mg/Kg | 0.01 |
| Xylene       |      | <0.0140    | mg/Kg | 0.01 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.997  | mg/Kg | 1        | 1.00         | 100              | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      | 0.978  | mg/Kg | 1        | 1.00         | 98               | 70 - 130        |

**Method Blank (1)** QC Batch: 43054

QC Batch: 43054  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|------------|-------|----|
| GRO       |      | 0.263      | mg/Kg | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.948  | mg/Kg | 1        | 1.00         | 95               | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      | 0.956  | mg/Kg | 1        | 1.00         | 96               | 70 - 130        |

**Method Blank (1)** QC Batch: 43086

QC Batch: 43086  
Prep Batch: 37177

Date Analyzed: 2007-11-14  
QC Preparation: 2007-11-14

Analyzed By: DC  
Prepared By: DC

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|------------|-------|----|
| GRO       |      | 0.308      | mg/Kg | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.953  | mg/Kg | 1        | 1.00         | 95               | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      | 1.00   | mg/Kg | 1        | 1.00         | 100              | 70 - 130        |

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

QC Batch: 42961  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|-------|------------|-------|------|--------------|---------------|------|--------------|
| DRO   | 255        | mg/Kg | 1    | 250          | <13.4         | 102  | 49.1 - 142.3 |

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

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   | RPD | RPD Limit |
|-------|-------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| DRO   | 283         | mg/Kg | 1    | 250          | <13.4         | 113  | 49.1 - 142.3 | 10  | 20        |

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 |
|---------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Triacontane | 176           | 168            | mg/Kg | 1    | 150             | 117         | 112          | 49 - 133.2    |

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

QC Batch: 42962  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Param | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO   | 164           | mg/Kg | 1    | 250             | <13.4            | 66   | 49.1 - 142.3  |

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 |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO   | 176            | mg/Kg | 1    | 250             | <13.4            | 70   | 49.1 - 142.3  | 7   | 20           |

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 |
|---------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Triacontane | 148           | 174            | mg/Kg | 1    | 150             | 99          | 116          | 49 - 133.2    |

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

QC Batch: 43012  
Prep Batch: 37111

Date Analyzed: 2007-11-10  
QC Preparation: 2007-11-10

Analyzed By: DC  
Prepared By: DC

| Param | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO   | 7.98          | mg/Kg | 1    | 10.0            | <0.0118          | 80   | 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 |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO   | 8.18           | mg/Kg | 1    | 10.0            | <0.0118          | 82   | 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)       | 0.983         | 0.961          | mg/Kg | 1    | 1.00            | 98          | 96           | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.985         | 0.970          | mg/Kg | 1    | 1.00            | 98          | 97           | 70 - 130      |

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

QC Batch: 43032  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|--------------|------------|-------|------|--------------|---------------|------|--------------|
| Benzene      | 1.06       | mg/Kg | 1    | 1.00         | <0.00110      | 106  | 71.2 - 119   |
| Toluene      | 0.984      | mg/Kg | 1    | 1.00         | <0.00150      | 98   | 76.3 - 116.5 |
| Ethylbenzene | 0.866      | mg/Kg | 1    | 1.00         | <0.00160      | 87   | 77.6 - 114   |
| Xylene       | 2.56       | mg/Kg | 1    | 3.00         | <0.00410      | 85   | 78.8 - 113.9 |

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      | 1.06        | mg/Kg | 1    | 1.00         | <0.00110      | 106  | 71.2 - 119   | 0   | 20        |
| Toluene      | 0.981       | mg/Kg | 1    | 1.00         | <0.00150      | 98   | 76.3 - 116.5 | 0   | 20        |
| Ethylbenzene | 0.865       | mg/Kg | 1    | 1.00         | <0.00160      | 86   | 77.6 - 114   | 0   | 20        |
| Xylene       | 2.56        | mg/Kg | 1    | 3.00         | <0.00410      | 85   | 78.8 - 113.9 | 0   | 20        |

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

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit   |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|--------------|
| Trifluorotoluene (TFT)       | 0.983      | 0.985       | mg/Kg | 1    | 1.00         | 98       | 98        | 56.1 - 107.8 |
| 4-Bromofluorobenzene (4-BFB) | 0.751      | 0.761       | mg/Kg | 1    | 1.00         | 75       | 76        | 56.2 - 118.8 |

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

QC Batch: 43050  
Prep Batch: 37111

Date Analyzed: 2007-11-10  
QC Preparation: 2007-11-10

Analyzed By: DC  
Prepared By: DC

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|------------|-------|------|--------------|---------------|------|------------|
| Benzene      | 1.14       | mg/Kg | 1    | 1.00         | <0.00300      | 114  | 70 - 130   |
| Toluene      | 1.14       | mg/Kg | 1    | 1.00         | <0.00300      | 114  | 70 - 130   |
| Ethylbenzene | 1.14       | mg/Kg | 1    | 1.00         | <0.00400      | 114  | 70 - 130   |
| Xylene       | 3.41       | mg/Kg | 1    | 3.00         | <0.0140       | 114  | 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      | 1.15        | mg/Kg | 1    | 1.00         | <0.00300      | 115  | 70 - 130   | 1   |           |
| Toluene      | 1.16        | mg/Kg | 1    | 1.00         | <0.00300      | 116  | 70 - 130   | 2   |           |
| Ethylbenzene | 1.16        | mg/Kg | 1    | 1.00         | <0.00400      | 116  | 70 - 130   | 2   |           |
| Xylene       | 3.50        | mg/Kg | 1    | 3.00         | <0.0140       | 117  | 70 - 130   | 3   |           |

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

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT)       | 1.16       | 1.18        | mg/Kg | 1    | 1.00         | 116      | 118       | 70 - 130   |
| 4-Bromofluorobenzene (4-BFB) | 1.13       | 1.15        | mg/Kg | 1    | 1.00         | 113      | 115       | 70 - 130   |

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

QC Batch: 43051  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO   | 8.80          | mg/Kg | 1    | 10.0            | <0.739           | 88   | 56 - 105.2    |

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 |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO   | 9.04           | mg/Kg | 1    | 10.0            | <0.739           | 90   | 56 - 105.2    | 3   | 20           |

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)       | 0.912         | 0.807          | mg/Kg | 1    | 1.00            | 91          | 81           | 61.1 - 148.1  |
| 4-Bromofluorobenzene (4-BFB) | 0.679         | 0.701          | mg/Kg | 1    | 1.00            | 68          | 70           | 67.2 - 119.2  |

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

QC Batch: 43052  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 1.08          | mg/Kg | 1    | 1.00            | <0.00300         | 108  | 70 - 130      |
| Toluene      | 1.08          | mg/Kg | 1    | 1.00            | <0.00300         | 108  | 70 - 130      |
| Ethylbenzene | 1.08          | mg/Kg | 1    | 1.00            | <0.00400         | 108  | 70 - 130      |
| Xylene       | 3.24          | mg/Kg | 1    | 3.00            | <0.0140          | 108  | 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      | 1.00           | mg/Kg | 1    | 1.00            | <0.00300         | 100  | 70 - 130      | 8   |              |
| Toluene      | 1.00           | mg/Kg | 1    | 1.00            | <0.00300         | 100  | 70 - 130      | 8   |              |
| Ethylbenzene | 1.01           | mg/Kg | 1    | 1.00            | <0.00400         | 101  | 70 - 130      | 7   |              |
| Xylene       | 3.02           | mg/Kg | 1    | 3.00            | <0.0140          | 101  | 70 - 130      | 7   |              |

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)       | 1.00          | 0.974          | mg/Kg | 1    | 1.00            | 100         | 97           | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 1.00          | 0.997          | mg/Kg | 1    | 1.00            | 100         | 100          | 70 - 130      |

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

QC Batch: 43054  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO   | 8.22          | mg/Kg | 1    | 10.0            | <0.0118          | 82   | 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 |
|-------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO   | 8.24        | mg/Kg | 1    | 10.0         | <0.0118       | 82   | 70 - 130   | 0   |           |

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

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT)       | 1.00       | 0.995       | mg/Kg | 1    | 1.00         | 100      | 100       | 70 - 130   |
| 4-Bromofluorobenzene (4-BFB) | 0.998      | 0.999       | mg/Kg | 1    | 1.00         | 100      | 100       | 70 - 130   |

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

QC Batch: 43086  
Prep Batch: 37177

Date Analyzed: 2007-11-14  
QC Preparation: 2007-11-14

Analyzed By: DC  
Prepared By: DC

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|------------|-------|------|--------------|---------------|------|------------|
| GRO   | 8.25       | mg/Kg | 1    | 10.0         | <0.0118       | 82   | 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 |
|-------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO   | 9.86        | mg/Kg | 1    | 10.0         | <0.0118       | 99   | 70 - 130   | 18  |           |

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)       | 0.970      | 0.941       | mg/Kg | 1    | 1.00         | 97       | 94        | 70 - 130   |
| 4-Bromofluorobenzene (4-BFB) | 1.03       | 1.02        | mg/Kg | 1    | 1.00         | 103      | 102       | 70 - 130   |

#### Matrix Spike (MS-1) Spiked Sample: 142524

QC Batch: 42961  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|-------|-----------|-------|------|--------------|---------------|------|--------------|
| DRO   | 328       | mg/Kg | 1    | 250          | <13.4         | 131  | 30.2 - 201.4 |

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

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   | RPD | RPD Limit |
|-------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| DRO   | 300        | mg/Kg | 1    | 250          | <13.4         | 120  | 30.2 - 201.4 | 9   | 20        |

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

| Surrogate     | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|---------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| n-Triacontane | 206       | 193        | mg/Kg | 1    | 150          | 137     | 129      | 10 - 194   |

**Matrix Spike (MS-1)** Spiked Sample: 142536

QC Batch: 42962  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|-------|-----------|-------|------|--------------|---------------|------|--------------|
| DRO   | 110       | mg/Kg | 1    | 250          | <13.4         | 44   | 30.2 - 201.4 |

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

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   | RPD | RPD Limit |
|-------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| DRO   | 108        | mg/Kg | 1    | 250          | <13.4         | 43   | 30.2 - 201.4 | 2   | 20        |

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

| Surrogate     | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|---------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| n-Triacontane | 223       | 186        | mg/Kg | 1    | 150          | 149     | 124      | 10 - 194   |

**Matrix Spike (MS-1)** Spiked Sample: 141532

QC Batch: 43012  
Prep Batch: 37111

Date Analyzed: 2007-11-10  
QC Preparation: 2007-11-10

Analyzed By: DC  
Prepared By: DC

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|-----------|-------|------|--------------|---------------|------|------------|
| GRO   | 176       | mg/Kg | 2    | 20.0         | 162.052       | 70   | 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 |
|-------|-------------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO   | <sup>15</sup> 194 | mg/Kg | 2    | 20.0         | 162.052       | 160  | 70 - 130   | 10  |           |

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

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT)       | 1.59      | 1.58       | mg/Kg | 2    | 2            | 80      | 79       | 70 - 130   |
| 4-Bromofluorobenzene (4-BFB) | 2.52      | 2.03       | mg/Kg | 2    | 2            | 126     | 102      | 70 - 130   |

**Matrix Spike (MS-1)** Spiked Sample: 142541

QC Batch: 43032  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param   | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|---------|-----------|-------|------|--------------|---------------|------|--------------|
| Benzene | 1.11      | mg/Kg | 1    | 1.00         | <0.00110      | 111  | 65.7 - 119.1 |
| Toluene | 1.16      | mg/Kg | 1    | 1.00         | <0.00150      | 116  | 47.7 - 153.8 |

*continued ...*

<sup>15</sup>Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.



matrix spikes continued ...

| Param        | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|--------------|-----------|-------|------|--------------|---------------|------|--------------|
| Ethylbenzene | 1.18      | mg/Kg | 1    | 1.00         | <0.00160      | 118  | 73.5 - 126.3 |
| Xylene       | 3.55      | mg/Kg | 1    | 3.00         | <0.00410      | 118  | 73.6 - 125.9 |

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      | 1.07       | mg/Kg | 1    | 1.00         | <0.00110      | 107  | 65.7 - 119.1 | 4   | 20        |
| Toluene      | 1.11       | mg/Kg | 1    | 1.00         | <0.00150      | 111  | 47.7 - 153.8 | 4   | 20        |
| Ethylbenzene | 1.13       | mg/Kg | 1    | 1.00         | <0.00160      | 113  | 73.5 - 126.3 | 4   | 20        |
| Xylene       | 3.41       | mg/Kg | 1    | 3.00         | <0.00410      | 114  | 73.6 - 125.9 | 4   | 20        |

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

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit   |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|--------------|
| Trifluorotoluene (TFT)       | 0.998     | 1.01       | mg/Kg | 1    | 1            | 100     | 101      | 51 - 109.6   |
| 4-Bromofluorobenzene (4-BFB) | 1.24      | 1.18       | mg/Kg | 1    | 1            | 124     | 118      | 60.3 - 124.3 |

**Matrix Spike (MS-1)** Spiked Sample: 142516

QC Batch: 43050  
Prep Batch: 37111

Date Analyzed: 2007-11-10  
QC Preparation: 2007-11-10

Analyzed By: DC  
Prepared By: DC

| Param        | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|-----------|-------|------|--------------|---------------|------|------------|
| Benzene      | 1.06      | mg/Kg | 1    | 1.00         | <0.00300      | 106  | 70 - 130   |
| Toluene      | 1.08      | mg/Kg | 1    | 1.00         | <0.00300      | 108  | 70 - 130   |
| Ethylbenzene | 1.06      | mg/Kg | 1    | 1.00         | <0.00400      | 106  | 70 - 130   |
| Xylene       | 3.17      | mg/Kg | 1    | 3.00         | <0.0140       | 106  | 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      | 1.09       | mg/Kg | 1    | 1.00         | <0.00300      | 109  | 70 - 130   | 3   |           |
| Toluene      | 1.10       | mg/Kg | 1    | 1.00         | <0.00300      | 110  | 70 - 130   | 2   |           |
| Ethylbenzene | 1.08       | mg/Kg | 1    | 1.00         | <0.00400      | 108  | 70 - 130   | 2   |           |
| Xylene       | 3.24       | mg/Kg | 1    | 3.00         | <0.0140       | 108  | 70 - 130   | 2   |           |

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

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT)       | 1.10      | 1.07       | mg/Kg | 1    | 1            | 110     | 107      | 70 - 130   |
| 4-Bromofluorobenzene (4-BFB) | 1.09      | 1.08       | mg/Kg | 1    | 1            | 109     | 108      | 70 - 130   |

**Matrix Spike (MS-1)** Spiked Sample: 142524

QC Batch: 43051  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|-----------|-------|------|--------------|---------------|------|------------|
| GRO   | 14.8      | mg/Kg | 1    | 10.0         | 11.3819       | 34   | 10 - 102.2 |

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

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO   | 14.6       | mg/Kg | 1    | 10.0         | 11.3819       | 32   | 10 - 102.2 | 1   | 20        |

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

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit  |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|-------------|
| Trifluorotoluene (TFT)       | 0.604     | 0.605      | mg/Kg | 1    | 1            | 60      | 60       | 47.2 - 84.2 |
| 4-Bromofluorobenzene (4-BFB) | 1.15      | 1.10       | mg/Kg | 1    | 1            | 115     | 110      | 58 - 162.6  |

**Matrix Spike (MS-1)** Spiked Sample: 142522

QC Batch: 43052  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param        | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|-----------|-------|------|--------------|---------------|------|------------|
| Benzene      | 1.07      | mg/Kg | 1    | 1.00         | 0.0152        | 105  | 70 - 130   |
| Toluene      | 1.10      | mg/Kg | 1    | 1.00         | 0.0535        | 105  | 70 - 130   |
| Ethylbenzene | 1.14      | mg/Kg | 1    | 1.00         | 0.0307        | 111  | 70 - 130   |
| Xylene       | 3.28      | mg/Kg | 1    | 3.00         | 0.0857        | 106  | 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      | 0.937      | mg/Kg | 1    | 1.00         | 0.0152        | 92   | 70 - 130   | 13  |           |
| Toluene      | 0.946      | mg/Kg | 1    | 1.00         | 0.0535        | 89   | 70 - 130   | 15  |           |
| Ethylbenzene | 1.01       | mg/Kg | 1    | 1.00         | 0.0307        | 98   | 70 - 130   | 12  |           |
| Xylene       | 2.96       | mg/Kg | 1    | 3.00         | 0.0857        | 96   | 70 - 130   | 10  |           |

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

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT)       | 0.935     | 0.906      | mg/Kg | 1    | 1            | 94      | 91       | 70 - 130   |
| 4-Bromofluorobenzene (4-BFB) | 1.01      | 1.07       | mg/Kg | 1    | 1            | 101     | 107      | 70 - 130   |

**Matrix Spike (MS-1)** Spiked Sample: 142542

QC Batch: 43054  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|-----------|-------|------|--------------|---------------|------|------------|
| GRO   | 8.05      | mg/Kg | 1    | 10.0         | <0.0118       | 80   | 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 |
|-------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO   | 8.22       | mg/Kg | 1    | 10.0         | <0.0118       | 82   | 70 - 130   | 2   |           |

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

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT)       | 0.806     | 0.869      | mg/Kg | 1    | 1            | 81      | 87       | 70 - 130   |
| 4-Bromofluorobenzene (4-BFB) | 0.989     | 1.04       | mg/Kg | 1    | 1            | 99      | 104      | 70 - 130   |

**Matrix Spike (MS-1)** Spiked Sample: 142528

QC Batch: 43086  
Prep Batch: 37177

Date Analyzed: 2007-11-14  
QC Preparation: 2007-11-14

Analyzed By: DC  
Prepared By: DC

| Param | MS Result          | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|--------------------|-------|------|--------------|---------------|------|------------|
| GRO   | <sup>16</sup> 1990 | mg/Kg | 50   | 500          | 1813.82       | 35   | 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 |
|-------|--------------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO   | <sup>17</sup> 1840 | mg/Kg | 50   | 500          | 1813.82       | 5    | 70 - 130   | 8   |           |

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)       | 47.7                  | 47.6       | mg/Kg | 50   | 50           | 95      | 95       | 70 - 130   |
| 4-Bromofluorobenzene (4-BFB) | <sup>18 19</sup> 67.0 | 66.1       | mg/Kg | 50   | 50           | 134     | 132      | 70 - 130   |

**Standard (ICV-1)**

QC Batch: 42961

Date Analyzed: 2007-11-12

Analyzed By: LD

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| DRO   |      | mg/Kg | 250             | 222              | 89                    | 85 - 115                | 2007-11-12    |

**Standard (CCV-1)**

QC Batch: 42961

Date Analyzed: 2007-11-12

Analyzed By: LD

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| DRO   |      | mg/Kg | 250             | 251              | 100                   | 85 - 115                | 2007-11-12    |

<sup>16</sup>Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>17</sup>Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>18</sup>High surrogate recovery due to peak interference.

