

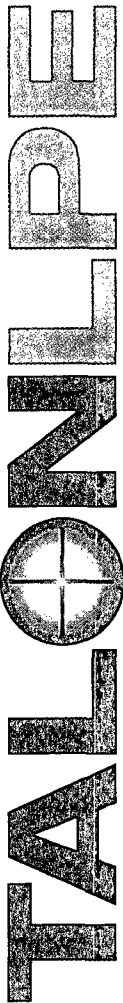
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STAGE 1 & 2 WORKPLANS

DATE:

4-30-08



**STAGE 1 AND STAGE 2 ABATEMENT PLAN
8" MOORE TO JAL #2
LEA COUNTY, NEW MEXICO
NMOCD REF. # 1R-0381
SRS #2002-10273**

RECEIVED

APR 30 2008
Environmental Bureau
Oil Conservation Division

NW1/4 of the SE ¼ of Section 16, Township 17 South, Range 37 East

Prepared for:

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Prepared by:

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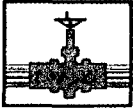
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Copy 4 – NMOCD Hobbs
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Copy 6 – Talon/LPE

April 30, 2007
8



**PLAINS
PIPELINE**

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April 30, 2008

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APR 30 2008

Environmental Bureau
Oil Conservation Division

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 #2 Release Site
NW ¼, SE ¼ of Section 16, Township 17 South, Range 37 East
Lea County, New Mexico
NMOCD File Number 1R-0381

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 #2 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 #2
Stage 1 & 2 Abatement Plan**

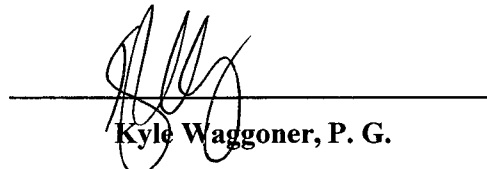
**Plains Pipeline, L.P.
Houston, Texas**

Talon/LPE PROJECT NO. PLAINS008SPL

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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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Figure 2 – Site Plan

Figure 3 – Soil Boring Location Map

Figure 4 – Cross Section

Figure 4.a. – Cross Section A – A’

Figure 4.b. – Cross Section B – B’

Figure 5 – Confirmation Sampling Locations

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Figure 7 – Groundwater Gradient Map (3/26/2008)

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Table 1 – Summary of Environmental Boring Results (Soil)

Table 2 – Summary of Excavation Analytical Results (Soil)

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

Table 4 – Summary of Groundwater Analytical Results

Table 5 – Summary of PSH Thickness & Gauging Measurements

APPENDICES

Appendix A – Soil Boring and Well Completion Logs

Appendix B – Laboratory Reports

Appendix C - Letter – NMOCD Backfill & Excavation Approval

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 #2 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 #2 release site is located approximately 9.5 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°49'56.6"N latitude and 103°15'8.31"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 twenty five (25) barrels of crude oil occurred at the site due to corrosion (internal and/or external) of the pipeline. Approximately six thousand (6,000) 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 remaining at the site, delineation activities were performed by Environmental Plus, Inc. (EPI) at the site to depths ranging from twenty (20) to forty (40) feet below ground surface (bgs) in November 2002. Field PID measurements were collected from the soil delineation samples collected at discrete intervals. The field analysis indicated organic vapor concentrations exceeded one hundred (100) parts per million (ppm) to a depth of forty (40) feet bgs. These samples were not submitted for laboratory analysis.

EPI commenced excavation activities at the site in June 2003 to remove soil impacted above the NMOCD remedial threshold limits. Subsequently, approximately 1,220 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 575 cubic yards of the excavated soil was placed into a blending cell and the rock was stockpiled separately on site.

Upon the completion of site excavation activities in June 2003, composite soil samples were collected by EPI from the north, south and east sidewalls, as well as the floor of the excavation. Laboratory analysis of the samples confirmed all analytes were below the NMOCD remedial thresholds with the exception of Total Petroleum Hydrocarbons (TPH) in the north sidewall sample which was only slightly above the one hundred (100) mg/kg threshold (195 mg/kg – SW-846 Method 8015). In June 2005, two (2) confirmation grab samples were collected by Talon/LPE from the west sidewall of the excavation. Laboratory analysis of these samples confirmed all analytes were below NMOCD remedial thresholds.

EPI installed one (1) monitor well in July of 2004 and three (3) monitoring wells in October of 2004 (Figure 2). Soil samples were collected from MW-1, 2, 3 and 4 at various horizons during the boring process of the well installation. The majority of the samples collected exceeded the NMOCD thresholds for the various analytes. Field analysis of soil samples collected at discreet intervals indicated organic vapor concentrations exceeded 100 parts per million (ppm) at least to a depth of seventy-seven (77) feet bgs in soil boring MW-1.

As a result of the presence of phase separated hydrocarbons (PSH) in MW-1, EPI performed PSH recovery activities from October of 2004 to April of 2005. In an effort to accelerate the PSH recovery at the 8" Moore to Jal #2 site, Talon/LPE began bi-weekly PSH recovery upon commencement of the PSH recovery activities.

EPI sampled the blending cell on December 15, 2004, in conjunction with the weekly site visit. Sampling results indicated hydrocarbon levels in the blending cell soils were above the NMOCD remedial thresholds in two (2) of the four (4) quadrants in the blending cell area (Table 3). The land treatment areas have been turned by Talon/LPE to aerate the soils and accelerate the TPH degradation. The soils have been treated to below NMOCD standards.

3.0 GEOLOGY / HYDROGEOLOGY

3.1 Area Geology / Hydrogeology

The 8" Moore to Jal #2 release site is located approximately 9.5 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 3,770 to 3,775 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 #2 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 79 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:

<u>Criteria:</u>	<u>Site Condition:</u>	<u>Ranking Score:</u>
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:

Benzene	10 ppm
Total BTEX	50 ppm
TPH	100 ppm

3.4 Distribution of Hydrocarbons in the Unsaturated Zone

Soil samples collected during the installation of monitor well (MW-1) indicated that concentrations of BTEX and TPH in this area to exceed the NMOCD regulatory standards.

Analytical results from all the other monitor wells (MW2 through MW13) indicated the soil above the vadose zone is not impacted above NMOCD regulatory standards. The soil analytical results, from the 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-1, MW-2, MW-3, MW-5, MW-6, MW7, and MW-9 have been impacted with measurable PSH (see Figure 7). Groundwater sampling indicates monitor wells MW-4, MW-8, MW-10, MW-11, MW-12, and MW13 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. In January 2006, due to evidence from the excavation confirmation composite sampling, the northwest sidewall of the excavation was cut back an additional two feet. Laboratory analytical results indicated the sample collected from the northwest portion of the sidewall remained above NMOCD remedial threshold limits.

On May 23, 2006, Talon/LPE, on behalf of Plains, submitted a Soil Over-Excavation Report and Backfill Workplan to the NMOCD documenting the implementation of the original Excavation Work Plan which had been approved on October 16, 2005. On June 8, 2006, Plains received approval from the NMOCD to complete the additional over-excavation and sampling activities in conjunction with lining and backfilling activities at the site.

On August 15, 2006, Talon/LPE utilized a backhoe to excavate an additional two (2) feet from the northwest sidewall area of the excavation which previously exhibited TPH concentrations above NMOCD threshold limits. The newly excavated area measured approximately 25 feet in length, 2 feet wide and extended vertically to a maximum depth of 5 feet bgs. Approximately 9 cubic yards of impacted soil were excavated, tilled for aeration and blended into the existing soil stockpile to be later used for backfill. A photo-ionization detector (PID) was utilized to screen soil samples taken from the wall area to verify that remaining soil concentrations were below the NMOCD threshold limit of one hundred (100) ppm. In addition, a confirmation soil sample was collected and submitted for analysis. Analytical results indicate the maximum TPH concentrations were below the NMOCD remedial thresholds limits of 100 ppm. The results of the laboratory analyses are summarized in Appendix B and Table 1.

On September 29, 2005, remediation confirmation samples were collected from the blending cell areas (NW, SW, NE, and SE). Sampling results indicated hydrocarbon levels in the cell to be below or equal to the NMOCD remedial threshold limits (see Table 3).

On August 17, 2006, Plains commenced the approved 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 August 19 and 20, 2006, the 20 mil liner was placed in the excavation. A bentonite clay barrier was placed around the base of monitor well MW-1 to provide a seal between the well casing and the installed liner. At this time, the monitor well casing was extended to a height greater than the surface topography. A second 6-inch bed of sand was placed over the 20 mil liner and the entire excavation area was backfilled with remediated soils from the blending area. On August 28, 2006, Plains began removal of the portion of the pipeline running through the excavation and capped each end. Caps were welded in place on August 31, 2006. A back hoe was utilized to restore the site to approximate natural grade.

Based upon the results of the NMOCD approved soil closure activities by Ed Martin in letter dated June 8, 2006, no further soil remediation work is recommended at this time.

4.2 Groundwater Abatement Options

On March 27, 2008, the first quarter groundwater sampling event was performed. Based on available data, the groundwater gradient is approximately 0.004 feet/foot toward the southeast. The March 26, 2008, gradient map is located on Figure 7.

The site is currently impacted by PSH at seven monitor well locations (MW-1, MW-2, MW-3, MW-5, MW-6, MW7, and MW-9). Manual PSH recovery is performed weekly. The recovered oil is re-introduced into the Plains Pipeline System. A total of 1,516 gallons of crude oil has 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 three pneumatic total fluid pumps and four skimmer pumps. The total fluid pumps will be installed in the source area (MW-1, MW-6, and MW7) to accommodate a more aggressive PSH removal program. The skimmer pumps will be placed in the outer perimeter wells surrounding the wells with total fluid pumps (MW-2, MW-3, MW-5, and MW-9).

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 CO₂, H₂O 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 H₂O. 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 #2 site.

6.0 MONITORING PROGRAM

All thirteen 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 1st of each year.

7.0 SUMMARY AND CONCLUSIONS

A total of thirteen monitor wells are currently onsite. Seven 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-1, MW-6, and MW7). The four skimmer pumps will be placed in the outer perimeter wells surrounding the total fluid pump wells (MW-2, MW-3, MW-5, and MW-9). 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 1st 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

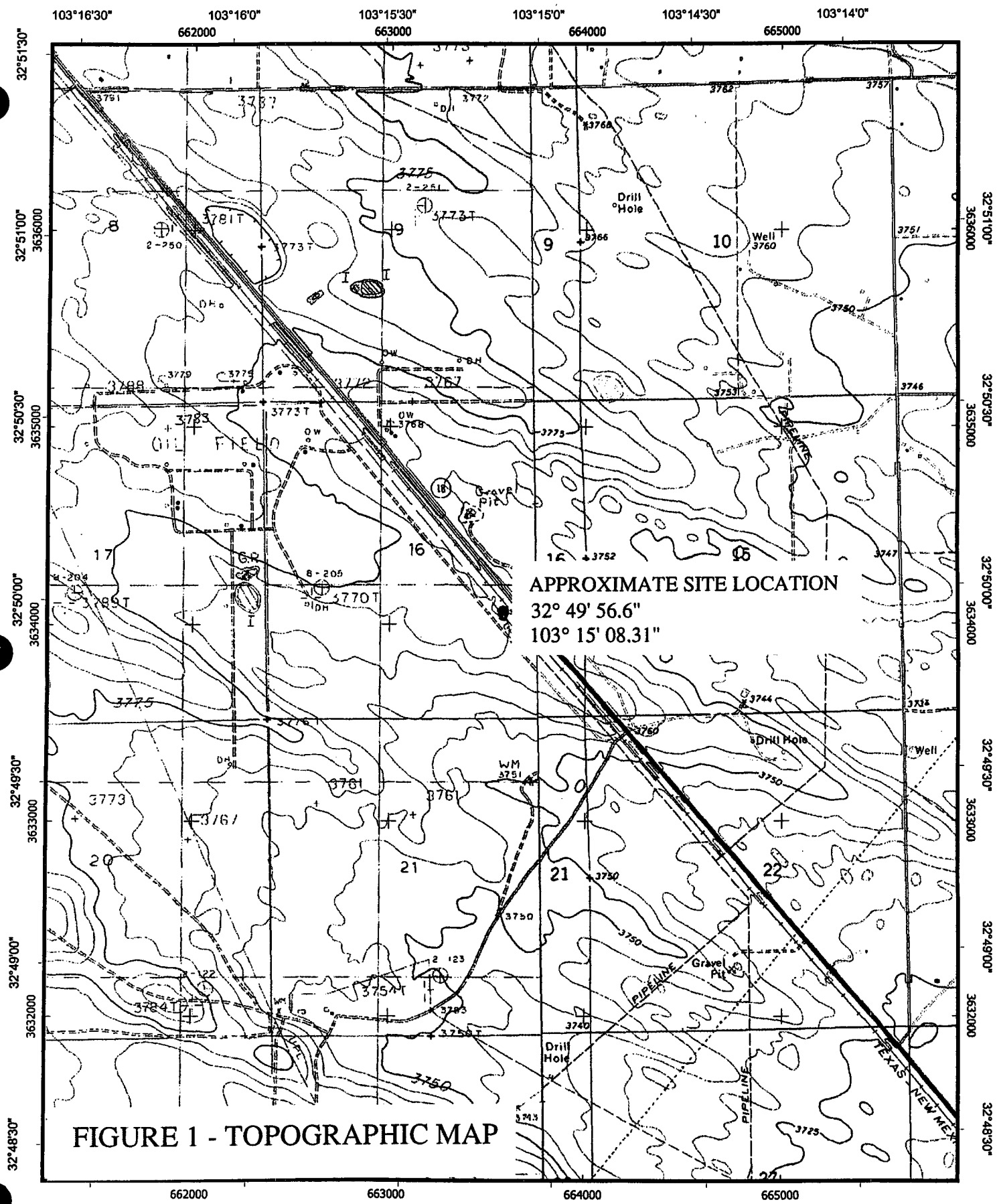
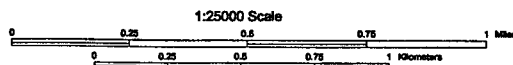
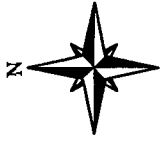


FIGURE 1 - TOPOGRAPHIC MAP



Universal Transverse Mercator (UTM) Projection Zone 13
North American Datum of 1983 (NAD83)
UTM Grid shown in Blue

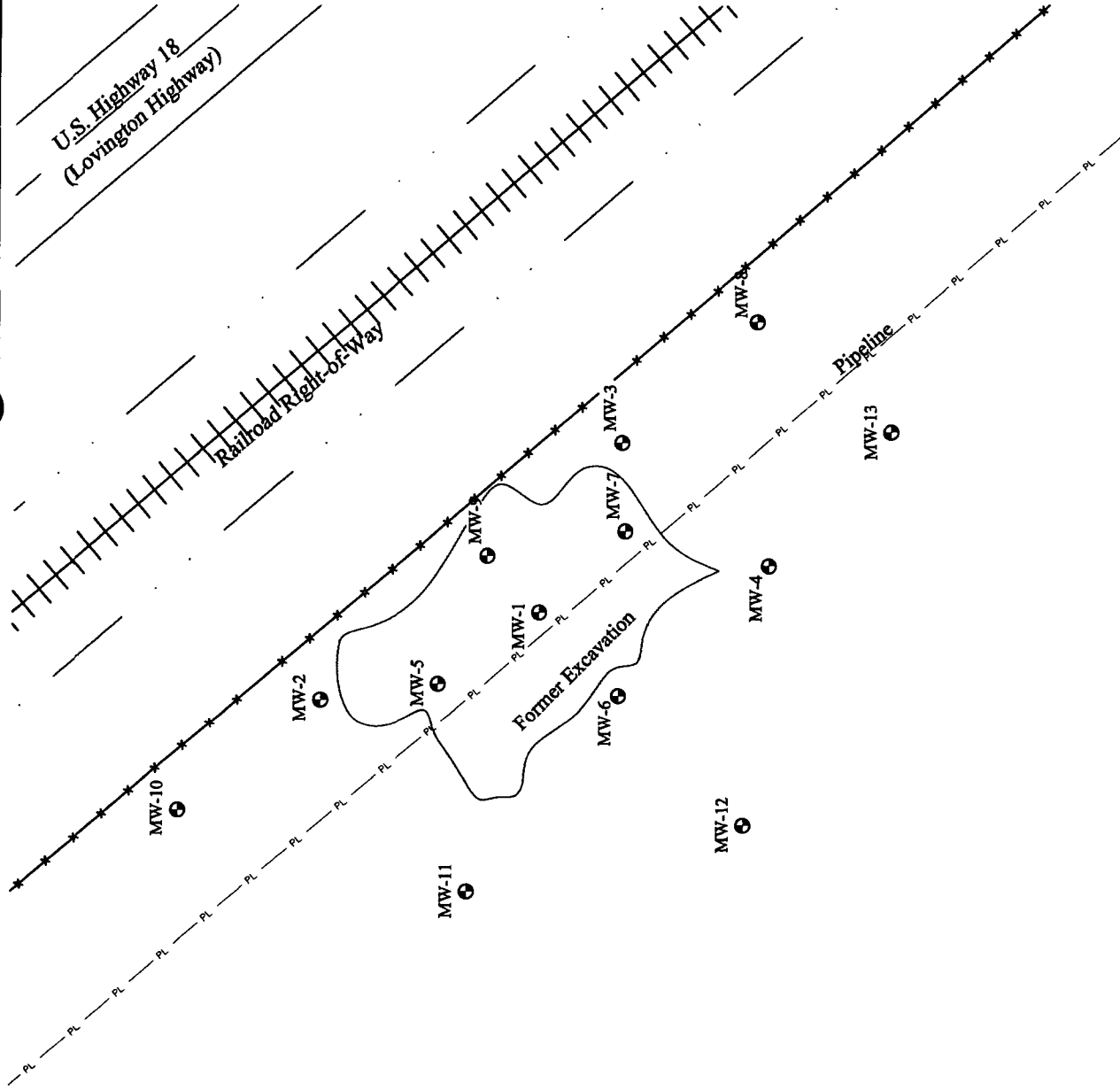
Magnetic declination at center of map on
April 28, 2003



0 35 70
Scale in Feet

Legend

- - Monitor Well
- +++++ - Railroad Tracks
- x— - Fence Line



Date: 04/28/2008

Scale: 1" = 70'

Drawn By: SJA

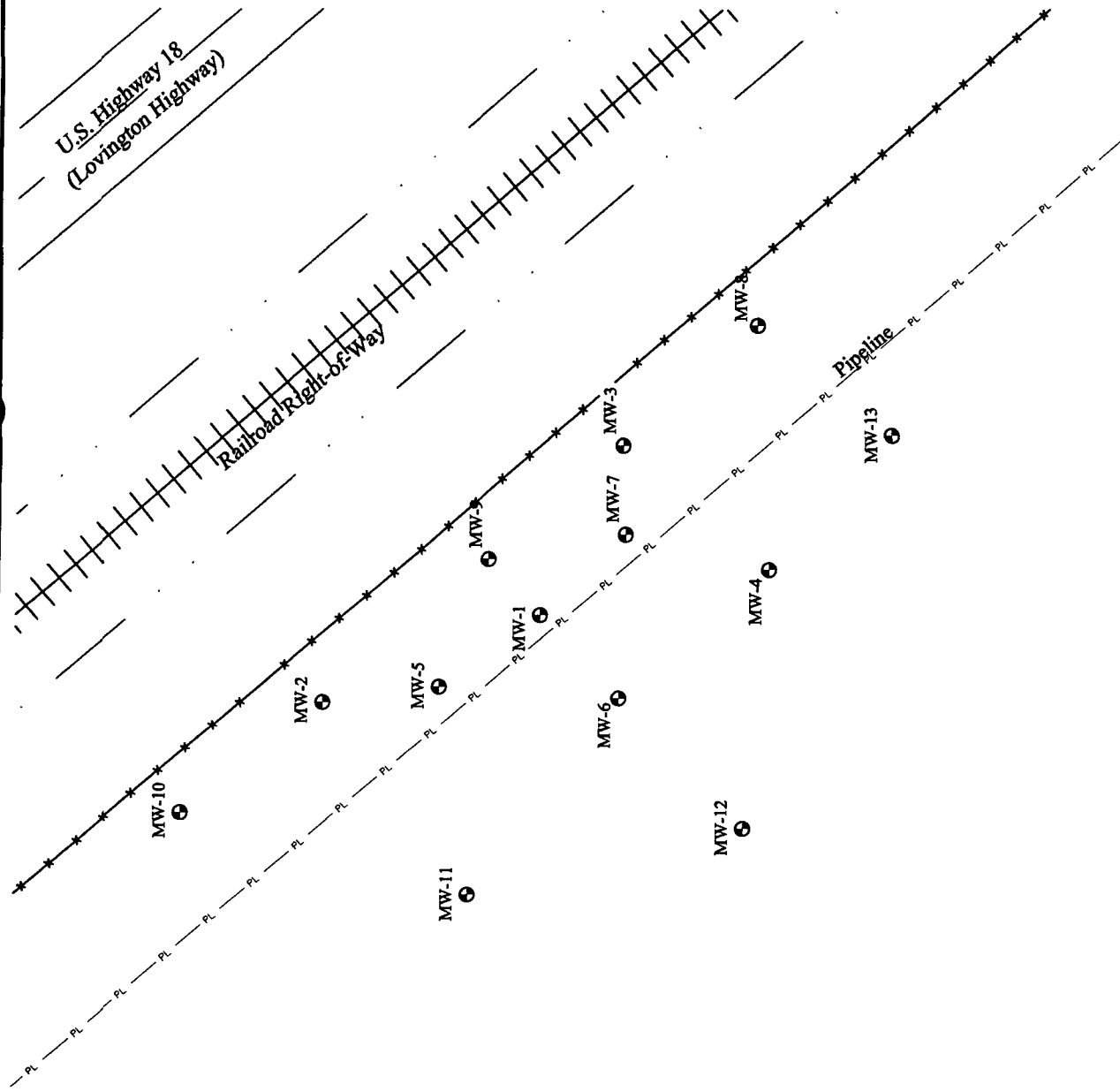


8" Moore to Jal # 2
SRS # 2002-10273, NMOCD REF. # 1R-0381
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
Figure 2 - Site Map



Legend

- - Monitor Well
- ++++ - Railroad Tracks
- - Fence Line



Date: 04/28/2008

Scale: 1" = 70'

Drawn By: SJA

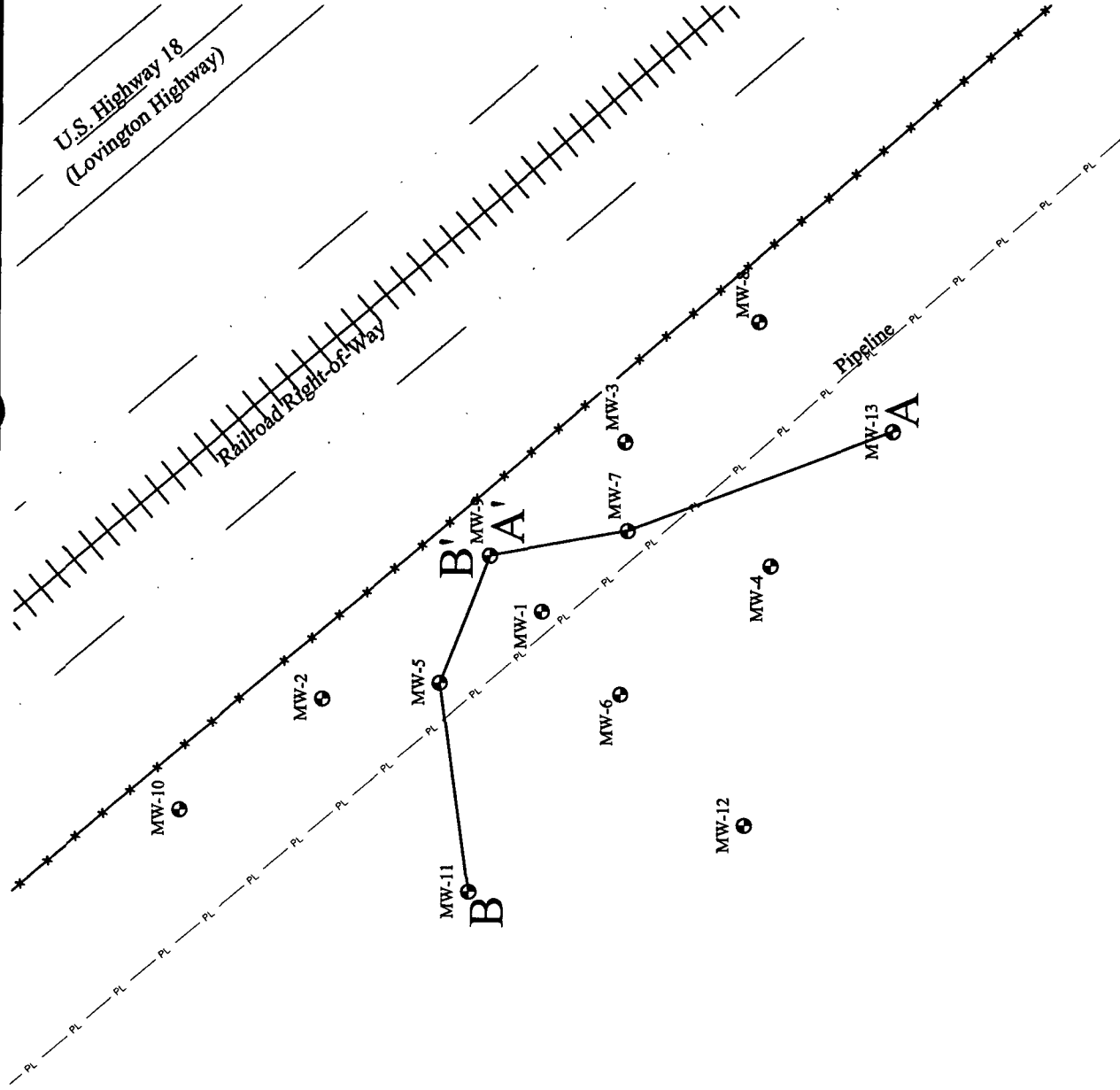


8" Moore to Jal # 2
 SRS # 2002-10273, NMOCD REF. # 1R-0381
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico
 Figure 3 - Soil Borings and Monitor Wells Map



0 35 70
Scale in Feet

Legend
 ● - Monitor Well
 +++++ - Railroad Tracks
 * - Fence Line



Date: 04/28/2008

Scale: 1" = 70'

Drawn By: SJA



8" Moore to Jal # 2

SRS # 2002-10273, NMOCD REF. # 1R-0381
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico
 Figure 4 - Cross Section (A-A' and B-B')

MONITOR WELL INSTALLATIONS (Cross Section A - A')

A

A'

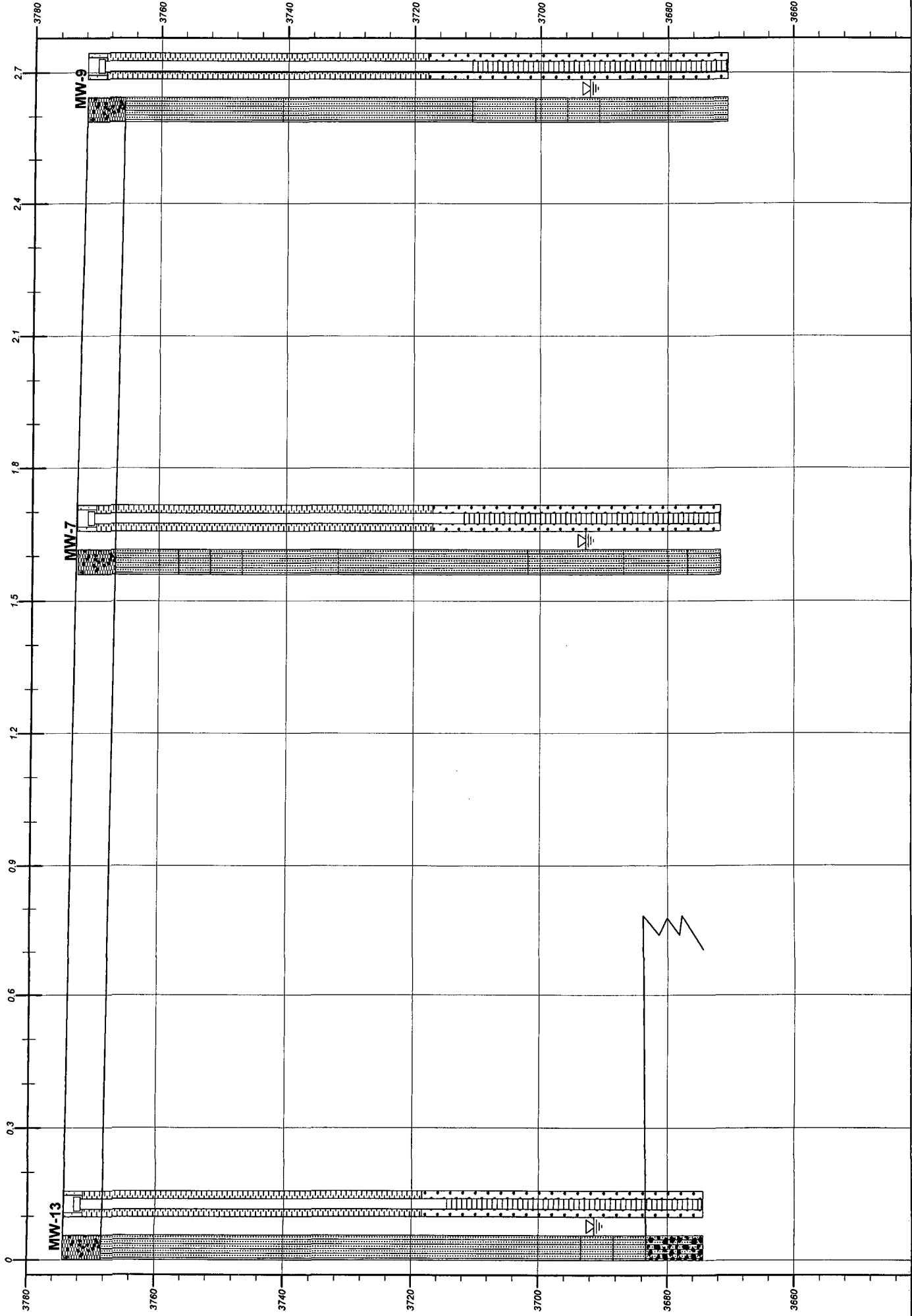
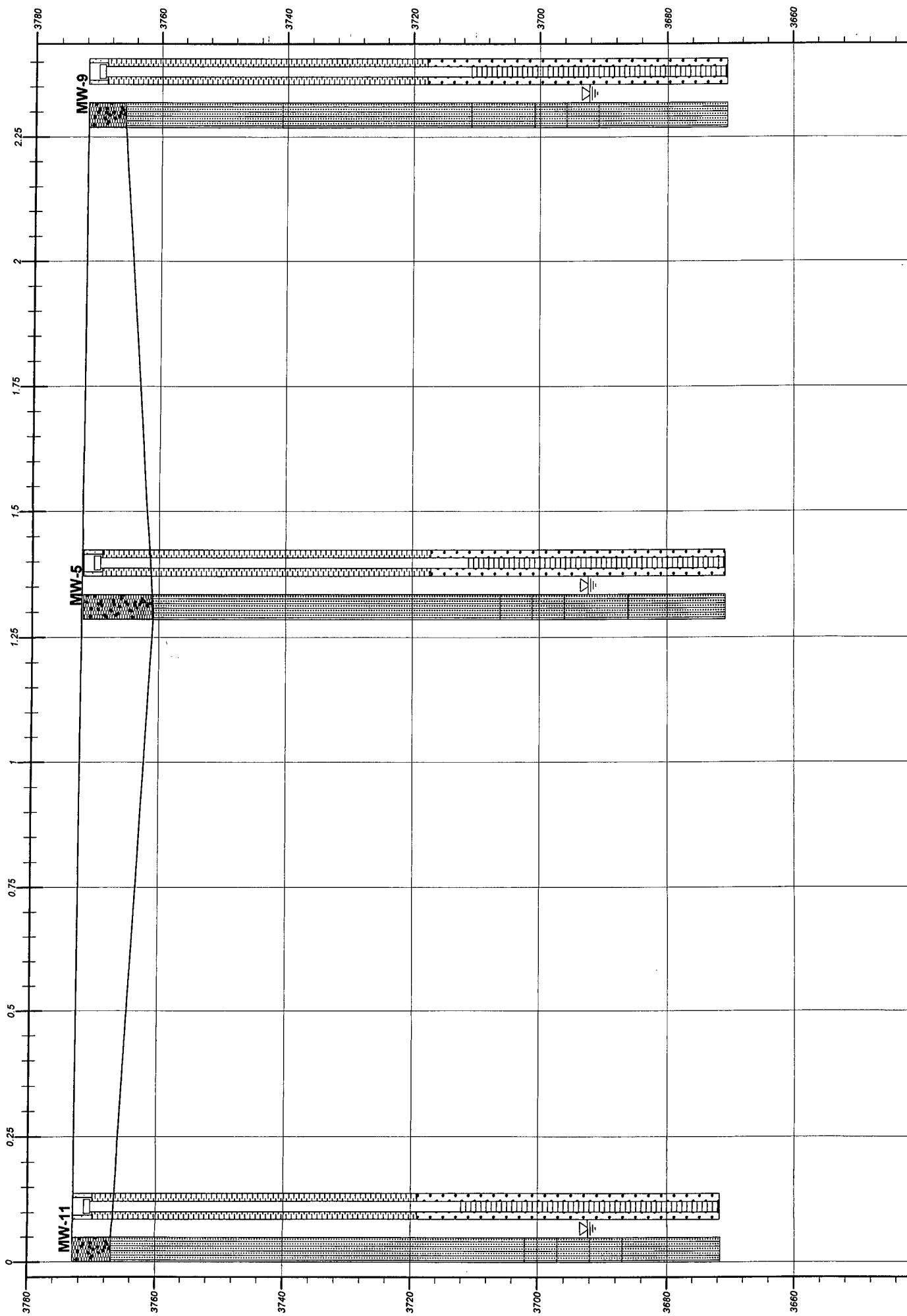


FIGURE 4a

MONITOR WELL INSTALLATIONS (Cross Section B - B')

B

B'



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



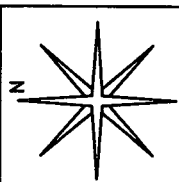
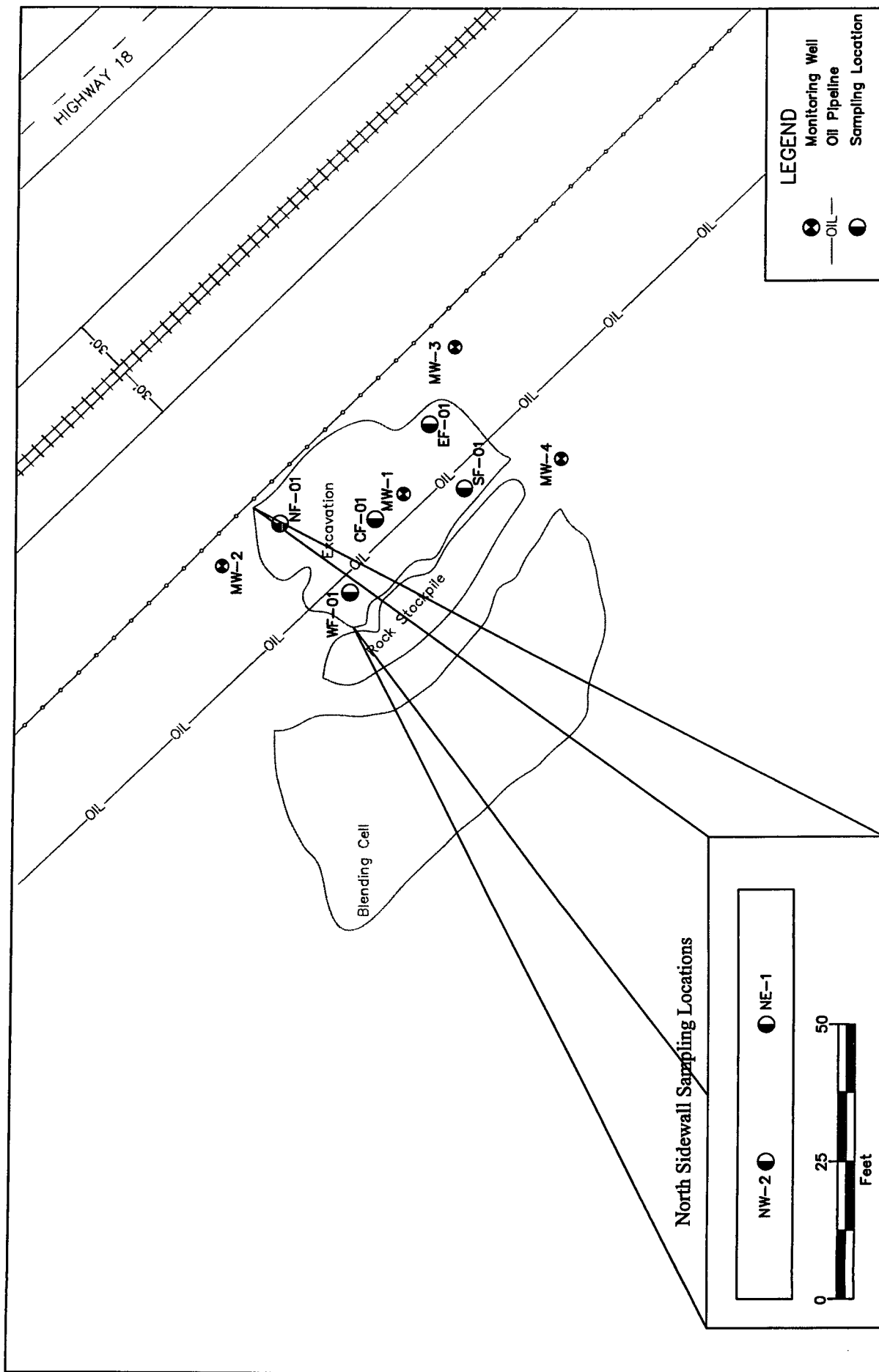
Silica sand, blank PVC



Slotted pipe w/ sand



Endcap on pipe
Packed in sand



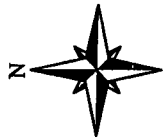
REVISED
Feb 2006

DWG Date:
June 2005

150
75
0
Feet

Lea County, New Mexico
NW 1/4 of the SE 1/4, Sec. 16, T17S, R37E
N 32° 49' 56.6" W 103° 15' 8.31"
Elevation: 3,770 feet amsl

Figure 5
Sampling Locations
Plains Pipeline, L.P.
8" Moore to Jal #2



U.S. Highway 18
(Lovington Highway)

Railroad Right-of-Way

Pipeline

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

MW-10, mg/L
B = 0.02830
T = 0.00240
E = <0.00100
X = 0.00290

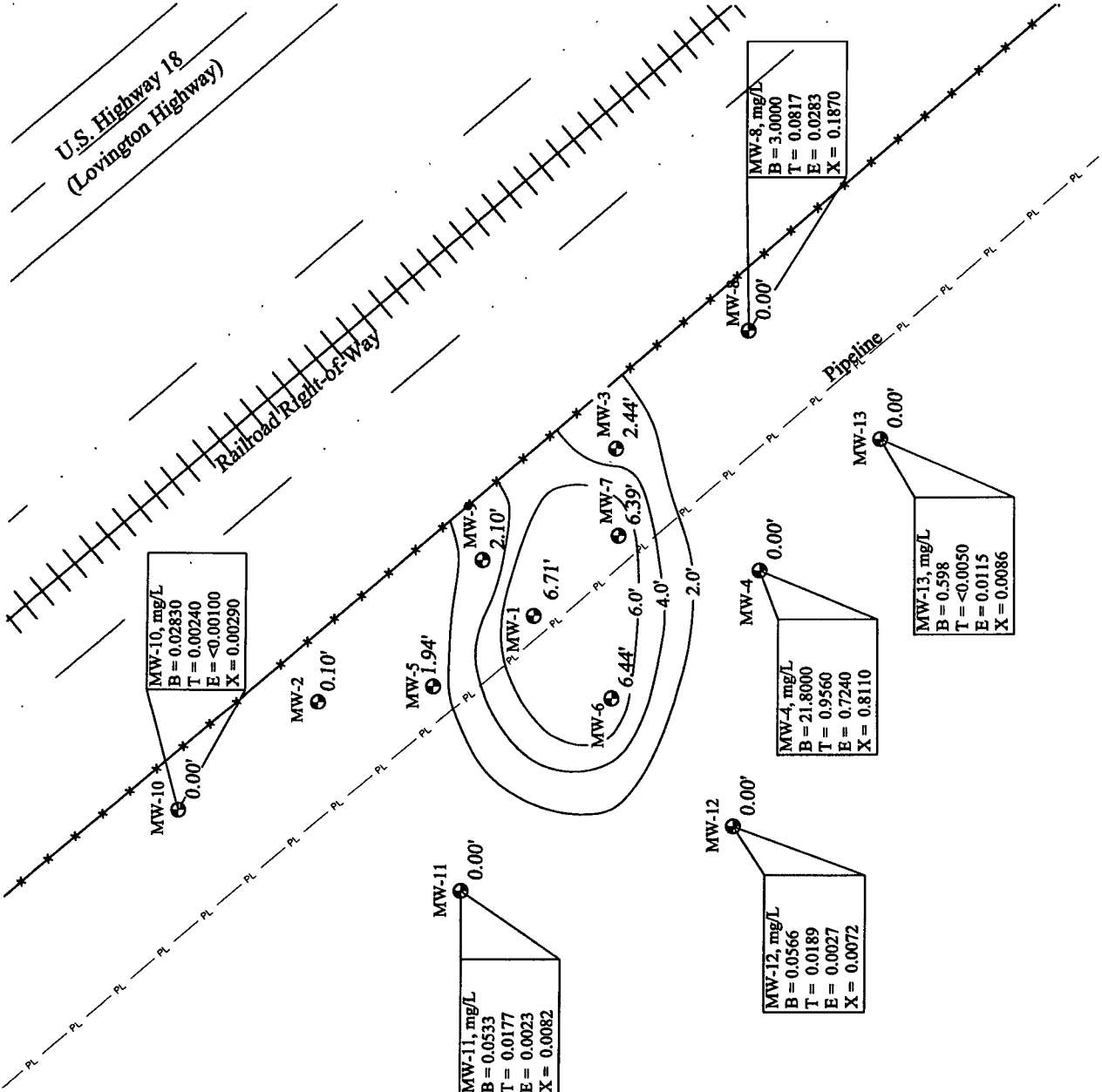
MW-8, mg/L
B = 3.0000
T = 0.0817
E = 0.0283
X = 0.1870

MW-13, mg/L
B = 0.598
T = <0.0050
E = 0.0115
X = 0.0086

MW-4, mg/L
B = 21.8000
T = 0.9560
E = 0.7240
X = 0.8110

MW-11, mg/L
B = 0.0533
T = 0.0177
E = 0.0023
X = 0.0082

MW-12, mg/L
B = 0.0566
T = 0.0189
E = 0.0027
X = 0.0072



Date: 04/28/2008

Scale: 1" = 70'

Drawn By: SJA

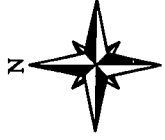


8" Moore to Jal # 2

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

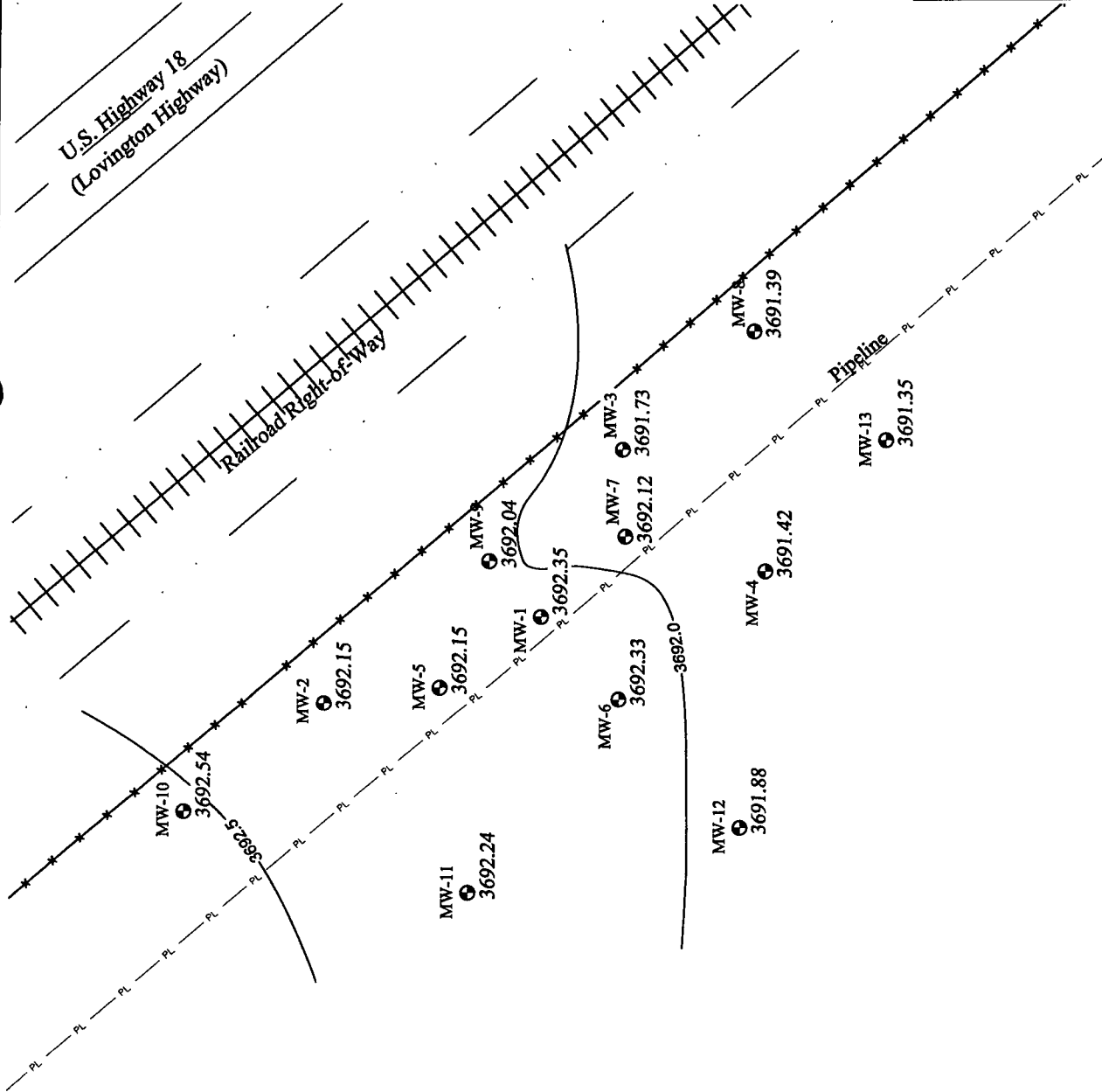
9.2 Miles SE of Lovington, NM, Lea County, New Mexico

Figure 6 - PSH Thickness & Groundwater Concentration Map, (12/17/2007)



0 35 70
Scale in Feet

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



8" Moore to Jal # 2
SRS # 2002-10273, NMOCD REF. # 1R-0381
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
Figure 7 - Groundwater Gradient Map, (03/26/2008)

Date: 04/28/2008

Scale: 1" = 70'

Drawn By: SJA



TABLES

Table 1
SUMMARY OF ENVIRONMENTAL BORING RESULTS (SOIL)

Plains All American Pipeline, L.P. - 8" Moore to Jal #2 - Ref #2002-10273

Sample ID	Sample Date	Soil Boring	PID Readings (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	m,p-Xylenes (mg/Kg)	o-Xylene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)
MW-3 (35-40)	26-Oct-04	MW-3 (cont.)	68.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3 (40-45)			42.8	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0
MW-3 (45-50)			67.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3 (50-55)			62.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3 (55-60)			78.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3 (60-65)			56.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3 (65-70)			53.3	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0
MW-3 (70-75)	25-Oct-04	MW-4	70.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 (10-15)			40.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 (15-20)			66.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 (20-25)			47.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 (25-30)			71.2	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0
MW-4 (30-35)			54.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 (35-40)			79.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 (40-45)			76.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 (45-50)			75.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 (50-55)			90.9	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0
MW-4 (55-60)			56.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 (60-65)			63.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 (65-70)			42.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 (70-75)			23.3	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0
MW-5 (70)	11/16/2007	MW-5	NA	0	3	5	NA	NA	15	9	709.00	2,810.0	3,519.0
MW-5 (75)			NA	12	90	58	144	NA	NA	304	2,800.00	7,490.0	10,290.0
MW-5 (100)			NA	<0.0100	<0.0100	<0.0100	0	NA	NA	0	11.90	<50.0	NA
MW-6 (80)	11/15/2007	MW-6	NA	0	6	6	NA	NA	17	30	531.00	3,050.0	3,581.0
MW-6 (100)			NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0400	<1.00	<50.0	<51.0
MW-7 (75)			NA	<0.0500	1	2	NA	NA	5	7	284.00	1,820.0	2,104.0
MW-7 (100)	11/15/2007	MW-7	NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0400	1.69	<50.0	1.7
MW-8 (80)			NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0400	<1.00	<50.0	<51.0
MW-8 (100)			NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0400	<1.00	<50.0	<51.0

Table 1
SUMMARY OF ENVIRONMENTAL BORING RESULTS (SOIL)

Plains All American Pipeline, L.P. - 8" Moore to Jal #2 - Ref #2002-10273

Sample ID	Sample Date	Soil Boring	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m,p-Xylenes (mg/kg)	o-Xylene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH (as gasoline) (mg/kg)	TPH (as diesel) (mg/kg)	Total TPH (mg/kg)
MW-9 (75)	11/15/2007	MW-9	NA	2	22	18	NA	NA	47	89	1,430.00	5,270.0	6,700.0
MW-9 (100)			NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0400	1.52	<50.0	1.5
MW-10 (75)	11/15/2007	MW-10	NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0400	<1.00	<50.0	<51.0
MW-10 (100)			NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0400	<1.00	<50.0	<51.0
MW-11 (75)	11/14/2007	MW-11	NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0400	<1.00	<50.0	<51.0
MW-11 (100)			NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0400	<1.00	<50.0	<51.0
MW-12 (80)	11/14/2007	MW-12	NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0400	<1.00	<50.0	<51.0
MW-12 (100)			NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0400	<1.00	<50.0	<51.0
MW-13 (80)	11/14/2007	MW-13	NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0400	<1.00	<50.0	<51.0
MW-13 (100)			NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0400	<1.00	<50.0	<51.0
NMOCD Remedial Thresholds				10						50			100

¹ Bolded values are in excess of the NMOCD Remediation Thresholds

² NA : Not Analyzed

³ NS : Not Sampled

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

Table 2
SUMMARY OF EXCAVATION ANALYTICAL RESULTS (SOIL)
Plains All American Pipeline, LP - 8" Moore to Jal #2 - Ref #2002-10273

Sample ID	Sample Date	Sample Location	Field PID Analysis (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m,p-Xylenes (mg/kg)	o-Xylene (mg/kg)	Total BTEX (mg/kg)	TPH (as gasoline) (mg/kg)	TPH (as diesel) (mg/kg)	Total TPH (mg/kg)
SEMR31302NSW	13-Mar-02	North Sidewall	NA	<25	0.937	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
SEMR31302SP	13-May-02	Stockpile	NA	<1	<1	<1	<1	<1	NA	NA	NA	NA
SEMR31702BCC3	17-May-02	Bottom -3'	NA	<25	<25	<25	<25	<25	<125	<10	<10	<10
SE103002StkPile	30-Oct-02	Stockpile	NA	0.002	0.006	0.003	0.007	0.004	0.022	NA	NA	NA
SLE8M2111203NSWC	12-Nov-03	North Sidewall Composite (3'-4')	3.2	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<10.0	195	195
SLE8M2111203SSWC	12-Nov-03	South Sidewall Composite (3'-4')	6.9	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<10.0	<10.0	<10.0
SLE8M2111203ESWC	12-Nov-03	East Sidewall Composite (3'-4')	8.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<10.0	<10.0	<10.0
SLE8M2111203BHC	12-Nov-03	Bottomhole Composite (4')	9.7	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<10.0	<10.0	<10.0
WW-N-01	3-Jun-05	West Sidewall - North End Grab	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<10.0	<10.0	<10.0
WW-S-01	3-Jun-05	West Sidewall - South End Grab (3'-4')	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<10.0	<10.0	<10.0
NE-1 Site 2	16-Jan-06	North Sidewall - East End Grab (3'-4')	0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<10.0	<10.0	<10.0
NW-2 Site 2	16-Jan-06	North Sidewall - West End Grab (3'-4')	1.0	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<10.0	169	169.0
NF-01	26-Jan-06	North Floor	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<10.0	10.3	10.3
SF-01	26-Jan-06	South Floor	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<10.0	259.0	259.0
EF-01	26-Jan-06	East Floor	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<10.0	67.2	67.2
WF-01	26-Jan-06	West Floor	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<10.0	99.8	99.8
CF-01	26-Jan-06	Center Floor	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<10.0	186.0	186.0
NW-2	15-Aug-06	Northwest Sidewall - Resample	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<10.0	<10.0	<10.0
NMOCD Remedial Thresholds (ppm)										50		100

¹ Bolded values are in excess of the NMOCD Remediation Thresholds

² NA: Not Analyzed

³ NS: Not Sampled

⁴ 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 All American Pipeline, L.P. - 8" Moore to Jal #2 - Ref #2002-10273

Sample ID	Sample Location	Sample Date	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	m,p-Xylenes (mg/Kg)	o-Xylene (mg/Kg)	Total BTEX (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	Total TPH (mg/Kg)
NW	Northwest Quadrant of Cell	15-Dec-04	NA	NA	NA	NA	NA	NA	<5	282.0	282.0
		1-Jul-05	NA	NA	NA	NA	NA	NA	<10	420.0	420.0
		29-Sep-05	NA	NA	NA	NA	NA	NA	<10	25.3	25.3
		30-Dec-05	NA	NA	NA	NA	NA	NA	<10	186.0	186.0
SW	Southwest Quadrant of Cell	15-Dec-04	NA	NA	NA	NA	NA	NA	<5	464.0	464.0
		1-Jul-05	NA	NA	NA	NA	NA	NA	13.8	708.0	722.0
		29-Sep-05	NA	NA	NA	NA	NA	NA	<10	100.0	100.0
		30-Dec-05	NA	NA	NA	NA	NA	NA	<10	146.0	146.0
NE	Northeast Quadrant of Cell	15-Dec-04	NA	NA	NA	NA	NA	NA	<5	31.2	31.2
		1-Jul-05	NA	NA	NA	NA	NA	NA	<10	325.0	325.0
		29-Sep-05	NA	NA	NA	NA	NA	NA	<10	<10	<20
		30-Dec-05	NA	NA	NA	NA	NA	NA	<10	103.0	103.0

TABLE 3
SUMMARY OF LAND TREATMENT ANALYTICAL RESULTS (SOIL)

Plains All American Pipeline, LP. - 8" Moore to Jal #2 - Ref #2002-10273

Sample ID	Sample Location	Sample Date	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	m,p-Xylenes (mg/Kg)	o-Xylene (mg/Kg)	Total BTX (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	Total TPH (mg/Kg)
SE	Southeast Quadrant of Cell	15-Dec-04	NA	NA	NA	NA	NA	NA	<5	18.1	18.1
		1-Jul-05	NA	NA	NA	NA	NA	NA	12.2	789.0	801.0
		29-Sep-05	NA	NA	NA	NA	NA	NA	<10	20.2	20.2
		30-Dec-05	NA	NA	NA	NA	NA	NA	<10	167.0	167.0
NMOCD Remedial Thresholds			10					50			100