<sup>19</sup>High surrogate recovery due to peak interference.

**Standard (CCV-2)**

QC Batch: 42961

Date Analyzed: 2007-11-12

Analyzed By: LD

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 232                    | 93                          | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 42962

Date Analyzed: 2007-11-12

Analyzed By: LD

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 260                    | 104                         | 85 - 115                      | 2007-11-12       |

**Standard (CCV-2)**

QC Batch: 42962

Date Analyzed: 2007-11-12

Analyzed By: LD

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 222                    | 89                          | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43012

Date Analyzed: 2007-11-10

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.969                  | 97                          | 85 - 115                      | 2007-11-10       |

**Standard (CCV-1)**

QC Batch: 43012

Date Analyzed: 2007-11-10

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.965                  | 96                          | 85 - 115                      | 2007-11-10       |

**Standard (ICV-1)**

QC Batch: 43032

Date Analyzed: 2007-11-12

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/Kg | 0.100                 | 0.115                  | 115                         | 85 - 115                      | 2007-11-12       |
| Toluene      |      | mg/Kg | 0.100                 | 0.113                  | 113                         | 85 - 115                      | 2007-11-12       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.105                  | 105                         | 85 - 115                      | 2007-11-12       |
| Xylene       |      | mg/Kg | 0.300                 | 0.312                  | 104                         | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 43032

Date Analyzed: 2007-11-12

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/Kg | 0.100                 | 0.0993                 | 99                          | 85 - 115                      | 2007-11-12       |
| Toluene      |      | mg/Kg | 0.100                 | 0.0924                 | 92                          | 85 - 115                      | 2007-11-12       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.0860                 | 86                          | 85 - 115                      | 2007-11-12       |
| Xylene       |      | mg/Kg | 0.300                 | 0.255                  | 85                          | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43050

Date Analyzed: 2007-11-10

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/Kg | 0.100                 | 0.113                  | 113                         | 85 - 115                      | 2007-11-10       |
| Toluene      |      | mg/Kg | 0.100                 | 0.113                  | 113                         | 85 - 115                      | 2007-11-10       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.112                  | 112                         | 85 - 115                      | 2007-11-10       |
| Xylene       |      | mg/Kg | 0.300                 | 0.337                  | 112                         | 85 - 115                      | 2007-11-10       |

**Standard (CCV-1)**

QC Batch: 43050

Date Analyzed: 2007-11-10

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/Kg | 0.100                 | 0.104                  | 104                         | 85 - 115                      | 2007-11-10       |
| Toluene      |      | mg/Kg | 0.100                 | 0.104                  | 104                         | 85 - 115                      | 2007-11-10       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.103                  | 103                         | 85 - 115                      | 2007-11-10       |
| Xylene       |      | mg/Kg | 0.300                 | 0.311                  | 104                         | 85 - 115                      | 2007-11-10       |

**Standard (ICV-1)**

QC Batch: 43051

Date Analyzed: 2007-11-12

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.899                  | 90                          | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 43051

Date Analyzed: 2007-11-12

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.977                  | 98                          | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43052

Date Analyzed: 2007-11-12

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/Kg | 0.100                 | 0.104                  | 104                         | 85 - 115                      | 2007-11-12       |
| Toluene      |      | mg/Kg | 0.100                 | 0.0924                 | 92                          | 85 - 115                      | 2007-11-12       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.0910                 | 91                          | 85 - 115                      | 2007-11-12       |
| Xylene       |      | mg/Kg | 0.300                 | 0.274                  | 91                          | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 43052

Date Analyzed: 2007-11-12

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/Kg | 0.100                 | 0.0888                 | 89                          | 85 - 115                      | 2007-11-12       |
| Toluene      |      | mg/Kg | 0.100                 | 0.0876                 | 88                          | 85 - 115                      | 2007-11-12       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.0856                 | 86                          | 85 - 115                      | 2007-11-12       |
| Xylene       |      | mg/Kg | 0.300                 | 0.255                  | 85                          | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43054

Date Analyzed: 2007-11-12

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.971                  | 97                          | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 43054

Date Analyzed: 2007-11-12

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 1.05                   | 105                         | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43086

Date Analyzed: 2007-11-14

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 1.13                   | 113                         | 85 - 115                      | 2007-11-14       |

**Standard (CCV-1)**

QC Batch: 43086

Date Analyzed: 2007-11-14

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 1.04                   | 104                         | 85 - 115                      | 2007-11-14       |





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## Analytical and Quality Control Report

Marc Stroope  
Talon LPE-Hobbs  
318 E Taylor  
Hobbs, NM, 88240

Report Date: November 21, 2007

Work Order: 7110931



Project Location: Lea County, NM  
Project Name: Moore to Jal #1  
Project Number: Plains007SPL  
SRS #: 2002-10270

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 |
|--------|-------------|--------|------------|------------|---------------|
| 142523 | MW-9 65'    | soil   | 2007-11-07 | 07:54      | 2007-11-09    |
| 142524 | MW-9 90'    | soil   | 2007-11-07 | 07:58      | 2007-11-09    |
| 142525 | MW-10 60'   | soil   | 2007-11-07 | 09:50      | 2007-11-09    |
| 142526 | MW-10 65'   | soil   | 2007-11-07 | 09:52      | 2007-11-09    |
| 142527 | MW-10 90'   | soil   | 2007-11-07 | 09:56      | 2007-11-09    |
| 142528 | MW-11 65'   | soil   | 2007-11-07 | 13:42      | 2007-11-09    |
| 142529 | MW-11 90'   | soil   | 2007-11-07 | 13:48      | 2007-11-09    |
| 142530 | MW-12 65'   | soil   | 2007-11-07 | 15:23      | 2007-11-09    |
| 142531 | MW-12 90'   | soil   | 2007-11-07 | 15:28      | 2007-11-09    |

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

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

Dr. Blair Leftwich, Director

**Standard Flags**

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

## Analytical Report

### Sample: 142523 - MW-9 65'

Analysis: BTEX  
QC Batch: 43032  
Prep Batch: 37129

Analytical Method: S 8021B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | 0.413        | mg/Kg | 10       | 0.0100 |
| Toluene      |      | 15.8         | mg/Kg | 10       | 0.0100 |
| Ethylbenzene |      | 13.8         | mg/Kg | 10       | 0.0100 |
| Xylene       |      | 41.5         | mg/Kg | 10       | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 7.31   | mg/Kg | 10       | 10.0            | 73                  | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) | 1    | 24.8   | mg/Kg | 10       | 10.0            | 248                 | 47.3 - 144.2       |

### Sample: 142523 - MW-9 65'

Analysis: TPH DRO  
QC Batch: 42962  
Prep Batch: 37071

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | 5000         | mg/Kg | 5        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 202    | mg/Kg | 5        | 150             | 135                 | 17.3 - 169.6       |

### Sample: 142523 - MW-9 65'

Analysis: TPH GRO  
QC Batch: 43051  
Prep Batch: 37129

Analytical Method: S 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 642          | mg/Kg | 10       | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 5.59   | mg/Kg | 10       | 10.0            | 56                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) | 2    | 27.3   | mg/Kg | 10       | 10.0            | 273                 | 51.2 - 107.4       |

<sup>1</sup>High surrogate recovery due to peak interference.

<sup>2</sup>High surrogate recovery due to peak interference.

**Sample: 142524 - MW-9 90'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43032   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result  | Units | Dilution | RL     |
|--------------|------|---------------|-------|----------|--------|
| Benzene      |      | <0.0100       | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100       | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <b>0.0270</b> | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <b>0.0772</b> | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.04   | mg/Kg | 1        | 1.00            | 104                 | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) |      | 1.22   | mg/Kg | 1        | 1.00            | 122                 | 47.3 - 144.2       |

**Sample: 142524 - MW-9 90'**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42961   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 187    | mg/Kg | 1        | 150             | 125                 | 17.3 - 169.6       |

**Sample: 142524 - MW-9 90'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43051   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | <b>11.4</b>  | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |              | 0.762  | mg/Kg | 1        | 1.00            | 76                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) | <sup>3</sup> | 1.16   | mg/Kg | 1        | 1.00            | 116                 | 51.2 - 107.4       |

<sup>3</sup>High surrogate recovery due to peak interference.

**Sample: 142525 - MW-10 60'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43032   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0500      | mg/Kg | 5        | 0.0100 |
| Toluene      |      | <b>2.69</b>  | mg/Kg | 5        | 0.0100 |
| Ethylbenzene |      | <b>6.30</b>  | mg/Kg | 5        | 0.0100 |
| Xylene       |      | <b>21.2</b>  | mg/Kg | 5        | 0.0100 |

| Surrogate                    | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |              | 5.08   | mg/Kg | 5        | 5.00            | 102                 | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) | <sup>4</sup> | 14.0   | mg/Kg | 5        | 5.00            | 280                 | 47.3 - 144.2       |

**Sample: 142525 - MW-10 60'**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42961   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <b>2240</b>  | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | <sup>5</sup> | 331    | mg/Kg | 1        | 150             | 221                 | 17.3 - 169.6       |

**Sample: 142525 - MW-10 60'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43051   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | <b>346</b>   | mg/Kg | 5        | 1.00 |

| Surrogate                    | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |              | 2.94   | mg/Kg | 5        | 5.00            | 59                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) | <sup>6</sup> | 15.0   | mg/Kg | 5        | 5.00            | 300                 | 51.2 - 107.4       |

<sup>4</sup>High surrogate recovery due to peak interference.

<sup>5</sup>High surrogate recovery due to peak interference.

<sup>6</sup>High surrogate recovery due to peak interference.

**Sample: 142526 - MW-10 65'**

Analysis: BTEX  
QC Batch: 43032  
Prep Batch: 37129

Analytical Method: S 8021B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | 0.216        | mg/Kg | 5        | 0.0100 |
| Toluene      |      | 8.57         | mg/Kg | 5        | 0.0100 |
| Ethylbenzene |      | 7.27         | mg/Kg | 5        | 0.0100 |
| Xylene       |      | 22.3         | mg/Kg | 5        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 3.62   | mg/Kg | 5        | 5.00            | 72                  | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) | 7    | 15.1   | mg/Kg | 5        | 5.00            | 302                 | 47.3 - 144.2       |

**Sample: 142526 - MW-10 65'**

Analysis: TPH DRO  
QC Batch: 42961  
Prep Batch: 37071

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | 3940         | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | 8    | 285    | mg/Kg | 1        | 150             | 190                 | 17.3 - 169.6       |

**Sample: 142526 - MW-10 65'**

Analysis: TPH GRO  
QC Batch: 43051  
Prep Batch: 37129

Analytical Method: S 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 374          | mg/Kg | 5        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 2.59   | mg/Kg | 5        | 5.00            | 52                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) | 9    | 15.6   | mg/Kg | 5        | 5.00            | 312                 | 51.2 - 107.4       |

<sup>7</sup>High surrogate recovery due to peak interference.

<sup>8</sup>High surrogate recovery due to peak interference.

<sup>9</sup>High surrogate recovery due to peak interference.

**Sample: 142527 - MW-10 90'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43032   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result  | Units | Dilution | RL     |
|--------------|------|---------------|-------|----------|--------|
| Benzene      |      | <0.0100       | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100       | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100       | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <b>0.0369</b> | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.03   | mg/Kg | 1        | 1.00            | 103                 | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) |      | 1.23   | mg/Kg | 1        | 1.00            | 123                 | 47.3 - 144.2       |

**Sample: 142527 - MW-10 90'**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42961   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag     | RL<br>Result | Units | Dilution | RL   |
|-----------|----------|--------------|-------|----------|------|
| DRO       | <i>B</i> | <b>85.6</b>  | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 151    | mg/Kg | 1        | 150             | 101                 | 17.3 - 169.6       |

**Sample: 142527 - MW-10 90'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43051   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter | Flag     | RL<br>Result | Units | Dilution | RL   |
|-----------|----------|--------------|-------|----------|------|
| GRO       | <i>B</i> | <b>6.08</b>  | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag          | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |               | 0.774  | mg/Kg | 1        | 1.00            | 77                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) | <sup>10</sup> | 1.11   | mg/Kg | 1        | 1.00            | 111                 | 51.2 - 107.4       |

<sup>10</sup>High surrogate recovery due to peak interference.

**Sample: 142528 - MW-11 65'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43032   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0500      | mg/Kg | 5        | 0.0100 |
| Toluene      |      | 8.37         | mg/Kg | 5        | 0.0100 |
| Ethylbenzene |      | 12.0         | mg/Kg | 5        | 0.0100 |
| Xylene       |      | 38.1         | mg/Kg | 5        | 0.0100 |

| Surrogate                    | Flag          | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |               | 5.07   | mg/Kg | 5        | 5.00            | 101                 | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) | <sup>11</sup> | 18.5   | mg/Kg | 5        | 5.00            | 370                 | 47.3 - 144.2       |

**Sample: 142528 - MW-11 65'**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42961   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | 4120         | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag          | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|---------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | <sup>12</sup> | 337    | mg/Kg | 1        | 150             | 225                 | 17.3 - 169.6       |

**Sample: 142528 - MW-11 65'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43086   | Date Analyzed: 2007-11-14      | Analyzed By: DC     |
| Prep Batch: 37177 | Sample Preparation: 2007-11-14 | Prepared By: DC     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 1810         | mg/Kg | 50       | 1.00 |

| Surrogate                    | Flag          | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |               | 46.1   | mg/Kg | 50       | 50.0            | 92                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) | <sup>13</sup> | 68.1   | mg/Kg | 50       | 50.0            | 136                 | 70 - 130           |

<sup>11</sup>High surrogate recovery due to peak interference.

<sup>12</sup>High surrogate recovery due to peak interference.

<sup>13</sup>High surrogate recovery due to peak interference.



**Sample: 142529 - MW-11 90'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43032   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result  | Units | Dilution | RL     |
|--------------|------|---------------|-------|----------|--------|
| Benzene      |      | <0.0100       | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100       | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100       | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <b>0.0326</b> | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.07   | mg/Kg | 1        | 1.00            | 107                 | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) |      | 1.15   | mg/Kg | 1        | 1.00            | 115                 | 47.3 - 144.2       |

**Sample: 142529 - MW-11 90'**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42961   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 229    | mg/Kg | 1        | 150             | 153                 | 17.3 - 169.6       |

**Sample: 142529 - MW-11 90'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43051   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       | B    | <b>6.80</b>  | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.793  | mg/Kg | 1        | 1.00            | 79                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) |      | 1.06   | mg/Kg | 1        | 1.00            | 106                 | 51.2 - 107.4       |

**Sample: 142530 - MW-12 65'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43032   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | 0.679        | mg/Kg | 20       | 0.0100 |
| Toluene      |      | 41.3         | mg/Kg | 20       | 0.0100 |
| Ethylbenzene |      | 39.6         | mg/Kg | 20       | 0.0100 |
| Xylene       |      | 117          | mg/Kg | 20       | 0.0100 |

| Surrogate                    | Flag          | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |               | 20.3   | mg/Kg | 20       | 20.0            | 102                 | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) | <sup>14</sup> | 63.8   | mg/Kg | 20       | 20.0            | 319                 | 47.3 - 144.2       |

**Sample: 142530 - MW-12 65'**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42962   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | 10100        | mg/Kg | 10       | 50.0 |

| Surrogate     | Flag          | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|---------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | <sup>15</sup> | 434    | mg/Kg | 10       | 150             | 289                 | 17.3 - 169.6       |

**Sample: 142530 - MW-12 65'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43086   | Date Analyzed: 2007-11-14      | Analyzed By: DC     |
| Prep Batch: 37177 | Sample Preparation: 2007-11-14 | Prepared By: DC     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 3800         | mg/Kg | 100      | 1.00 |

| Surrogate                    | Flag          | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |               | 92.2   | mg/Kg | 100      | 100             | 92                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) | <sup>16</sup> | 135    | mg/Kg | 100      | 100             | 135                 | 70 - 130           |

<sup>14</sup>High surrogate recovery due to peak interference.