¹ Bolded values are in excess of the NMOCD Remediation Thresholds

² NA : Not Analyzed

³ NS : Not Sampled

⁴ 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 #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene
MW-1	03/27/08	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-2	03/27/08	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-3	03/27/08	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-4	03/27/08	21.80	0.956	0.724	0.811
MW-5	03/27/08	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-6	03/27/08	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-7	03/27/08	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-8	03/27/08	3.00	0.0817	0.0283	0.187



TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
8" Moore to Jal #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene
MW-9	03/27/08	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-10	03/27/08	0.0283	0.0024	<0.00100	0.0029
MW-11	03/27/08	0.0533	0.0177	0.0023	0.0082
MW-12	03/27/08	0.0566	0.0189	0.0027	0.0072
MW-13	03/27/08	0.598	<0.00500	0.0115	0.0086
NMWQCC Remedial Limits		0.010	0.750	0.750	0.620

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

TABLE 4a
SUMMARY OF GROUNDWATER POLYCYCLIC AROMATIC
HYDROCARBON (PAH) ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
8" Moore to Jal #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

All concentrations are in mg/L

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

¹ 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 #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-1	07/28/04	3767.30	59.01	59.08	3708.28	0.07	0.00	0.00
	09/23/04	3767.30	72.37	79.68	3694.05	7.31	0.00	0.00
	10/08/04	3767.30	72.19	75.79	3694.68	3.60	4.50	4.50
	10/14/04	3767.30	71.76	78.56	3694.72	6.80	9.00	13.50
	10/20/04	3767.30	71.80	78.95	3694.64	7.15	10.00	23.50
	10/29/04	3767.30	71.88	79.20	3694.54	7.32	7.00	30.50
	11/04/04	3767.30	72.00	79.26	3694.43	7.26	18.00	48.50
	11/10/04	3767.30	72.08	79.32	3694.35	7.24	11.00	59.50
	11/17/04	3767.30	72.12	79.33	3694.31	7.21	10.00	69.50
	11/24/04	3767.30	72.22	79.41	3694.22	7.19	9.00	78.50
	12/02/04	3767.30	72.18	79.31	3694.26	7.13	8.00	86.50
	12/08/04	3767.30	72.06	79.14	3694.39	7.08	8.00	94.50
	12/15/04	3767.30	72.09	79.15	3694.36	7.06	9.00	103.50
	12/27/04	3767.30	72.26	79.34	3694.19	7.08	9.00	112.50
	12/29/04	3767.30	72.35	78.84	3694.17	6.49	9.00	121.50
	01/06/05	3767.30	72.27	79.32	3694.18	7.05	9.00	130.50
	01/13/05	3767.30	72.31	79.34	3694.15	7.03	10.00	140.50
	01/19/05	3767.30	72.31	79.37	3694.14	7.06	9.00	149.50
	01/26/05	3767.30	72.34	79.43	3694.11	7.09	10.00	159.50
	02/02/05	3767.30	72.32	79.36	3694.14	7.04	9.00	168.50
	02/09/05	3767.30	72.38	79.39	3694.08	7.01	10.00	178.50
	02/16/05	3767.30	72.35	79.34	3694.11	6.99	9.00	187.50
	02/24/05	3767.30	72.37	79.38	3694.09	7.01	9.00	196.50
	03/03/05	3767.30	72.42	79.40	3694.04	6.98	9.00	205.50
	03/11/05	3767.30	72.29	79.25	3694.17	6.96	10.00	215.50
	03/18/05	3767.30	72.41	79.32	3694.06	6.91	9.00	224.50
	03/31/05	3767.30	72.42	79.34	3694.05	6.92	9.00	233.50
	04/07/05	3767.30	72.47	79.38	3694.00	6.91	8.00	241.50
	05/18/05	3767.30	72.49	79.40	3693.98	6.91	14.00	255.50

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-1	05/23/05	3767.30	72.53	79.40	3693.95	6.87	8.00	263.50
	05/26/05	3767.30	72.56	79.34	3693.93	6.78	8.00	271.50
	06/01/05	3767.30	72.55	79.40	3693.93	6.85	8.00	279.50
	06/03/05	3767.30	72.59	79.20	3693.92	6.61	7.00	286.50
	06/07/05	3767.30	72.56	79.39	3693.92	6.83	7.00	293.50
	06/10/05	3767.30	72.55	79.35	3693.93	6.80	7.00	300.50
	06/13/05	3767.30	72.58	79.53	3693.89	6.95	9.00	309.50
	06/16/05	3767.30	72.58	79.31	3693.91	6.73	6.00	315.50
	06/20/05	3767.30	72.60	79.40	3693.88	6.80	8.00	323.50
	06/22/05	3767.30	72.66	79.27	3693.85	6.61	8.00	331.50
	06/29/05	3767.30	72.61	79.42	3693.87	6.81	8.00	339.50
	07/01/05	3767.30	72.62	79.28	3693.88	6.66	8.00	347.50
	07/06/05	3767.30	72.64	79.44	3693.84	6.80	9.00	356.50
	07/08/05	3767.30	71.69	79.33	3694.69	7.64	8.00	364.50
	07/12/05	3767.30	72.68	79.48	3693.80	6.80	10.00	374.50
	07/14/05	3767.30	72.69	79.35	3693.81	6.66	8.00	382.50
	07/19/05	3767.30	72.68	79.49	3693.80	6.81	10.00	392.50
	07/21/05	3767.30	72.73	79.37	3693.77	6.64	10.00	402.50
	07/26/05	3767.30	72.73	79.74	3693.73	7.01	10.00	412.50
	07/28/05	3767.30	72.75	79.42	3693.75	6.67	10.00	422.50
	08/02/05	3767.30	72.75	79.55	3693.73	6.80	10.00	432.50
	08/04/05	3767.30	72.79	79.45	3693.71	6.66	10.00	442.50
	08/09/05	3767.30	72.77	79.56	3693.72	6.79	10.00	452.50
	08/11/05	3767.30	72.81	79.46	3693.69	6.65	10.00	462.50
	08/16/05	3767.30	72.79	79.60	3693.69	6.81	10.00	472.50
	08/18/05	3767.30	72.81	79.47	3693.69	6.66	10.00	482.50
	08/24/05	3767.30	72.82	79.64	3693.66	6.82	10.00	492.50
	08/26/05	3767.30	72.85	79.52	3693.65	6.67	10.00	502.50
	08/30/05	3767.30	72.83	79.63	3693.65	6.80	10.00	512.50

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-1	09/01/05	3767.30	72.83	79.43	3693.68	6.60	10.00	522.50
	09/06/05	3767.30	72.78	79.58	3693.70	6.80	9.00	531.50
	09/08/05	3767.30	72.82	79.45	3693.68	6.63	10.00	541.50
	09/13/05	3767.30	72.81	79.62	3693.67	6.81	10.00	551.50
	09/16/05	3767.30	72.84	79.58	3693.65	6.74	9.00	560.50
	09/20/05	3767.30	72.85	79.62	3693.64	6.77	10.00	570.50
	09/23/05	3767.30	72.88	79.62	3693.61	6.74	10.00	580.50
	09/27/05	3767.30	72.88	79.65	3693.61	6.77	10.00	590.50
	09/29/05	3767.30	72.91	79.57	3693.59	6.66	10.00	600.50
	10/04/05	3767.30	72.91	79.70	3693.58	6.79	9.00	609.50
	10/06/05	3767.30	72.94	79.01	3693.63	6.07	9.00	618.50
	10/11/05	3767.30	72.93	79.71	3693.56	6.78	10.00	628.50
	10/13/05	3767.30	72.95	79.65	3693.55	6.70	10.00	638.50
	10/18/05	3767.30	72.94	79.74	3693.54	6.80	9.00	647.50
	10/21/05	3767.30	72.99	79.76	3693.50	6.77	11.00	658.50
	10/26/05	3767.30	72.96	79.77	3693.52	6.81	10.00	668.50
	10/28/05	3767.30	72.99	79.69	3693.51	6.70	9.00	677.50
	11/01/05	3767.30	73.02	79.80	3693.47	6.78	9.00	686.50
	11/04/05	3767.30	73.03	79.81	3693.46	6.78	7.00	693.50
	11/09/05	3767.30	73.06	79.86	3693.42	6.80	10.00	703.50
	11/11/05	3767.30	73.08	79.87	3693.41	6.79	9.00	712.50
	11/16/05	3767.30	73.09	79.87	3693.40	6.78	9.00	721.50
	11/18/05	3767.30	73.01	79.76	3693.48	6.75	9.00	730.50
	11/22/05	3767.30	73.09	79.88	3693.40	6.79	9.00	739.50
	11/30/05	3767.30	73.11	79.11	3693.47	6.00	10.00	749.50
	12/02/05	3767.30	73.14	79.82	3693.36	6.68	10.00	759.50
	12/06/05	3767.30	73.10	79.88	3693.39	6.78	9.00	768.50
	12/14/05	3767.30	73.14	79.91	3693.35	6.77	10.00	778.50
	12/16/05	3767.30	73.19	79.79	3693.32	6.60	9.00	787.50

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOC REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing 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	12/21/05	3767.30	73.15	79.94	3693.34	6.79	11.00	798.50
	12/23/05	3767.30	73.23	79.77	3693.29	6.54	10.00	808.50
	12/27/05	3767.30	73.30	79.94	3693.20	6.64	10.00	818.50
	12/30/05	3767.30	73.23	79.93	3693.27	6.70	10.00	828.50
	01/03/06	3767.30	73.23	79.97	3693.26	6.74	10.00	838.50
	01/05/06	3767.30	73.22	79.81	3693.29	6.59	10.00	848.50
	01/11/06	3767.30	73.23	79.97	3693.26	6.74	10.00	858.50
	01/13/06	3767.30	73.32	79.87	3693.19	6.55	11.00	869.50
	01/18/06	3767.30	73.23	79.96	3693.26	6.73	12.00	881.50
	01/20/06	3767.30	73.31	79.91	3693.20	6.60	10.00	891.50
	01/24/06	3767.30	73.25	79.99	3693.24	6.74	9.50	901.00
	01/26/06	3767.30	73.21	79.97	3693.28	6.76	9.00	910.00
	02/02/06	3767.30	73.23	79.97	3693.26	6.74	0.00	910.00
	02/08/06	3767.30	73.25	79.95	3693.25	6.70	8.00	918.00
	02/10/06	3767.30	73.23	79.94	3693.26	6.71	8.00	926.00
	02/14/06	3767.30	73.27	80.00	3693.22	6.73	8.00	934.00
	02/16/06	3767.30	73.30	80.03	3693.19	6.73	8.00	942.00
	02/21/06	3767.30	73.30	80.00	3693.20	6.70	8.00	950.00
	02/24/06	3767.30	73.32	80.00	3693.18	6.68	8.00	958.00
	02/28/06	3767.30	73.25	79.95	3693.25	6.70	0.00	958.00
	03/03/06	3767.30	73.27	79.99	3693.22	6.72	7.00	965.00
	03/06/06	3767.30	73.25	78.78	3693.39	5.53	8.00	973.00
	03/08/06	3767.30	73.32	79.81	3693.20	6.49	7.00	980.00
	03/15/06	3767.30	73.34	80.03	3693.16	6.69	8.00	988.00
	03/17/06	3767.30	73.25	79.89	3693.25	6.64	9.00	997.00
	03/21/06	3767.30	73.36	79.95	3693.15	6.59	6.50	1003.50
	03/28/06	3767.30	73.35	80.00	3693.15	6.65	8.50	1012.00
	03/30/06	3767.30	73.41	79.93	3693.11	6.52	7.00	1019.00
	04/04/06	3767.30	73.39	79.97	3693.12	6.58	7.50	1026.50

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-1	04/07/06	3767.30	73.38	80.00	3693.13	6.62	7.00	1033.50
	04/12/06	3767.30	73.38	80.01	3693.12	6.63	8.50	1042.00
	04/14/06	3767.30	73.40	80.00	3693.11	6.60	7.50	1049.50
	04/18/06	3767.30	73.35	79.95	3693.16	6.60	7.50	1057.00
	04/21/06	3767.30	73.44	80.00	3693.07	6.56	8.00	1065.00
	04/26/06	3767.30	73.34	79.95	3693.17	6.61	8.00	1073.00
	04/28/06	3767.30	73.43	79.90	3693.09	6.47	7.00	1080.00
	05/04/06	3767.30	73.40	80.00	3693.11	6.60	7.00	1087.00
	05/05/06	3767.30	73.45	80.00	3693.06	6.55	6.50	1093.50
	05/10/06	3767.30	73.50	80.07	3693.01	6.57	7.50	1101.00
	05/12/06	3767.30	73.47	80.00	3693.05	6.53	6.00	1107.00
	05/16/06	3767.30	73.48	80.05	3693.03	6.57	6.00	1113.00
	05/18/06	3767.30	73.50	80.01	3693.02	6.51	6.50	1119.50
	05/23/06	3767.30	73.47	80.06	3693.04	6.59	5.50	1125.00
	05/26/06	3767.30	73.47	80.05	3693.04	6.58	6.50	1131.50
	05/30/06	3767.30	73.50	80.07	3693.01	6.57	5.25	1136.75
	06/01/06	3767.30	73.52	80.04	3693.00	6.52	5.50	1142.25
	06/06/06	3767.30	73.55	80.13	3692.96	6.58	5.00	1147.25
	06/09/06	3767.30	73.53	80.10	3692.98	6.57	6.50	1153.75
	06/13/06	3767.30	73.53	80.09	3692.98	6.56	6.00	1159.75
	06/16/06	3767.30	73.56	80.10	3692.96	6.54	5.50	1165.25
	06/20/06	3767.30	73.56	80.10	3692.96	6.54	0	1165.25
	06/23/06	3767.30	73.53	80.10	3692.98	6.57	5.50	1170.75
	06/27/06	3767.30	73.6	80.15	3692.91	6.55	9.00	1179.75
	06/30/06	3767.30	73.59	80.11	3692.93	6.52	0.00	1179.75
	07/05/06	3767.30	73.6	80.15	3692.91	6.55	8.50	1188.25
	07/07/06	3767.30	73.64	80.02	3692.89	6.38	9.00	1197.25
	07/11/06	3767.30	73.63	80.17	3692.89	6.54	7.50	1204.75
	07/13/06	3767.30	73.69	80.07	3692.84	6.38	7.00	1211.75

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-1	07/18/06	3767.30	73.66	80.19	3692.86	6.53	8.00	1219.75
	07/21/06	3767.30	73.65	80.14	3692.87	6.49	0.00	1219.75
	07/25/06	3767.30	73.68	80.23	3692.83	6.55	7.50	1227.25
	07/27/06	3767.30	73.7	80.10	3692.83	6.40	8.00	1235.25
	08/01/06	3767.30	73.71	80.23	3692.81	6.52	7.50	1242.75
	08/03/06	3767.30	73.75	80.14	3692.78	6.39	5.00	1247.75
	08/09/06	3767.30	73.73	80.26	3692.79	6.53	7.50	1255.25
	08/11/06	3767.30	73.77	80.17	3692.76	6.40	5.00	1260.25
	08/15/06	3767.30	73.77	80.29	3692.75	6.52	7.00	1267.25
	08/18/06	3767.30	73.48	80.28	3693.00	6.80	4.50	1271.75
	08/25/06	3767.30	73.81	80.32	3692.71	6.51	0.00	1271.75
	08/30/06	3767.30	NM	NM	NM	0.00	0.00	1271.75
	09/12/06	3767.30	NM	NM	NM	0.00	0.00	1271.75
	09/15/06	3767.30	NM	NM	NM	0.00	0.00	1271.75
	09/20/06	3767.30	NM	NM	NM	0.00	0.00	1271.75
	09/26/06	3767.30	NM	NM	NM	0.00	0.00	1271.75
	09/29/06	3767.30	NM	NM	NM	0.00	0.00	1271.75
	10/04/06	3767.30	NM	NM	NM	0.00	0.00	1271.75
	10/06/06	3767.30	79.04	85.64	3687.47	6.60	6.00	1277.75
	10/12/06	3767.30	79.07	85.64	3687.44	6.57	6.00	1283.75
	10/17/06	3767.30	79.1	85.65	3687.41	6.55	6.00	1289.75
	10/20/06	3767.30	79.6	85.60	3686.98	6.00	0.00	1289.75
	10/24/06	3767.30	79.05	85.60	3687.46	6.55	0.00	1289.75
	10/26/06	3767.30	79.6	85.64	3686.98	6.04	0.00	1289.75
	11/22/06	3767.30	79.18	85.78	3687.33	6.60	5.50	1295.25
	11/28/06	3767.30	79.21	85.83	3687.30	6.62	5.75	1301.00
	12/06/06	3767.30	79.3	85.87	3687.21	6.57	6.00	1307.00
	12/08/06	3767.30	79.6	85.6	3686.98	6.00	5.00	1312.00
	12/12/06	3767.30	80.33	88.8	3685.95	8.47	5.55	1317.55

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-1	12/15/06	3767.30	79.28	85.79	3687.24	6.51	5.50	1323.05
	12/20/06	3767.30	78.78	78.88	3688.51	0.10	0.00	1323.05
	12/22/06	3767.30	79.34	85.87	3687.18	6.53	0.00	1323.05
	12/27/06	3767.30	79.35	85.92	3687.16	6.57	0.00	1323.05
	01/03/07	3767.30	79.38	85.97	3687.13	6.59	0.00	1323.05
	01/05/07	3767.30	79.38	85.91	3687.14	6.53	0.00	1323.05
	01/12/07	3767.30	79.46	86.04	3687.05	6.58	6.00	1329.05
	01/15/07	3767.30	79.46	85.92	3687.06	6.46	0.00	1329.05
	01/18/07	3767.30	79.43	85.96	3687.09	6.53	5.00	1334.05
	01/31/07	3767.30	79.4	86	3687.11	6.60	0.00	1334.05
	02/07/07	3767.30	79.3	85.85	3687.21	6.55	5.00	1339.05
	02/09/07	3767.30	79.5	85.85	3687.04	6.35	5.00	1344.05
	02/13/07	3767.30	79.48	85.96	3687.04	6.48	6.00	1350.05
	02/16/07	3767.30	79.44	85.91	3687.08	6.47	8.50	1358.55
	02/19/07	3767.30	79.41	85.86	3687.12	6.45	8.50	1367.05
	02/21/07	3767.30	79.5	85.67	3687.06	6.17	6.00	1373.05
	02/26/07	3767.30	79.5	85.97	3687.02	6.47	5.00	1378.05
	03/01/07	3767.30	79.47	85.87	3687.06	6.40	7.00	1385.05
	03/06/07	3767.30	79.41	85.89	3687.11	6.48	0.00	1385.05
	03/09/07	3767.30	79.47	85.94	3687.05	6.47	0.00	1385.05
	03/13/07	3767.30	79.46	85.97	3687.06	6.51	7.50	1392.55
	03/23/07	3767.30	79.49	85.96	3687.03	6.47	0.00	1392.55
	03/27/07	3773.35	79.48	85.98	3693.22	6.50	0.00	1392.55
	03/29/07	3773.35	79.38	85.87	3693.32	6.49	0.00	1392.55
	04/06/07	3773.35	79.52	86.03	3693.18	6.51	0.00	1392.55
	04/11/07	3773.35	79.5	86.01	3693.20	6.51	0.00	1392.55
	04/17/07	3773.35	79.51	86.03	3693.19	6.52	7.00	1399.55
	04/19/07	3773.35	79.55	85.79	3693.18	6.24	6.00	1405.55
	04/24/07	3773.35	79.49	85.95	3693.21	6.46	5.00	1410.55

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-1	05/01/07	3773.35	79.51	86.02	3693.19	6.51	0.00	1410.55
	05/21/07	3773.35	79.51	86.02	3693.19	6.51	0.00	1410.55
	05/24/07	3773.35	79.61	86.11	3693.09	6.50	5.00	1415.55
	06/19/07	3773.35	79.65	86.18	3693.05	6.53	0.00	1415.55
	06/28/07	3773.35	79.68	86.22	3693.02	6.54	0.00	1415.55
	08/07/07	3773.35	79.61	86.16	3693.09	6.55	6.00	1421.55
	08/17/07	3773.35	79.67	86.21	3693.03	6.54	6.00	1427.55
	08/23/07	3773.35	79.67	86.18	3693.03	6.51	8.75	1436.30
	08/31/07	3773.35	79.71	86.22	3692.99	6.51	6.00	1442.30
	09/20/07	3773.35	79.76	86.31	3692.94	6.55	0.00	1442.30
	09/21/07	3773.35	79.79	86.36	3692.90	6.57	6.50	1448.80
	10/11/07	3773.35	79.82	86.39	3692.87	6.57	6.00	1454.80
	10/18/07	3773.35	79.86	86.38	3692.84	6.52	6.00	1460.80
	11/27/07	3773.35	79.99	86.64	3692.70	6.65	0.00	1460.80
	12/17/07	3773.35	80.04	86.70	3692.64	6.66	0.00	1460.80
	12/28/07	3773.35	80.11	86.79	3692.57	6.68	0.00	1460.80
	12/31/07	3773.35	80.14	86.83	3692.54	6.69	6.00	1466.80
	03/05/08	3773.35	80.26	86.97	3692.42	6.71	6.00	1466.80
	03/26/08	3773.35	80.33	87.04	3692.35	6.71	0.00	1466.80

TABLE 5
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8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-2	10/29/04	3771.04	N.D.	76.67	3694.37	0.00	N/A	N/A
	11/04/04	3771.04	N.D.	76.79	3694.25	0.00	N/A	N/A
	11/10/04	3771.04	N.D.	76.84	3694.20	0.00	N/A	N/A
	11/17/04	3771.04	N.D.	76.89	3694.15	0.00	N/A	N/A
	11/24/04	3771.04	N.D.	76.97	3694.07	0.00	N/A	N/A
	12/02/04	3771.04	N.D.	76.91	3694.13	0.00	N/A	N/A
	12/08/04	3771.04	N.D.	76.79	3694.25	0.00	N/A	N/A
	12/15/04	3771.04	N.D.	76.81	3694.23	0.00	N/A	N/A
	12/27/04	3771.04	N.D.	77.00	3694.04	0.00	N/A	N/A
	12/29/04	3771.04	N.D.	77.01	3694.03	0.00	N/A	N/A
	01/06/05	3771.04	N.D.	77.02	3694.02	0.00	N/A	N/A
	01/13/05	3771.04	N.D.	77.09	3693.95	0.00	N/A	N/A
	01/19/05	3771.04	N.D.	77.06	3693.98	0.00	N/A	N/A
	01/26/05	3771.04	N.D.	77.09	3693.95	0.00	N/A	N/A
	02/02/05	3771.04	N.D.	78.08	3692.96	0.00	N/A	N/A
	02/09/05	3771.04	N.D.	77.13	3693.91	0.00	N/A	N/A
	02/16/05	3771.04	N.D.	77.09	3693.95	0.00	N/A	N/A
	02/24/05	3771.04	N.D.	77.11	3693.93	0.00	N/A	N/A
	03/03/05	3771.04	N.D.	77.15	3693.89	0.00	N/A	N/A
	03/11/05	3771.04	N.D.	77.10	3693.94	0.00	N/A	N/A
	03/18/05	3771.04	N.D.	77.11	3693.93	0.00	N/A	N/A
	03/31/05	3771.04	N.D.	77.14	3693.90	0.00	N/A	N/A
	04/07/05	3771.04	N.D.	77.17	3693.87	0.00	N/A	N/A
	05/18/05	3771.04	N.D.	79.40	3691.64	0.00	N/A	N/A
	05/23/05	3771.04	N.D.	79.40	3691.64	0.00	N/A	N/A
	06/01/05	3771.04	N.D.	77.22	3693.82	0.00	N/A	N/A
	06/03/05	3771.04	N.D.	77.25	3693.79	0.00	N/A	N/A
	06/07/05	3771.04	N.D.	77.25	3693.79	0.00	N/A	N/A
	06/10/05	3771.04	N.D.	77.24	3693.80	0.00	N/A	N/A

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-2	06/13/05	3771.04	N.D.	77.27	3693.77	0.00	N/A	N/A
	06/16/05	3771.04	N.D.	77.25	3693.79	0.00	N/A	N/A
	06/20/05	3771.04	N.D.	77.29	3693.75	0.00	N/A	N/A
	06/22/05	3771.04	N.D.	77.29	3693.75	0.00	N/A	N/A
	06/29/05	3771.04	N.D.	77.29	3693.75	0.00	N/A	N/A
	07/01/05	3771.04	N.D.	77.30	3693.74	0.00	N/A	N/A
	07/06/05	3771.04	N.D.	77.31	3693.73	0.00	N/A	N/A
	07/08/05	3771.04	N.D.	77.32	3693.72	0.00	N/A	N/A
	07/12/05	3771.04	N.D.	77.34	3693.70	0.00	N/A	N/A
	07/14/05	3771.04	N.D.	77.33	3693.71	0.00	N/A	N/A
	07/19/05	3771.04	N.D.	77.36	3693.68	0.00	N/A	N/A
	07/21/05	3771.04	N.D.	77.38	3693.66	0.00	N/A	N/A
	07/26/05	3771.04	N.D.	77.40	3693.64	0.00	N/A	N/A
	07/28/05	3771.04	N.D.	77.40	3693.64	0.00	N/A	N/A
	08/02/05	3771.04	N.D.	77.42	3693.62	0.00	N/A	N/A
	08/04/05	3771.04	N.D.	77.43	3693.61	0.00	N/A	N/A
	08/09/05	3771.04	N.D.	77.44	3693.60	0.00	N/A	N/A
	08/11/05	3771.04	N.D.	77.45	3693.59	0.00	N/A	N/A
	08/16/05	3771.04	N.D.	77.47	3693.57	0.00	N/A	N/A
	08/18/05	3771.04	N.D.	77.47	3693.57	0.00	N/A	N/A
	08/24/05	3771.04	N.D.	77.50	3693.54	0.00	N/A	N/A
	08/26/05	3771.04	N.D.	77.50	3693.54	0.00	N/A	N/A
	08/30/05	3771.04	N.D.	77.47	3693.57	0.00	N/A	N/A
	09/01/05	3771.04	N.D.	77.44	3693.60	0.00	N/A	N/A
	09/06/05	3771.04	N.D.	77.44	3693.60	0.00	N/A	N/A
	09/08/05	3771.04	N.D.	77.44	3693.60	0.00	N/A	N/A
	09/13/05	3771.04	N.D.	77.47	3693.57	0.00	N/A	N/A
	09/16/05	3771.04	N.D.	77.50	3693.54	0.00	N/A	N/A
	09/20/05	3771.04	N.D.	77.52	3693.52	0.00	N/A	N/A

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-2	09/23/05	3771.04	N.D.	77.52	3693.52	0.00	N/A	N/A
	09/27/05	3771.04	N.D.	77.54	3693.50	0.00	N/A	N/A
	09/29/05	3771.04	N.D.	77.56	3693.48	0.00	N/A	N/A
	10/04/05	3771.04	N.D.	77.57	3693.47	0.00	N/A	N/A
	10/06/05	3771.04	N.D.	77.60	3693.44	0.00	N/A	N/A
	10/11/05	3771.04	N.D.	77.60	3693.44	0.00	N/A	N/A
	10/13/05	3771.04	N.D.	77.61	3693.43	0.00	N/A	N/A
	10/18/05	3771.04	N.D.	77.61	3693.43	0.00	N/A	N/A
	10/21/05	3771.04	N.D.	77.65	3693.39	0.00	N/A	N/A
	10/26/05	3771.04	N.D.	77.63	3693.41	0.00	N/A	N/A
	10/28/05	3771.04	N.D.	77.64	3693.40	0.00	N/A	N/A
	11/01/05	3771.04	N.D.	77.69	3693.35	0.00	N/A	N/A
	11/04/05	3771.04	N.D.	77.69	3693.35	0.00	N/A	N/A
	11/09/05	3771.04	N.D.	77.73	3693.31	0.00	N/A	N/A
	11/11/05	3771.04	N.D.	77.73	3693.31	0.00	N/A	N/A
	11/16/05	3771.04	N.D.	77.28	3693.76	0.00	N/A	N/A
	11/18/05	3771.04	N.D.	77.78	3693.26	0.00	N/A	N/A
	11/22/05	3771.04	N.D.	77.77	3693.27	0.00	N/A	N/A
	11/30/05	3771.04	N.D.	77.80	3693.24	0.00	N/A	N/A
	12/02/05	3771.04	N.D.	77.79	3693.25	0.00	N/A	N/A
	12/06/05	3771.04	N.D.	77.88	3693.16	0.00	N/A	N/A
	12/14/05	3771.04	N.D.	77.83	3693.21	0.00	N/A	N/A
	12/16/05	3771.04	N.D.	77.81	3693.23	0.00	N/A	N/A
	12/21/05	3771.04	N.D.	77.81	3693.23	0.00	N/A	N/A
	12/23/05	3771.04	N.D.	77.85	3693.19	0.00	N/A	N/A
	12/27/05	3771.04	N.D.	77.85	3693.19	0.00	N/A	N/A
	12/30/05	3771.04	N.D.	77.71	3693.33	0.00	N/A	N/A
	01/03/06	3771.04	N.D.	77.90	3693.14	0.00	N/A	N/A
	01/05/06	3771.04	N.D.	77.87	3693.17	0.00	N/A	N/A

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-2	01/11/06	3771.04	N.D.	77.91	3693.13	0.00	N/A	N/A
	01/13/06	3771.04	N.D.	77.86	3693.18	0.00	N/A	N/A
	01/18/06	3771.04	N.D.	77.90	3693.14	0.00	N/A	N/A
	01/20/06	3771.04	N.D.	77.91	3693.13	0.00	N/A	N/A
	01/24/06	3771.04	N.D.	78.92	3692.12	0.00	N/A	N/A
	01/26/06	3771.04	N.D.	78.90	3692.14	0.00	N/A	N/A
	02/02/06	3771.04	N.D.	77.87	3693.17	0.00	N/A	N/A
	02/08/06	3771.04	N.D.	77.91	3693.13	0.00	N/A	N/A
	02/10/06	3771.04	N.D.	77.90	3693.14	0.00	N/A	N/A
	02/14/06	3771.04	N.D.	77.93	3693.11	0.00	N/A	N/A
	02/16/06	3771.04	N.D.	77.94	3693.10	0.00	N/A	N/A
	02/21/06	3771.04	N.D.	77.95	3693.09	0.00	N/A	N/A
	02/24/06	3771.04	N.D.	77.95	3693.09	0.00	N/A	N/A
	02/28/06	3771.04	N.D.	77.93	3693.11	0.00	N/A	N/A
	03/03/06	3771.04	N.D.	77.92	3693.12	0.00	N/A	N/A
	03/06/06	3771.04	N.D.	77.90	3693.14	0.00	N/A	N/A
	03/08/06	3771.04	N.D.	77.95	3693.09	0.00	N/A	N/A
	03/15/06	3771.04	N.D.	77.98	3693.06	0.00	N/A	N/A
	03/17/06	3771.04	N.D.	78.08	3692.96	0.00	N/A	N/A
	03/21/06	3771.04	N.D.	77.95	3693.09	0.00	N/A	N/A
	03/23/06	3771.04	N.D.	77.86	3693.18	0.00	N/A	N/A
	03/28/06	3771.04	N.D.	77.89	3693.15	0.00	N/A	N/A
	03/30/06	3771.04	N.D.	77.86	3693.18	0.00	N/A	N/A
	04/04/06	3771.04	N.D.	77.94	3693.10	0.00	N/A	N/A
	04/07/06	3771.04	N.D.	78.00	3693.04	0.00	N/A	N/A
	04/12/06	3771.04	N.D.	78.00	3693.04	0.00	N/A	N/A
	04/14/06	3771.04	N.D.	78.01	3693.03	0.00	N/A	N/A
	04/18/06	3771.04	N.D.	77.99	3693.05	0.00	N/A	N/A
	04/21/06	3771.04	N.D.	78.04	3693.00	0.00	N/A	N/A

TABLE 5
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8" MOORE TO JAL #2
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LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-2	04/26/06	3771.04	N.D.	78.00	3693.04	0.00	N/A	N/A
	04/28/06	3771.04	N.D.	78.04	3693.00	0.00	N/A	N/A
	05/04/06	3771.04	N.D.	78.04	3693.00	0.00	N/A	N/A
	05/05/06	3771.04	N.D.	78.05	3692.99	0.00	N/A	N/A
	05/10/06	3771.04	N.D.	78.10	3692.94	0.00	N/A	N/A
	05/12/06	3771.04	N.D.	78.08	3692.96	0.00	N/A	N/A
	05/16/06	3771.04	N.D.	78.08	3692.96	0.00	N/A	N/A
	05/18/06	3771.04	N.D.	78.09	3692.95	0.00	N/A	N/A
	05/23/06	3771.04	N.D.	78.10	3692.94	0.00	N/A	N/A
	05/26/06	3771.04	N.D.	78.10	3692.94	0.00	N/A	N/A
	05/30/06	3771.04	N.D.	78.13	3692.91	0.00	N/A	N/A
	06/01/06	3771.04	N.D.	78.13	3692.91	0.00	N/A	N/A
	06/06/06	3771.04	N.D.	78.15	3692.89	0.00	N/A	N/A
	06/09/06	3771.04	N.D.	78.13	3692.91	0.00	N/A	N/A
	06/13/06	3771.04	N.D.	78.15	3692.89	0.00	N/A	N/A
	06/16/06	3771.04	N.D.	78.17	3692.87	0.00	N/A	N/A
	06/20/06	3771.04	N.D.	78.17	3692.87	0.00	N/A	N/A
	06/23/06	3771.04	N.D.	78.15	3692.89	0.00	N/A	N/A
	06/27/06	3771.04	N.D.	78.20	3692.84	0.00	N/A	N/A
	06/30/06	3771.04	N.D.	78.19	3692.85	0.00	N/A	N/A
	07/05/06	3771.04	N.D.	78.21	3692.83	0.00	N/A	N/A
	07/07/06	3771.04	N.D.	78.22	3692.82	0.00	N/A	N/A
	07/11/06	3771.04	N.D.	78.24	3692.80	0.00	N/A	N/A
	07/13/06	3771.04	N.D.	78.25	3692.79	0.00	N/A	N/A
	07/18/06	3771.04	N.D.	78.26	3692.78	0.00	N/A	N/A
	07/21/06	3771.04	N.D.	78.25	3692.79	0.00	N/A	N/A
	07/25/06	3771.04	N.D.	78.29	3692.75	0.00	N/A	N/A
	07/27/06	3771.04	N.D.	78.30	3692.74	0.00	N/A	N/A
	08/01/06	3771.04	N.D.	78.34	3692.70	0.00	N/A	N/A

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-2	08/03/06	3771.04	N.D.	78.36	3692.68	0.00	N/A	N/A
	08/09/06	3771.04	N.D.	78.35	3692.69	0.00	N/A	N/A
	08/11/06	3771.04	N.D.	78.36	3692.68	0.00	N/A	N/A
	08/15/06	3771.04	N.D.	78.38	3692.66	0.00	N/A	N/A
	08/18/06	3771.04	N.D.	78.40	3692.64	0.00	N/A	N/A
	08/25/06	3771.04	N.D.	78.43	3692.61	0.00	N/A	N/A
	08/30/06	3771.04	N.D.	78.45	3692.59	0.00	N/A	N/A
	09/12/06	3771.04	78.47	78.52	3692.56	0.05	N/A	N/A
	09/15/06	3771.04	78.48	78.55	3692.55	0.07	N/A	N/A
	09/20/06	3771.04	78.46	78.58	3692.57	0.12	N/A	N/A
	09/26/06	3771.04	78.49	78.65	3692.53	0.16	N/A	N/A
	09/29/06	3771.04	78.52	78.68	3692.50	0.16	N/A	N/A
	10/04/06	3771.04	N.D.	78.53	3692.51	0.00	N/A	N/A
	10/06/06	3771.04	78.54	79.74	3692.36	1.20	1.00	1.00
	10/12/06	3771.04	78.56	78.77	3692.45	0.21	0.00	1.00
	10/17/06	3771.04	78.59	78.79	3692.43	0.20	0.00	1.00
	10/20/06	3771.04	78.57	78.78	3692.44	0.21	0.00	1.00
	10/24/06	3771.04	78.50	78.75	3692.51	0.25	0.00	1.00
	10/26/06	3771.04	78.56	78.78	3692.45	0.22	0.00	1.00
	11/22/06	3771.04	78.71	78.85	3692.31	0.14	0.00	1.00
	11/28/06	3771.04	78.73	78.87	3692.29	0.14	0.00	1.00
	12/06/06	3771.04	78.81	78.91	3692.22	0.10	0.00	1.00
	12/08/06	3771.04	78.57	78.78	3692.44	0.21	0.00	1.00
	12/12/06	3771.04	0.00	78.73	3692.31	0.00	0.00	1.00
	12/15/06	3771.04	78.78	78.98	3692.24	0.20	0.00	1.00
	12/20/06	3771.04	79.28	85.81	3690.98	6.53	0.00	1.00
	12/22/06	3771.04	78.82	79.91	3692.09	1.09	0.00	1.00
	12/27/06	3771.04	78.84	78.96	3692.19	0.12	0.00	1.00
	01/03/07	3771.04	78.88	78.98	3692.15	0.10	0.00	1.00

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-2	01/05/07	3771.04	78.89	78.96	3692.14	0.07	0.00	1.00
	01/12/07	3771.04	78.92	79.02	3692.11	0.10	0.00	1.00
	01/15/07	3771.04	78.92	79.04	3692.11	0.12	0.00	1.00
	01/18/07	3771.04	78.90	79.02	3692.13	0.12	0.00	1.00
	01/31/07	3771.04	78.90	78.98	3692.13	0.08	0.00	1.00
	02/07/07	3771.04	78.81	78.92	3692.22	0.11	0.00	1.00
	02/09/07	3771.04	78.97	79.09	3692.06	0.12	0.00	1.00
	02/13/07	3771.04	78.97	79.08	3692.06	0.11	0.00	1.00
	02/16/07	3771.04	78.91	79.05	3692.11	0.14	0.00	1.00
	02/19/07	3771.04	78.96	79.05	3692.07	0.09	0.00	1.00
	02/21/07	3771.04	78.97	79.09	3692.06	0.12	0.00	1.00
	02/26/07	3771.04	78.98	79.15	3692.04	0.17	0.00	1.00
	03/01/07	3771.04	78.97	79.09	3692.06	0.12	0.00	1.00
	03/06/07	3771.04	78.94	79.04	3692.09	0.10	0.00	1.00
	03/09/07	3771.04	78.97	79.11	3692.05	0.14	0.00	1.00
	03/13/07	3771.04	78.96	85.97	3685.07	0.00	0.00	1.00
	03/23/07	3771.04	78.98	79.15	3692.04	0.17	0.00	1.00
	03/27/07	3772.07	78.97	79.15	3693.08	0.18	0.00	1.00
	04/06/07	3772.07	79.03	79.15	3693.03	0.12	0.00	1.00
	04/11/07	3772.07	79.03	79.17	3693.03	0.14	0.00	1.00
	04/17/07	3772.07	79.03	79.18	3693.03	0.15	7.00	8.00
	04/19/07	3772.07	79.02	79.18	3693.03	0.16	0.00	8.00
	04/24/07	3772.07	79.01	79.12	3693.05	0.11	0.00	8.00
	05/01/07	3772.07	79.07	79.27	3692.98	0.20	0.00	8.00
	05/21/07	3772.07	79.10	79.25	3692.96	0.15	0.00	8.00
	05/24/07	3772.07	79.11	79.13	3692.96	0.02	0.00	8.00
	06/19/07	3772.07	79.18	79.45	3692.86	0.27	0.00	8.00
	06/28/07	3772.07	79.22	79.40	3692.83	0.18	0.00	8.00
	08/07/07	3772.07	79.12	79.36	3692.93	0.24	0.00	8.00

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-2	08/17/07	3772.07	79.24	79.45	3692.81	0.21	0.00	8.00
	08/23/07	3772.07	79.22	79.48	3692.82	0.26	0.00	8.00
	08/31/07	3772.07	79.25	79.52	3692.79	0.27	0.00	8.00
	09/20/07	3772.07	79.32	79.61	3692.72	0.29	0.00	8.00
	09/21/07	3772.07	79.36	79.66	3692.68	0.30	0.00	8.00
	10/11/07	3772.07	79.34	79.60	3692.70	0.26	0.00	8.00
	10/18/07	3772.07	79.40	79.68	3692.64	0.28	0.00	8.00
	11/27/07	3772.07	79.52	79.79	3692.52	0.27	0.00	8.00
	12/17/07	3772.07	79.56	79.85	3692.48	0.29	0.00	8.00
	12/28/07	3772.07	79.66	79.96	3692.38	0.30	0.00	8.00
	12/31/08	3772.07	79.69	79.98	3692.35	0.29	0.00	8.00
	03/05/08	3772.07	79.83	79.99	3692.22	0.16	0.00	8.00
	03/24/08	3772.07	79.87	79.98	3692.19	0.11	0.00	8.00
	03/26/08	3772.07	79.91	80.01	3692.15	0.10	0.00	8.00

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-3	10/29/04	3771.94	N.D.	78.18	3693.76	0.00	N/A	N/A
	11/04/04	3771.94	N.D.	78.26	3693.68	0.00	N/A	N/A
	11/10/04	3771.94	N.D.	78.30	3693.64	0.00	N/A	N/A
	11/17/04	3771.94	N.D.	78.33	3693.61	0.00	N/A	N/A
	11/24/04	3771.94	N.D.	78.41	3693.53	0.00	N/A	N/A
	12/02/04	3771.94	N.D.	78.37	3693.57	0.00	N/A	N/A
	12/08/04	3771.94	N.D.	78.30	3693.64	0.00	N/A	N/A
	12/15/04	3771.94	N.D.	78.26	3693.68	0.00	N/A	N/A
	12/27/04	3771.94	N.D.	78.42	3693.52	0.00	N/A	N/A
	12/29/04	3771.94	N.D.	78.42	3693.52	0.00	N/A	N/A
	01/06/05	3771.94	N.D.	78.44	3693.50	0.00	N/A	N/A
	01/13/05	3771.94	N.D.	78.48	3693.46	0.00	N/A	N/A
	01/19/05	3771.94	N.D.	78.45	3693.49	0.00	N/A	N/A
	01/26/05	3771.94	N.D.	78.50	3693.44	0.00	N/A	N/A
	02/02/05	3771.94	N.D.	78.55	3693.39	0.00	N/A	N/A
	02/09/05	3771.94	N.D.	78.52	3693.42	0.00	N/A	N/A
	02/16/05	3771.94	N.D.	78.48	3693.46	0.00	N/A	N/A
	02/24/05	3771.94	N.D.	78.48	3693.46	0.00	N/A	N/A
	03/03/05	3771.94	N.D.	78.54	3693.40	0.00	N/A	N/A
	03/11/05	3771.94	N.D.	78.53	3693.41	0.00	N/A	N/A
	03/18/05	3771.94	N.D.	78.51	3693.43	0.00	N/A	N/A
	03/31/05	3771.94	N.D.	78.56	3693.38	0.00	N/A	N/A
	04/07/05	3771.94	N.D.	78.54	3693.40	0.00	N/A	N/A
	05/18/05	3771.94	N.D.	79.40	3692.54	0.00	N/A	N/A
	05/23/05	3771.94	N.D.	79.40	3692.54	0.00	N/A	N/A
	06/01/05	3771.94	N.D.	78.66	3693.28	0.00	N/A	N/A
	06/03/05	3771.94	N.D.	78.65	3693.29	0.00	N/A	N/A
	06/07/05	3771.94	N.D.	78.67	3693.27	0.00	N/A	N/A
	06/10/05	3771.94	N.D.	78.60	3693.34	0.00	N/A	N/A



TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-3	06/13/05	3771.94	N.D.	78.61	3693.33	0.00	N/A	N/A
	06/16/05	3771.94	N.D.	78.61	3693.33	0.00	N/A	N/A
	06/20/05	3771.94	N.D.	78.66	3693.28	0.00	N/A	N/A
	06/22/05	3771.94	N.D.	78.66	3693.28	0.00	N/A	N/A
	06/29/05	3771.94	N.D.	78.64	3693.30	0.00	N/A	N/A
	07/01/05	3771.94	N.D.	78.67	3693.27	0.00	N/A	N/A
	07/06/05	3771.94	N.D.	78.68	3693.26	0.00	N/A	N/A
	07/08/05	3771.94	N.D.	78.70	3693.24	0.00	N/A	N/A
	07/12/05	3771.94	N.D.	78.72	3693.22	0.00	N/A	N/A
	07/14/05	3771.94	N.D.	78.71	3693.23	0.00	N/A	N/A
	07/19/05	3771.94	N.D.	78.73	3693.21	0.00	N/A	N/A
	07/21/05	3771.94	N.D.	78.75	3693.19	0.00	N/A	N/A
	07/26/05	3771.94	N.D.	78.78	3693.16	0.00	N/A	N/A
	07/28/05	3771.94	N.D.	78.78	3693.16	0.00	N/A	N/A
	08/02/05	3771.94	N.D.	78.78	3693.16	0.00	N/A	N/A
	08/04/05	3771.94	N.D.	78.80	3693.14	0.00	N/A	N/A
	08/09/05	3771.94	N.D.	78.80	3693.14	0.00	N/A	N/A
	08/11/05	3771.94	N.D.	78.81	3693.13	0.00	N/A	N/A
	08/16/05	3771.94	N.D.	78.84	3693.10	0.00	N/A	N/A
	08/18/05	3771.94	N.D.	78.83	3693.11	0.00	N/A	N/A
	08/24/05	3771.94	N.D.	78.86	3693.08	0.00	N/A	N/A
	08/26/05	3771.94	N.D.	78.86	3693.08	0.00	N/A	N/A
	08/30/05	3771.94	N.D.	78.87	3693.07	0.00	N/A	N/A
	09/01/05	3771.94	N.D.	78.87	3693.07	0.00	N/A	N/A
	09/06/05	3771.94	N.D.	78.85	3693.09	0.00	N/A	N/A
	09/08/05	3771.94	N.D.	78.86	3693.08	0.00	N/A	N/A
	09/13/05	3771.94	N.D.	78.87	3693.07	0.00	N/A	N/A
	09/16/05	3771.94	78.89	78.91	3693.05	0.02	0.00	0.00
	09/20/05	3771.94	78.90	78.94	3693.04	0.04	0.00	0.00

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-3	09/23/05	3771.94	78.91	78.96	3693.02	0.05	0.00	0.00
	09/27/05	3771.94	78.90	79.00	3693.03	0.10	0.00	0.00
	09/29/05	3771.94	78.92	79.02	3693.01	0.10	0.00	0.00
	10/04/05	3771.94	78.94	79.04	3692.99	0.10	0.00	0.00
	10/06/05	3771.94	78.95	79.09	3692.97	0.14	0.00	0.00
	10/11/05	3771.94	78.96	79.10	3692.96	0.14	0.00	0.00
	10/13/05	3771.94	78.97	79.12	3692.95	0.15	0.00	0.00
	10/18/05	3771.94	78.97	79.13	3692.95	0.16	0.00	0.00
	10/21/05	3771.94	79.01	79.19	3692.91	0.18	0.00	0.00
	10/26/05	3771.94	78.99	79.17	3692.93	0.18	0.00	0.00
	10/28/05	3771.94	79.00	79.19	3692.92	0.19	0.00	0.00
	11/01/05	3771.94	79.03	79.27	3692.88	0.24	0.00	0.00
	11/04/05	3771.94	79.03	79.28	3692.88	0.25	0.00	0.00
	11/09/05	3771.94	79.07	79.35	3692.84	0.28	0.00	0.00
	11/11/05	3771.94	79.07	79.35	3692.84	0.28	0.00	0.00
	11/16/05	3771.94	79.08	79.41	3692.82	0.33	0.00	0.00
	11/18/05	3771.94	79.09	79.42	3692.81	0.33	0.00	0.00
	11/22/05	3771.94	79.08	79.43	3692.82	0.35	0.00	0.00
	11/30/05	3771.94	79.10	79.51	3692.79	0.41	0.00	0.00
	12/02/05	3771.94	79.10	79.50	3692.79	0.40	0.00	0.00
	12/06/05	3771.94	79.08	79.51	3692.81	0.43	0.00	0.00
	12/14/05	3771.94	79.11	79.62	3692.77	0.51	0.00	0.00
	12/16/05	3771.94	79.11	79.62	3692.77	0.51	0.00	0.00
	12/21/05	3771.94	79.11	79.62	3692.77	0.51	0.00	0.00
	12/23/05	3771.94	79.12	79.75	3692.74	0.63	0.00	0.00
	12/27/05	3771.94	79.12	79.75	3692.74	0.63	0.00	0.00
	12/30/05	3771.94	79.15	79.86	3692.70	0.71	0.00	0.00
	01/03/06	3771.94	79.13	79.93	3692.71	0.80	0.00	0.00
	01/05/06	3771.94	79.11	79.91	3692.73	0.80	0.00	0.00

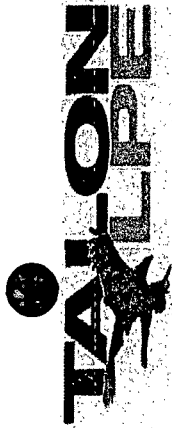


TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-3	01/11/06	3771.94	79.10	80.08	3692.72	0.98	0.00	0.00
	01/13/06	3771.94	79.11	79.91	3692.73	0.80	0.00	0.00
	01/18/06	3771.94	79.06	80.27	3692.73	1.21	0.00	0.00
	01/20/06	3771.94	79.08	80.35	3692.71	1.27	0.00	0.00
	01/24/06	3771.94	79.05	80.47	3692.72	1.42	0.00	0.00
	01/26/06	3771.94	79.03	80.46	3692.74	1.43	0.00	0.00
	02/02/06	3771.94	79.00	80.69	3692.74	1.69	0.00	0.00
	02/08/06	3771.94	78.99	80.50	3692.77	1.51	1.50	1.50
	02/10/06	3771.94	78.97	80.48	3692.79	1.51	1.50	3.00
	02/14/06	3771.94	79.26	79.36	3692.67	0.10	0.00	3.00
	02/16/06	3771.94	79.22	79.37	3692.70	0.15	0.50	3.50
	02/21/06	3771.94	79.24	79.71	3692.64	0.47	0.25	3.75
	02/24/06	3771.94	79.25	79.55	3692.65	0.30	0.25	4.00
	02/28/06	3771.94	79.27	79.55	3692.64	0.28	0.28	4.28
	03/03/06	3771.94	79.21	79.55	3692.69	0.34	0.50	4.78
	03/06/06	3771.94	79.25	79.55	3692.65	0.30	0.20	4.98
	03/08/06	3771.94	79.25	79.49	3692.66	0.24	0.24	5.22
	03/15/06	3771.94	79.23	79.92	3692.63	0.69	0.24	5.46
	03/17/06	3771.94	79.21	80.02	3692.63	0.81	0.00	5.46
	03/21/06	3771.94	79.14	81.00	3692.58	1.86	1.50	6.96
	03/23/06	3771.94	79.08	79.88	3692.76	0.80	0.00	6.96
	03/28/06	3771.94	79.15	80.20	3692.66	1.05	0.50	7.46
	03/30/06	3771.94	79.20	80.22	3692.62	1.02	0.00	7.46
	04/04/06	3771.94	79.17	80.24	3692.64	1.07	0.00	7.46
	04/07/06	3771.94	79.13	80.48	3692.65	1.35	0.00	7.46
	04/12/06	3771.94	79.07	80.82	3692.66	1.75	0.00	7.46
	04/14/06	3771.94	79.07	80.90	3692.65	1.83	0.00	7.46
	04/18/06	3771.94	79.00	81.13	3692.68	2.13	0.00	7.46
	04/21/06	3771.94	79.02	81.32	3692.64	2.30	0.00	7.46

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-3	04/26/06	3771.94	78.91	81.53	3692.72	2.62	0.00	7.46
	04/28/06	3771.94	78.92	81.65	3692.69	2.73	0.00	7.46
	05/04/06	3771.94	78.88	81.82	3692.71	2.94	0.00	7.46
	05/05/06	3771.94	78.89	82.00	3692.68	3.11	0.00	7.46
	05/10/06	3771.94	78.60	82.31	3692.89	3.71	1.50	8.96
	05/12/06	3771.94	78.60	82.31	3692.89	3.71	1.50	10.46
	05/16/06	3771.94	79.15	80.90	3692.58	1.75	0.00	10.46
	05/18/06	3771.94	79.12	81.07	3692.59	1.95	0.00	10.46
	05/23/06	3771.94	79.07	81.46	3692.58	2.39	1.00	11.46
	05/26/06	3771.94	79.09	81.20	3692.60	2.11	0.00	11.46
	05/30/06	3771.94	79.04	81.59	3692.59	2.55	1.50	12.96
	06/01/06	3771.94	79.03	80.53	3692.73	1.50	0.00	12.96
	06/06/06	3771.94	79.23	80.98	3692.50	1.75	0.00	12.96
	06/09/06	3771.94	79.18	81.10	3692.53	1.92	0.00	12.96
	06/13/06	3771.94	79.12	81.20	3692.57	2.08	0.00	12.96
	06/16/06	3771.94	78.11	81.58	3693.41	3.47	0.00	12.96
	06/20/06	3771.94	79.07	81.78	3692.54	2.71	0.00	12.96
	06/23/06	3771.94	79.03	81.89	3692.57	2.86	0.00	12.96
	06/27/06	3771.94	79.02	82.18	3692.54	3.16	0.00	12.96
	06/30/06	3771.94	79.00	82.23	3692.55	3.23	0.00	12.96
	07/05/06	3771.94	79.98	82.46	3691.66	2.48	0.00	12.96
	07/07/06	3771.94	78.97	82.57	3692.54	3.60	0.00	12.96
	07/11/06	3771.94	78.97	82.72	3692.52	3.75	0.00	12.96
	07/13/06	3771.94	78.86	82.80	3692.61	3.94	0.00	12.96
	07/18/06	3771.94	78.94	82.95	3692.52	4.01	0.00	12.96
	07/21/06	3771.94	78.73	82.99	3692.70	4.26	0.00	12.96
	07/25/06	3771.94	78.93	83.11	3692.51	4.18	0.00	12.96
	07/27/06	3771.94	78.92	83.14	3692.51	4.22	0.00	12.96
	08/01/06	3771.94	78.94	83.27	3692.48	4.33	0.00	12.96