<sup>15</sup>High surrogate recovery due to peak interference.

<sup>16</sup>High surrogate recovery due to peak interference.

**Sample: 142531 - MW-12 90'**

Analysis: BTEX  
QC Batch: 43032  
Prep Batch: 37129

Analytical Method: S 8021B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | 0.0607       | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.04   | mg/Kg | 1        | 1.00            | 104                 | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) |      | 1.13   | mg/Kg | 1        | 1.00            | 113                 | 47.3 - 144.2       |

**Sample: 142531 - MW-12 90'**

Analysis: TPH DRO  
QC Batch: 42962  
Prep Batch: 37071

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 164    | mg/Kg | 1        | 150             | 109                 | 17.3 - 169.6       |

**Sample: 142531 - MW-12 90'**

Analysis: TPH GRO  
QC Batch: 43051  
Prep Batch: 37129

Analytical Method: S 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       | B    | 8.14         | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.760  | mg/Kg | 1        | 1.00            | 76                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) |      | 1.03   | mg/Kg | 1        | 1.00            | 103                 | 51.2 - 107.4       |

**Method Blank (1)**      QC Batch: 42961

QC Batch: 42961  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| DRO       |      | 30.6          | mg/Kg | 50 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 180    | mg/Kg | 1        | 150             | 120                 | 32.9 - 156.1       |

**Method Blank (1)** QC Batch: 42962

QC Batch: 42962  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| DRO       |      | 16.9          | mg/Kg | 50 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 158    | mg/Kg | 1        | 150             | 105                 | 32.9 - 156.1       |

**Method Blank (1)** QC Batch: 43032

QC Batch: 43032  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Parameter    | Flag | MDL<br>Result | Units | RL   |
|--------------|------|---------------|-------|------|
| Benzene      |      | <0.00110      | mg/Kg | 0.01 |
| Toluene      |      | <0.00150      | mg/Kg | 0.01 |
| Ethylbenzene |      | <0.00160      | mg/Kg | 0.01 |
| Xylene       |      | <0.00410      | mg/Kg | 0.01 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.18   | mg/Kg | 1        | 1.00            | 118                 | 58.2 - 121.3       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.530  | mg/Kg | 1        | 1.00            | 53                  | 25 - 123.7         |

**Method Blank (1)** QC Batch: 43051

QC Batch: 43051  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| GRO       |      | 0.928         | mg/Kg | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.917  | mg/Kg | 1        | 1.00         | 92               | 67.8 - 103      |
| 4-Bromofluorobenzene (4-BFB) |      | 0.489  | mg/Kg | 1        | 1.00         | 49               | 24.6 - 123      |

**Method Blank (1)**      QC Batch: 43086

QC Batch: 43086  
Prep Batch: 37177

Date Analyzed: 2007-11-14  
QC Preparation: 2007-11-14

Analyzed By: DC  
Prepared By: DC

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|------------|-------|----|
| GRO       |      | 0.308      | mg/Kg | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.953  | mg/Kg | 1        | 1.00         | 95               | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      | 1.00   | mg/Kg | 1        | 1.00         | 100              | 70 - 130        |

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

QC Batch: 42961  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|-------|------------|-------|------|--------------|---------------|------|--------------|
| DRO   | 255        | mg/Kg | 1    | 250          | <13.4         | 102  | 49.1 - 142.3 |

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

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   | RPD | RPD Limit |
|-------|-------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| DRO   | 283         | mg/Kg | 1    | 250          | <13.4         | 113  | 49.1 - 142.3 | 10  | 20        |

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

| Surrogate     | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| n-Triacontane | 176        | 168         | mg/Kg | 1    | 150          | 117      | 112       | 49 - 133.2 |

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

QC Batch: 42962  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|-------|------------|-------|------|--------------|---------------|------|--------------|
| DRO   | 164        | mg/Kg | 1    | 250          | <13.4         | 66   | 49.1 - 142.3 |

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 |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO   | 176            | mg/Kg | 1    | 250             | <13.4            | 70   | 49.1 - 142.3  | 7   | 20           |

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 |
|---------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Triacontane | 148           | 174            | mg/Kg | 1    | 150             | 99          | 116          | 49 - 133.2    |

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

QC Batch: 43032  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 1.06          | mg/Kg | 1    | 1.00            | <0.00110         | 106  | 71.2 - 119    |
| Toluene      | 0.984         | mg/Kg | 1    | 1.00            | <0.00150         | 98   | 76.3 - 116.5  |
| Ethylbenzene | 0.866         | mg/Kg | 1    | 1.00            | <0.00160         | 87   | 77.6 - 114    |
| Xylene       | 2.56          | mg/Kg | 1    | 3.00            | <0.00410         | 85   | 78.8 - 113.9  |

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      | 1.06           | mg/Kg | 1    | 1.00            | <0.00110         | 106  | 71.2 - 119    | 0   | 20           |
| Toluene      | 0.981          | mg/Kg | 1    | 1.00            | <0.00150         | 98   | 76.3 - 116.5  | 0   | 20           |
| Ethylbenzene | 0.865          | mg/Kg | 1    | 1.00            | <0.00160         | 86   | 77.6 - 114    | 0   | 20           |
| Xylene       | 2.56           | mg/Kg | 1    | 3.00            | <0.00410         | 85   | 78.8 - 113.9  | 0   | 20           |

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)       | 0.983         | 0.985          | mg/Kg | 1    | 1.00            | 98          | 98           | 56.1 - 107.8  |
| 4-Bromofluorobenzene (4-BFB) | 0.751         | 0.761          | mg/Kg | 1    | 1.00            | 75          | 76           | 56.2 - 118.8  |

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

QC Batch: 43051  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO   | 8.80          | mg/Kg | 1    | 10.0            | <0.739           | 88   | 56 - 105.2    |

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 |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO   | 9.04           | mg/Kg | 1    | 10.0            | <0.739           | 90   | 56 - 105.2    | 3   | 20           |

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)       | 0.912         | 0.807          | mg/Kg | 1    | 1.00            | 91          | 81           | 61.1 - 148.1  |
| 4-Bromofluorobenzene (4-BFB) | 0.679         | 0.701          | mg/Kg | 1    | 1.00            | 68          | 70           | 67.2 - 119.2  |

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

QC Batch: 43086  
Prep Batch: 37177

Date Analyzed: 2007-11-14  
QC Preparation: 2007-11-14

Analyzed By: DC  
Prepared By: DC

| Param | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO   | 8.25          | mg/Kg | 1    | 10.0            | <0.0118          | 82   | 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 |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO   | 9.86           | mg/Kg | 1    | 10.0            | <0.0118          | 99   | 70 - 130      | 18  |              |

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)       | 0.970         | 0.941          | mg/Kg | 1    | 1.00            | 97          | 94           | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 1.03          | 1.02           | mg/Kg | 1    | 1.00            | 103         | 102          | 70 - 130      |

**Matrix Spike (MS-1)** Spiked Sample: 142524

QC Batch: 42961  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Param | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|--------------|-------|------|-----------------|------------------|------|---------------|
| DRO   | 328          | mg/Kg | 1    | 250             | <13.4            | 131  | 30.2 - 201.4  |

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 |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO   | 300           | mg/Kg | 1    | 250             | <13.4            | 120  | 30.2 - 201.4  | 9   | 20           |

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 |
|---------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| n-Triacontane | 206          | 193           | mg/Kg | 1    | 150             | 137        | 129         | 10 - 194      |

**Matrix Spike (MS-1)** Spiked Sample: 142536

QC Batch: 42962  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|-------|-----------|-------|------|--------------|---------------|------|--------------|
| DRO   | 110       | mg/Kg | 1    | 250          | <13.4         | 44   | 30.2 - 201.4 |

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

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   | RPD | RPD Limit |
|-------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| DRO   | 108        | mg/Kg | 1    | 250          | <13.4         | 43   | 30.2 - 201.4 | 2   | 20        |

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

| Surrogate     | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|---------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| n-Triacontane | 223       | 186        | mg/Kg | 1    | 150          | 149     | 124      | 10 - 194   |

**Matrix Spike (MS-1)** Spiked Sample: 142541

QC Batch: 43032  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param        | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|--------------|-----------|-------|------|--------------|---------------|------|--------------|
| Benzene      | 1.11      | mg/Kg | 1    | 1.00         | <0.00110      | 111  | 65.7 - 119.1 |
| Toluene      | 1.16      | mg/Kg | 1    | 1.00         | <0.00150      | 116  | 47.7 - 153.8 |
| Ethylbenzene | 1.18      | mg/Kg | 1    | 1.00         | <0.00160      | 118  | 73.5 - 126.3 |
| Xylene       | 3.55      | mg/Kg | 1    | 3.00         | <0.00410      | 118  | 73.6 - 125.9 |

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      | 1.07       | mg/Kg | 1    | 1.00         | <0.00110      | 107  | 65.7 - 119.1 | 4   | 20        |
| Toluene      | 1.11       | mg/Kg | 1    | 1.00         | <0.00150      | 111  | 47.7 - 153.8 | 4   | 20        |
| Ethylbenzene | 1.13       | mg/Kg | 1    | 1.00         | <0.00160      | 113  | 73.5 - 126.3 | 4   | 20        |
| Xylene       | 3.41       | mg/Kg | 1    | 3.00         | <0.00410      | 114  | 73.6 - 125.9 | 4   | 20        |

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

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit   |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|--------------|
| Trifluorotoluene (TFT)       | 0.998     | 1.01       | mg/Kg | 1    | 1            | 100     | 101      | 51 - 109.6   |
| 4-Bromofluorobenzene (4-BFB) | 1.24      | 1.18       | mg/Kg | 1    | 1            | 124     | 118      | 60.3 - 124.3 |

**Matrix Spike (MS-1)** Spiked Sample: 142524

QC Batch: 43051  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|-----------|-------|------|--------------|---------------|------|------------|
| GRO   | 14.8      | mg/Kg | 1    | 10.0         | 11.3819       | 34   | 10 - 102.2 |

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



| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO   | 14.6       | mg/Kg | 1    | 10.0         | 11.3819       | 32   | 10 - 102.2 | 1   | 20        |

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

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit  |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|-------------|
| Trifluorotoluene (TFT)       | 0.604     | 0.605      | mg/Kg | 1    | 1            | 60      | 60       | 47.2 - 84.2 |
| 4-Bromofluorobenzene (4-BFB) | 1.15      | 1.10       | mg/Kg | 1    | 1            | 115     | 110      | 58 - 162.6  |

**Matrix Spike (MS-1)** Spiked Sample: 142528

QC Batch: 43086  
Prep Batch: 37177

Date Analyzed: 2007-11-14  
QC Preparation: 2007-11-14

Analyzed By: DC  
Prepared By: DC

| Param | MS Result          | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|--------------------|-------|------|--------------|---------------|------|------------|
| GRO   | <sup>17</sup> 1990 | mg/Kg | 50   | 500          | 1813.82       | 35   | 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 |
|-------|--------------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO   | <sup>18</sup> 1840 | mg/Kg | 50   | 500          | 1813.82       | 5    | 70 - 130   | 8   |           |

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)       | 47.7                  | 47.6       | mg/Kg | 50   | 50           | 95      | 95       | 70 - 130   |
| 4-Bromofluorobenzene (4-BFB) | <sup>19 20</sup> 67.0 | 66.1       | mg/Kg | 50   | 50           | 134     | 132      | 70 - 130   |

**Standard (CCV-1)**

QC Batch: 42961

Date Analyzed: 2007-11-12

Analyzed By: LD

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| DRO   |      | mg/Kg | 250             | 251              | 100                   | 85 - 115                | 2007-11-12    |

**Standard (CCV-2)**

QC Batch: 42961

Date Analyzed: 2007-11-12

Analyzed By: LD

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| DRO   |      | mg/Kg | 250             | 232              | 93                    | 85 - 115                | 2007-11-12    |

<sup>17</sup>Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>18</sup>Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>19</sup>High surrogate recovery due to peak interference.

<sup>20</sup>High surrogate recovery due to peak interference.

### Standard (CCV-3)

QC Batch: 42961

Date Analyzed: 2007-11-12

Analyzed By: LD

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 254                    | 102                         | 85 - 115                      | 2007-11-12       |

### Standard (ICV-1)

QC Batch: 42962

Date Analyzed: 2007-11-12

Analyzed By: LD

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 276                    | 110                         | 85 - 115                      | 2007-11-12       |

### Standard (CCV-1)

QC Batch: 42962

Date Analyzed: 2007-11-12

Analyzed By: LD

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 260                    | 104                         | 85 - 115                      | 2007-11-12       |

### Standard (CCV-2)

QC Batch: 42962

Date Analyzed: 2007-11-12

Analyzed By: LD

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 222                    | 89                          | 85 - 115                      | 2007-11-12       |

### Standard (ICV-1)

QC Batch: 43032

Date Analyzed: 2007-11-12

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/Kg | 0.100                 | 0.115                  | 115                         | 85 - 115                      | 2007-11-12       |
| Toluene      |      | mg/Kg | 0.100                 | 0.113                  | 113                         | 85 - 115                      | 2007-11-12       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.105                  | 105                         | 85 - 115                      | 2007-11-12       |
| Xylene       |      | mg/Kg | 0.300                 | 0.312                  | 104                         | 85 - 115                      | 2007-11-12       |

### Standard (CCV-1)

QC Batch: 43032

Date Analyzed: 2007-11-12

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/Kg | 0.100                 | 0.0993                 | 99                          | 85 - 115                      | 2007-11-12       |
| Toluene      |      | mg/Kg | 0.100                 | 0.0924                 | 92                          | 85 - 115                      | 2007-11-12       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.0860                 | 86                          | 85 - 115                      | 2007-11-12       |
| Xylene       |      | mg/Kg | 0.300                 | 0.255                  | 85                          | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43051

Date Analyzed: 2007-11-12

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.899                  | 90                          | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 43051

Date Analyzed: 2007-11-12

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.977                  | 98                          | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43086

Date Analyzed: 2007-11-14

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 1.13                   | 113                         | 85 - 115                      | 2007-11-14       |

**Standard (CCV-1)**

QC Batch: 43086

Date Analyzed: 2007-11-14

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 1.04                   | 104                         | 85 - 115                      | 2007-11-14       |



# TRACE ANALYSIS, INC.

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## Analytical and Quality Control Report

Marc Stroope  
Talon LPE-Hobbs  
318 E Taylor  
Hobbs, NM, 88240

Report Date: November 21, 2007

Work Order: 7110932



Project Location: Lea County, NM  
Project Name: Moore to Jal #1  
Project Number: Plains007SPL  
SRS #: 2002-10270

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 |
|--------|-------------|--------|------------|------------|---------------|
| 142532 | MW-4A 65'   | soil   | 2007-11-08 | 07:10      | 2007-11-09    |
| 142533 | MW-4A 90'   | soil   | 2007-11-08 | 07:13      | 2007-11-09    |
| 142534 | MW-13 65'   | soil   | 2007-11-08 | 09:10      | 2007-11-09    |
| 142535 | MW-13 90'   | soil   | 2007-11-08 | 10:00      | 2007-11-09    |
| 142536 | MW-14 65'   | soil   | 2007-11-08 | 12:55      | 2007-11-09    |
| 142537 | MW-14 90'   | soil   | 2007-11-08 | 13:00      | 2007-11-09    |
| 142538 | MW-15 65'   | soil   | 2007-11-08 | 14:09      | 2007-11-09    |
| 142539 | MW-15 90'   | soil   | 2007-11-08 | 14:12      | 2007-11-09    |

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

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

Dr. Blair Leftwich, Director

Standard Flags

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

## Analytical Report

**Sample: 142532 - MW-4A 65'**

Analysis: BTEX  
QC Batch: 43032  
Prep Batch: 37129

Analytical Method: S 8021B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0500      | mg/Kg | 5        | 0.0100 |
| Toluene      |      | 0.338        | mg/Kg | 5        | 0.0100 |
| Ethylbenzene |      | 1.48         | mg/Kg | 5        | 0.0100 |
| Xylene       |      | 5.16         | mg/Kg | 5        | 0.0100 |

| Surrogate                    | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |              | 5.27   | mg/Kg | 5        | 5.00            | 105                 | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) | <sup>1</sup> | 8.46   | mg/Kg | 5        | 5.00            | 169                 | 47.3 - 144.2       |

**Sample: 142532 - MW-4A 65'**

Analysis: TPH DRO  
QC Batch: 42962  
Prep Batch: 37071

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | 2540         | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | <sup>2</sup> | 258    | mg/Kg | 1        | 150             | 172                 | 17.3 - 169.6       |

**Sample: 142532 - MW-4A 65'**

Analysis: TPH GRO  
QC Batch: 43051  
Prep Batch: 37129

Analytical Method: S 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 122          | mg/Kg | 5        | 1.00 |

| Surrogate                    | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |              | 3.88   | mg/Kg | 5        | 5.00            | 78                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) | <sup>3</sup> | 8.44   | mg/Kg | 5        | 5.00            | 169                 | 51.2 - 107.4       |

<sup>1</sup>High surrogate recovery due to peak interference.

<sup>2</sup>High surrogate recovery due to peak interference.

<sup>3</sup>High surrogate recovery due to peak interference.