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-3	08/03/06	3771.94	78.95	83.30	3692.47	4.35	0.00	12.96
	08/09/06	3771.94	78.95	83.37	3692.46	4.42	0.00	12.96
	08/11/06	3771.94	78.96	83.37	3692.45	4.41	0.00	12.96
	08/15/06	3771.94	78.98	83.45	3692.42	4.47	0.00	12.96
	08/18/06	3771.94	78.98	83.47	3692.42	4.49	0.00	12.96
	08/25/06	3771.94	79.00	83.55	3692.39	4.55	0.00	12.96
	08/30/06	3771.94	79.02	83.61	3692.37	4.59	0.00	12.96
	09/12/06	3771.94	79.16	83.71	3692.23	4.55	0.00	12.96
	09/15/06	3771.94	79.04	83.72	3692.34	4.68	0.00	12.96
	09/20/06	3771.94	79.05	83.75	3692.33	4.70	0.00	12.96
	09/26/06	3771.94	79.09	83.80	3692.28	4.71	0.00	12.96
	09/29/06	3771.94	79.10	83.81	3692.27	4.71	0.00	12.96
	10/04/06	3771.94	79.13	83.94	3692.23	4.81	0.00	12.96
	10/06/06	3771.94	79.47	82.28	3692.13	2.81	0.00	12.96
	10/12/06	3771.94	79.55	82.04	3692.09	2.49	1.00	13.96
	10/17/06	3771.94	79.54	82.11	3692.09	2.57	1.00	14.96
	10/20/06	3771.94	79.52	82.29	3692.09	2.77	0.00	14.96
	10/24/06	3771.94	79.54	82.10	3692.09	2.56	0.00	14.96
	10/26/06	3771.94	79.58	82.29	3692.03	2.71	0.00	14.96
	11/22/06	3771.94	79.72	82.07	3691.94	2.35	1.50	16.46
	11/28/06	3771.94	79.92	81.27	3691.86	1.35	0.50	16.96
	12/06/06	3771.94	80.08	81.03	3691.75	0.95	0.00	16.96
	12/08/06	3771.94	79.52	82.29	3692.09	2.77	0.00	16.96
	12/12/06	3771.94	80.06	82.45	3691.59	2.39	2.00	18.96
	12/15/06	3771.94	80.04	81.03	3691.78	0.99	0.00	18.96
	12/20/06	3771.94	79.98	81.29	3691.80	1.31	0.00	18.96
	12/22/06	3771.94	79.98	81.46	3691.78	1.48	0.00	18.96
	12/27/06	3771.94	79.94	81.82	3691.77	1.88	0.00	18.96
	01/03/07	3771.94	80.15	80.94	3691.70	0.79	0.00	18.96



TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-3	01/05/07	3771.94	80.12	81.02	3691.71	0.90	0.00	18.96
	01/12/07	3771.94	80.08	81.38	3691.70	1.30	0.00	18.96
	01/15/07	3771.94	80.26	80.70	3691.63	0.44	0.00	18.96
	01/18/07	3771.94	80.22	80.80	3691.65	0.58	0.50	19.46
	01/31/07	3771.94	80.24	81.18	3691.59	0.94	0.00	19.46
	02/07/07	3771.94	79.97	81.45	3691.79	1.48	0.25	19.71
	02/09/07	3771.94	80.33	80.60	3691.58	0.27	0.00	19.71
	02/13/07	3771.94	80.29	80.81	3691.59	0.52	0.00	19.71
	02/16/07	3771.94	80.23	80.91	3691.63	0.68	0.00	19.71
	02/19/07	3771.94	80.19	81.09	3691.64	0.90	0.00	19.71
	02/21/07	3771.94	80.19	81.12	3691.64	0.93	0.00	19.71
	02/26/07	3771.94	80.20	81.43	3691.59	1.23	0.00	19.71
	03/01/07	3771.94	80.15	81.56	3691.62	1.41	0.00	19.71
	03/06/07	3771.94	80.02	81.71	3691.72	1.69	0.00	19.71
	03/09/07	3771.94	80.07	81.62	3691.68	1.55	0.00	19.71
	03/13/07	3771.94	80.03	82.07	3691.67	2.04	0.00	19.71
	03/23/07	3771.94	80.04	82.17	3691.64	2.13	0.00	19.71
	03/27/07	3772.86	80.01	82.42	3692.61	2.41	0.00	19.71
	04/06/07	3772.86	79.96	82.83	3692.61	2.87	0.00	19.71
	04/11/07	3772.86	79.90	83.01	3692.65	3.11	0.00	19.71
	04/17/07	3772.86	79.90	83.11	3692.64	3.21	0.00	19.71
	04/19/07	3772.86	79.89	83.17	3692.64	3.28	0.00	19.71
	04/24/07	3772.86	79.87	82.25	3692.75	2.38	0.00	19.71
	05/01/07	3772.86	79.81	83.87	3692.64	4.06	0.00	19.71
	05/21/07	3772.86	79.85	83.75	3692.62	3.90	0.00	19.71
	05/24/07	3772.86	79.86	81.57	3692.83	1.71	0.00	19.71
	06/19/07	3772.86	79.80	84.12	3692.63	4.32	0.00	19.71
	06/28/07	3772.86	79.92	84.16	3692.52	4.24	0.00	19.71
	08/07/07	3772.86	79.84	84.04	3692.60	4.20	4.00	23.71

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
	08/17/07	3772.86	80.13	82.71	3692.47	2.58	1.00	24.71
	08/23/07	3772.86	80.35	82.83	3692.26	2.48	0.25	24.96
	08/31/07	3772.86	80.56	81.57	3692.20	1.01	1.00	25.96
	09/20/07	3772.86	80.37	82.33	3692.29	1.96	0.00	25.96
	09/21/07	3772.86	80.38	82.37	3692.28	1.99	1.60	27.56
	10/11/07	3772.86	80.51	82.10	3692.19	1.59	0.00	27.56
	10/18/07	3772.86	80.71	81.29	3692.09	0.58	0.00	27.56
	11/27/07	3772.86	80.51	82.96	3692.11	2.45	0.00	27.56
	12/17/07	3772.86	80.56	83.40	3692.02	2.84	0.00	27.56
	12/28/07	3772.86	80.61	83.87	3691.92	3.26	0.00	27.56
	12/31/07	3772.86	80.67	83.09	3691.95	2.42	2.00	29.56
	03/05/08	3772.86	80.65	84.00	3691.88	3.35	3.00	30.56
	03/24/08	3772.86	80.81	83.28	3691.80	2.47	2.00	31.56
	03/26/08	3772.86	80.89	83.33	3691.73	2.44	0.00	30.56

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-4	10/29/04	3772.86	N.D.	79.22	3693.64	0.00	N/A	N/A
	11/04/04	3772.86	N.D.	79.35	3693.51	0.00	N/A	N/A
	11/10/04	3772.86	N.D.	79.34	3693.52	0.00	N/A	N/A
	11/17/04	3772.86	N.D.	79.41	3693.45	0.00	N/A	N/A
	11/24/04	3772.86	N.D.	79.49	3693.37	0.00	N/A	N/A
	12/02/04	3772.86	N.D.	79.46	3693.40	0.00	N/A	N/A
	12/08/04	3772.86	N.D.	79.35	3693.51	0.00	N/A	N/A
	12/15/04	3772.86	N.D.	79.33	3693.53	0.00	N/A	N/A
	12/27/04	3772.86	N.D.	79.48	3693.38	0.00	N/A	N/A
	12/29/04	3772.86	N.D.	79.47	3693.39	0.00	N/A	N/A
	01/06/05	3772.86	N.D.	79.51	3693.35	0.00	N/A	N/A
	01/13/05	3772.86	N.D.	79.54	3693.32	0.00	N/A	N/A
	01/19/05	3772.86	N.D.	79.51	3693.35	0.00	N/A	N/A
	01/26/05	3772.86	N.D.	79.54	3693.32	0.00	N/A	N/A
	02/02/05	3772.86	N.D.	79.51	3693.35	0.00	N/A	N/A
	02/09/05	3772.86	N.D.	79.58	3693.28	0.00	N/A	N/A
	02/16/05	3772.86	N.D.	79.52	3693.34	0.00	N/A	N/A
	02/24/05	3772.86	N.D.	79.55	3693.31	0.00	N/A	N/A
	03/03/05	3772.86	N.D.	79.57	3693.29	0.00	N/A	N/A
	03/11/05	3772.86	N.D.	79.46	3693.40	0.00	N/A	N/A
	03/18/05	3772.86	N.D.	79.57	3693.29	0.00	N/A	N/A
	03/31/05	3772.86	N.D.	79.61	3693.25	0.00	N/A	N/A
	04/07/05	3772.86	N.D.	79.59	3693.27	0.00	N/A	N/A
	05/18/05	3772.86	N.D.	79.40	3693.46	0.00	N/A	N/A
	05/23/05	3772.86	N.D.	79.40	3693.46	0.00	N/A	N/A
	06/01/05	3772.86	N.D.	79.66	3693.20	0.00	N/A	N/A
	06/03/05	3772.86	N.D.	79.65	3693.21	0.00	N/A	N/A
	06/07/05	3772.86	N.D.	79.67	3693.19	0.00	N/A	N/A
	06/10/05	3772.86	N.D.	79.64	3693.22	0.00	N/A	N/A

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-4	06/13/05	3772.86	N.D.	79.61	3693.25	0.00	N/A	N/A
	06/16/05	3772.86	N.D.	79.65	3693.21	0.00	N/A	N/A
	06/20/05	3772.86	N.D.	79.90	3692.96	0.00	N/A	N/A
	06/22/05	3772.86	N.D.	79.70	3693.16	0.00	N/A	N/A
	06/29/05	3772.86	N.D.	79.68	3693.18	0.00	N/A	N/A
	07/01/05	3772.86	N.D.	79.71	3693.15	0.00	N/A	N/A
	07/06/05	3772.86	N.D.	79.71	3693.15	0.00	N/A	N/A
	07/08/05	3772.86	N.D.	79.75	3693.11	0.00	N/A	N/A
	07/12/05	3772.86	N.D.	79.75	3693.11	0.00	N/A	N/A
	07/14/05	3772.86	N.D.	79.75	3693.11	0.00	N/A	N/A
	07/19/05	3772.86	N.D.	79.77	3693.09	0.00	N/A	N/A
	07/21/05	3772.86	N.D.	79.79	3693.07	0.00	N/A	N/A
	07/26/05	3772.86	N.D.	79.81	3693.05	0.00	N/A	N/A
	07/28/05	3772.86	N.D.	79.81	3693.05	0.00	N/A	N/A
	08/02/05	3772.86	N.D.	79.82	3693.04	0.00	N/A	N/A
	08/04/05	3772.86	N.D.	79.84	3693.02	0.00	N/A	N/A
	08/09/05	3772.86	N.D.	79.85	3693.01	0.00	N/A	N/A
	08/11/05	3772.86	N.D.	79.86	3693.00	0.00	N/A	N/A
	08/16/05	3772.86	N.D.	79.88	3692.98	0.00	N/A	N/A
	08/18/05	3772.86	N.D.	79.88	3692.98	0.00	N/A	N/A
	08/24/05	3772.86	N.D.	79.90	3692.96	0.00	N/A	N/A
	08/26/05	3772.86	N.D.	79.91	3692.95	0.00	N/A	N/A
	08/30/05	3772.86	N.D.	79.93	3692.93	0.00	N/A	N/A
	09/01/05	3772.86	N.D.	79.92	3692.94	0.00	N/A	N/A
	09/06/05	3772.86	N.D.	79.91	3692.95	0.00	N/A	N/A
	09/08/05	3772.86	N.D.	79.94	3692.92	0.00	N/A	N/A
	09/13/05	3772.86	N.D.	79.94	3692.92	0.00	N/A	N/A
	09/16/05	3772.86	N.D.	79.96	3692.90	0.00	N/A	N/A
	09/20/05	3772.86	N.D.	79.88	3692.98	0.00	N/A	N/A

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-4	09/23/05	3772.86	N.D.	79.79	3693.07	0.00	N/A	N/A
	09/27/05	3772.86	N.D.	80.00	3692.86	0.00	N/A	N/A
	09/29/05	3772.86	N.D.	80.01	3692.85	0.00	N/A	N/A
	10/04/05	3772.86	N.D.	80.03	3692.83	0.00	N/A	N/A
	10/06/05	3772.86	N.D.	80.04	3692.82	0.00	N/A	N/A
	10/11/05	3772.86	N.D.	80.04	3692.82	0.00	N/A	N/A
	10/13/05	3772.86	N.D.	80.05	3692.81	0.00	N/A	N/A
	10/18/05	3772.86	N.D.	80.85	3692.01	0.00	N/A	N/A
	10/21/05	3772.86	N.D.	80.09	3692.77	0.00	N/A	N/A
	10/26/05	3772.86	N.D.	80.08	3692.78	0.00	N/A	N/A
	10/28/05	3772.86	N.D.	80.09	3692.77	0.00	N/A	N/A
	11/01/05	3772.86	N.D.	80.13	3692.73	0.00	N/A	N/A
	11/04/05	3772.86	N.D.	80.14	3692.72	0.00	N/A	N/A
	11/09/05	3772.86	N.D.	80.18	3692.68	0.00	N/A	N/A
	11/11/05	3772.86	N.D.	80.16	3692.70	0.00	N/A	N/A
	11/16/05	3772.86	N.D.	80.21	3692.65	0.00	N/A	N/A
	11/18/05	3772.86	N.D.	80.20	3692.66	0.00	N/A	N/A
	11/22/05	3772.86	N.D.	80.20	3692.66	0.00	N/A	N/A
	11/30/05	3772.86	N.D.	80.22	3692.64	0.00	N/A	N/A
	12/02/05	3772.86	N.D.	80.22	3692.64	0.00	N/A	N/A
	12/06/05	3772.86	N.D.	80.20	3692.66	0.00	N/A	N/A
	12/14/05	3772.86	N.D.	80.25	3692.61	0.00	N/A	N/A
	12/16/05	3772.86	N.D.	80.20	3692.66	0.00	N/A	N/A
	12/21/05	3772.86	N.D.	80.20	3692.66	0.00	N/A	N/A
	12/23/05	3772.86	N.D.	80.27	3692.59	0.00	N/A	N/A
	12/27/05	3772.86	N.D.	80.26	3692.60	0.00	N/A	N/A
	12/30/05	3772.86	N.D.	80.15	3692.71	0.00	N/A	N/A
	01/03/06	3772.86	N.D.	80.31	3692.55	0.00	N/A	N/A
	01/05/06	3772.86	N.D.	80.28	3692.58	0.00	N/A	N/A

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-4	01/11/06	3772.86	N.D.	80.31	3692.55	0.00	N/A	N/A
	01/13/06	3772.86	N.D.	80.26	3692.60	0.00	N/A	N/A
	01/18/06	3772.86	N.D.	80.32	3692.54	0.00	N/A	N/A
	01/20/06	3772.86	N.D.	79.36	3693.50	0.00	N/A	N/A
	01/24/06	3772.86	N.D.	80.37	3692.49	0.00	N/A	N/A
	01/26/06	3772.86	N.D.	80.35	3692.51	0.00	N/A	N/A
	02/02/06	3772.86	N.D.	80.36	3692.50	0.00	N/A	N/A
	02/08/06	3772.86	N.D.	80.32	3692.54	0.00	N/A	N/A
	02/10/06	3772.86	N.D.	80.33	3692.53	0.00	N/A	N/A
	02/14/06	3772.86	N.D.	80.35	3692.51	0.00	N/A	N/A
	02/16/06	3772.86	N.D.	80.35	3692.51	0.00	N/A	N/A
	02/21/06	3772.86	N.D.	80.36	3692.50	0.00	N/A	N/A
	02/24/06	3772.86	N.D.	80.36	3692.50	0.00	N/A	N/A
	02/28/06	3772.86	N.D.	90.34	3682.52	0.00	N/A	N/A
	03/03/06	3772.86	N.D.	80.30	3692.56	0.00	N/A	N/A
	03/06/06	3772.86	N.D.	80.31	3692.55	0.00	N/A	N/A
	03/08/06	3772.86	N.D.	80.35	3692.51	0.00	N/A	N/A
	03/15/06	3772.86	N.D.	80.38	3692.48	0.00	N/A	N/A
	03/17/06	3772.86	N.D.	80.30	3692.56	0.00	N/A	N/A
	03/21/06	3772.86	N.D.	80.35	3692.51	0.00	N/A	N/A
	03/23/06	3772.86	N.D.	80.25	3692.61	0.00	N/A	N/A
	03/28/06	3772.86	N.D.	80.38	3692.48	0.00	N/A	N/A
	03/30/06	3772.86	N.D.	80.29	3692.57	0.00	N/A	N/A
	04/04/06	3772.86	N.D.	80.38	3692.48	0.00	N/A	N/A
	04/07/06	3772.86	N.D.	80.45	3692.41	0.00	N/A	N/A
	04/12/06	3772.86	N.D.	80.40	3692.46	0.00	N/A	N/A
	04/14/06	3772.86	N.D.	80.40	3692.46	0.00	N/A	N/A
	04/18/06	3772.86	N.D.	80.40	3692.46	0.00	N/A	N/A
	04/21/06	3772.86	N.D.	80.44	3692.42	0.00	N/A	N/A



TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-4	04/26/06	3772.86	N.D.	80.40	3692.46	0.00	N/A	N/A
	04/28/06	3772.86	N.D.	80.43	3692.43	0.00	N/A	N/A
	05/04/06	3772.86	N.D.	80.44	3692.42	0.00	N/A	N/A
	05/05/06	3772.86	N.D.	80.45	3692.41	0.00	N/A	N/A
	05/10/06	3772.86	N.D.	80.41	3692.45	0.00	N/A	N/A
	05/12/06	3772.86	N.D.	80.48	3692.38	0.00	N/A	N/A
	05/16/06	3772.86	N.D.	80.49	3692.37	0.00	N/A	N/A
	05/18/06	3772.86	N.D.	80.50	3692.36	0.00	N/A	N/A
	05/23/06	3772.86	N.D.	80.56	3692.30	0.00	N/A	N/A
	05/26/06	3772.86	N.D.	80.51	3692.35	0.00	N/A	N/A
	05/30/06	3772.86	N.D.	80.53	3692.33	0.00	N/A	N/A
	06/01/06	3772.86	N.D.	80.53	3692.33	0.00	N/A	N/A
	06/06/06	3772.86	N.D.	80.57	3692.29	0.00	N/A	N/A
	06/09/06	3772.86	N.D.	80.54	3692.32	0.00	N/A	N/A
	06/13/06	3772.86	N.D.	80.56	3692.30	0.00	N/A	N/A
	06/16/06	3772.86	N.D.	80.56	3692.30	0.00	N/A	N/A
	06/20/06	3772.86	N.D.	80.53	3692.33	0.00	N/A	N/A
	06/23/06	3772.86	N.D.	80.56	3692.30	0.00	N/A	N/A
	06/27/06	3772.86	N.D.	80.61	3692.25	0.00	N/A	N/A
	06/30/06	3772.86	N.D.	80.6	3692.26	0.00	N/A	N/A
	07/05/06	3772.86	N.D.	80.62	3692.24	0.00	N/A	N/A
	07/07/06	3772.86	N.D.	80.62	3692.24	0.00	N/A	N/A
	07/11/06	3772.86	N.D.	80.95	3691.91	0.00	N/A	N/A
	07/13/06	3772.86	N.D.	80.68	3692.18	0.00	N/A	N/A
	07/18/06	3772.86	N.D.	80.68	3692.18	0.00	N/A	N/A
	07/21/06	3772.86	N.D.	80.67	3692.19	0.00	N/A	N/A
	07/25/06	3772.86	N.D.	80.71	3692.15	0.00	N/A	N/A
	07/27/06	3772.86	N.D.	80.7	3692.16	0.00	N/A	N/A
	08/01/06	3772.86	N.D.	80.75	3692.11	0.00	N/A	N/A

TABLE 5

Summary of PSH Thickness & Gauging Measurements

PLAINS PIPELINE, L.P.

8" MOORE TO JAL #2

NMOCD REF. # 1R-0381

LEA COUNTY, NEW MEXICO - SRS# 2002-10273

Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-4	08/03/06	3772.86	N.D.	80.75	3692.11	0.00	N/A	N/A
	08/09/06	3772.86	N.D.	80.78	3692.08	0.00	N/A	N/A
	08/11/06	3772.86	N.D.	80.78	3692.08	0.00	N/A	N/A
	08/15/06	3772.86	N.D.	80.74	3692.12	0.00	N/A	N/A
	08/18/06	3772.86	N.D.	80.81	3692.05	0.00	N/A	N/A
	08/25/06	3772.86	N.D.	80.84	3692.02	0.00	N/A	N/A
	08/30/06	3772.86	N.D.	80.86	3692.00	0.00	N/A	N/A
	09/12/06	3772.86	NM	NM	NM	0.00	N/A	N/A
	09/15/06	3772.86	N.D.	80.93	3691.93	0.00	N/A	N/A
	09/20/06	3772.86	N.D.	80.93	3691.93	0.00	N/A	N/A
	09/26/06	3772.86	N.D.	80.98	3691.88	0.00	N/A	N/A
	09/29/06	3772.86	N.D.	79.98	3692.88	0.00	N/A	N/A
	10/04/06	3772.86	N.D.	81.04	3691.82	0.00	N/A	N/A
	10/06/06	3772.86	N.D.	81.03	3691.83	0.00	N/A	N/A
	10/12/06	3772.86	N.D.	81.05	3691.81	0.00	N/A	N/A
	10/17/06	3772.86	N.D.	81.08	3691.78	0.00	N/A	N/A
	10/20/06	3772.86	N.D.	81.40	3691.46	0.00	N/A	N/A
	10/24/06	3772.86	N.D.	81.05	3691.81	0.00	N/A	N/A
	10/26/06	3772.86	N.D.	81.05	3691.81	0.00	N/A	N/A
	11/22/06	3772.86	N.D.	81.17	3691.69	0.00	N/A	N/A
	11/28/06	3772.86	N.D.	81.20	3691.66	0.00	N/A	N/A
	12/06/06	3772.86	N.D.	81.27	3691.59	0.00	N/A	N/A
	12/08/06	3772.86	N.D.	81.07	3691.79	0.00	N/A	N/A
	12/12/06	3772.86	N.D.	82.36	3690.50	0.00	N/A	N/A
	12/15/06	3772.86	N.D.	81.07	3691.79	0.00	N/A	N/A
	12/20/06	3772.86	N.D.	81.16	3691.70	0.00	N/A	N/A
	12/22/06	3772.86	N.D.	81.29	3691.57	0.00	N/A	N/A
	12/27/06	3772.86	N.D.	81.33	3691.53	0.00	N/A	N/A
	01/03/07	3772.86	N.D.	81.34	3691.52	0.00	N/A	N/A

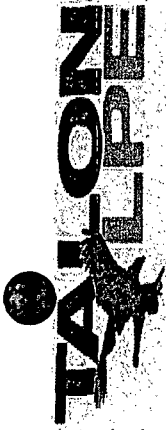


TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-4	01/05/07	3772.86	N.D.	81.32	3691.54	0.00	N/A	N/A
	01/12/07	3772.86	N.D.	81.36	3691.50	0.00	N/A	N/A
	01/15/07	3772.86	N.D.	81.42	3691.44	0.00	N/A	N/A
	01/18/07	3772.86	N.D.	81.39	3691.47	0.00	N/A	N/A
	01/31/07	3772.86	N.D.	81.35	3691.51	0.00	N/A	N/A
	02/07/07	3772.86	N.D.	81.27	3691.59	0.00	N/A	N/A
	02/09/07	3772.86	N.D.	81.45	3691.41	0.00	N/A	N/A
	02/13/07	3772.86	N.D.	81.41	3691.45	0.00	N/A	N/A
	02/16/07	3772.86	80.26	80.39	3692.58	0.13	N/A	N/A
	02/19/07	3772.86	81.36	81.37	3691.50	0.01	N/A	N/A
	02/21/07	3772.86	N.D.	81.41	3691.45	0.00	N/A	N/A
	02/26/07	3772.86	N.D.	81.44	3691.42	0.00	N/A	N/A
	03/01/07	3772.86	N.D.	81.42	3691.44	0.00	N/A	N/A
	03/06/07	3772.86	N.D.	81.11	3691.75	0.00	N/A	N/A
	03/09/07	3772.86	N.D.	81.43	3691.43	0.00	N/A	N/A
	03/13/07	3772.86	N.D.	81.42	3691.44	0.00	N/A	N/A
	03/23/07	3772.86	N.D.	81.44	3691.42	0.00	N/A	N/A
	03/27/07	3773.76	N.D.	81.43	3692.33	0.00	N/A	N/A
	03/29/07	3773.76	N.D.	81.12	3692.64	0.00	N/A	N/A
	04/06/07	3773.76	N.D.	81.47	3692.29	0.00	N/A	N/A
	04/11/07	3773.76	N.D.	81.46	3692.30	0.00	N/A	N/A
	04/17/07	3773.76	N.D.	81.47	3692.29	0.00	N/A	N/A
	04/19/07	3773.76	N.D.	81.47	3692.29	0.00	N/A	N/A
	04/24/07	3773.76	N.D.	81.43	3692.33	0.00	N/A	N/A
	05/01/07	3773.76	N.D.	81.51	3692.25	0.00	N/A	N/A
	05/21/07	3773.76	N.D.	81.51	3692.25	0.00	N/A	N/A
	05/24/07	3773.76	N.D.	81.57	3692.19	0.00	N/A	N/A
	06/19/07	3773.76	N.D.	81.51	3692.25	0.00	N/A	N/A
	06/28/07	3773.76	N.D.	81.49	3692.27	0.00	N/A	N/A



TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-4	08/07/07	3773.76	N.D.	81.54	3692.22	0.00	N/A	N/A
	08/17/07	3773.76	N.D.	81.62	3692.14	0.00	N/A	N/A
	08/23/07	3773.76	N.D.	81.64	3692.12	0.00	N/A	N/A
	09/20/07	3773.76	N.D.	81.72	3692.04	0.00	N/A	N/A
	10/11/07	3773.76	N.D.	81.77	3691.99	0.00	N/A	N/A
	11/27/07	3773.76	N.D.	81.97	3691.79	0.00	N/A	N/A
	12/17/07	3773.76	N.D.	82.04	3691.72	0.00	N/A	N/A
	12/28/07	3773.76	N.D.	82.06	3691.70	0.00	N/A	N/A
	03/05/08	3773.76	N.D.	82.28	3691.48	0.00	N/A	N/A
	03/26/08	3773.76	N.D.	82.34	3691.42	0.00	N/A	N/A
MW-5	11/16/07	Installed Well						
	11/27/07	3772.08	79.69	79.98	3692.36	0.29	0.00	0.00
	12/17/07	3772.08	79.55	80.91	3692.39	1.36	0.00	0.00
	12/28/07	3772.08	79.49	81.68	3692.37	2.19	0.00	0.00
	12/31/08	3772.08	79.43	81.88	3692.41	2.45	2.00	2.00
	03/05/08	3772.08	78.96	84.96	3692.52	6.00	6.00	6.00
	03/24/08	3772.08	78.98	81.04	3692.89	2.06	2.00	4.00
	03/26/08	3772.08	79.74	81.68	3692.15	1.94	0.00	6.00



TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-6	11/15/07	Installed Well						
	11/27/07	3772.99	80.66	81.54	3692.24	0.88	0.00	0.00
	12/17/07	3772.99	80.42	83.14	3692.30	2.72	0.00	0.00
	12/28/07	3772.99	80.24	84.27	3692.35	4.03	0.00	0.00
	12/31/08	3772.99	80.21	84.66	3692.34	4.45	4.00	4.00
	03/05/08	3772.99	79.96	86.41	3692.39	6.45	6.00	6.00
	03/24/08	3772.99	79.96	86.21	3692.41	6.25	6.00	10.00
	03/26/08	3772.99	80.02	86.46	3692.33	6.44	0.00	6.00
MW-7	11/15/07	Installed Well						
	11/27/07	3772.92	80.72	81.56	3692.12	0.84	0.00	0.00
	12/17/07	3772.92	80.51	82.94	3692.17	2.43	0.00	0.00
	12/28/07	3772.92	80.44	83.86	3692.14	3.42	0.00	0.00
	12/31/08	3772.92	80.91	84.19	3691.68	3.28	3.00	3.00
	03/05/08	3772.92	80.04	86.55	3692.23	6.51	6.00	6.00
	03/24/08	3772.92	80.09	86.48	3692.19	6.39	6.00	9.00
	03/26/08	3772.92	80.16	86.55	3692.12	6.39	0.00	6.00
MW-8	11/15/07	Installed Well						
	11/27/07	3773.80		82.11	3691.69			
	12/17/07	3773.80		82.21	3691.59			
	12/28/07	3773.80		82.24	3691.56			
	03/05/08	3773.80		82.44	3691.36			
	03/26/08	3773.80		82.41	3691.39			

TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
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LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-9	11/15/07	Installed Well						
	11/27/07	3771.79	79.47	79.93	3692.27	0.46	0.00	0.00
	12/17/07	3771.79	79.35	80.82	3692.29	1.47	0.00	0.00
	12/28/07	3771.79	79.30	81.48	3692.27	2.18	0.00	0.00
	12/31/08	3771.79	79.27	81.76	3692.27	2.49	2.00	2.00
	03/05/08	3771.79	78.73	85.07	3692.43	6.34	6.00	6.00
	03/24/08	3771.79	78.84	84.93	3692.34	6.09	6.00	8.00
	03/26/08	3771.79	79.54	81.64	3692.04	2.10	0.00	6.00
MW-10								
	11/15/07	Installed Well						
	11/27/07	3771.90		79.13	3692.77			
	12/17/07	3771.90		79.18	3692.72			
	12/28/07	3771.90		79.18	3692.72			
	03/05/08	3771.90		79.39	3692.51			
	03/26/08	3771.90		79.36	3692.54			
MW-11								
	11/14/07	Installed Well						
	11/27/07	3772.97		80.50	3692.47			
	12/17/07	3772.97		80.52	3692.45			
	12/28/07	3772.97		80.58	3692.39			
	03/05/08	3772.97		80.77	3692.20			
	03/26/08	3772.97		80.73	3692.24			



TABLE 5
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2
NMOCD REF. # 1R-0381
LEA COUNTY, NEW MEXICO - SRS# 2002-10273
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-12	11/14/07	Installed Well						
	11/27/07	3773.80		82.74	3691.06			
	12/17/07	3773.80		81.77	3692.03			
	12/28/07	3773.80		81.76	3692.04			
	03/05/08	3773.80		81.98	3691.82			
	03/26/08	3773.80		81.92	3691.88			
MW-13	11/14/07	Installed Well						
	11/27/07	3774.36		82.71	3691.65			
	12/17/07	3774.36		82.84	3691.52			
	12/28/07	3774.36		82.86	3691.50			
	03/05/08	3774.36		83.06	3691.30			
	03/26/08	3774.36		83.01	3691.35			

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

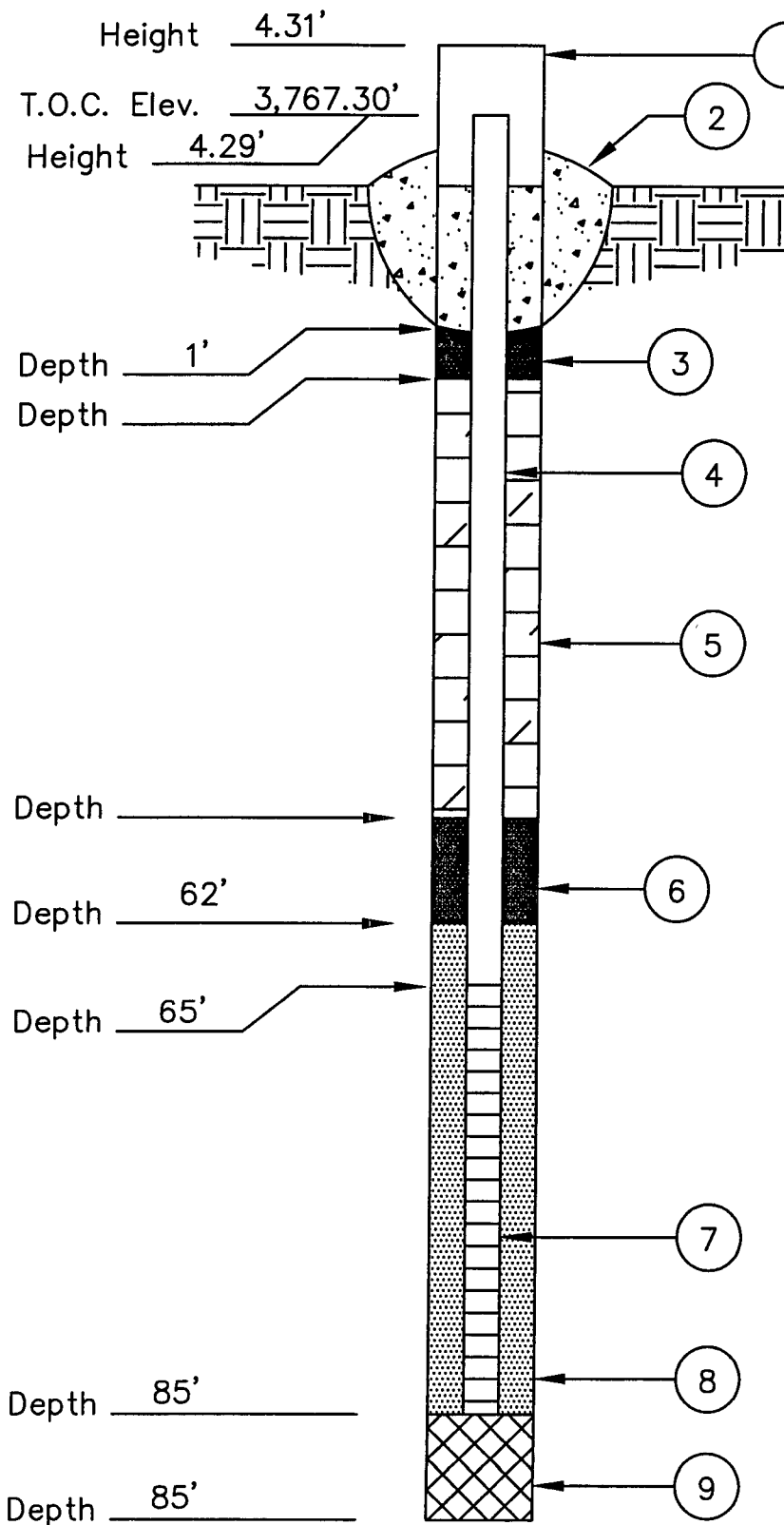
NM=No Measurement

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: 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 22 bags of Bentonite Plug
- 4) Solid Pipe Type PVC
Solid Pipe Length 70 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 .010"
Length 20 ft.
Screen Diameter 4 in.
- 8) Type of Backfill around Screen 6 bags of 12/20 sand
- 9) Type of Backfill NA
- 10) Drilling Method Air Rotary
- 11) Additives Used if any Water
- 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 - 2002-10273

Project Name: 8-Inch Moore to Jal #2

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

Boring Number: MW-1

Surface Elevation: 3,763.01'

Sample # and Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Start Date: <u>07/27/04</u> Time: <u>0900</u> Completion Date: <u>07/27/04</u> Time: <u>1550</u> Description
						5	CALICHE, White to Tan, Soft to Indurated
0910	SS	12	Dry	906	-	10	Hydrocarbon odor
0911	Cuttings	NA	Dry	592	-	15	Hydrocarbon odor
0917	SS	24	Damp	721	-	20	Hydrocarbon odor
0918	Cuttings	NA	Damp	427	SP	25	Tan to Red Brown, Soft, Fine to Medium-Grained SAND with some trace SILT, CLAY and PEBBLES Hydrocarbon odor
0928	SS	24	Damp	733	SP	30	Hydrocarbon odor
						35	

Log Of Test Borings

(NOTE - Page 2 of 3)



ENVIRONMENTAL PLUS, Inc.
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 EUNICE, NM
 505-384-3481

Project Number: Plains All American Pipeline - 2002-10273

Project Name: 8-Inch Moore to Jal #2

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

Boring Number: MW-1

Surface Elevation: 3,763.01'

Sample # and Time	Sample Type	Recovery (Inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Start Date: <u>07/27/04</u> Time: <u>0900</u> Completion Date: <u>07/27/04</u> Time: <u>1550</u> Description
0929	Cuttings	NA	Dry	386	SP	40	Hydrocarbon odor
0937	SS	24	Dry	588	SP	45	Hydrocarbon odor
0938	Cuttings	NA	Dry	301	SP	50	Hydrocarbon odor
0949	SS	24	Dry	431	SP	55	Hydrocarbon odor
1002	Cuttings	NA	Dry	599	SP	60	Hydrocarbon odor
1012	SS	24	Dry	660	SP	65	Hydrocarbon odor
1019	Cuttings	NA	Dry	799	SP	70	Hydrocarbon odor

Log Of Test Borings

(NOTE - Page 3 of 3)



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

Project Number: Plains All American Pipeline - 2002-10273

Project Name: 8-Inch Moore to Jal #2

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

Boring Number: MW-1

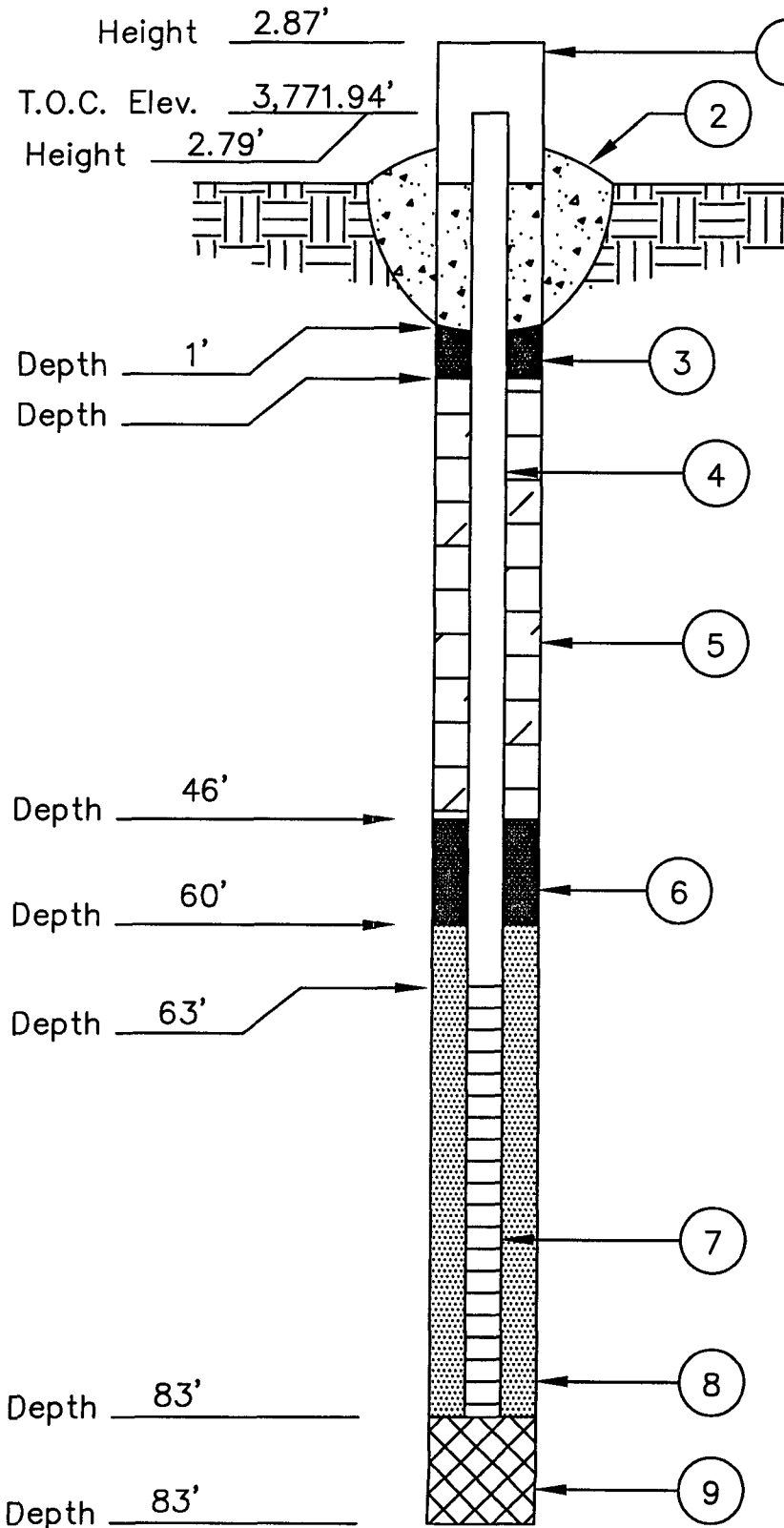
Surface Elevation: 3,763.01'

Sample # and Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Description
1033	SS	24	Damp	390	SP	75	Hydrocarbon odor
1037	Cuttings	NA	Damp	566	SP	80	Hydrocarbon odor
10:55	SS	24	Damp	11.2	SP	85	Hydrocarbon odor
						90	
						95	
						100	
							End of Boring at 83'

Water Level Measurements (feet)						Drilling Method: Air Rotary 10.25" OD
Date	Time	Sample Depth	Casing Depth	Cave-In Depth	Water Level	Backfill Method: MW-2 Installed
07/27/04	--	--	--	--	--	Field Representative: JR
10/29/04	--	--	--	--	79.20	

Monitoring Well Construction Information Standard Well

Job No.: 2002-10273 Job Name: 8-Inch Moore to Jol #2 Boring / Well No. MW-3
Date: 10/26/04 Field Representative: JR State Unique Well No. NA



- 1) Protective Casing

Yes	No
Yes	No
Yes	No
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 Threaded
- 5) Type of Backfill Bentonite Plug
- 6) Type of Lower Seal if Installed Sluffed Off Sand
- 7) Screen Type P.V.C.
Screen Length 20 ft.
Slot Size .020"
Length 20 ft.
Screen Diameter 2 in.
- 8) Type of Backfill around Screen 14 bags of 12/20 sand
- 9) Type of Backfill _____
- 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.
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 505-384-3481

Project Number: Plains All American Pipeline - 2002-10273

Project Name: 8-Inch Moore to Jal #2

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

Boring Number: MW-3

Surface Elevation: 3,769.15'

Start Date: 10/26/04 Time: 1015

Completion Date: 10/26/04 Time: 1500

Description

0.5' Sandy Topsoil

CALICHE, White to Tan, Soft to Indurated

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

Sample # and Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)
						5
1040	CS	36	Dry	23.2	-	10
1044	CS	60	Dry	77.4	-	15
1053	CS	60	Dry	50.1	-	20
1104	CS	48	Dry	38.6	SP	25
1110	CS	36	Dry	66.1	SP	30
						35

Log Of Test Borings

(NOTE - Page 2 of 3)



ENVIRONMENTAL PLUS, INC.
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 EUNICE, NM
 505-394-3481

Project Number: Plains All American Pipeline - 2002-10273

Project Name: 8-Inch Moore to Jal #2

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

Boring Number: MW-3

Surface Elevation: 3,769.15'

Sample # and Time	Sample Type	Recovery (Inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Start Date: <u>10/26/04</u> Time: <u>1015</u> Completion Date: <u>10/26/04</u> Time: <u>1500</u> Description
1117	CS	48	Dry/ Damp	68.7	SP	40	
1127	CS	48	Dry/ Damp	42.8	SP	45	
1135	CS	60	Dry/ Damp	67.7	SP	50	
1229	CS	48	Dry/ Damp	62.2	SP	55	
1235	CS	60	Dry/ Damp	78.3	SP	60	
1239	CS	60	Dry/ Damp	56.9	SP	65	
1248	CS	48	Dry/ Damp	53.3	SP	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 - 2002-10273

Project Name: 8-Inch Moore to Jal #2

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

Boring Number: MW-3

Surface Elevation: 3,769.15'

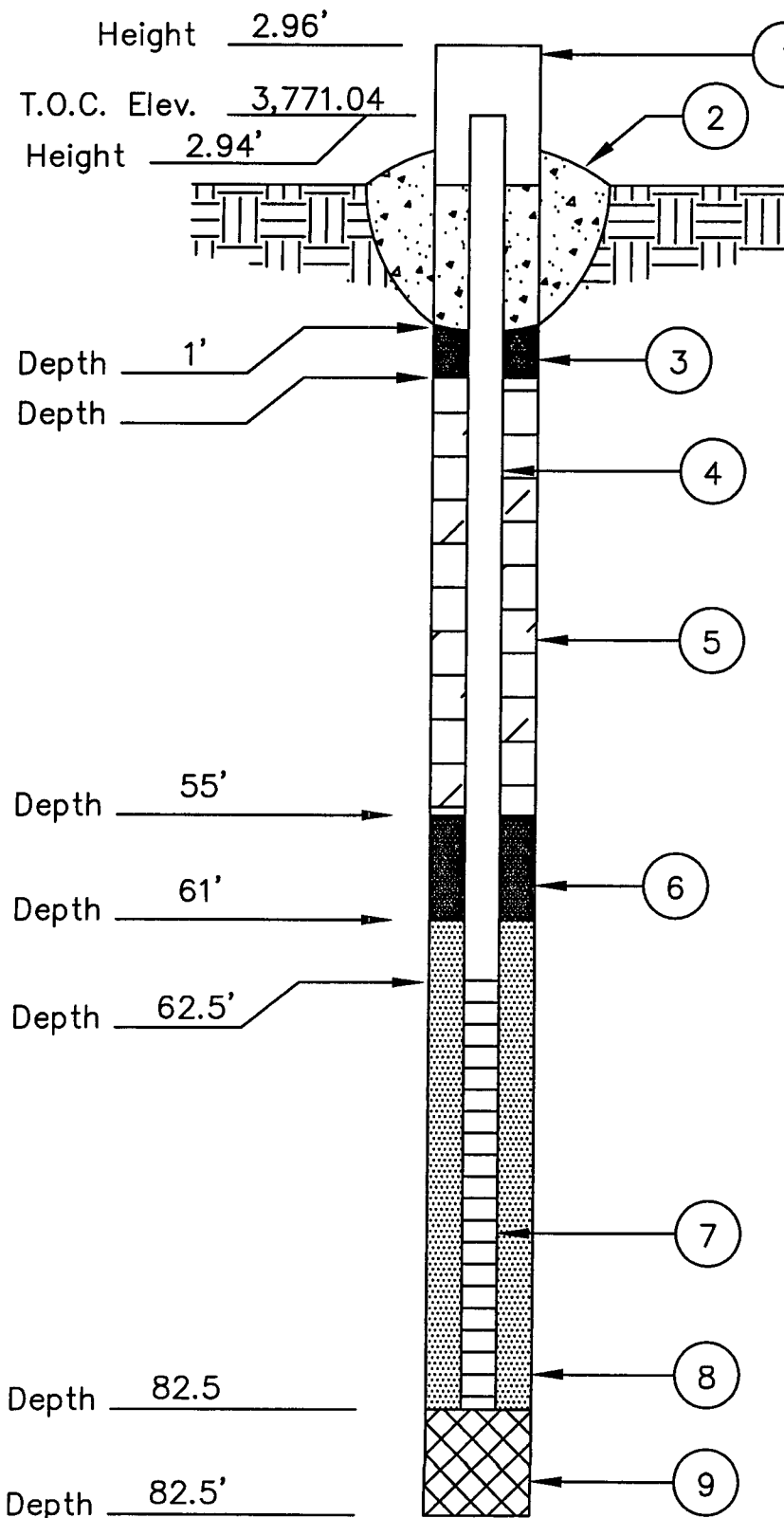
Sample # and Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Start Date: <u>10/26/04</u> Time: <u>1015</u> Completion Date: <u>10/26/04</u> Time: <u>1500</u> Description
1303	CS	48	Wet	70.6	SP	75	
						80	
						85	End of Boring at 83'
						90	
						95	
						100	

Water Level Measurements (feet)

Date	Time	Sample Depth	Casing Depth	Cave-in Depth	Water Level	Drilling Method: Air Rotary 10.25" OD
10/26/04	-	-	-	-	-	Backfill Method: MW-3 Installed
10/29/04	-	-	-	-	78.18	Field Representative: JR

Monitoring Well Construction Information Standard Well

Job No.: 2002-10273 Job Name: 8-Inch Moore to Jol #2 Boring / Well No. MW-2
Date: 10/25/04 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 62.5 ft.
Joint Type Slip/Glued or Threaded Threaded
- 5) Type of Backfill Bentonite Plug
- 6) Type of Lower Seal if Installed Sluffed Off Sand
- 7) Screen Type P.V.C.
Screen Length 20 ft.
Slot Size .020"
Length 20 ft.
Screen Diameter 2 in.
- 8) Type of Backfill around Screen 16 bags of 12/20 sand
- 9) Type of Backfill _____
- 10) Drilling Method 6.25" I.D. H.S.A.
- 11) Additives Used if any Water
- 12) Borehole Diameter 10.25" O.D. in.

(NOTE - Page 1 of 3)



ENVIRONMENTAL PLUS, Inc.
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505-384-3481

Surface Elevation: 3,768.10'

Completion Date: 10/25/04 Time: 1300

Description

0.5' Sandy Topsoil

CALICHE, White to Tan, Soft to Indurated

Sample # and Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)
						5
						10
0921	CS	36	Dry	23.8	-	15
0928	CS	48	Dry	58.8	-	20
0931	CS	60	Dry	20.6	-	25
0938	CS	60	Dry	26.3	SP	30
0946	CS	48	Dry	53.8	SP	35

Log Of Test Borings

(NOTE - Page 2 of 3)



ENVIRONMENTAL PLUS, INC.
 STATE APPROVED LAND FARM AND
 ENVIRONMENTAL SERVICES
 EUNICE, NM
 505-384-3481

Project Number: Plains All American Pipeline - 2002-10273

Project Name: 8-Inch Moore to Jal #2

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

Boring Number: MW-2

Surface Elevation: 3,768.10'

Start Date: 10/25/04 Time: 0830

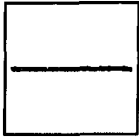
Completion Date: 10/25/04 Time: 1300

Description

Sample # and Time	Sample Type	Recovery (Inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Description
0954	CS	53	Dry	102	SP	40	Caliche Fragments Present
1005	CS	60	Damp	40.3	SP	45	
1010	CS	55	Damp	109	SP	50	
1018	CS	48	Damp	114	SP	55	
1027	CS	48	Damp	102	SP	60	
1035	CS	48	Damp	110	SP	65	
1048	CS	60	Damp	98.3	SP	70	

Log Of Test Borings

(NOTE - Page 3 of 3)



ENVIRONMENTAL PLUS, INC.
 STATE APPROVED LAND FARM AND
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 EUNICE, NM
 505-384-3481

Project Number: Plains All American Pipeline - 2002-10273

Project Name: 8-Inch Moore to Jal #2

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

Boring Number: MW-2

Surface Elevation: 3,768.10'

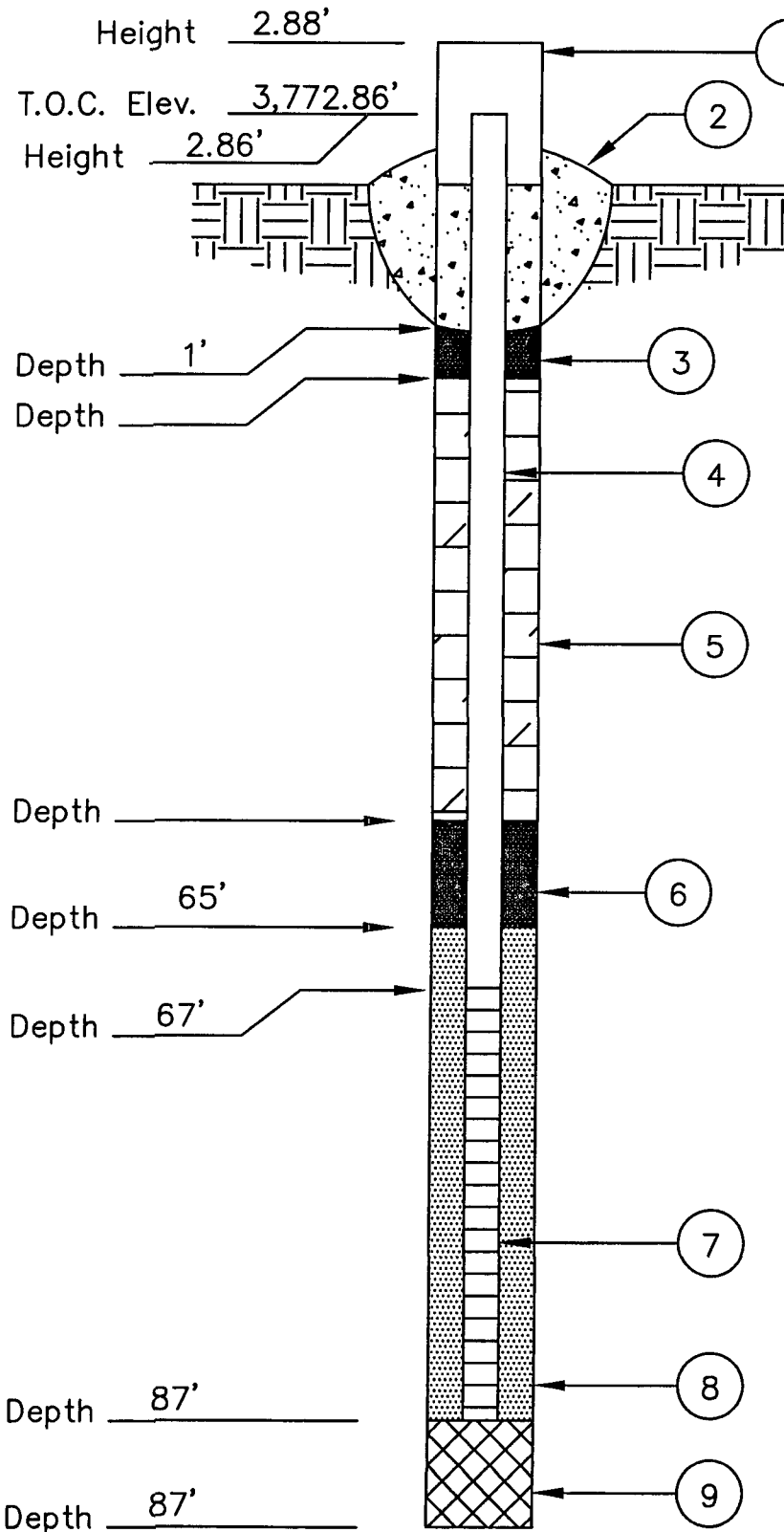
Sample # and Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Start Date: <u>10/25/04</u> Time: <u>0830</u> Completion Date: <u>10/25/04</u> Time: <u>1300</u> Description
1055	CS	36	Wet	62.4	SP	75	
						80	
						85	End of Boring at 82.5'
						90	
						95	
						100	

Water Level Measurements (feet)

Date	Time	Sample Depth	Casing Depth	Cave-in Depth	Water Level	Drilling Method: Air Rotary 10.25" OD
10/25/04	-	-	-	-	-	Backfill Method: MW-2 Installed
10/29/04	-	-	-	-	76.67	Field Representative: JR

Monitoring Well Construction Information Standard Well

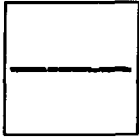
Job No.: 2002-10273 Job Name: 8-Inch Moore to Jal #2 Boring / Well No. MW-4
Date: 10/25-26/04 Field Representative: JR State Unique Well No. NA



- 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 32 bags of Bentonite Plug
- 4) Solid Pipe Type PVC
Solid Pipe Length 67 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 2 in.
- 8) Type of Backfill around Screen 13 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
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 EUNICE, NM
 505-394-3481

Project Number: Plains All American Pipeline - 2002-10273

Project Name: 8-Inch Moore to Jal #2

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

Boring Number: MW-4

Surface Elevation: 3,770.00'

Start Date: 10/25/04 Time: 1400

Completion Date: 10/26/04 Time: 0955

Description

Sample # and Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Description
						0.5'	Sandy Topsoil
						5	
1438	CS	48	Dry	40.5	-	10	CALICHE, White to Tan, Soft to Indurated
						15	
1441	CS	24	Dry	66.9	SP	20	Tan to Red Brown, Soft, Fine to Medium-Grained SAND with some trace SILT, CLAY and PEBBLES
						25	
1448	CS	60	Dry	47.6	SP	30	
						35	
1453	CS	50	Dry	71.2	SP		
1503	CS	60	Dry	54.7	SP		

Log Of Test Borings

(NOTE - Page 2 of 3)



ENVIRONMENTAL PLUS, INC.
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 ELNICE, NM
 505-394-3481

Project Number: Plains All American Pipeline - 2002-10273

Project Name: 8-Inch Moore to Jal #2

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

Boring Number: MW-4

Surface Elevation: 3,770.00'

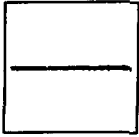
Start Date: 10/25/04 Time: 1400

Completion Date: 10/26/04 Time: 0955

Sample # and Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Description
1508	CS	24	Dry	79.8	SP	40	
1516	CS	60	Dry	76.2	SP	45	
1524	CS	48	Moist	75.3	SP	50	
1537	CS	60	Moist	90.9	SP	55	
1547	CS	60	Moist	56.8	SP	60	
1557	CS	60	Moist	63.4	SP	65	
1607	CS	60	Moist	42.0	SP	70	

Log Of Test Borings

(NOTE - Page 3 of 3)



ENVIRONMENTAL PLUS, INC.
 STATE APPROVED LAND FARM AND
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 ELUNICE, NM
 505-384-3481

Project Number: Plains All American Pipeline - 2002-10273

Project Name: 8-Inch Moore to Jal #2

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

Boring Number: MW-4

Surface Elevation: 3,770.00'

Sample # and Time	Sample Type	Recovery (Inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Start Date: <u>10/25/04</u> Time: <u>1400</u> Completion Date: <u>10/26/04</u> Time: <u>0955</u> Description
1621	CS	60	Moist	23.3	SP	75	
						80	
						85	
						90	End of Boring at 87'
						95	
						100	

Water Level Measurements (feet)

Date	Time	Sample Depth	Casing Depth	Cave-in Depth	Water Level	Drilling Method: Air Rotary 10.25" OD
10/26/04	-	-	-	-	-	Backfill Method: MW-4 Installed
10/29/04	-	-	-	-	79.22	Field Representative: JR

SOIL BORING / MONITORING WELL LOG

PROJECT: <u>Moore to Jal #2</u>	DRILLING COMPANY: <u>Talon/LPE</u>
PROJECT NUMBER: <u>PLAINS008SPL</u>	DRILLER: <u>Jose Salas</u>
CLIENT: <u>Plains Marketing, LLP.</u>	DRILLING METHOD: <u>Air Rotary</u>
BORING / WELL NUMBER: <u>MW-5</u>	BORE HOLE DIAMETER: <u>7 7/8"</u>
TOTAL DEPTH: <u>101'</u>	SCREEN: Diam. <u>4"</u> Length <u>40'</u> Slot Size <u>0.010"</u>
SURFACE ELEVATION: <u>3772.08'</u>	CASING: Diam. <u>4"</u> Length <u>61'</u> Type <u>PVC Sch 40</u>
GEOLOGIST: <u>Marc Stroupe</u>	DATE DRILLED: <u>November 16, 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			0.0				Caliche, Light Brown, 5YR 6/4, Cutting Returns - Poorly Graded Gravels, Small Rocks, No Moisture, Slight Odor	0
			840			11'		
			1050				Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Strong Odor	20
20			880					
			1040					
			1146					
			670					
40			540					40
			830					
			870					
			540					
60			440			66'		60
			890					
			310	70'-71'		71'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Odor	
			2300	75'-76'		76'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Strong Odor	
			80				Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Odor	80
			41			86'		
			18				Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Slight Odor	
			15					
100			11	100'-101'		101'3"		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 #2

DRILLING COMPANY: Talon/LPE

PROJECT NUMBER: PLAINS008SPL

DRILLER: Jose Salas

CLIENT: Plains Marketing, LLP.

DRILLING METHOD: Air Rotary

BORING / WELL NUMBER: MW-6

BORE HOLE DIAMETER: 7 7/8"

TOTAL DEPTH: 101'

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

SURFACE ELEVATION: 3772.99'

CASING: Diam. 4" Length 61' Type PVC Sch 40

GEOLOGIST: Marc Stroupe

DATE DRILLED: November 15, 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, Light Brown, 5YR 6/4, Cutting Returns - Poorly Graded Sands, Small Pebbles, No Moisture, Slight Odor	0
			0.0			6'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Slight Odor	
			0.0					
			0.0					
20			0.1					20
			0.3					
			0.7					
			1.2					
40			1.5					40
			1.9					
			1.9					
			2.0					
60			2.9					60
			4.4			66'		
			14			71'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Slight Odor	
			349				Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Odor	
80			610		80'-81'	81'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, Small Pebbles, Moist, Odor	80
			12			86'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, Pea Sized Pebbles, Moist, Odor	
			8.1			91'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, Small Pebbles, Moist, Slight Odor	
			1.8			96'	Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns - Poorly Graded Sands, Moist, Slight Odor	
100			1.2		100'-101'	101'3"	Bottom of Hole	100
120								120

REMARKS:

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SOIL BORING / MONITORING WELL LOG

PROJECT: <u>Moore to Jal #2</u>	DRILLING COMPANY: <u>Talon/LPE</u>
PROJECT NUMBER: <u>PLAINS008SPL</u>	DRILLER: <u>Jose Salas</u>
CLIENT: <u>Plains Marketing, LLP.</u>	DRILLING METHOD: <u>Air Rotary</u>
BORING / WELL NUMBER: <u>MW-7</u>	BORE HOLE DIAMETER: <u>7 7/8"</u>
TOTAL DEPTH: <u>101'</u>	SCREEN: Diam. <u>4"</u> Length <u>40'</u> Slot Size <u>0.010"</u>
SURFACE ELEVATION: <u>3772.92'</u>	CASING: Diam. <u>4"</u> Length <u>61'</u> Type <u>PVC Sch 40</u>
GEOLOGIST: <u>Marc Stroupe</u>	DATE DRILLED: <u>November 15, 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
			0.0			6'	Caliche, Light Brown, 5YR 6/4, Cutting Returns - Poorly Graded Sands, Small Pebbles, No Moisture, No Odor	
			0.0				Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, No Odor	
			0.0			16'		
20			0.0			21'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Slight Odor	20
			0.0			26'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, No Odor	
			2.1				Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Slight Odor	
			2.7					
40			0.8			41'		40
			2.9				Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Odor	
			1.7					
			2.4					
60			5.5					60
			5.2					
			9.2			71'		
			180		75'-76'		Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Strong Odor	
			140					
			18			86'		80
			31				Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, Moist, Odor	
			5.9			96'		
100			3.6		100'-101'	101'3"	Sand/Sandstone, Light Brown, 5YR 6/4, Cutting Returns - Poorly Graded Sands, Moist, Slight Odor	100
							Bottom of Hole	
120								120

REMARKS:

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SOIL BORING / MONITORING WELL LOG

PROJECT: <u>Moore to Jal #2</u>	DRILLING COMPANY: <u>Talon/LPE</u>
PROJECT NUMBER: <u>PLAINS008SPL</u>	DRILLER: <u>Jose Salas</u>
CLIENT: <u>Plains Marketing, LLP.</u>	DRILLING METHOD: <u>Air Rotary</u>
BORING / WELL NUMBER: <u>MW-8</u>	BORE HOLE DIAMETER: <u>7 7/8"</u>
TOTAL DEPTH: <u>101'</u>	SCREEN: Diam. <u>4"</u> Length <u>40'</u> Slot Size <u>0.010"</u>
SURFACE ELEVATION: <u>3773.80'</u>	CASING: Diam. <u>4"</u> Length <u>61'</u> Type <u>PVC Sch 40</u>
GEOLOGIST: <u>Mark Stroube</u>	DATE DRILLED: <u>November 15, 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
			0.0			6'	Caliche, Light Brown, 5YR 6/4, Cutting Returns - Poorly Graded Gravels, Pea Sized Pebbles, No Moisture, No Odor	
			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					
60			0.0					60
			0.0					
			0.0					
80			0.0		80'-81'			80
			0.0					
			0.0					
100			0.0		100'-101'	101'3"	Bottom of Hole	100
120								120

REMARKS:

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SOIL BORING / MONITORING WELL LOG

PROJECT: <u>Moore to Jal #2</u>	DRILLING COMPANY: <u>Talon/LPE</u>
PROJECT NUMBER: <u>PLAINS008SPL</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>101'</u>	SCREEN: Diam. <u>4"</u> Length <u>40'</u> Slot Size <u>0.010"</u>
SURFACE ELEVATION: <u>3771.79'</u>	CASING: Diam. <u>4"</u> Length <u>61'</u> Type <u>PVC Sch 40</u>
GEOLOGIST: <u>Marc Stroupe</u>	DATE DRILLED: <u>November 15, 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							Caliche, Light Brown, 5YR 5/4, Cutting Returns - Poorly Graded Sands, Small Pebbles, No Moisture, No Odor	0
			0.0			6'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, No Odor	
			0.0					
			0.0					
20			0.0					20
			0.0					
			0.0			31'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Slight Odor	
			1.0					
40			1.0					40
			2.5					
			1.8					
			6.5			61'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Odor	60
60			2.1					
			2.5			71'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Strong Odor	
			157			76'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, Moist, Odor	
			1400	75'-76'		81'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Slight Odor	80
			282					
			30					
			11.0					
			0.9					
100			3.2	100'-101'		101'3"	Bottom of Hole	100
120								120

REMARKS:

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SOIL BORING / MONITORING WELL LOG

PROJECT: <u>Moore to Jal #2</u>	DRILLING COMPANY: <u>Talon/LPE</u>
PROJECT NUMBER: <u>PLAINS008SPL</u>	DRILLER: <u>José 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>100'</u>	SCREEN: Diam. <u>4"</u> Length <u>40'</u> Slot Size <u>0.010"</u>
SURFACE ELEVATION: <u>3771.90'</u>	CASING: Diam. <u>4"</u> Length <u>60'</u> Type <u>PVC Sch 40</u>
GEOLOGIST: <u>Mark Stroube</u>	DATE DRILLED: <u>November 15, 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
			0.0			6'	Caliche, Light Brown, 5YR 6/4, Cutting Returns - Poorly Graded Sands, No Moisture, No Odor	
			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					
60			0.0					60
			0.0					
			0.0			71'		
			0.0				Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Slight Odor	
80			0.6	75'-76'		81'		80
			0.0				Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, No Odor	
			0.0					
			0.0					
100			0.0			101'3"		100
			0.0	100'-101'			Bottom of Hole	
120								120

REMARKS:

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SOIL BORING / MONITORING WELL LOG

PROJECT: <u>Moore to Jal #2</u>	DRILLING COMPANY: <u>Talon/LPE</u>
PROJECT NUMBER: <u>PLAINS008SPL</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>101'</u>	SCREEN: Diam. <u>4"</u> Length <u>40'</u> Slot Size <u>0.010"</u>
SURFACE ELEVATION: <u>3772.97'</u>	CASING: Diam. <u>4"</u> Length <u>60'</u> Type <u>PVC Sch 40</u>
GEOLOGIST: <u>Mark Stroube</u>	DATE DRILLED: <u>November 14, 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
			0.0			6'	Caliche, Light Brown, 5YR 6/4, Cutting Returns - Poorly Graded Sands, No Moisture, No Odor	
			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					
60			0.0					60
			0.0					
			0.0			71'		
			0.0			76'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Slight Odor	
			0.0		75'-76'	81'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, No Odor	80
			0.0			86'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Gravels, Small Pebbles, No Moisture, No Odor	
			0.0				Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, No Odor	
100			0.0		100'-101'	101'3"	Bottom of Hole	100
120								120

REMARKS:

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SOIL BORING / MONITORING WELL LOG

PROJECT: <u>Moore to Jal #2</u>	DRILLING COMPANY: <u>Talon/LPE</u>
PROJECT NUMBER: <u>PLAINS008SPL</u>	DRILLER: <u>José Salas</u>
CLIENT: <u>Plains Marketing, LLP.</u>	DRILLING METHOD: <u>Air Rotary</u>
BORING / WELL NUMBER: <u>MW-12</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>3773.80'</u>	CASING: Diam. <u>4"</u> Length <u>60'</u> Type <u>PVC Sch 40</u>
GEOLOGIST: <u>Mark Stroube</u>	DATE DRILLED: <u>November 14, 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							Caliche, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, No Odor	0
			0.0			6'		
			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 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					
60			0.0					60
			0.0					
			0.0					
80			0.0			81'		80
			0.0	80'-81'		86'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, Moist, No Odor	
			0.0				Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Gravels, Pea Sized Pebbles, No Moisture, No Odor	
			0.0			96'		
100			0.0			100'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, Moist, No Odor	100
			0.0	100'-101'			Bottom of Hole	
120								120

REMARKS:

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SOIL BORING / MONITORING WELL LOG

PROJECT: <u>Moore to Jal #2</u>	DRILLING COMPANY: <u>Talon/LPE</u>
PROJECT NUMBER: <u>PLAINS008SPL</u>	DRILLER: <u>Jose Salas</u>
CLIENT: <u>Plains Marketing, LLP</u>	DRILLING METHOD: <u>Air Rotary</u>
BORING / WELL NUMBER: <u>MW-13</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>3774.36'</u>	CASING: Diam. <u>4"</u> Length <u>60'</u> Type <u>PVC Sch 40</u>
GEOLOGIST: <u>Marc Stroupe</u>	DATE DRILLED: <u>November 14, 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
			0.0			6'	Caliche, Light Brown, 5YR 6/4, Cutting Returns - Poorly Graded Gravels, Small Gravel, No Moisture, No Odor	
			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					
60			0.0					60
			0.0					
			0.0					
80			1.0		80'-81'	81'		80
			0.1			86'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, No Moisture, Slight Odor	
			0.0			91'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Sands, Small Pebbles, Moist, No Odor	
			0.0			96'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Gravels, Marble Sized Pebbles, Moist, No Odor	
100			0.0		100'-101'	100'	Sand/Sandstone, Light Brown, 5YR 5/6, Cutting Returns - Poorly Graded Gravels Pea Sized Pebbles, No Moisture, No Odor	100
							Bottom of Hole	
120								120

REMARKS:

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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



APPENDIX B

Laboratory Reports





12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Location: UL-J, Section 6 T17S, R37E

Lab Order Number: 4G29006

Report Date: 08/04/04

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

Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:

08/04/04 12:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2002-10273 MW-1 (20')	4G29006-01	Soil	07/27/04 09:17	07/29/04 10:50
2002-10273 MW-1 (40')	4G29006-02	Soil	07/27/04 09:37	07/29/04 10:50
2002-10273 MW-1 (80')	4G29006-03	Soil	07/27/04 10:55	07/29/04 10:50

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

Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914
Reported:
08/04/04 12:23

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
2002-10273 MW-1 (20') (4G29006-01) Soil									
Benzene	91.7	0.100	mg/kg dry	100	EH40207	07/30/04	07/30/04	EPA 8021B	
Toluene	155	0.100	"	"	"	"	"	"	
Ethylbenzene	77.9	0.100	"	"	"	"	"	"	
Xylene (p/m)	98.9	0.100	"	"	"	"	"	"	
Xylene (o)	48.0	0.100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		1870 %	80-120		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		110 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	5660	10.0	mg/kg dry	1	EG42903	07/29/04	08/03/04	EPA 8015M	
Diesel Range Organics >C12-C35	3930	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	9590	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		173 %	70-130		"	"	"	"	S-04
<i>Surrogate: 1-Chlorooctadecane</i>		116 %	70-130		"	"	"	"	
2002-10273 MW-1 (40') (4G29006-02) Soil									
Benzene	57.4	0.200	mg/kg dry	200	EH40207	07/30/04	07/30/04	EPA 8021B	
Toluene	142	0.200	"	"	"	"	"	"	
Ethylbenzene	69.4	0.200	"	"	"	"	"	"	
Xylene (p/m)	106	0.200	"	"	"	"	"	"	
Xylene (o)	46.7	0.200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		936 %	80-120		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		122 %	80-120		"	"	"	"	S-04
Gasoline Range Organics C6-C12	7300	10.0	mg/kg dry	1	EG42903	07/29/04	08/03/04	EPA 8015M	
Diesel Range Organics >C12-C35	4860	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	12200	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		189 %	70-130		"	"	"	"	S-04
<i>Surrogate: 1-Chlorooctadecane</i>		124 %	70-130		"	"	"	"	
2002-10273 MW-1 (80') (4G29006-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH40207	07/30/04	07/30/04	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>		81.7 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		86.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG42903	07/29/04	08/03/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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Page 2 of 11

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

Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
08/04/04 12:23

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
2002-10273 MW-1 (80') (4G29006-03) Soil									
Surrogate: 1-Chlorooctane		96.8 %	70-130		EG42903	07/29/04	08/03/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		87.0 %	70-130		"	"	"	"	

Plains All American EH & S
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Reported:
08/04/04 12:23

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
2002-10273 MW-1 (20') (4G29006-01) Soil									
% Solids	94.0		%	1	EG43009	07/29/04	07/29/04	% calculation	
2002-10273 MW-1 (40') (4G29006-02) Soil									
% Solids	96.0		%	1	EG43009	07/29/04	07/29/04	% calculation	
2002-10273 MW-1 (80') (4G29006-03) Soil									
% Solids	90.0		%	1	EG43009	07/29/04	07/29/04	% calculation	

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Reported:
08/04/04 12:23

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
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Batch EG42903 - Solvent Extraction (GC)

Blank (EG42903-BLK1)

Prepared: 07/29/04 Analyzed: 08/02/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	45.4		mg/kg	50.0		90.8	70-130			
Surrogate: 1-Chlorooctadecane	37.2		"	50.0		74.4	70-130			

Blank (EG42903-BLK2)

Prepared: 07/29/04 Analyzed: 08/03/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	52.8		mg/kg	50.0		106	70-130			
Surrogate: 1-Chlorooctadecane	36.8		"	50.0		73.6	70-130			

LCS (EG42903-BS1)

Prepared: 07/29/04 Analyzed: 08/02/04

Gasoline Range Organics C6-C12	25.7	10.0	mg/kg wet	25.0		103	75-125			
Diesel Range Organics >C12-C35	27.6	10.0	"	25.0		110	75-125			
Total Hydrocarbon C6-C35	53.3	10.0	"	50.0		107	75-125			
Surrogate: 1-Chlorooctane	37.4		mg/kg	50.0		74.8	70-130			
Surrogate: 1-Chlorooctadecane	37.5		"	50.0		75.0	70-130			

LCS (EG42903-BS2)

Prepared: 07/29/04 Analyzed: 08/03/04

Gasoline Range Organics C6-C12	27.9	10.0	mg/kg wet	25.0		112	75-125			
Diesel Range Organics >C12-C35	27.9	10.0	"	25.0		112	75-125			
Total Hydrocarbon C6-C35	55.8	10.0	"	50.0		112	75-125			
Surrogate: 1-Chlorooctane	53.1		mg/kg	50.0		106	70-130			
Surrogate: 1-Chlorooctadecane	35.4		"	50.0		70.8	70-130			

Calibration Check (EG42903-CCV1)

Prepared: 07/29/04 Analyzed: 08/02/04

Gasoline Range Organics C6-C12	43.3		mg/kg	50.0		86.6	80-120			
Diesel Range Organics >C12-C35	45.6		"	50.0		91.2	80-120			
Total Hydrocarbon C6-C35	88.9		"	100		88.9	80-120			
Surrogate: 1-Chlorooctane	40.5		"	50.0		81.0	70-130			
Surrogate: 1-Chlorooctadecane	35.4		"	50.0		70.8	70-130			

Plains All American EH & S
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Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
08/04/04 12:23

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 EG42903 - Solvent Extraction (GC)

Calibration Check (EG42903-CCV2)

Prepared: 07/29/04 Analyzed: 08/03/04

Gasoline Range Organics C6-C12	54.0		mg/kg	50.0		108	80-120			
Diesel Range Organics >C12-C35	52.2		"	50.0		104	80-120			
Total Hydrocarbon C6-C35	106		"	100		106	80-120			
Surrogate: 1-Chlorooctane	51.9		"	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	35.1		"	50.0		70.2	70-130			

Matrix Spike (EG42903-MS1)

Source: 4G29002-09

Prepared: 07/29/04 Analyzed: 08/03/04

Gasoline Range Organics C6-C12	478	10.0	mg/kg dry	532	ND	89.8	75-125			
Diesel Range Organics >C12-C35	491	10.0	"	532	13.7	89.7	75-125			
Total Hydrocarbon C6-C35	969	10.0	"	1060	13.7	90.1	75-125			
Surrogate: 1-Chlorooctane	63.9		mg/kg	50.0		128	70-130			
Surrogate: 1-Chlorooctadecane	35.1		"	50.0		70.2	70-130			

Matrix Spike (EG42903-MS2)

Source: 4G29007-02

Prepared: 07/29/04 Analyzed: 08/03/04

Gasoline Range Organics C6-C12	605	10.0	mg/kg dry	568	ND	107	75-125			
Diesel Range Organics >C12-C35	558	10.0	"	568	ND	98.2	75-125			
Total Hydrocarbon C6-C35	1160	10.0	"	1140	ND	102	75-125			
Surrogate: 1-Chlorooctane	56.2		mg/kg	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	38.2		"	50.0		76.4	70-130			

Matrix Spike Dup (EG42903-MSD1)

Source: 4G29002-09

Prepared: 07/29/04 Analyzed: 08/03/04

Gasoline Range Organics C6-C12	568	10.0	mg/kg dry	532	ND	107	75-125	17.2	20	
Diesel Range Organics >C12-C35	568	10.0	"	532	13.7	104	75-125	14.5	20	
Total Hydrocarbon C6-C35	1140	10.0	"	1060	13.7	106	75-125	16.2	20	
Surrogate: 1-Chlorooctane	64.4		mg/kg	50.0		129	70-130			
Surrogate: 1-Chlorooctadecane	47.7		"	50.0		95.4	70-130			

Matrix Spike Dup (EG42903-MSD2)

Source: 4G29007-02

Prepared: 07/29/04 Analyzed: 08/03/04

Gasoline Range Organics C6-C12	536	10.0	mg/kg dry	568	ND	94.4	75-125	12.1	20	
Diesel Range Organics >C12-C35	576	10.0	"	568	ND	101	75-125	3.17	20	
Total Hydrocarbon C6-C35	1110	10.0	"	1140	ND	97.4	75-125	4.41	20	
Surrogate: 1-Chlorooctane	60.5		mg/kg	50.0		121	70-130			
Surrogate: 1-Chlorooctadecane	37.5		"	50.0		75.0	70-130			

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

Project: 8 inch Moore to Jal #2
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Project Manager: Jimmy Bryant

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Reported:
08/04/04 12:23

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
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Batch EH40207 - EPA 5030C (GC)

Blank (EH40207-BLK1)

Prepared & Analyzed: 07/30/04

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	89.2		ug/kg	100		89.2	80-120			
Surrogate: 4-Bromofluorobenzene	90.6		"	100		90.6	80-120			

LCS (EH40207-BS1)

Prepared & Analyzed: 07/30/04

Benzene	106		ug/kg	100		106	80-120			
Toluene	102		"	100		102	80-120			
Ethylbenzene	99.7		"	100		99.7	80-120			
Xylene (p/m)	210		"	200		105	80-120			
Xylene (o)	107		"	100		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	104		"	100		104	80-120			
Surrogate: 4-Bromofluorobenzene	103		"	100		103	80-120			

Calibration Check (EH40207-CCV1)

Prepared: 07/30/04 Analyzed: 07/31/04

Benzene	104		ug/kg	100		104	80-120			
Toluene	101		"	100		101	80-120			
Ethylbenzene	95.4		"	100		95.4	80-120			
Xylene (p/m)	203		"	200		102	80-120			
Xylene (o)	106		"	100		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	93.2		"	100		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	92.1		"	100		92.1	80-120			

Matrix Spike (EH40207-MS1)

Source: 4G29006-03

Prepared & Analyzed: 07/30/04

Benzene	102		ug/kg	100	ND	102	80-120			
Toluene	98.2		"	100	ND	98.2	80-120			
Ethylbenzene	95.6		"	100	ND	95.6	80-120			
Xylene (p/m)	206		"	200	ND	103	80-120			
Xylene (o)	104		"	100	ND	104	80-120			
Surrogate: a,a,a-Trifluorotoluene	99.4		"	100		99.4	80-120			
Surrogate: 4-Bromofluorobenzene	101		"	100		101	80-120			

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

Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
08/04/04 12:23

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
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Batch EH40207 - EPA 5030C (GC)

Matrix Spike Dup (EH40207-MSD1)

Source: 4G29006-03

Prepared & Analyzed: 07/30/04

Benzene	106		ug/kg	100	ND	106	80-120	3.85	20	
Toluene	102		"	100	ND	102	80-120	3.80	20	
Ethylbenzene	99.9		"	100	ND	99.9	80-120	4.40	20	
Xylene (p/m)	213		"	200	ND	106	80-120	2.87	20	
Xylene (o)	108		"	100	ND	108	80-120	3.77	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	98.9		"	100		98.9	80-120			
Surrogate: 4-Bromofluorobenzene	96.6		"	100		96.6	80-120			

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

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Fax: (432) 687-4914

Reported:
08/04/04 12:23

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG43009 - General Preparation (Prep)

Blank (EG43009-BLK1)

Prepared & Analyzed: 07/29/04

% Solids	100	%
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Duplicate (EG43009-DUP1)

Source: 4G29001-01

Prepared & Analyzed: 07/29/04

% Solids	87.0	%	87.0	0.00	20
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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
08/04/04 12:23

Notes and Definitions

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

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

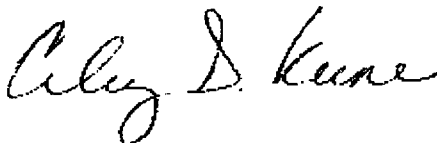
LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: _____

Date: 08/04/04 12:23



Raland K. Tuttle, QA Officer
Celey D. Keene, Lab Director, Org. Tech Director
Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist
Sara Molina, Chemist
Sandra Biezugbe, Lab Tech.

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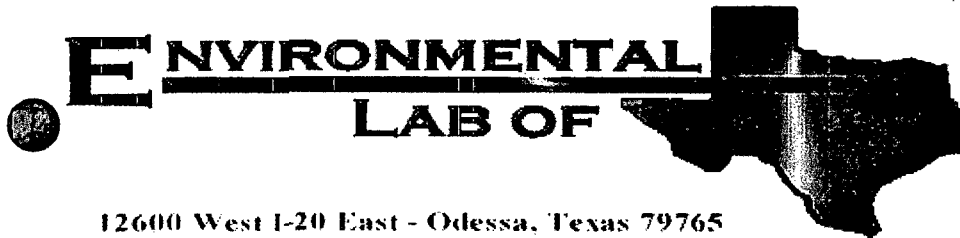
If you have received this material in error, please notify us immediately at 432-563-1800.