**Sample: 142533 - MW-4A 90'**

Analysis: BTEX  
QC Batch: 43052  
Prep Batch: 37127

Analytical Method: S 8021B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.904  | mg/Kg | 1        | 1.00            | 90                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.972  | mg/Kg | 1        | 1.00            | 97                  | 70 - 130           |

**Sample: 142533 - MW-4A 90'**

Analysis: TPH DRO  
QC Batch: 42962  
Prep Batch: 37071

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 167    | mg/Kg | 1        | 150             | 111                 | 17.3 - 169.6       |

**Sample: 142533 - MW-4A 90'**

Analysis: TPH GRO  
QC Batch: 43054  
Prep Batch: 37127

Analytical Method: S 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 4.83         | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.899  | mg/Kg | 1        | 1.00            | 90                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 1.00   | mg/Kg | 1        | 1.00            | 100                 | 70 - 130           |



**Sample: 142534 - MW-13 65'**

Analysis: BTEX  
QC Batch: 43032  
Prep Batch: 37129

Analytical Method: S 8021B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | 0.0208       | mg/Kg | 2        | 0.0100 |
| Toluene      |      | 0.217        | mg/Kg | 2        | 0.0100 |
| Ethylbenzene |      | 0.489        | mg/Kg | 2        | 0.0100 |
| Xylene       |      | 1.43         | mg/Kg | 2        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.83   | mg/Kg | 2        | 2.00            | 92                  | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) | 4    | 3.32   | mg/Kg | 2        | 2.00            | 166                 | 47.3 - 144.2       |

**Sample: 142534 - MW-13 65'**

Analysis: TPH DRO  
QC Batch: 42962  
Prep Batch: 37071

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | 478          | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 210    | mg/Kg | 1        | 150             | 140                 | 17.3 - 169.6       |

**Sample: 142534 - MW-13 65'**

Analysis: TPH GRO  
QC Batch: 43051  
Prep Batch: 37129

Analytical Method: S 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 69.5         | mg/Kg | 2        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.20   | mg/Kg | 2        | 2.00            | 60                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) | 5    | 3.38   | mg/Kg | 2        | 2.00            | 169                 | 51.2 - 107.4       |

<sup>4</sup>High surrogate recovery due to peak interference.

<sup>5</sup>High surrogate recovery due to peak interference.

**Sample: 142535 - MW-13 90'**

Analysis: BTEX  
QC Batch: 43032  
Prep Batch: 37129

Analytical Method: S 8021B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.06   | mg/Kg | 1        | 1.00            | 106                 | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) |      | 1.16   | mg/Kg | 1        | 1.00            | 116                 | 47.3 - 144.2       |

**Sample: 142535 - MW-13 90'**

Analysis: TPH DRO  
QC Batch: 42962  
Prep Batch: 37071

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 218    | mg/Kg | 1        | 150             | 145                 | 17.3 - 169.6       |

**Sample: 142535 - MW-13 90'**

Analysis: TPH GRO  
QC Batch: 43051  
Prep Batch: 37129

Analytical Method: S 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       | B    | 3.98         | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.752  | mg/Kg | 1        | 1.00            | 75                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) |      | 1.04   | mg/Kg | 1        | 1.00            | 104                 | 51.2 - 107.4       |

**Sample: 142536 - MW-14 65'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43032   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0200      | mg/Kg | 2        | 0.0100 |
| Toluene      |      | <0.0200      | mg/Kg | 2        | 0.0100 |
| Ethylbenzene |      | <0.0200      | mg/Kg | 2        | 0.0100 |
| Xylene       |      | <0.0200      | mg/Kg | 2        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 2.10   | mg/Kg | 2        | 2.00            | 105                 | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) |      | 2.18   | mg/Kg | 2        | 2.00            | 109                 | 47.3 - 144.2       |

**Sample: 142536 - MW-14 65'**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42962   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 232    | mg/Kg | 1        | 150             | 155                 | 17.3 - 169.6       |

**Sample: 142536 - MW-14 65'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43051   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       | B    | 3.55         | mg/Kg | 2        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.51   | mg/Kg | 2        | 2.00            | 76                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) |      | 2.05   | mg/Kg | 2        | 2.00            | 102                 | 51.2 - 107.4       |

**Sample: 142537 - MW-14 90'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43052   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37127 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.927  | mg/Kg | 1        | 1.00            | 93                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.915  | mg/Kg | 1        | 1.00            | 92                  | 70 - 130           |

**Sample: 142537 - MW-14 90'**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42962   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 227    | mg/Kg | 1        | 150             | 151                 | 17.3 - 169.6       |

**Sample: 142537 - MW-14 90'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43054   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37127 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 2.52         | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.883  | mg/Kg | 1        | 1.00            | 88                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 1.01   | mg/Kg | 1        | 1.00            | 101                 | 70 - 130           |

**Sample: 142538 - MW-15 65'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43052   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37127 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0500      | mg/Kg | 5        | 0.0100 |
| Toluene      |      | 1.63         | mg/Kg | 5        | 0.0100 |
| Ethylbenzene |      | 3.43         | mg/Kg | 5        | 0.0100 |
| Xylene       |      | 11.3         | mg/Kg | 5        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 4.48   | mg/Kg | 5        | 5.00            | 90                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 5.80   | mg/Kg | 5        | 5.00            | 116                 | 70 - 130           |

**Sample: 142538 - MW-15 65'**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42962   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | 1990         | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | <sup>6</sup> | 346    | mg/Kg | 1        | 150             | 231                 | 17.3 - 169.6       |

**Sample: 142538 - MW-15 65'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43054   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37127 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 736          | mg/Kg | 5        | 1.00 |

| Surrogate                    | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |              | 4.54   | mg/Kg | 5        | 5.00            | 91                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) | <sup>7</sup> | 8.60   | mg/Kg | 5        | 5.00            | 172                 | 70 - 130           |

<sup>6</sup>High surrogate recovery due to peak interference.

<sup>7</sup>High surrogate recovery due to peak interference.

**Sample: 142539 - MW-15 90'**

Analysis: BTEX  
QC Batch: 43052  
Prep Batch: 37127

Analytical Method: S 8021B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | 0.0171       | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.865  | mg/Kg | 1        | 1.00            | 86                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.910  | mg/Kg | 1        | 1.00            | 91                  | 70 - 130           |

**Sample: 142539 - MW-15 90'**

Analysis: TPH DRO  
QC Batch: 42962  
Prep Batch: 37071

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 228    | mg/Kg | 1        | 150             | 152                 | 17.3 - 169.6       |

**Sample: 142539 - MW-15 90'**

Analysis: TPH GRO  
QC Batch: 43054  
Prep Batch: 37127

Analytical Method: S 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | 3.12         | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.878  | mg/Kg | 1        | 1.00            | 88                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.976  | mg/Kg | 1        | 1.00            | 98                  | 70 - 130           |

**Method Blank (1)**      QC Batch: 42962

QC Batch: 42962  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| DRO       |      | 16.9          | mg/Kg | 50 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 158    | mg/Kg | 1        | 150             | 105                 | 32.9 - 156.1       |

**Method Blank (1)** QC Batch: 43032

QC Batch: 43032  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Parameter    | Flag | MDL<br>Result | Units | RL   |
|--------------|------|---------------|-------|------|
| Benzene      |      | <0.00110      | mg/Kg | 0.01 |
| Toluene      |      | <0.00150      | mg/Kg | 0.01 |
| Ethylbenzene |      | <0.00160      | mg/Kg | 0.01 |
| Xylene       |      | <0.00410      | mg/Kg | 0.01 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.18   | mg/Kg | 1        | 1.00            | 118                 | 58.2 - 121.3       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.530  | mg/Kg | 1        | 1.00            | 53                  | 25 - 123.7         |

**Method Blank (1)** QC Batch: 43051

QC Batch: 43051  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| GRO       |      | 0.928         | mg/Kg | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.917  | mg/Kg | 1        | 1.00            | 92                  | 67.8 - 103         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.489  | mg/Kg | 1        | 1.00            | 49                  | 24.6 - 123         |

**Method Blank (1)** QC Batch: 43052

QC Batch: 43052  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Parameter    | Flag | MDL<br>Result | Units | RL   |
|--------------|------|---------------|-------|------|
| Benzene      |      | <0.00300      | mg/Kg | 0.01 |
| Toluene      |      | <0.00300      | mg/Kg | 0.01 |
| Ethylbenzene |      | <0.00400      | mg/Kg | 0.01 |

*continued ...*

method blank continued ...

| Parameter | Flag | MDL<br>Result | Units | RL   |
|-----------|------|---------------|-------|------|
| Xylene    |      | <0.0140       | mg/Kg | 0.01 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.997  | mg/Kg | 1        | 1.00            | 100                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.978  | mg/Kg | 1        | 1.00            | 98                  | 70 - 130           |

**Method Blank (1)**      QC Batch: 43054

QC Batch: 43054  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| GRO       |      | 0.263         | mg/Kg | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.948  | mg/Kg | 1        | 1.00            | 95                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.956  | mg/Kg | 1        | 1.00            | 96                  | 70 - 130           |

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

QC Batch: 42962  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Param | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO   | 164           | mg/Kg | 1    | 250             | <13.4            | 66   | 49.1 - 142.3  |

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 |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO   | 176            | mg/Kg | 1    | 250             | <13.4            | 70   | 49.1 - 142.3  | 7   | 20           |

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 |
|---------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Triacontane | 148           | 174            | mg/Kg | 1    | 150             | 99          | 116          | 49 - 133.2    |

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

QC Batch: 43032  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC



| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|--------------|------------|-------|------|--------------|---------------|------|--------------|
| Benzene      | 1.06       | mg/Kg | 1    | 1.00         | <0.00110      | 106  | 71.2 - 119   |
| Toluene      | 0.984      | mg/Kg | 1    | 1.00         | <0.00150      | 98   | 76.3 - 116.5 |
| Ethylbenzene | 0.866      | mg/Kg | 1    | 1.00         | <0.00160      | 87   | 77.6 - 114   |
| Xylene       | 2.56       | mg/Kg | 1    | 3.00         | <0.00410      | 85   | 78.8 - 113.9 |

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

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   | RPD | RPD Limit |
|--------------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Benzene      | 1.06       | mg/Kg | 1    | 1.00         | <0.00110      | 106  | 71.2 - 119   | 0   | 20        |
| Toluene      | 0.981      | mg/Kg | 1    | 1.00         | <0.00150      | 98   | 76.3 - 116.5 | 0   | 20        |
| Ethylbenzene | 0.865      | mg/Kg | 1    | 1.00         | <0.00160      | 86   | 77.6 - 114   | 0   | 20        |
| Xylene       | 2.56       | mg/Kg | 1    | 3.00         | <0.00410      | 85   | 78.8 - 113.9 | 0   | 20        |

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

| Surrogate                    | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit   |
|------------------------------|------------|------------|-------|------|--------------|----------|----------|--------------|
| Trifluorotoluene (TFT)       | 0.983      | 0.985      | mg/Kg | 1    | 1.00         | 98       | 98       | 56.1 - 107.8 |
| 4-Bromofluorobenzene (4-BFB) | 0.751      | 0.761      | mg/Kg | 1    | 1.00         | 75       | 76       | 56.2 - 118.8 |

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

QC Batch: 43051  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|------------|-------|------|--------------|---------------|------|------------|
| GRO   | 8.80       | mg/Kg | 1    | 10.0         | <0.739        | 88   | 56 - 105.2 |

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

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO   | 9.04       | mg/Kg | 1    | 10.0         | <0.739        | 90   | 56 - 105.2 | 3   | 20        |

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

| Surrogate                    | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit   |
|------------------------------|------------|------------|-------|------|--------------|----------|----------|--------------|
| Trifluorotoluene (TFT)       | 0.912      | 0.807      | mg/Kg | 1    | 1.00         | 91       | 81       | 61.1 - 148.1 |
| 4-Bromofluorobenzene (4-BFB) | 0.679      | 0.701      | mg/Kg | 1    | 1.00         | 68       | 70       | 67.2 - 119.2 |

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

QC Batch: 43052  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param   | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|------------|-------|------|--------------|---------------|------|------------|
| Benzene | 1.08       | mg/Kg | 1    | 1.00         | <0.00300      | 108  | 70 - 130   |
| Toluene | 1.08       | mg/Kg | 1    | 1.00         | <0.00300      | 108  | 70 - 130   |

continued ...

*control spikes continued ...*

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Ethylbenzene | 1.08          | mg/Kg | 1    | 1.00            | <0.00400         | 108  | 70 - 130      |
| Xylene       | 3.24          | mg/Kg | 1    | 3.00            | <0.0140          | 108  | 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      | 1.00           | mg/Kg | 1    | 1.00            | <0.00300         | 100  | 70 - 130      | 8   |              |
| Toluene      | 1.00           | mg/Kg | 1    | 1.00            | <0.00300         | 100  | 70 - 130      | 8   |              |
| Ethylbenzene | 1.01           | mg/Kg | 1    | 1.00            | <0.00400         | 101  | 70 - 130      | 7   |              |
| Xylene       | 3.02           | mg/Kg | 1    | 3.00            | <0.0140          | 101  | 70 - 130      | 7   |              |

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)       | 1.00          | 0.974          | mg/Kg | 1    | 1.00            | 100         | 97           | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 1.00          | 0.997          | mg/Kg | 1    | 1.00            | 100         | 100          | 70 - 130      |

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

QC Batch: 43054  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO   | 8.22          | mg/Kg | 1    | 10.0            | <0.0118          | 82   | 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 |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO   | 8.24           | mg/Kg | 1    | 10.0            | <0.0118          | 82   | 70 - 130      | 0   |              |

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)       | 1.00          | 0.995          | mg/Kg | 1    | 1.00            | 100         | 100          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.998         | 0.999          | mg/Kg | 1    | 1.00            | 100         | 100          | 70 - 130      |

**Matrix Spike (MS-1)** Spiked Sample: 142536

QC Batch: 42962  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Param | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|--------------|-------|------|-----------------|------------------|------|---------------|
| DRO   | 110          | mg/Kg | 1    | 250             | <13.4            | 44   | 30.2 - 201.4  |

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 |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO   | 108           | mg/Kg | 1    | 250             | <13.4            | 43   | 30.2 - 201.4  | 2   | 20           |

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 |
|---------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| n-Triacontane | 223          | 186           | mg/Kg | 1    | 150             | 149        | 124         | 10 - 194      |

**Matrix Spike (MS-1)** Spiked Sample: 142541

QC Batch: 43032  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 1.11         | mg/Kg | 1    | 1.00            | <0.00110         | 111  | 65.7 - 119.1  |
| Toluene      | 1.16         | mg/Kg | 1    | 1.00            | <0.00150         | 116  | 47.7 - 153.8  |
| Ethylbenzene | 1.18         | mg/Kg | 1    | 1.00            | <0.00160         | 118  | 73.5 - 126.3  |
| Xylene       | 3.55         | mg/Kg | 1    | 3.00            | <0.00410         | 118  | 73.6 - 125.9  |

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      | 1.07          | mg/Kg | 1    | 1.00            | <0.00110         | 107  | 65.7 - 119.1  | 4   | 20           |
| Toluene      | 1.11          | mg/Kg | 1    | 1.00            | <0.00150         | 111  | 47.7 - 153.8  | 4   | 20           |
| Ethylbenzene | 1.13          | mg/Kg | 1    | 1.00            | <0.00160         | 113  | 73.5 - 126.3  | 4   | 20           |
| Xylene       | 3.41          | mg/Kg | 1    | 3.00            | <0.00410         | 114  | 73.6 - 125.9  | 4   | 20           |

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)       | 0.998        | 1.01          | mg/Kg | 1    | 1               | 100        | 101         | 51 - 109.6    |
| 4-Bromofluorobenzene (4-BFB) | 1.24         | 1.18          | mg/Kg | 1    | 1               | 124        | 118         | 60.3 - 124.3  |

**Matrix Spike (MS-1)** Spiked Sample: 142524

QC Batch: 43051  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|--------------|-------|------|-----------------|------------------|------|---------------|
| GRO   | 14.8         | mg/Kg | 1    | 10.0            | 11.3819          | 34   | 10 - 102.2    |

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 |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO   | 14.6          | mg/Kg | 1    | 10.0            | 11.3819          | 32   | 10 - 102.2    | 1   | 20           |

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)       | 0.604        | 0.605         | mg/Kg | 1    | 1               | 60         | 60          | 47.2 - 84.2   |
| 4-Bromofluorobenzene (4-BFB) | 1.15         | 1.10          | mg/Kg | 1    | 1               | 115        | 110         | 58 - 162.6    |

**Matrix Spike (MS-1)** Spiked Sample: 142522

QC Batch: 43052  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 1.07         | mg/Kg | 1    | 1.00            | 0.0152           | 105  | 70 - 130      |
| Toluene      | 1.10         | mg/Kg | 1    | 1.00            | 0.0535           | 105  | 70 - 130      |
| Ethylbenzene | 1.14         | mg/Kg | 1    | 1.00            | 0.0307           | 111  | 70 - 130      |
| Xylene       | 3.28         | mg/Kg | 1    | 3.00            | 0.0857           | 106  | 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      | 0.937         | mg/Kg | 1    | 1.00            | 0.0152           | 92   | 70 - 130      | 13  |              |
| Toluene      | 0.946         | mg/Kg | 1    | 1.00            | 0.0535           | 89   | 70 - 130      | 15  |              |
| Ethylbenzene | 1.01          | mg/Kg | 1    | 1.00            | 0.0307           | 98   | 70 - 130      | 12  |              |
| Xylene       | 2.96          | mg/Kg | 1    | 3.00            | 0.0857           | 96   | 70 - 130      | 10  |              |

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)       | 0.935        | 0.906         | mg/Kg | 1    | 1               | 94         | 91          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 1.01         | 1.07          | mg/Kg | 1    | 1               | 101        | 107         | 70 - 130      |

**Matrix Spike (MS-1)** Spiked Sample: 142542

QC Batch: 43054  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|--------------|-------|------|-----------------|------------------|------|---------------|
| GRO   | 8.05         | mg/Kg | 1    | 10.0            | <0.0118          | 80   | 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 |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO   | 8.22          | mg/Kg | 1    | 10.0            | <0.0118          | 82   | 70 - 130      | 2   |              |

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)       | 0.806        | 0.869         | mg/Kg | 1    | 1               | 81         | 87          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.989        | 1.04          | mg/Kg | 1    | 1               | 99         | 104         | 70 - 130      |

**Standard (ICV-1)**

QC Batch: 42962

Date Analyzed: 2007-11-12

Analyzed By: LD

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 276                    | 110                         | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 42962

Date Analyzed: 2007-11-12

Analyzed By: LD

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 260                    | 104                         | 85 - 115                      | 2007-11-12       |

**Standard (CCV-2)**

QC Batch: 42962

Date Analyzed: 2007-11-12

Analyzed By: LD

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 222                    | 89                          | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43032

Date Analyzed: 2007-11-12

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/Kg | 0.100                 | 0.115                  | 115                         | 85 - 115                      | 2007-11-12       |
| Toluene      |      | mg/Kg | 0.100                 | 0.113                  | 113                         | 85 - 115                      | 2007-11-12       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.105                  | 105                         | 85 - 115                      | 2007-11-12       |
| Xylene       |      | mg/Kg | 0.300                 | 0.312                  | 104                         | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 43032

Date Analyzed: 2007-11-12

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/Kg | 0.100                 | 0.0993                 | 99                          | 85 - 115                      | 2007-11-12       |
| Toluene      |      | mg/Kg | 0.100                 | 0.0924                 | 92                          | 85 - 115                      | 2007-11-12       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.0860                 | 86                          | 85 - 115                      | 2007-11-12       |
| Xylene       |      | mg/Kg | 0.300                 | 0.255                  | 85                          | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43051

Date Analyzed: 2007-11-12

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.899                  | 90                          | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 43051

Date Analyzed: 2007-11-12

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.977                  | 98                          | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43052

Date Analyzed: 2007-11-12

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/Kg | 0.100                 | 0.104                  | 104                         | 85 - 115                      | 2007-11-12       |
| Toluene      |      | mg/Kg | 0.100                 | 0.0924                 | 92                          | 85 - 115                      | 2007-11-12       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.0910                 | 91                          | 85 - 115                      | 2007-11-12       |
| Xylene       |      | mg/Kg | 0.300                 | 0.274                  | 91                          | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 43052

Date Analyzed: 2007-11-12

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/Kg | 0.100                 | 0.0888                 | 89                          | 85 - 115                      | 2007-11-12       |
| Toluene      |      | mg/Kg | 0.100                 | 0.0876                 | 88                          | 85 - 115                      | 2007-11-12       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.0856                 | 86                          | 85 - 115                      | 2007-11-12       |
| Xylene       |      | mg/Kg | 0.300                 | 0.255                  | 85                          | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43054

Date Analyzed: 2007-11-12

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.971                  | 97                          | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 43054

Date Analyzed: 2007-11-12

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 1.05                   | 105                         | 85 - 115                      | 2007-11-12       |

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## Analytical and Quality Control Report

Marc Stroope  
Talon LPE-Hobbs  
318 E Taylor  
Hobbs, NM, 88240

Report Date: November 21, 2007

Work Order: 7110933



Project Location: Lea County, NM  
Project Name: Moore to Jal #1  
Project Number: Plains007SPL  
SRS #: 2002-10270

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 |
|--------|-------------|--------|------------|------------|---------------|
| 142540 | MW-16 65'   | soil   | 2007-11-09 | 07:18      | 2007-11-09    |
| 142541 | MW-16 75'   | soil   | 2007-11-09 | 07:20      | 2007-11-09    |
| 142542 | MW-16 90'   | soil   | 2007-11-09 | 07:21      | 2007-11-09    |

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

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

Dr. Blair Leftwich, Director

### Standard Flags

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

## Analytical Report

### Sample: 142540 - MW-16 65'

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43052   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37127 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.853  | mg/Kg | 1        | 1.00            | 85                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.904  | mg/Kg | 1        | 1.00            | 90                  | 70 - 130           |

### Sample: 142540 - MW-16 65'

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42962   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane | <sup>1</sup> | 395    | mg/Kg | 1        | 150             | 263                 | 17.3 - 169.6       |

### Sample: 142540 - MW-16 65'

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43054   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37127 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | <1.00        | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.902  | mg/Kg | 1        | 1.00            | 90                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 1.05   | mg/Kg | 1        | 1.00            | 105                 | 70 - 130           |

<sup>1</sup> High surrogate recovery. Sample non-detect, result bias high.

**Sample: 142541 - MW-16 75'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43032   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.06   | mg/Kg | 1        | 1.00            | 106                 | 39.6 - 116         |
| 4-Bromofluorobenzene (4-BFB) |      | 1.12   | mg/Kg | 1        | 1.00            | 112                 | 47.3 - 144.2       |

**Sample: 142541 - MW-16 75'**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 42962   | Date Analyzed: 2007-11-12      | Analyzed By: LD  |
| Prep Batch: 37071 | Sample Preparation: 2007-11-12 | Prepared By: LD  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 170    | mg/Kg | 1        | 150             | 113                 | 17.3 - 169.6       |

**Sample: 142541 - MW-16 75'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43051   | Date Analyzed: 2007-11-12      | Analyzed By: DC     |
| Prep Batch: 37129 | Sample Preparation: 2007-11-12 | Prepared By: DC     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       | B    | 3.54         | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.749  | mg/Kg | 1        | 1.00            | 75                  | 50.2 - 89.3        |
| 4-Bromofluorobenzene (4-BFB) |      | 0.996  | mg/Kg | 1        | 1.00            | 100                 | 51.2 - 107.4       |

**Sample: 142542 - MW-16 90'**

Analysis: BTEX  
QC Batch: 43052  
Prep Batch: 37127

Analytical Method: S 8021B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.900  | mg/Kg | 1        | 1.00            | 90                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.905  | mg/Kg | 1        | 1.00            | 90                  | 70 - 130           |

**Sample: 142542 - MW-16 90'**

Analysis: TPH DRO  
QC Batch: 42962  
Prep Batch: 37071

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 187    | mg/Kg | 1        | 150             | 125                 | 17.3 - 169.6       |

**Sample: 142542 - MW-16 90'**

Analysis: TPH GRO  
QC Batch: 43054  
Prep Batch: 37127

Analytical Method: S 8015B  
Date Analyzed: 2007-11-12  
Sample Preparation: 2007-11-12

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | <1.00        | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.906  | mg/Kg | 1        | 1.00            | 91                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.996  | mg/Kg | 1        | 1.00            | 100                 | 70 - 130           |

**Method Blank (1)**      QC Batch: 42962

QC Batch: 42962  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| DRO       |      | 16.9          | mg/Kg | 50 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 158    | mg/Kg | 1        | 150             | 105                 | 32.9 - 156.1       |

**Method Blank (1)** QC Batch: 43032

QC Batch: 43032  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Parameter    | Flag | MDL<br>Result | Units | RL   |
|--------------|------|---------------|-------|------|
| Benzene      |      | <0.00110      | mg/Kg | 0.01 |
| Toluene      |      | <0.00150      | mg/Kg | 0.01 |
| Ethylbenzene |      | <0.00160      | mg/Kg | 0.01 |
| Xylene       |      | <0.00410      | mg/Kg | 0.01 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.18   | mg/Kg | 1        | 1.00            | 118                 | 58.2 - 121.3       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.530  | mg/Kg | 1        | 1.00            | 53                  | 25 - 123.7         |

**Method Blank (1)** QC Batch: 43051

QC Batch: 43051  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| GRO       |      | 0.928         | mg/Kg | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.917  | mg/Kg | 1        | 1.00            | 92                  | 67.8 - 103         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.489  | mg/Kg | 1        | 1.00            | 49                  | 24.6 - 123         |

**Method Blank (1)** QC Batch: 43052

QC Batch: 43052  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Parameter    | Flag | MDL<br>Result | Units | RL   |
|--------------|------|---------------|-------|------|
| Benzene      |      | <0.00300      | mg/Kg | 0.01 |
| Toluene      |      | <0.00300      | mg/Kg | 0.01 |
| Ethylbenzene |      | <0.00400      | mg/Kg | 0.01 |

*continued ...*

method blank continued ...

| Parameter | Flag | MDL<br>Result | Units | RL   |
|-----------|------|---------------|-------|------|
| Xylene    |      | <0.0140       | mg/Kg | 0.01 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.997  | mg/Kg | 1        | 1.00            | 100                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.978  | mg/Kg | 1        | 1.00            | 98                  | 70 - 130           |

**Method Blank (1)**      QC Batch: 43054

QC Batch: 43054  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| GRO       |      | 0.263         | mg/Kg | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.948  | mg/Kg | 1        | 1.00            | 95                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.956  | mg/Kg | 1        | 1.00            | 96                  | 70 - 130           |

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

QC Batch: 42962  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Param | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO   | 164           | mg/Kg | 1    | 250             | <13.4            | 66   | 49.1 - 142.3  |

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 |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO   | 176            | mg/Kg | 1    | 250             | <13.4            | 70   | 49.1 - 142.3  | 7   | 20           |

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 |
|---------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Triacontane | 148           | 174            | mg/Kg | 1    | 150             | 99          | 116          | 49 - 133.2    |

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

QC Batch: 43032  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|--------------|------------|-------|------|--------------|---------------|------|--------------|
| Benzene      | 1.06       | mg/Kg | 1    | 1.00         | <0.00110      | 106  | 71.2 - 119   |
| Toluene      | 0.984      | mg/Kg | 1    | 1.00         | <0.00150      | 98   | 76.3 - 116.5 |
| Ethylbenzene | 0.866      | mg/Kg | 1    | 1.00         | <0.00160      | 87   | 77.6 - 114   |
| Xylene       | 2.56       | mg/Kg | 1    | 3.00         | <0.00410      | 85   | 78.8 - 113.9 |

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

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   | RPD | RPD Limit |
|--------------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Benzene      | 1.06       | mg/Kg | 1    | 1.00         | <0.00110      | 106  | 71.2 - 119   | 0   | 20        |
| Toluene      | 0.981      | mg/Kg | 1    | 1.00         | <0.00150      | 98   | 76.3 - 116.5 | 0   | 20        |
| Ethylbenzene | 0.865      | mg/Kg | 1    | 1.00         | <0.00160      | 86   | 77.6 - 114   | 0   | 20        |
| Xylene       | 2.56       | mg/Kg | 1    | 3.00         | <0.00410      | 85   | 78.8 - 113.9 | 0   | 20        |

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

| Surrogate                    | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit   |
|------------------------------|------------|------------|-------|------|--------------|----------|----------|--------------|
| Trifluorotoluene (TFT)       | 0.983      | 0.985      | mg/Kg | 1    | 1.00         | 98       | 98       | 56.1 - 107.8 |
| 4-Bromofluorobenzene (4-BFB) | 0.751      | 0.761      | mg/Kg | 1    | 1.00         | 75       | 76       | 56.2 - 118.8 |

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

QC Batch: 43051  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|------------|-------|------|--------------|---------------|------|------------|
| GRO   | 8.80       | mg/Kg | 1    | 10.0         | <0.739        | 88   | 56 - 105.2 |

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

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO   | 9.04       | mg/Kg | 1    | 10.0         | <0.739        | 90   | 56 - 105.2 | 3   | 20        |

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

| Surrogate                    | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit   |
|------------------------------|------------|------------|-------|------|--------------|----------|----------|--------------|
| Trifluorotoluene (TFT)       | 0.912      | 0.807      | mg/Kg | 1    | 1.00         | 91       | 81       | 61.1 - 148.1 |
| 4-Bromofluorobenzene (4-BFB) | 0.679      | 0.701      | mg/Kg | 1    | 1.00         | 68       | 70       | 67.2 - 119.2 |

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

QC Batch: 43052  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param   | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|------------|-------|------|--------------|---------------|------|------------|
| Benzene | 1.08       | mg/Kg | 1    | 1.00         | <0.00300      | 108  | 70 - 130   |
| Toluene | 1.08       | mg/Kg | 1    | 1.00         | <0.00300      | 108  | 70 - 130   |

continued ...

*control spikes continued ...*

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Ethylbenzene | 1.08          | mg/Kg | 1    | 1.00            | <0.00400         | 108  | 70 - 130      |
| Xylene       | 3.24          | mg/Kg | 1    | 3.00            | <0.0140          | 108  | 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      | 1.00           | mg/Kg | 1    | 1.00            | <0.00300         | 100  | 70 - 130      | 8   |              |
| Toluene      | 1.00           | mg/Kg | 1    | 1.00            | <0.00300         | 100  | 70 - 130      | 8   |              |
| Ethylbenzene | 1.01           | mg/Kg | 1    | 1.00            | <0.00400         | 101  | 70 - 130      | 7   |              |
| Xylene       | 3.02           | mg/Kg | 1    | 3.00            | <0.0140          | 101  | 70 - 130      | 7   |              |

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)       | 1.00          | 0.974          | mg/Kg | 1    | 1.00            | 100         | 97           | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 1.00          | 0.997          | mg/Kg | 1    | 1.00            | 100         | 100          | 70 - 130      |

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

QC Batch: 43054  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO   | 8.22          | mg/Kg | 1    | 10.0            | <0.0118          | 82   | 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 |
|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO   | 8.24           | mg/Kg | 1    | 10.0            | <0.0118          | 82   | 70 - 130      | 0   |              |

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)       | 1.00          | 0.995          | mg/Kg | 1    | 1.00            | 100         | 100          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.998         | 0.999          | mg/Kg | 1    | 1.00            | 100         | 100          | 70 - 130      |

**Matrix Spike (MS-1)** Spiked Sample: 142536

QC Batch: 42962  
Prep Batch: 37071

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: LD  
Prepared By: LD

| Param | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|--------------|-------|------|-----------------|------------------|------|---------------|
| DRO   | 110          | mg/Kg | 1    | 250             | <13.4            | 44   | 30.2 - 201.4  |

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 |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO   | 108           | mg/Kg | 1    | 250             | <13.4            | 43   | 30.2 - 201.4  | 2   | 20           |

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 |
|---------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| n-Triacontane | 223          | 186           | mg/Kg | 1    | 150             | 149        | 124         | 10 - 194      |

**Matrix Spike (MS-1)** Spiked Sample: 142541

QC Batch: 43032  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 1.11         | mg/Kg | 1    | 1.00            | <0.00110         | 111  | 65.7 - 119.1  |
| Toluene      | 1.16         | mg/Kg | 1    | 1.00            | <0.00150         | 116  | 47.7 - 153.8  |
| Ethylbenzene | 1.18         | mg/Kg | 1    | 1.00            | <0.00160         | 118  | 73.5 - 126.3  |
| Xylene       | 3.55         | mg/Kg | 1    | 3.00            | <0.00410         | 118  | 73.6 - 125.9  |

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      | 1.07          | mg/Kg | 1    | 1.00            | <0.00110         | 107  | 65.7 - 119.1  | 4   | 20           |
| Toluene      | 1.11          | mg/Kg | 1    | 1.00            | <0.00150         | 111  | 47.7 - 153.8  | 4   | 20           |
| Ethylbenzene | 1.13          | mg/Kg | 1    | 1.00            | <0.00160         | 113  | 73.5 - 126.3  | 4   | 20           |
| Xylene       | 3.41          | mg/Kg | 1    | 3.00            | <0.00410         | 114  | 73.6 - 125.9  | 4   | 20           |

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)       | 0.998        | 1.01          | mg/Kg | 1    | 1               | 100        | 101         | 51 - 109.6    |
| 4-Bromofluorobenzene (4-BFB) | 1.24         | 1.18          | mg/Kg | 1    | 1               | 124        | 118         | 60.3 - 124.3  |

**Matrix Spike (MS-1)** Spiked Sample: 142524

QC Batch: 43051  
Prep Batch: 37129

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|--------------|-------|------|-----------------|------------------|------|---------------|
| GRO   | 14.8         | mg/Kg | 1    | 10.0            | 11.3819          | 34   | 10 - 102.2    |

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 |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO   | 14.6          | mg/Kg | 1    | 10.0            | 11.3819          | 32   | 10 - 102.2    | 1   | 20           |

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)       | 0.604        | 0.605         | mg/Kg | 1    | 1               | 60         | 60          | 47.2 - 84.2   |
| 4-Bromofluorobenzene (4-BFB) | 1.15         | 1.10          | mg/Kg | 1    | 1               | 115        | 110         | 58 - 162.6    |

**Matrix Spike (MS-1)** Spiked Sample: 142522

QC Batch: 43052  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 1.07         | mg/Kg | 1    | 1.00            | 0.0152           | 105  | 70 - 130      |
| Toluene      | 1.10         | mg/Kg | 1    | 1.00            | 0.0535           | 105  | 70 - 130      |
| Ethylbenzene | 1.14         | mg/Kg | 1    | 1.00            | 0.0307           | 111  | 70 - 130      |
| Xylene       | 3.28         | mg/Kg | 1    | 3.00            | 0.0857           | 106  | 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      | 0.937         | mg/Kg | 1    | 1.00            | 0.0152           | 92   | 70 - 130      | 13  |              |
| Toluene      | 0.946         | mg/Kg | 1    | 1.00            | 0.0535           | 89   | 70 - 130      | 15  |              |
| Ethylbenzene | 1.01          | mg/Kg | 1    | 1.00            | 0.0307           | 98   | 70 - 130      | 12  |              |
| Xylene       | 2.96          | mg/Kg | 1    | 3.00            | 0.0857           | 96   | 70 - 130      | 10  |              |

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)       | 0.935        | 0.906         | mg/Kg | 1    | 1               | 94         | 91          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 1.01         | 1.07          | mg/Kg | 1    | 1               | 101        | 107         | 70 - 130      |

**Matrix Spike (MS-1)** Spiked Sample: 142542

QC Batch: 43054  
Prep Batch: 37127

Date Analyzed: 2007-11-12  
QC Preparation: 2007-11-12

Analyzed By: DC  
Prepared By: DC

| Param | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|--------------|-------|------|-----------------|------------------|------|---------------|
| GRO   | 8.05         | mg/Kg | 1    | 10.0            | <0.0118          | 80   | 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 |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO   | 8.22          | mg/Kg | 1    | 10.0            | <0.0118          | 82   | 70 - 130      | 2   |              |

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)       | 0.806        | 0.869         | mg/Kg | 1    | 1               | 81         | 87          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.989        | 1.04          | mg/Kg | 1    | 1               | 99         | 104         | 70 - 130      |

**Standard (CCV-1)**

QC Batch: 42962

Date Analyzed: 2007-11-12

Analyzed By: LD

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 260                    | 104                         | 85 - 115                      | 2007-11-12       |

**Standard (CCV-2)**

QC Batch: 42962

Date Analyzed: 2007-11-12

Analyzed By: LD

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 222                    | 89                          | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43032

Date Analyzed: 2007-11-12

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/Kg | 0.100                 | 0.115                  | 115                         | 85 - 115                      | 2007-11-12       |
| Toluene      |      | mg/Kg | 0.100                 | 0.113                  | 113                         | 85 - 115                      | 2007-11-12       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.105                  | 105                         | 85 - 115                      | 2007-11-12       |
| Xylene       |      | mg/Kg | 0.300                 | 0.312                  | 104                         | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 43032

Date Analyzed: 2007-11-12

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/Kg | 0.100                 | 0.0993                 | 99                          | 85 - 115                      | 2007-11-12       |
| Toluene      |      | mg/Kg | 0.100                 | 0.0924                 | 92                          | 85 - 115                      | 2007-11-12       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.0860                 | 86                          | 85 - 115                      | 2007-11-12       |
| Xylene       |      | mg/Kg | 0.300                 | 0.255                  | 85                          | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43051

Date Analyzed: 2007-11-12

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.899                  | 90                          | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 43051

Date Analyzed: 2007-11-12

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.977                  | 98                          | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43052

Date Analyzed: 2007-11-12

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/Kg | 0.100                 | 0.104                  | 104                         | 85 - 115                      | 2007-11-12       |
| Toluene      |      | mg/Kg | 0.100                 | 0.0924                 | 92                          | 85 - 115                      | 2007-11-12       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.0910                 | 91                          | 85 - 115                      | 2007-11-12       |
| Xylene       |      | mg/Kg | 0.300                 | 0.274                  | 91                          | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 43052

Date Analyzed: 2007-11-12

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/Kg | 0.100                 | 0.0888                 | 89                          | 85 - 115                      | 2007-11-12       |
| Toluene      |      | mg/Kg | 0.100                 | 0.0876                 | 88                          | 85 - 115                      | 2007-11-12       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.0856                 | 86                          | 85 - 115                      | 2007-11-12       |
| Xylene       |      | mg/Kg | 0.300                 | 0.255                  | 85                          | 85 - 115                      | 2007-11-12       |

**Standard (ICV-1)**

QC Batch: 43054

Date Analyzed: 2007-11-12

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.971                  | 97                          | 85 - 115                      | 2007-11-12       |

**Standard (CCV-1)**

QC Batch: 43054

Date Analyzed: 2007-11-12

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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 1.05                   | 105                         | 85 - 115                      | 2007-11-12       |



# TRACE ANALYSIS, INC.

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## Analytical and Quality Control Report

Marc Stroope  
Talon LPE-Hobbs  
318 E Taylor  
Hobbs, NM, 88240

Report Date: November 19, 2007

Work Order: 7111640



Project Location: Lea County, NM  
Project Name: Moore to Jal #1  
Project Number: Plains 007SPL

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 |
|--------|-------------|--------|------------|------------|---------------|
| 143122 | MW-17 65'   | soil   | 2007-11-13 | 07:13      | 2007-11-16    |
| 143123 | MW-17 90'   | soil   | 2007-11-13 | 07:16      | 2007-11-16    |
| 143124 | MW-18 65'   | soil   | 2007-11-13 | 08:41      | 2007-11-16    |
| 143125 | MW-18 90'   | soil   | 2007-11-13 | 08:44      | 2007-11-16    |
| 143126 | MW-19 65'   | soil   | 2007-11-13 | 10:56      | 2007-11-16    |
| 143127 | MW-19 90'   | soil   | 2007-11-13 | 11:00      | 2007-11-16    |
| 143128 | MW-20 65'   | soil   | 2007-11-13 | 13:57      | 2007-11-16    |
| 143129 | MW-20 90'   | soil   | 2007-11-13 | 14:00      | 2007-11-16    |

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 14 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: 143122 - MW-17 65'

Analysis: BTEX  
QC Batch: 43155  
Prep Batch: 37234

Analytical Method: S 8021B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.773  | mg/Kg | 1        | 1.00            | 77                  | 65.4 - 124         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.770  | mg/Kg | 1        | 1.00            | 77                  | 73.9 - 138         |

Sample: 143122 - MW-17 65'

Analysis: TPH DRO  
QC Batch: 43146  
Prep Batch: 37225

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 193    | mg/Kg | 1        | 150             | 129                 | 62.5 - 164         |

Sample: 143122 - MW-17 65'

Analysis: TPH GRO  
QC Batch: 43156  
Prep Batch: 37234

Analytical Method: S 8015B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | <1.00        | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.821  | mg/Kg | 1        | 1.00            | 82                  | 34.1 - 161         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.809  | mg/Kg | 1        | 1.00            | 81                  | 31.8 - 159         |

**Sample: 143123 - MW-17 90'**

Analysis: BTEX  
QC Batch: 43155  
Prep Batch: 37234

Analytical Method: S 8021B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.812  | mg/Kg | 1        | 1.00            | 81                  | 65.4 - 124         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.820  | mg/Kg | 1        | 1.00            | 82                  | 73.9 - 138         |

**Sample: 143123 - MW-17 90'**

Analysis: TPH DRO  
QC Batch: 43146  
Prep Batch: 37225

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 200    | mg/Kg | 1        | 150             | 133                 | 62.5 - 164         |

**Sample: 143123 - MW-17 90'**

Analysis: TPH GRO  
QC Batch: 43156  
Prep Batch: 37234

Analytical Method: S 8015B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | <1.00        | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.898  | mg/Kg | 1        | 1.00            | 90                  | 34.1 - 161         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.858  | mg/Kg | 1        | 1.00            | 86                  | 31.8 - 159         |



**Sample: 143124 - MW-18 65'**

Analysis: BTEX  
QC Batch: 43155  
Prep Batch: 37234

Analytical Method: S 8021B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.907  | mg/Kg | 1        | 1.00            | 91                  | 65.4 - 124         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.899  | mg/Kg | 1        | 1.00            | 90                  | 73.9 - 138         |

**Sample: 143124 - MW-18 65'**

Analysis: TPH DRO  
QC Batch: 43146  
Prep Batch: 37225

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 182    | mg/Kg | 1        | 150             | 121                 | 62.5 - 164         |

**Sample: 143124 - MW-18 65'**

Analysis: TPH GRO  
QC Batch: 43156  
Prep Batch: 37234

Analytical Method: S 8015B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | <1.00        | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.00   | mg/Kg | 1        | 1.00            | 100                 | 34.1 - 161         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.943  | mg/Kg | 1        | 1.00            | 94                  | 31.8 - 159         |

**Sample: 143125 - MW-18 90'**

Analysis: BTEX  
QC Batch: 43155  
Prep Batch: 37234

Analytical Method: S 8021B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.926  | mg/Kg | 1        | 1.00            | 93                  | 65.4 - 124         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.928  | mg/Kg | 1        | 1.00            | 93                  | 73.9 - 138         |

**Sample: 143125 - MW-18 90'**

Analysis: TPH DRO  
QC Batch: 43146  
Prep Batch: 37225

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 200    | mg/Kg | 1        | 150             | 133                 | 62.5 - 164         |

**Sample: 143125 - MW-18 90'**

Analysis: TPH GRO  
QC Batch: 43156  
Prep Batch: 37234

Analytical Method: S 8015B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | <1.00        | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.04   | mg/Kg | 1        | 1.00            | 104                 | 34.1 - 161         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.972  | mg/Kg | 1        | 1.00            | 97                  | 31.8 - 159         |

**Sample: 143126 - MW-19 65'**

Analysis: BTEX  
QC Batch: 43155  
Prep Batch: 37234

Analytical Method: S 8021B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.17   | mg/Kg | 1        | 1.00            | 117                 | 65.4 - 124         |
| 4-Bromofluorobenzene (4-BFB) |      | 1.13   | mg/Kg | 1        | 1.00            | 113                 | 73.9 - 138         |

**Sample: 143126 - MW-19 65'**

Analysis: TPH DRO  
QC Batch: 43146  
Prep Batch: 37225

Analytical Method: Mod. 8015B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 190    | mg/Kg | 1        | 150             | 127                 | 62.5 - 164         |

**Sample: 143126 - MW-19 65'**

Analysis: TPH GRO  
QC Batch: 43156  
Prep Batch: 37234

Analytical Method: S 8015B  
Date Analyzed: 2007-11-16  
Sample Preparation: 2007-11-16

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

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | <1.00        | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.26   | mg/Kg | 1        | 1.00            | 126                 | 34.1 - 161         |
| 4-Bromofluorobenzene (4-BFB) |      | 1.18   | mg/Kg | 1        | 1.00            | 118                 | 31.8 - 159         |

**Sample: 143127 - MW-19 90'**

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035  
QC Batch: 43155 Date Analyzed: 2007-11-16 Analyzed By: KB  
Prep Batch: 37234 Sample Preparation: 2007-11-16 Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.890  | mg/Kg | 1        | 1.00            | 89                  | 65.4 - 124         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.858  | mg/Kg | 1        | 1.00            | 86                  | 73.9 - 138         |

**Sample: 143127 - MW-19 90'**

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A  
QC Batch: 43146 Date Analyzed: 2007-11-16 Analyzed By: RM  
Prep Batch: 37225 Sample Preparation: 2007-11-16 Prepared By: RM

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 199    | mg/Kg | 1        | 150             | 133                 | 62.5 - 164         |

**Sample: 143127 - MW-19 90'**

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035  
QC Batch: 43156 Date Analyzed: 2007-11-16 Analyzed By: KB  
Prep Batch: 37234 Sample Preparation: 2007-11-16 Prepared By: KB

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | <1.00        | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.972  | mg/Kg | 1        | 1.00            | 97                  | 34.1 - 161         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.902  | mg/Kg | 1        | 1.00            | 90                  | 31.8 - 159         |

**Sample: 143128 - MW-20 65'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: BTEX    | Analytical Method: S 8021B     | Prep Method: S 5035 |
| QC Batch: 43155   | Date Analyzed: 2007-11-16      | Analyzed By: KB     |
| Prep Batch: 37234 | Sample Preparation: 2007-11-16 | Prepared By: KB     |

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.12   | mg/Kg | 1        | 1.00            | 112                 | 65.4 - 124         |
| 4-Bromofluorobenzene (4-BFB) |      | 1.10   | mg/Kg | 1        | 1.00            | 110                 | 73.9 - 138         |

**Sample: 143128 - MW-20 65'**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TPH DRO | Analytical Method: Mod. 8015B  | Prep Method: N/A |
| QC Batch: 43146   | Date Analyzed: 2007-11-16      | Analyzed By: RM  |
| Prep Batch: 37225 | Sample Preparation: 2007-11-16 | Prepared By: RM  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 191    | mg/Kg | 1        | 150             | 127                 | 62.5 - 164         |

**Sample: 143128 - MW-20 65'**

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Analysis: TPH GRO | Analytical Method: S 8015B     | Prep Method: S 5035 |
| QC Batch: 43156   | Date Analyzed: 2007-11-16      | Analyzed By: KB     |
| Prep Batch: 37234 | Sample Preparation: 2007-11-16 | Prepared By: KB     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | <1.00        | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 1.22   | mg/Kg | 1        | 1.00            | 122                 | 34.1 - 161         |
| 4-Bromofluorobenzene (4-BFB) |      | 1.16   | mg/Kg | 1        | 1.00            | 116                 | 31.8 - 159         |

**Sample: 143129 - MW-20 90'**

|             |       |                     |            |              |        |
|-------------|-------|---------------------|------------|--------------|--------|
| Analysis:   | BTEX  | Analytical Method:  | S 8021B    | Prep Method: | S 5035 |
| QC Batch:   | 43155 | Date Analyzed:      | 2007-11-16 | Analyzed By: | KB     |
| Prep Batch: | 37234 | Sample Preparation: | 2007-11-16 | Prepared By: | KB     |

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL     |
|--------------|------|--------------|-------|----------|--------|
| Benzene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Toluene      |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Ethylbenzene |      | <0.0100      | mg/Kg | 1        | 0.0100 |
| Xylene       |      | <0.0100      | mg/Kg | 1        | 0.0100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.883  | mg/Kg | 1        | 1.00            | 88                  | 65.4 - 124         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.893  | mg/Kg | 1        | 1.00            | 89                  | 73.9 - 138         |

**Sample: 143129 - MW-20 90'**

|             |         |                     |            |              |     |
|-------------|---------|---------------------|------------|--------------|-----|
| Analysis:   | TPH DRO | Analytical Method:  | Mod. 8015B | Prep Method: | N/A |
| QC Batch:   | 43146   | Date Analyzed:      | 2007-11-16 | Analyzed By: | RM  |
| Prep Batch: | 37225   | Sample Preparation: | 2007-11-16 | Prepared By: | RM  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| DRO       |      | <50.0        | mg/Kg | 1        | 50.0 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 196    | mg/Kg | 1        | 150             | 131                 | 62.5 - 164         |

**Sample: 143129 - MW-20 90'**

|             |         |                     |            |              |        |
|-------------|---------|---------------------|------------|--------------|--------|
| Analysis:   | TPH GRO | Analytical Method:  | S 8015B    | Prep Method: | S 5035 |
| QC Batch:   | 43156   | Date Analyzed:      | 2007-11-16 | Analyzed By: | KB     |
| Prep Batch: | 37234   | Sample Preparation: | 2007-11-16 | Prepared By: | KB     |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| GRO       |      | <1.00        | mg/Kg | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.899  | mg/Kg | 1        | 1.00            | 90                  | 34.1 - 161         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.936  | mg/Kg | 1        | 1.00            | 94                  | 31.8 - 159         |

**Method Blank (1)**      QC Batch: 43146

|             |       |                 |            |              |    |
|-------------|-------|-----------------|------------|--------------|----|
| QC Batch:   | 43146 | Date Analyzed:  | 2007-11-16 | Analyzed By: | RM |
| Prep Batch: | 37225 | QC Preparation: | 2007-11-16 | Prepared By: | RM |

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| DRO       |      | <10.7         | mg/Kg | 50 |

| Surrogate     | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|---------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Triacontane |      | 207    | mg/Kg | 1        | 150             | 138                 | 62.5 - 164         |

**Method Blank (1)** QC Batch: 43155

QC Batch: 43155  
Prep Batch: 37234

Date Analyzed: 2007-11-16  
QC Preparation: 2007-11-16

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | MDL<br>Result | Units | RL   |
|--------------|------|---------------|-------|------|
| Benzene      |      | <0.00333      | mg/Kg | 0.01 |
| Toluene      |      | <0.00372      | mg/Kg | 0.01 |
| Ethylbenzene |      | <0.00206      | mg/Kg | 0.01 |
| Xylene       |      | <0.00259      | mg/Kg | 0.01 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.917  | mg/Kg | 1        | 1.00            | 92                  | 74.3 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.775  | mg/Kg | 1        | 1.00            | 78                  | 43.1 - 98.8        |

**Method Blank (1)** QC Batch: 43156

QC Batch: 43156  
Prep Batch: 37234

Date Analyzed: 2007-11-16  
QC Preparation: 2007-11-16

Analyzed By: KB  
Prepared By: KB

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| GRO       |      | <0.459        | mg/Kg | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.964  | mg/Kg | 1        | 1.00            | 96                  | 96 - 115           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.829  | mg/Kg | 1        | 1.00            | 83                  | 51.6 - 103         |

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

QC Batch: 43146  
Prep Batch: 37225

Date Analyzed: 2007-11-16  
QC Preparation: 2007-11-16

Analyzed By: RM  
Prepared By: RM

| Param | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO   | 284           | mg/Kg | 1    | 250             | <10.7            | 114  | 64.1 - 124    |

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

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| DRO   | 298         | mg/Kg | 1    | 250          | <10.7         | 119  | 64.1 - 124 | 5   | 20        |

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

| Surrogate     | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| n-Triacontane | 198        | 202         | mg/Kg | 1    | 150          | 132      | 135       | 62.5 - 164 |

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

QC Batch: 43155  
Prep Batch: 37234

Date Analyzed: 2007-11-16  
QC Preparation: 2007-11-16

Analyzed By: KB  
Prepared By: KB

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|------------|-------|------|--------------|---------------|------|------------|
| Benzene      | 0.977      | mg/Kg | 1    | 1.00         | <0.00333      | 98   | 79.4 - 109 |
| Toluene      | 1.00       | mg/Kg | 1    | 1.00         | <0.00372      | 100  | 80.4 - 109 |
| Ethylbenzene | 0.980      | mg/Kg | 1    | 1.00         | <0.00206      | 98   | 81.3 - 107 |
| Xylene       | 2.96       | mg/Kg | 1    | 3.00         | <0.00259      | 99   | 81.4 - 108 |

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      | 0.989       | mg/Kg | 1    | 1.00         | <0.00333      | 99   | 79.4 - 109 | 1   | 20        |
| Toluene      | 1.00        | mg/Kg | 1    | 1.00         | <0.00372      | 100  | 80.4 - 109 | 0   | 20        |
| Ethylbenzene | 0.983       | mg/Kg | 1    | 1.00         | <0.00206      | 98   | 81.3 - 107 | 0   | 20        |
| Xylene       | 2.98        | mg/Kg | 1    | 3.00         | <0.00259      | 99   | 81.4 - 108 | 0   | 20        |

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

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT)       | 0.974      | 0.906       | mg/Kg | 1    | 1.00         | 97       | 91        | 75.8 - 111 |
| 4-Bromofluorobenzene (4-BFB) | 0.932      | 0.890       | mg/Kg | 1    | 1.00         | 93       | 89        | 69.8 - 117 |

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

QC Batch: 43156  
Prep Batch: 37234

Date Analyzed: 2007-11-16  
QC Preparation: 2007-11-16

Analyzed By: KB  
Prepared By: KB

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|------------|-------|------|--------------|---------------|------|------------|
| GRO   | 9.26       | mg/Kg | 1    | 10.0         | <0.459        | 93   | 78.7 - 108 |

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 |
|-------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| GRO   | 9.72        | mg/Kg | 1    | 10.0         | <0.459        | 97   | 78.7 - 108 | 5   | 20        |

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)       | 0.887         | 0.934          | mg/Kg | 1    | 1.00            | 89          | 93           | 83.7 - 110    |
| 4-Bromofluorobenzene (4-BFB) | 0.906         | 0.951          | mg/Kg | 1    | 1.00            | 90          | 95           | 74.4 - 107    |

**Matrix Spike (MS-1)** Spiked Sample: 143118

QC Batch: 43146  
Prep Batch: 37225

Date Analyzed: 2007-11-16  
QC Preparation: 2007-11-16

Analyzed By: RM  
Prepared By: RM

| Param | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|--------------|-------|------|-----------------|------------------|------|---------------|
| DRO   | 314          | mg/Kg | 1    | 250             | <10.7            | 126  | 47.5 - 127    |

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 |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO   | 275           | mg/Kg | 1    | 250             | <10.7            | 110  | 47.5 - 127    | 13  | 20           |

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 |
|---------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| n-Triacontane | 188          | 192           | mg/Kg | 1    | 150             | 125        | 128         | 62.5 - 164    |

**Matrix Spike (MS-1)** Spiked Sample: 143121

QC Batch: 43155  
Prep Batch: 37234

Date Analyzed: 2007-11-16  
QC Preparation: 2007-11-16

Analyzed By: KB  
Prepared By: KB

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.753        | mg/Kg | 1    | 1.00            | <0.00333         | 75   | 43.2 - 116    |
| Toluene      | 0.799        | mg/Kg | 1    | 1.00            | <0.00372         | 80   | 46.3 - 121    |
| Ethylbenzene | 0.840        | mg/Kg | 1    | 1.00            | <0.00206         | 84   | 54.2 - 127    |
| Xylene       | 2.59         | mg/Kg | 1    | 3.00            | <0.00259         | 86   | 49.9 - 131    |

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      | 0.721         | mg/Kg | 1    | 1.00            | <0.00333         | 72   | 43.2 - 116    | 4   | 20           |
| Toluene      | 0.785         | mg/Kg | 1    | 1.00            | <0.00372         | 78   | 46.3 - 121    | 2   | 20           |
| Ethylbenzene | 0.827         | mg/Kg | 1    | 1.00            | <0.00206         | 83   | 54.2 - 127    | 2   | 20           |
| Xylene       | 2.52          | mg/Kg | 1    | 3.00            | <0.00259         | 84   | 49.9 - 131    | 3   | 20           |

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)       | 0.791        | 0.751         | mg/Kg | 1    | 1               | 79         | 75          | 68 - 127      |
| 4-Bromofluorobenzene (4-BFB) | 0.817        | 0.786         | mg/Kg | 1    | 1               | 82         | 79          | 68.6 - 144    |

**Matrix Spike (MS-1)** Spiked Sample: 143121

QC Batch: 43156  
Prep Batch: 37234

Date Analyzed: 2007-11-16  
QC Preparation: 2007-11-16

Analyzed By: KB  
Prepared By: KB

| Param | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------|--------------|-------|------|-----------------|------------------|------|---------------|
| GRO   | 8.95         | mg/Kg | 1    | 10.0            | <0.459           | 89   | 51.3 - 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 |
|-------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO   | 8.20          | mg/Kg | 1    | 10.0            | <0.459           | 82   | 51.3 - 130    | 9   | 19.6         |

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)       | 0.865        | 0.768         | mg/Kg | 1    | 1               | 86         | 77          | 56.1 - 124    |
| 4-Bromofluorobenzene (4-BFB) | 0.965        | 0.910         | mg/Kg | 1    | 1               | 96         | 91          | 67.1 - 146    |

**Standard (ICV-1)**

QC Batch: 43146

Date Analyzed: 2007-11-16

Analyzed By: RM

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 276                    | 110                         | 85 - 115                      | 2007-11-16       |

**Standard (CCV-1)**

QC Batch: 43146

Date Analyzed: 2007-11-16

Analyzed By: RM

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 284                    | 114                         | 85 - 115                      | 2007-11-16       |

**Standard (CCV-2)**

QC Batch: 43146

Date Analyzed: 2007-11-16

Analyzed By: RM

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 286                    | 114                         | 85 - 115                      | 2007-11-16       |

**Standard (ICV-1)**

QC Batch: 43155

Date Analyzed: 2007-11-16

Analyzed By: KB

| 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/Kg | 0.100                 | 0.0975                 | 98                          | 85 - 115                      | 2007-11-16       |
| Toluene      |      | mg/Kg | 0.100                 | 0.0990                 | 99                          | 85 - 115                      | 2007-11-16       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.0965                 | 96                          | 85 - 115                      | 2007-11-16       |
| Xylene       |      | mg/Kg | 0.300                 | 0.293                  | 98                          | 85 - 115                      | 2007-11-16       |

**Standard (CCV-1)**

QC Batch: 43155

Date Analyzed: 2007-11-16

Analyzed By: KB

| 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/Kg | 0.100                 | 0.0963                 | 96                          | 85 - 115                      | 2007-11-16       |
| Toluene      |      | mg/Kg | 0.100                 | 0.0987                 | 99                          | 85 - 115                      | 2007-11-16       |
| Ethylbenzene |      | mg/Kg | 0.100                 | 0.0966                 | 97                          | 85 - 115                      | 2007-11-16       |
| Xylene       |      | mg/Kg | 0.300                 | 0.292                  | 97                          | 85 - 115                      | 2007-11-16       |

**Standard (ICV-1)**

QC Batch: 43156

Date Analyzed: 2007-11-16

Analyzed By: KB

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.912                  | 91                          | 85 - 115                      | 2007-11-16       |

**Standard (CCV-1)**

QC Batch: 43156

Date Analyzed: 2007-11-16

Analyzed By: KB

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1.00                  | 0.917                  | 92                          | 85 - 115                      | 2007-11-16       |





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## Analytical and Quality Control Report

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

Report Date: April 3, 2008

Work Order: 8032727



Project Location: Hobbs, N.M.  
Project Name: 8 inches Moore to Jal #1  
Project Number: Plains007SPL  
SRS #: SRS#2002-10270

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 |
|--------|-------------|--------|------------|------------|---------------|
| 154904 | MW-14       | water  | 2008-03-26 | 14:17      | 2008-03-27    |
| 154905 | MW-16       | water  | 2008-03-26 | 14:25      | 2008-03-27    |
| 154906 | MW-17       | water  | 2008-03-26 | 14:30      | 2008-03-27    |
| 154907 | MW-18       | water  | 2008-03-26 | 14:50      | 2008-03-27    |
| 154908 | MW-19       | water  | 2008-03-26 | 14:55      | 2008-03-27    |
| 154909 | MW-20       | water  | 2008-03-26 | 15:20      | 2008-03-27    |

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: 154904 - MW-14

Analysis: BTEX  
QC Batch: 47018  
Prep Batch: 40437

Analytical Method: S 8021B  
Date Analyzed: 2008-04-01  
Sample Preparation: 2008-04-01

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.470        | mg/L  | 5        | 0.00100 |
| Toluene      |      | <0.00500     | mg/L  | 5        | 0.00100 |
| Ethylbenzene |      | <0.00500     | mg/L  | 5        | 0.00100 |
| Xylene       |      | 0.0449       | mg/L  | 5        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.524  | mg/L  | 5        | 0.500           | 105                 | 77.8 - 121.1       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.408  | mg/L  | 5        | 0.500           | 82                  | 40.1 - 136         |

### Sample: 154905 - MW-16

Analysis: BTEX  
QC Batch: 46944  
Prep Batch: 40358

Analytical Method: S 8021B  
Date Analyzed: 2008-03-28  
Sample Preparation: 2008-03-27

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 26.8         | mg/L  | 200      | 0.00100 |
| Toluene      |      | 11.1         | mg/L  | 200      | 0.00100 |
| Ethylbenzene |      | 0.891        | mg/L  | 200      | 0.00100 |
| Xylene       |      | 2.18         | mg/L  | 200      | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 20.5   | mg/L  | 200      | 20.0            | 102                 | 77.8 - 121.1       |
| 4-Bromofluorobenzene (4-BFB) |      | 20.8   | mg/L  | 200      | 20.0            | 104                 | 40.1 - 136         |

### Sample: 154906 - MW-17

Analysis: BTEX  
QC Batch: 46944  
Prep Batch: 40358

Analytical Method: S 8021B  
Date Analyzed: 2008-03-28  
Sample Preparation: 2008-03-27

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

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.131        | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.0767       | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 0.00700      | mg/L  | 1        | 0.00100 |
| Xylene       |      | 0.0170       | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.105  | mg/L  | 1        | 0.100        | 105              | 77.8 - 121.1    |
| 4-Bromofluorobenzene (4-BFB) |      | 0.103  | mg/L  | 1        | 0.100        | 103              | 40.1 - 136      |

**Sample: 154907 - MW-18**

Analysis: BTEX                      Analytical Method: S 8021B                      Prep Method: S 5030B  
QC Batch: 46944                      Date Analyzed: 2008-03-28                      Analyzed By: DC  
Prep Batch: 40358                      Sample Preparation: 2008-03-27                      Prepared By: DC

| Parameter    | Flag | RL Result | Units | Dilution | RL      |
|--------------|------|-----------|-------|----------|---------|
| Benzene      |      | 0.112     | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.0856    | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 0.00980   | mg/L  | 1        | 0.00100 |
| Xylene       |      | 0.0244    | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.100  | mg/L  | 1        | 0.100        | 100              | 77.8 - 121.1    |
| 4-Bromofluorobenzene (4-BFB) |      | 0.120  | mg/L  | 1        | 0.100        | 120              | 40.1 - 136      |

**Sample: 154908 - MW-19**

Analysis: BTEX                      Analytical Method: S 8021B                      Prep Method: S 5030B  
QC Batch: 47018                      Date Analyzed: 2008-04-01                      Analyzed By: DC  
Prep Batch: 40437                      Sample Preparation: 2008-04-01                      Prepared By: DC

| Parameter    | Flag | RL Result | Units | Dilution | RL      |
|--------------|------|-----------|-------|----------|---------|
| Benzene      |      | 0.0711    | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.0434    | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 0.00470   | mg/L  | 1        | 0.00100 |
| Xylene       |      | 0.0119    | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.108  | mg/L  | 1        | 0.100        | 108              | 77.8 - 121.1    |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0809 | mg/L  | 1        | 0.100        | 81               | 40.1 - 136      |

**Sample: 154909 - MW-20**

Analysis: BTEX                      Analytical Method: S 8021B                      Prep Method: S 5030B  
QC Batch: 47018                      Date Analyzed: 2008-04-01                      Analyzed By: DC  
Prep Batch: 40437                      Sample Preparation: 2008-04-01                      Prepared By: DC

| Parameter | Flag | RL Result | Units | Dilution | RL      |
|-----------|------|-----------|-------|----------|---------|
| Benzene   |      | 0.0431    | mg/L  | 1        | 0.00100 |

*continued ...*

sample 154909 continued ...

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Toluene      |      | 0.0226       | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 0.00230      | mg/L  | 1        | 0.00100 |
| Xylene       |      | 0.00590      | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.108  | mg/L  | 1        | 0.100           | 108                 | 77.8 - 121.1       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0813 | mg/L  | 1        | 0.100           | 81                  | 40.1 - 136         |

Method Blank (1) QC Batch: 46944

QC Batch: 46944  
Prep Batch: 40358

Date Analyzed: 2008-03-28  
QC Preparation: 2008-03-27

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)       |      | 0.0987 | mg/L  | 1        | 0.100           | 99                  | 77.2 - 129.1       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.105  | mg/L  | 1        | 0.100           | 105                 | 69.1 - 122.3       |

Method Blank (1) QC Batch: 47018

QC Batch: 47018  
Prep Batch: 40437

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

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)       |      | 0.107  | mg/L  | 1        | 0.100           | 107                 | 77.2 - 129.1       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0812 | mg/L  | 1        | 0.100           | 81                  | 69.1 - 122.3       |



### Laboratory Control Spike (LCS-1)

QC Batch: 46944  
Prep Batch: 40358

Date Analyzed: 2008-03-28  
QC Preparation: 2008-03-27

Analyzed By: DC  
Prepared By: DC

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|--------------|------------|-------|------|--------------|---------------|------|--------------|
| Benzene      | 0.0995     | mg/L  | 1    | 0.100        | <0.00110      | 100  | 84 - 119.7   |
| Toluene      | 0.0994     | mg/L  | 1    | 0.100        | <0.00100      | 99   | 84.9 - 118.2 |
| Ethylbenzene | 0.0989     | mg/L  | 1    | 0.100        | <0.00100      | 99   | 84.4 - 118.6 |
| Xylene       | 0.296      | mg/L  | 1    | 0.300        | <0.00290      | 99   | 84.8 - 117.8 |

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

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   | RPD | RPD Limit |
|--------------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Benzene      | 0.0851     | mg/L  | 1    | 0.100        | <0.00110      | 85   | 84 - 119.7   | 16  | 20        |
| Toluene      | 0.0860     | mg/L  | 1    | 0.100        | <0.00100      | 86   | 84.9 - 118.2 | 14  | 20        |
| Ethylbenzene | 0.0859     | mg/L  | 1    | 0.100        | <0.00100      | 86   | 84.4 - 118.6 | 14  | 20        |
| Xylene       | 0.256      | mg/L  | 1    | 0.300        | <0.00290      | 85   | 84.8 - 117.8 | 14  | 20        |

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

| Surrogate                    | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit   |
|------------------------------|------------|------------|-------|------|--------------|----------|----------|--------------|
| Trifluorotoluene (TFT)       | 0.0994     | 0.0999     | mg/L  | 1    | 0.100        | 99       | 100      | 80 - 128.3   |
| 4-Bromofluorobenzene (4-BFB) | 0.108      | 0.108      | mg/L  | 1    | 0.100        | 108      | 108      | 67.7 - 126.3 |

### Laboratory Control Spike (LCS-1)

QC Batch: 47018  
Prep Batch: 40437

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

Analyzed By: DC  
Prepared By: DC

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|--------------|------------|-------|------|--------------|---------------|------|--------------|
| Benzene      | 0.0999     | mg/L  | 1    | 0.100        | <0.00110      | 100  | 84 - 119.7   |
| Toluene      | 0.0989     | mg/L  | 1    | 0.100        | <0.00100      | 99   | 84.9 - 118.2 |
| Ethylbenzene | 0.0976     | mg/L  | 1    | 0.100        | <0.00100      | 98   | 84.4 - 118.6 |
| Xylene       | 0.292      | mg/L  | 1    | 0.300        | <0.00290      | 97   | 84.8 - 117.8 |

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

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   | RPD | RPD Limit |
|--------------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Benzene      | 0.104      | mg/L  | 1    | 0.100        | <0.00110      | 104  | 84 - 119.7   | 4   | 20        |
| Toluene      | 0.102      | mg/L  | 1    | 0.100        | <0.00100      | 102  | 84.9 - 118.2 | 3   | 20        |
| Ethylbenzene | 0.101      | mg/L  | 1    | 0.100        | <0.00100      | 101  | 84.4 - 118.6 | 3   | 20        |
| Xylene       | 0.302      | mg/L  | 1    | 0.300        | <0.00290      | 101  | 84.8 - 117.8 | 3   | 20        |

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

| Surrogate                    | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit   |
|------------------------------|------------|------------|-------|------|--------------|----------|----------|--------------|
| Trifluorotoluene (TFT)       | 0.106      | 0.106      | mg/L  | 1    | 0.100        | 106      | 106      | 80 - 128.3   |
| 4-Bromofluorobenzene (4-BFB) | 0.0820     | 0.0818     | mg/L  | 1    | 0.100        | 82       | 82       | 67.7 - 126.3 |

**Matrix Spike (MS-1) Spiked Sample: 154680**

QC Batch: 46944  
Prep Batch: 40358

Date Analyzed: 2008-03-28  
QC Preparation: 2008-03-27

Analyzed By: DC  
Prepared By: DC

| Param        | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|--------------|-----------|-------|------|--------------|---------------|------|--------------|
| Benzene      | 0.609     | mg/L  | 5    | 0.500        | 0.0727        | 107  | 77.5 - 121.1 |
| Toluene      | 0.530     | mg/L  | 5    | 0.500        | <0.00500      | 106  | 78.8 - 119.6 |
| Ethylbenzene | 0.551     | mg/L  | 5    | 0.500        | 0.0312        | 104  | 77.9 - 120.5 |
| Xylene       | 1.58      | mg/L  | 5    | 1.50         | 0.018         | 104  | 78.3 - 119.4 |

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

| Param        | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   | RPD | RPD Limit |
|--------------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Benzene      | 0.601      | mg/L  | 5    | 0.500        | 0.0727        | 106  | 77.5 - 121.1 | 1   | 20        |
| Toluene      | 0.535      | mg/L  | 5    | 0.500        | <0.00500      | 107  | 78.8 - 119.6 | 1   | 20        |
| Ethylbenzene | 0.556      | mg/L  | 5    | 0.500        | 0.0312        | 105  | 77.9 - 120.5 | 1   | 20        |
| Xylene       | 1.59       | mg/L  | 5    | 1.50         | 0.018         | 105  | 78.3 - 119.4 | 1   | 20        |

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

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit   |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|--------------|
| Trifluorotoluene (TFT)       | 0.505     | 0.513      | mg/L  | 5    | 0.5          | 101     | 103      | 86.6 - 118.9 |
| 4-Bromofluorobenzene (4-BFB) | 0.560     | 0.556      | mg/L  | 5    | 0.5          | 112     | 111      | 59.4 - 127.3 |

**Matrix Spike (MS-1) Spiked Sample: 154971**

QC Batch: 47018  
Prep Batch: 40437

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

Analyzed By: DC  
Prepared By: DC

| Param        | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|--------------|-----------|-------|------|--------------|---------------|------|--------------|
| Benzene      | 3.81      | mg/L  | 10   | 1.00         | 2.9973        | 81   | 77.5 - 121.1 |
| Toluene      | 1.06      | mg/L  | 10   | 1.00         | 0.0817        | 98   | 78.8 - 119.6 |
| Ethylbenzene | 1.00      | mg/L  | 10   | 1.00         | 0.0283        | 97   | 77.9 - 120.5 |
| Xylene       | 3.08      | mg/L  | 10   | 3.00         | 0.1866        | 96   | 78.3 - 119.4 |

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

| Param        | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   | RPD | RPD Limit |
|--------------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Benzene      | 3.88       | mg/L  | 10   | 1.00         | 2.9973        | 88   | 77.5 - 121.1 | 2   | 20        |
| Toluene      | 1.10       | mg/L  | 10   | 1.00         | 0.0817        | 102  | 78.8 - 119.6 | 4   | 20        |
| Ethylbenzene | 1.03       | mg/L  | 10   | 1.00         | 0.0283        | 100  | 77.9 - 120.5 | 3   | 20        |
| Xylene       | 3.18       | mg/L  | 10   | 3.00         | 0.1866        | 100  | 78.3 - 119.4 | 3   | 20        |

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

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit   |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|--------------|
| Trifluorotoluene (TFT)       | 1.04      | 1.04       | mg/L  | 10   | 1            | 104     | 104      | 86.6 - 118.9 |
| 4-Bromofluorobenzene (4-BFB) | 0.791     | 0.796      | mg/L  | 10   | 1            | 79      | 80       | 59.4 - 127.3 |

**Standard (ICV-1)**

QC Batch: 46944

Date Analyzed: 2008-03-28

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                 | 0.101                  | 101                         | 85 - 115                      | 2008-03-28       |
| Toluene      |      | mg/L  | 0.100                 | 0.101                  | 101                         | 85 - 115                      | 2008-03-28       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.101                  | 101                         | 85 - 115                      | 2008-03-28       |
| Xylene       |      | mg/L  | 0.300                 | 0.300                  | 100                         | 85 - 115                      | 2008-03-28       |

**Standard (CCV-1)**

QC Batch: 46944

Date Analyzed: 2008-03-28

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                      | 2008-03-28       |
| Toluene      |      | mg/L  | 0.100                 | 0.106                  | 106                         | 85 - 115                      | 2008-03-28       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.104                  | 104                         | 85 - 115                      | 2008-03-28       |
| Xylene       |      | mg/L  | 0.300                 | 0.317                  | 106                         | 85 - 115                      | 2008-03-28       |

**Standard (ICV-1)**

QC Batch: 47018

Date Analyzed: 2008-04-01

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                 | 0.100                  | 100                         | 85 - 115                      | 2008-04-01       |
| Toluene      |      | mg/L  | 0.100                 | 0.0996                 | 100                         | 85 - 115                      | 2008-04-01       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0982                 | 98                          | 85 - 115                      | 2008-04-01       |
| Xylene       |      | mg/L  | 0.300                 | 0.294                  | 98                          | 85 - 115                      | 2008-04-01       |

**Standard (CCV-1)**

QC Batch: 47018

Date Analyzed: 2008-04-01

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                 | 0.102                  | 102                         | 85 - 115                      | 2008-04-01       |
| Toluene      |      | mg/L  | 0.100                 | 0.101                  | 101                         | 85 - 115                      | 2008-04-01       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0981                 | 98                          | 85 - 115                      | 2008-04-01       |
| Xylene       |      | mg/L  | 0.300                 | 0.299                  | 100                         | 85 - 115                      | 2008-04-01       |

email: [lab@traceanalysis.com](mailto:lab@traceanalysis.com)

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

6015 Harris Pkwy., Suite 110  
Ft. Worth, Texas 76132  
Tel (817) 201-5260

---

ORIGINAL COPY

**APPENDIX C**  
**NMOCD CORRESPONDENCE**

**Camille J Reynolds**

---

**From:** Stone, Ben, EMNRD [ben.stone@state.nm.us]  
**Sent:** Wednesday, October 25, 2006 12:04 PM  
**To:** Camille J Reynolds  
**Subject:** RE: 8" Moore to Jal #1 Report

Camille,

The numbers look good... Please go ahead with your liner and backfill proposal.

Thanks,

Ben

-----Original Message-----

**From:** Camille J Reynolds [mailto:cjreynolds@paalp.com]  
**Sent:** Thursday, October 12, 2006 7:54 AM  
**To:** Stone, Ben, EMNRD  
**Subject:** 8" Moore to Jal #1 Report

Ben,

On May 24, 2006 Talon on behalf of Plains submitted a Soil Over Excavation Report for the 8" Moore to Jal #1 release site NMOCD Ref# 1R-0380 which was denied by Mr. Ed Martin. The report proposed the installation of a 20 mil polyethylene liner and backfilling the excavation with the treated stockpiled soil. The TPH concentrations of the soil samples collected from the treatment cell were all above 1,000 ppm with the exception of the sample collected from the southeast quadrant of cell A which was 933 ppm.

The treatment cell has been tilled and treated with nutrients and additional soil samples were collected and the analytical results are attached. As indicated in the table all the soil samples in the treatment cell are now below 1,000 ppm TPH. Would the NMOCD grant Plains approval of the Soil

Over Excavation Report at this time?

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

Sincerely,

Camille Reynolds  
Remediation Coordinator  
Plains All American

office: 505/396-3341  
fax: 505/396-2754  
cellular: 505/441-0965

<<Plains (Site 1) 8 inch Moore to Jal #1 PSH Summary and Analytical Tables.pdf>>

#####  
Attention:

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please contact the Plains Service Desk at 713-646-4444 and delete the material from any system and destroy any copies.

This footnote also confirms that this email message has been scanned for Viruses and Content and cleared.

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## **APPENDIX D**

### **Release Notification and Corrective Action Form 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

|                                                                                             |                                            |
|---------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>Name of Company:</b> Plains All American Pipeline, L. P. (formerly Link Energy and EOTT) | <b>Contact:</b> Frank Hernandez            |
| <b>Address:</b><br>PO Box 1660 5805 East Highway 80 Midland, Texas 79702                    | <b>Telephone No.:</b><br>915.638.3799      |
| <b>Facility Name:</b><br>8" Moore to Jal #1                                                 | <b>Facility Type:</b><br>8" Steel Pipeline |

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

### LOCATION OF RELEASE

|                          |                      |                         |                      |                      |                         |                      |                       |                                                                                    |
|--------------------------|----------------------|-------------------------|----------------------|----------------------|-------------------------|----------------------|-----------------------|------------------------------------------------------------------------------------|
| <b>Unit Letter</b><br>16 | <b>Section</b><br>16 | <b>Township</b><br>T17S | <b>Range</b><br>R37E | <b>Feet from the</b> | <b>North/South Line</b> | <b>Feet from the</b> | <b>East/West Line</b> | <b>County:</b> Lea<br><b>Lat.</b> 32° 50' 12.36"N<br><b>Lon.</b> 103° 15' 26.234"W |
|--------------------------|----------------------|-------------------------|----------------------|----------------------|-------------------------|----------------------|-----------------------|------------------------------------------------------------------------------------|

### NATURE OF RELEASE

|                                                                                                                                                 |                                                                                                                                            |                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>Type of Release:</b><br>Crude Oil                                                                                                            | <b>Volume of Release:</b><br>200 bbls barrels                                                                                              | <b>Volume Recovered:</b><br>0 bbls barrels               |
| <b>Source of Release:</b><br>8" Steel Pipeline                                                                                                  | <b>Date and Hour of Occurrence:</b><br>EOTT                                                                                                | <b>Date and Hour of Discovery:</b><br>10-18-02 @ 8:00 AM |
| <b>Was Immediate Notice Given?</b><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | <b>If YES, To Whom?</b><br>Paul Sheeley                                                                                                    |                                                          |
| <b>By Whom?</b><br>Pat McCasland, EPI                                                                                                           | <b>Date and Hour</b><br>10-18-02 @ 11:00 AM Pat McCasland EPI left message with Paul Sheeley and sent page to the "ON-CALL" representative |                                                          |
| <b>Was a Watercourse Reached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                           | <b>If YES, Volume Impacting the Watercourse:</b> 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.\*** 8,000 sqft ~200' 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 = 1000 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.

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

\* Attach Additional Sheets If Necessary

**EOTT Site Information and Metrics**
**Incident Date:**  
10-18-02 @ 10:00 AM

**NMOCD Notified:**  
10-18-02 @ 11:00 AM Pat McCasland EPI left message with Paul Sheeley and sent page to the "ON-CALL" representative

|                                                                                                                                                     |         |                                                                                             |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------|-----------|
| <b>SITE:</b> 8" Moore to Jal #1                                                                                                                     |         | <b>Assigned Site Reference #:</b> 2002-10270                                                |           |
| <b>Company:</b> EOTT                                                                                                                                |         |                                                                                             |           |
| <b>Street Address:</b> PO Box 1660                                                                                                                  |         |                                                                                             |           |
| <b>Mailing Address:</b> 5805 East Highway 80                                                                                                        |         |                                                                                             |           |
| <b>City, State, Zip:</b> Midland, Texas 79702                                                                                                       |         |                                                                                             |           |
| <b>Representative:</b> Frank Hernandez                                                                                                              |         |                                                                                             |           |
| <b>Representative Telephone:</b> 915.638.3799                                                                                                       |         |                                                                                             |           |
| <b>Telephone:</b>                                                                                                                                   |         |                                                                                             |           |
| <b>Fluid volume released (bbls):</b> 200 bbls                                                                                                       |         | <b>Recovered (bbls):</b> 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)                                       |         |                                                                                             |           |
| <b>Leak, Spill, or Pit (LSP) Name:</b> 8" Moore to Jal #1                                                                                           |         |                                                                                             |           |
| <b>Source of contamination:</b> 8" Steel Pipeline                                                                                                   |         |                                                                                             |           |
| <b>Land Owner, i.e., BLM, ST, Fee, Other:</b> State of New Mexico                                                                                   |         |                                                                                             |           |
| <b>LSP Dimensions:</b> ~200' x 40'                                                                                                                  |         |                                                                                             |           |
| <b>LSP Area:</b> 8,000 sqft ft <sup>2</sup>                                                                                                         |         |                                                                                             |           |
| <b>Location of Reference Point (RP):</b>                                                                                                            |         |                                                                                             |           |
| <b>Location distance and direction from RP:</b>                                                                                                     |         |                                                                                             |           |
| <b>Latitude:</b> 32° 50' 12.36"N                                                                                                                    |         |                                                                                             |           |
| <b>Longitude:</b> 103° 15' 26.234"W.                                                                                                                |         |                                                                                             |           |
| <b>Elevation above mean sea level:</b>                                                                                                              |         |                                                                                             |           |
| <b>Feet from South Section Line:</b>                                                                                                                |         |                                                                                             |           |
| <b>Feet from West Section Line:</b>                                                                                                                 |         |                                                                                             |           |
| <b>Location- Unit or ¼¼:</b> SE¼ of the NW¼                                                                                                         |         | <b>Unit Letter:</b> F                                                                       |           |
| <b>Location- Section:</b> 16                                                                                                                        |         |                                                                                             |           |
| <b>Location- Township:</b> T17S                                                                                                                     |         |                                                                                             |           |
| <b>Location- Range:</b> R37E                                                                                                                        |         |                                                                                             |           |
| <b>Surface water body within 1000' radius of site:</b> none                                                                                         |         |                                                                                             |           |
| <b>Surface water body within 1000' radius of site:</b>                                                                                              |         |                                                                                             |           |
| <b>Domestic water wells within 1000' radius of site:</b> none                                                                                       |         |                                                                                             |           |
| <b>Domestic water wells within 1000' radius of site:</b>                                                                                            |         |                                                                                             |           |
| <b>Agricultural water wells within 1000' radius of site:</b> none                                                                                   |         |                                                                                             |           |
| <b>Agricultural water wells within 1000' radius of site:</b>                                                                                        |         |                                                                                             |           |
| <b>Public water supply wells within 1000' radius of site:</b> none                                                                                  |         |                                                                                             |           |
| <b>Public water supply wells within 1000' radius of site:</b>                                                                                       |         |                                                                                             |           |
| <b>Depth from land surface to ground water (DG):</b> ~66 feet                                                                                       |         |                                                                                             |           |
| <b>Depth of contamination (DC):</b> ?                                                                                                               |         |                                                                                             |           |
| <b>Depth to ground water (DG – DC = DtGW):</b> <50 feet                                                                                             |         |                                                                                             |           |
| <b>1. Ground Water</b>                                                                                                                              |         | <b>2. Wellhead Protection Area</b>                                                          |           |
| If Depth to GW <50 feet: <i>20 points</i>                                                                                                           |         | If <1000' from water source, or; <200' from private domestic water source: <i>20 points</i> |           |
| If Depth to GW 50 to 99 feet: <i>10 points</i>                                                                                                      |         | If >1000' from water source, or; >200' from private domestic water source: <i>0 points</i>  |           |
| If Depth to GW >100 feet: <i>0 points</i>                                                                                                           |         |                                                                                             |           |
| <b>Ground water Score = 10</b>                                                                                                                      |         | <b>Wellhead Protection Area Score = 0</b>                                                   |           |
| <b>Site Rank (1+2+3) = 10</b>                                                                                                                       |         | <b>3. Distance to Surface Water Body</b>                                                    |           |
|                                                                                                                                                     |         | <200 horizontal feet: <i>20 points</i>                                                      |           |
|                                                                                                                                                     |         | 200-100 horizontal feet: <i>10 points</i>                                                   |           |
|                                                                                                                                                     |         | >1000 horizontal feet: <i>0 points</i>                                                      |           |
|                                                                                                                                                     |         | <b>Surface Water Score = 0</b>                                                              |           |
| <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 | 1,000 ppm                                                                                   | 5,000 ppm |
| <sup>1</sup> 100 ppm field VOC headspace measurement may be substituted for lab analysis                                                            |         |                                                                                             |           |