Plains All American EH & S
1301 S. County Road 1150
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Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
08/04/04 12:23



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Daniel Bryant

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: 8 inch Moore #2

Project Number: 2002-10273

Location: None Given

Lab Order Number: 4J29003

Report Date: 11/05/04

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

Project: 8 inch Moore #2
Project Number: 2002-10273
Project Manager: Daniel Bryant

Fax: (432) 687-4914

Reported:
11/05/04 10:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2 (10-15)	4J29003-01	Soil	10/25/04 09:21	10/29/04 11:03
MW-2 (35-40)	4J29003-02	Soil	10/25/04 09:54	10/29/04 11:03
MW-2 (65-70)	4J29003-03	Soil	10/25/04 10:46	10/29/04 11:03
MW-3 (15-20)	4J29003-04	Soil	10/26/04 10:44	10/29/04 11:03
MW-3 (40-45)	4J29003-05	Soil	10/26/04 11:27	10/29/04 11:03
MW-3 (65-70)	4J29003-06	Soil	10/26/04 12:48	10/29/04 11:03
MW-4 (25-30)	4J29003-07	Soil	10/25/04 14:53	10/29/04 11:03
MW-4 (50-55)	4J29003-08	Soil	10/25/04 15:37	10/29/04 11:03
MW-4 (70-75)	4J29003-09	Soil	10/25/04 16:07	10/29/04 11:03

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1301 S. County Road 1150
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Project: 8 inch Moore #2
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Fax: (432) 687-4914

Reported:
11/05/04 10:22

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (10-15) (4J29003-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK40306	11/02/04	11/03/04	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>		88.6 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.9 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ42907	10/29/04	10/30/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		81.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		88.8 %	70-130		"	"	"	"	
MW-2 (35-40) (4J29003-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK40306	11/02/04	11/02/04	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>		92.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ42907	10/29/04	10/30/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		85.2 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		98.2 %	70-130		"	"	"	"	
MW-2 (65-70) (4J29003-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK40306	11/02/04	11/02/04	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>		84.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		90.7 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ42907	10/29/04	10/30/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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Page 2 of 12

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

Project: 8 inch Moore #2
Project Number: 2002-10273
Project Manager: Daniel Bryant

Fax: (432) 687-4914

Reported:
11/05/04 10:22

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (65-70) (4J29003-03) Soil									
Surrogate: 1-Chlorooctane		90.0 %	70-130		EJ42907	10/29/04	10/30/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		91.6 %	70-130		"	"	"	"	
MW-3 (15-20) (4J29003-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK40306	11/02/04	11/03/04	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		89.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ42907	10/29/04	10/30/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		100 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		119 %	70-130		"	"	"	"	
MW-3 (40-45) (4J29003-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK40306	11/02/04	11/02/04	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		84.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ42907	10/29/04	10/30/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		99.6 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Page 3 of 12

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

Project: 8 inch Moore #2
Project Number: 2002-10273
Project Manager: Daniel Bryant

Fax: (432) 687-4914

Reported:
11/05/04 10:22

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (65-70) (4J29003-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK40306	11/02/04	11/02/04	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		88.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ42907	10/29/04	10/30/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		103 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		122 %	70-130		"	"	"	"	
MW-4 (25-30) (4J29003-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK40306	11/02/04	11/02/04	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		85.4 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ42907	10/29/04	10/30/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		100 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		120 %	70-130		"	"	"	"	
MW-4 (50-55) (4J29003-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK40306	11/02/04	11/03/04	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		80.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.7 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ42907	10/29/04	10/30/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

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 #2
Project Number: 2002-10273
Project Manager: Daniel Bryant

Fax: (432) 687-4914

Reported:
11/05/04 10:22

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (50-55) (4J29003-08) Soil									
Surrogate: 1-Chlorooctane		97.4 %	70-130		EJ42907	10/29/04	10/30/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		109 %	70-130		"	"	"	"	
MW-4 (70-75) (4J29003-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK40306	11/02/04	11/03/04	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		85.9 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ42907	10/29/04	10/30/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		105 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		122 %	70-130		"	"	"	"	

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

Project: 8 inch Moore #2
Project Number: 2002-10273
Project Manager: Daniel Bryant

Fax: (432) 687-4914

Reported:
11/05/04 10:22

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (10-15) (4J29003-01) Soil									
% Moisture	3.0		%	1	EK40102	11/01/04	11/01/04	% calculation	
MW-2 (35-40) (4J29003-02) Soil									
% Moisture	2.0		%	1	EK40102	11/01/04	11/01/04	% calculation	
MW-2 (65-70) (4J29003-03) Soil									
% Moisture	4.0		%	1	EK40102	11/01/04	11/01/04	% calculation	
MW-3 (15-20) (4J29003-04) Soil									
% Moisture	5.0		%	1	EK40102	11/01/04	11/01/04	% calculation	
MW-3 (40-45) (4J29003-05) Soil									
% Moisture	6.0		%	1	EK40102	11/01/04	11/01/04	% calculation	
MW-3 (65-70) (4J29003-06) Soil									
% Moisture	4.0		%	1	EK40102	11/01/04	11/01/04	% calculation	
MW-4 (25-30) (4J29003-07) Soil									
% Moisture	3.0		%	1	EK40102	11/01/04	11/01/04	% calculation	
MW-4 (50-55) (4J29003-08) Soil									
% Moisture	4.0		%	1	EK40102	11/01/04	11/01/04	% calculation	
MW-4 (70-75) (4J29003-09) Soil									
% Moisture	4.0		%	1	EK40102	11/01/04	11/01/04	% calculation	

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 #2
Project Number: 2002-10273
Project Manager: Daniel Bryant

Fax: (432) 687-4914

Reported:
11/05/04 10:22

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
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Batch EJ42907 - Solvent Extraction (GC)

Blank (EJ42907-BLK1)

Prepared & Analyzed: 10/29/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	44.5		mg/kg	50.0		89.0	70-130			
Surrogate: 1-Chlorooctadecane	48.5		"	50.0		97.0	70-130			

Blank (EJ42907-BLK2)

Prepared: 10/29/04 Analyzed: 10/30/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.2	70-130			
Surrogate: 1-Chlorooctadecane	48.8		"	50.0		97.6	70-130			

LCS (EJ42907-BS1)

Prepared & Analyzed: 10/29/04

Gasoline Range Organics C6-C12	473	10.0	mg/kg wet	500		94.6	75-125			
Diesel Range Organics >C12-C35	518	10.0	"	500		104	75-125			
Total Hydrocarbon C6-C35	991	10.0	"	1000		99.1	75-125			
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	46.5		"	50.0		93.0	70-130			

LCS (EJ42907-BS2)

Prepared: 10/29/04 Analyzed: 10/30/04

Gasoline Range Organics C6-C12	518	10.0	mg/kg wet	500		104	75-125			
Diesel Range Organics >C12-C35	540	10.0	"	500		108	75-125			
Total Hydrocarbon C6-C35	1060	10.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	57.9		mg/kg	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	60.2		"	50.0		120	70-130			

LCS Dup (EJ42907-BSD2)

Prepared: 10/29/04 Analyzed: 10/30/04

Gasoline Range Organics C6-C12	502	10.0	mg/kg wet	500		100	75-125	3.14	20	
Diesel Range Organics >C12-C35	551	10.0	"	500		110	75-125	2.02	20	
Total Hydrocarbon C6-C35	1050	10.0	"	1000		105	75-125	0.948	20	
Surrogate: 1-Chlorooctane	56.2		mg/kg	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	58.8		"	50.0		118	70-130			

Plains All American EH & S
1301 S. County Road 1150
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Project: 8 inch Moore #2
Project Number: 2002-10273
Project Manager: Daniel Bryant

Fax: (432) 687-4914

Reported:
11/05/04 10:22

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
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Batch EJ42907 - Solvent Extraction (GC)

Calibration Check (EJ42907-CCV1)

Prepared & Analyzed: 10/29/04

Gasoline Range Organics C6-C12	492		mg/kg	500		98.4	80-120			
Diesel Range Organics >C12-C35	506		"	500		101	80-120			
Total Hydrocarbon C6-C35	998		"	1000		99.8	80-120			
Surrogate: 1-Chlorooctane	50.0		"	50.0		100	70-130			
Surrogate: 1-Chlorooctadecane	48.0		"	50.0		96.0	70-130			

Calibration Check (EJ42907-CCV2)

Prepared: 10/29/04 Analyzed: 10/30/04

Gasoline Range Organics C6-C12	500		mg/kg	500		100	80-120			
Diesel Range Organics >C12-C35	559		"	500		112	80-120			
Total Hydrocarbon C6-C35	1060		"	1000		106	80-120			
Surrogate: 1-Chlorooctane	57.4		"	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	60.6		"	50.0		121	70-130			

Matrix Spike (EJ42907-MS1)

Source: 4J29003-04

Prepared: 10/29/04 Analyzed: 10/30/04

Gasoline Range Organics C6-C12	571	10.0	mg/kg dry	526	ND	109	75-125			
Diesel Range Organics >C12-C35	597	10.0	"	526	ND	113	75-125			
Total Hydrocarbon C6-C35	1170	10.0	"	1050	ND	111	75-125			
Surrogate: 1-Chlorooctane	57.9		mg/kg	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	61.9		"	50.0		124	70-130			

Matrix Spike Dup (EJ42907-MSD1)

Source: 4J29003-04

Prepared: 10/29/04 Analyzed: 10/30/04

Gasoline Range Organics C6-C12	566	10.0	mg/kg dry	526	ND	108	75-125	0.880	20	
Diesel Range Organics >C12-C35	548	10.0	"	526	ND	104	75-125	8.56	20	
Total Hydrocarbon C6-C35	1110	10.0	"	1050	ND	106	75-125	5.26	20	
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	53.5		"	50.0		107	70-130			

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

Project: 8 inch Moore #2
Project Number: 2002-10273
Project Manager: Daniel Bryant

Fax: (432) 687-4914

Reported:
11/05/04 10:22

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
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Batch EK40306 - EPA 5030C (GC)

Blank (EK40306-BLK1)

Prepared & Analyzed: 11/02/04

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: <i>a,a,a</i> -Trifluorotoluene	85.1		ug/kg	100		85.1	80-120			
Surrogate: 4-Bromofluorobenzene	95.3		"	100		95.3	80-120			

LCS (EK40306-BS1)

Prepared & Analyzed: 11/02/04

Benzene	95.3		ug/kg	100		95.3	80-120			
Toluene	99.5		"	100		99.5	80-120			
Ethylbenzene	103		"	100		103	80-120			
Xylene (p/m)	228		"	200		114	80-120			
Xylene (o)	107		"	100		107	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	105		"	100		105	80-120			
Surrogate: 4-Bromofluorobenzene	115		"	100		115	80-120			

Calibration Check (EK40306-CCV1)

Prepared: 11/02/04 Analyzed: 11/03/04

Benzene	93.8		ug/kg	100		93.8	80-120			
Toluene	95.6		"	100		95.6	80-120			
Ethylbenzene	89.3		"	100		89.3	80-120			
Xylene (p/m)	197		"	200		98.5	80-120			
Xylene (o)	92.9		"	100		92.9	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	106		"	100		106	80-120			
Surrogate: 4-Bromofluorobenzene	100		"	100		100	80-120			

Matrix Spike (EK40306-MS1)

Source: 4K01005-01

Prepared: 11/02/04 Analyzed: 11/03/04

Benzene	92.0		ug/kg	100	ND	92.0	80-120			
Toluene	93.6		"	100	ND	93.6	80-120			
Ethylbenzene	97.3		"	100	ND	97.3	80-120			
Xylene (p/m)	217		"	200	ND	108	80-120			
Xylene (o)	104		"	100	ND	104	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	102		"	100		102	80-120			
Surrogate: 4-Bromofluorobenzene	116		"	100		116	80-120			

Environmental Lab of Texas

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Page 9 of 12

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

Project: 8 inch Moore #2
Project Number: 2002-10273
Project Manager: Daniel Bryant

Fax: (432) 687-4914

Reported:
11/05/04 10:22

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
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Batch EK40306 - EPA 5030C (GC)

Matrix Spike Dup (EK40306-MSD1)

Source: 4K01005-01

Prepared: 11/02/04 Analyzed: 11/03/04

Benzene	93.1		ug/kg	100	ND	93.1	80-120	1.19	20	
Toluene	96.4		"	100	ND	96.4	80-120	2.95	20	
Ethylbenzene	98.0		"	100	ND	98.0	80-120	0.717	20	
Xylene (p/m)	218		"	200	ND	109	80-120	0.922	20	
Xylene (o)	103		"	100	ND	103	80-120	0.966	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	97.9		"	100		97.9	80-120			
Surrogate: <i>4</i> -Bromofluorobenzene	112		"	100		112	80-120			

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

Project: 8 inch Moore #2
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Fax: (432) 687-4914

Reported:
11/05/04 10:22

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

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

Batch EK40102 - General Preparation (Prep)

Blank (EK40102-BLK1)

Prepared & Analyzed: 11/01/04

% Moisture 0.0 %

Duplicate (EK40102-DUP1)

Source: 4J29002-01

Prepared & Analyzed: 11/01/04

% Moisture 8.0 % 8.0 0.00 20

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

Project: 8 inch Moore #2
Project Number: 2002-10273
Project Manager: Daniel Bryant

Fax: (432) 687-4914

Reported:
11/05/04 10:22

Notes and Definitions

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

Report Approved By:

Raland K. Tuttle

Date:

11/5/2004

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

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Biezugbe, Lab Tech.

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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
(915) 563-1800 FAX: (915) 563-1713

Chain of Custody Form

Company Name Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST															
EPI Project Manager Iain Olness		PLAINS ALL-AMERICAN PIPELINE, L.P.																	
Mailing Address P.O. BOX 1558		Attn: ENV Accounts Payable																	
City, State, Zip Eunice New Mexico 88231		PO Box 4648,																	
EPI Phone#/Fax# 505-394-3481 / 505-394-2601		Houston, TX 77210-4648																	
Client Company Plains All American																			
Facility Name 8" Moore #2 (Ref. #2002-10273)																			
Project Reference 2002-10273																			
EPI Sampler Name John Robinson																			
LAB I.D.	SAMPLE I.D.	MATRIX				PRESERV.			SAMPLING		TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ⁼)	PH	TCLP	OTHER >>>	PAH		
		GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER								DATE	TIME
-01	MW-2 (10-15)	C	1									X							
-02	MW-2 (35-40)	C	1									X							
-03	MW-2 (65-70)	C	1									X							
-04	MW-3 (15-20)	C	1									X							
-05	MW-3 (40-45)	C	1									X							
-06	MW-3 (65-70)	C	1									X							
-07	MW-4 (25-30)	C	1									X							
-08	MW-4 (50-55)	C	1									X							
-09	MW-4 (65-70)	C	1									X							
-10	MW-4 (70-75)	C	1									X							
Samples Requested by: <i>Iain Olness</i>		Received By: <i>Speed No 2</i>		E-mail results to: iolness@hotmail.com															
Relinquished by: <i>Speed No 2</i>		Received By: (lab staff) <i>James Murray</i>		REMARKS: 3.5' c 4oz glass on ice															
Delivered by:		Sample Cool & Intact Yes No		Checked By:															

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Plains P/L

Date/Time: 10-29-04 @ 1115

Order #: 4 J29003

Initials: JMM

Sample Receipt Checklist

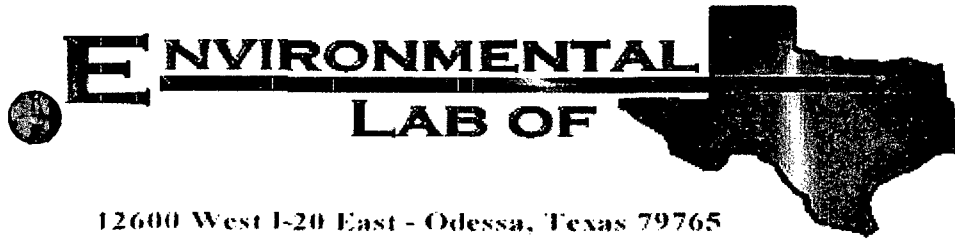
Temperature of container/cooler?	☒ Yes	☐ No	3.5	C
Shipping container/cooler in good condition?	☒ Yes	☐ No		
Custody Seals intact on shipping container/cooler?	☐ Yes	☐ No	Not present	
Custody Seals intact on sample bottles?	☐ Yes	☐ No	Not present	
Chain of custody present?	☒ Yes	☐ No		
Sample Instructions complete on Chain of Custody?	☒ Yes	☐ No		
Chain of Custody signed when relinquished and received?	☒ Yes	☐ No		
Chain of custody agrees with sample label(s)	☒ Yes	☐ No		
Container labels legible and intact?	☒ Yes	☐ No		
Sample Matrix and properties same as on chain of custody?	☒ Yes	☐ No		
Samples in proper container/bottle?	☒ Yes	☐ No		
Samples properly preserved?	☒ Yes	☐ No		
Sample bottles intact?	☒ Yes	☐ No		
Preservations documented on Chain of Custody?	☒ Yes	☐ No		
Containers documented on Chain of Custody?	☒ Yes	☐ No		
Sufficient sample amount for indicated test?	☒ Yes	☐ No		
All samples received within sufficient hold time?	☒ Yes	☐ No		
VOC samples have zero headspace?	☒ Yes	☐ No	Not Applicable	

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Jimmy Bryant

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: 8 inch Moore to Jal #2

Project Number: 2002-10273

Location: None Given

Lab Order Number: 5F03005

Report Date: 06/07/05

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

Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/07/05 14:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WW-N-01	5F03005-01	Soil	06/03/05 09:42	06/03/05 15:55
WW-S-01	5F03005-02	Soil	06/03/05 09:53	06/03/05 15:55

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

Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/07/05 14:04

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WW-N-01 (5F03005-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF50315	06/03/05	06/03/05	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		81.7 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF50304	06/03/05	06/03/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		83.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		88.0 %	70-130		"	"	"	"	
WW-S-01 (5F03005-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF50315	06/03/05	06/03/05	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		84.9 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF50304	06/03/05	06/03/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		80.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		81.2 %	70-130		"	"	"	"	

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

Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/07/05 14:04

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WW-N-01 (5F03005-01) Soil									
% Moisture	3.4	0.1	%	1	EF50604	06/03/05	06/06/05	% calculation	
WW-S-01 (5F03005-02) Soil									
% Moisture	4.7	0.1	%	1	EF50604	06/03/05	06/06/05	% calculation	

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

Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/07/05 14:04

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 EF50304 - Solvent Extraction (GC)										
Blank (EF50304-BLK1)										
Prepared & Analyzed: 06/03/05										
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	37.1		mg/kg	50.0		74.2	70-130			
Surrogate: 1-Chlorooctadecane	39.3		"	50.0		78.6	70-130			
LCS (EF50304-BS1)										
Prepared & Analyzed: 06/03/05										
Gasoline Range Organics C6-C12	460	10.0	mg/kg wet	500		92.0	75-125			
Diesel Range Organics >C12-C35	466	10.0	"	500		93.2	75-125			
Total Hydrocarbon C6-C35	926	10.0	"	1000		92.6	75-125			
Surrogate: 1-Chlorooctane	35.8		mg/kg	50.0		71.6	70-130			
Surrogate: 1-Chlorooctadecane	37.6		"	50.0		75.2	70-130			
Calibration Check (EF50304-CCV1)										
Prepared & Analyzed: 06/03/05										
Gasoline Range Organics C6-C12	493		mg/kg	500		98.6	80-120			
Diesel Range Organics >C12-C35	520		"	500		104	80-120			
Total Hydrocarbon C6-C35	1010		"	1000		101	80-120			
Surrogate: 1-Chlorooctane	44.9		"	50.0		89.8	70-130			
Surrogate: 1-Chlorooctadecane	44.6		"	50.0		89.2	70-130			
Matrix Spike (EF50304-MS1)										
Source: 5F02008-01 Prepared & Analyzed: 06/03/05										
Gasoline Range Organics C6-C12	510	10.0	mg/kg dry	539	ND	94.6	75-125			
Diesel Range Organics >C12-C35	563	10.0	"	539	15.1	102	75-125			
Total Hydrocarbon C6-C35	1070	10.0	"	1080	15.1	97.7	75-125			
Surrogate: 1-Chlorooctane	47.5		mg/kg	50.0		95.0	70-130			
Surrogate: 1-Chlorooctadecane	47.2		"	50.0		94.4	70-130			
Matrix Spike Dup (EF50304-MSD1)										
Source: 5F02008-01 Prepared & Analyzed: 06/03/05										
Gasoline Range Organics C6-C12	507	10.0	mg/kg dry	539	ND	94.1	75-125	0.590	20	
Diesel Range Organics >C12-C35	544	10.0	"	539	15.1	98.1	75-125	3.43	20	
Total Hydrocarbon C6-C35	1050	10.0	"	1080	15.1	95.8	75-125	1.89	20	
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0		98.0	70-130			
Surrogate: 1-Chlorooctadecane	47.7		"	50.0		95.4	70-130			

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

Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/07/05 14:04

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
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Batch EF50315 - EPA 5030C (GC)

Blank (EF50315-BLK1)

Prepared & Analyzed: 06/03/05

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: <i>a,a,a</i> -Trifluorotoluene	85.6		ug/kg	100		85.6	80-120			
Surrogate: 4-Bromofluorobenzene	82.0		"	100		82.0	80-120			

LCS (EF50315-BS1)

Prepared & Analyzed: 06/03/05

Benzene	105		ug/kg	100		105	80-120			
Toluene	98.7		"	100		98.7	80-120			
Ethylbenzene	85.6		"	100		85.6	80-120			
Xylene (p/m)	180		"	200		90.0	80-120			
Xylene (o)	81.6		"	100		81.6	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	103		"	100		103	80-120			
Surrogate: 4-Bromofluorobenzene	92.7		"	100		92.7	80-120			

Calibration Check (EF50315-CCV1)

Prepared & Analyzed: 06/03/05

Benzene	106		ug/kg	100		106	80-120			
Toluene	97.7		"	100		97.7	80-120			
Ethylbenzene	85.8		"	100		85.8	80-120			
Xylene (p/m)	184		"	200		92.0	80-120			
Xylene (o)	89.0		"	100		89.0	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	107		"	100		107	80-120			
Surrogate: 4-Bromofluorobenzene	91.7		"	100		91.7	80-120			

Matrix Spike (EF50315-MS1)

Source: 5E24006-04

Prepared & Analyzed: 06/03/05

Benzene	2590		ug/kg	2500	ND	104	80-120			
Toluene	2440		"	2500	ND	97.6	80-120			
Ethylbenzene	2240		"	2500	ND	89.6	80-120			
Xylene (p/m)	4750		"	5000	ND	95.0	80-120			
Xylene (o)	2360		"	2500	ND	94.4	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	105		"	100		105	80-120			
Surrogate: 4-Bromofluorobenzene	89.7		"	100		89.7	80-120			

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 5 of 8

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

Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/07/05 14:04

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
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Batch EF50315 - EPA 5030C (GC)

Matrix Spike Dup (EF50315-MSD1)

Source: 5E24006-04

Prepared & Analyzed: 06/03/05

Benzene	2490		ug/kg	2500	ND	99.6	80-120	4.32	20	
Toluene	2330		"	2500	ND	93.2	80-120	4.61	20	
Ethylbenzene	2130		"	2500	ND	85.2	80-120	5.03	20	
Xylene (p/m)	4310		"	5000	ND	86.2	80-120	9.71	20	
Xylene (o)	2250		"	2500	ND	90.0	80-120	4.77	20	
Surrogate: a,a,a-Trifluorotoluene	102		"	100		102	80-120			
Surrogate: 4-Bromofluorobenzene	85.7		"	100		85.7	80-120			

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

Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/07/05 14:04

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF50604 - General Preparation (Prep)

Blank (EF50604-BLK1)

Prepared: 06/03/05 Analyzed: 06/06/05

% Moisture	ND	0.1	%							
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Duplicate (EF50604-DUP1)

Source: 5F03002-01

Prepared: 06/03/05 Analyzed: 06/06/05

% Moisture	0.7	0.1	%		0.8			13.3	20	
------------	-----	-----	---	--	-----	--	--	------	----	--

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

Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/07/05 14:04

Notes and Definitions

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

Report Approved By:

Raland K Tuttle

Date:

6/7/2005

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

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
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

Company Name		Llano-Permian Environmental		Bill To		ANALYSIS REQUEST															
LPE Project Manager		Louis Sanchez																			
Mailing Address		318 E. Taylor Street																			
City, State, Zip		Hobbs New Mexico 88240																			
LPE Phone#/Fax#		505-393-4261 / 505-393-4658																			
Client Company		Plains All American																			
Facility Name		8" Moore to Jal #2																			
Project Reference		LBSPLAINS008SPL 2002-10273																			
LPE Sampler Name		Jeremy Anderson																			
Attn: ENV Accounts Payable																					
PO Box 4648,																					
Houston, TX 77210-4648																					

LAB I.D.	SAMPLE I.D.	# CONTAINERS	(G)RAB OR (COMP.	MATRIX				PRESERV.			SAMPLING		DATE	TIME	BTX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	PH	TCLP	OTHER >>>	PAH	
				WASTEWATER	GROUND WATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER											
5F03005																							
01	WW-N-01	1	G			X										X							
02	WW-S-01	1	G			X										X							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Sampler Relinquished:	Received By:	Day	6-3-05
		Time	1000
Relinquished by:	Received By: (lab staff)	Date	
		Time	
Delivered by:	Sample Cool & Intact	Yes	No

E-mail results to: lsanchez@llano-permian.com	REMARKS:
	1.5" jar seals/labels
	402 jar
	6/3/05 3:55

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Llano - Permian
 Date/Time: 6/3/05
 Order #: 5F03005
 Initials: CK

Sample Receipt Checklist

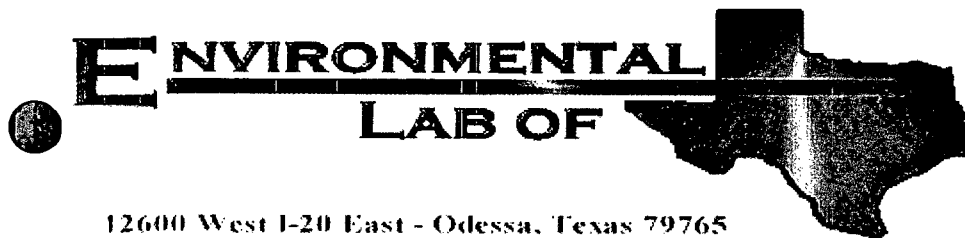
Temperature of container/cooler?	Yes	No	<u>IS</u>	<u>C</u>
Shipping container/cooler in good condition?	Yes	No	<u>none</u>	
Custody Seals intact on shipping container/cooler?	Yes	No	<u>not present</u>	
Custody Seals intact on sample bottles?	<u>YES</u>	No	<u>Not present</u>	
Chain of custody present?	<u>YES</u>	No		
Sample Instructions complete on Chain of Custody?	<u>YES</u>	No		
Chain of Custody signed when relinquished and received?	<u>YES</u>	No		
Chain of custody agrees with sample label(s)	<u>YES</u>	No		
Container labels legible and intact?	<u>YES</u>	No		
Sample Matrix and properties same as on chain of custody?	<u>YES</u>	No		
Samples in proper container/bottle?	<u>YES</u>	No		
Samples properly preserved?	<u>YES</u>	No		
Sample bottles intact?	<u>YES</u>	No		
Preservations documented on Chain of Custody?	<u>YES</u>	No		
Containers documented on Chain of Custody?	<u>YES</u>	No		
Sufficient sample amount for indicated test?	<u>YES</u>	No		
All samples received within sufficient hold time?	<u>YES</u>	No		
All samples have zero headspace?	<u>YES</u>	No	<u>Not Applicable</u>	

Other observations:

Variance Documentation:

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

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: 8 inch Moore to Jal #2

Project Number: 2002-10273

Location: None Given

Lab Order Number: 5G05002

Report Date: 07/08/05

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

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

Fax: (432) 687-4914
Reported:
07/08/05 16:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW	5G05002-01	Soil	07/01/05 11:01	07/01/05 17:02
SW	5G05002-02	Soil	07/01/05 11:12	07/01/05 17:02
NE	5G05002-03	Soil	07/01/05 10:40	07/01/05 17:02
SE	5G05002-04	Soil	07/01/05 10:53	07/01/05 17:02

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

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

Fax: (432) 687-4914

Reported:
07/08/05 16:46

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NW (5G05002-01) Soil									
Gasoline Range Organics C6-C12	J [7.14]	10.0	mg/kg dry	1	EG50518	07/05/05	07/05/05	EPA 8015M	J
Diesel Range Organics >C12-C35	420	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	420	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		79.2 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		92.8 %	70-130		"	"	"	"	
SW (5G05002-02) Soil									
Gasoline Range Organics C6-C12	13.8	10.0	mg/kg dry	1	EG50518	07/05/05	07/05/05	EPA 8015M	
Diesel Range Organics >C12-C35	708	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	722	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		83.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		98.6 %	70-130		"	"	"	"	
NE (5G05002-03) Soil									
Gasoline Range Organics C6-C12	J [8.91]	10.0	mg/kg dry	1	EG50518	07/05/05	07/05/05	EPA 8015M	J
Diesel Range Organics >C12-C35	325	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	325	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		80.0 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		96.4 %	70-130		"	"	"	"	
SE (5G05002-04) Soil									
Gasoline Range Organics C6-C12	12.2	10.0	mg/kg dry	1	EG50518	07/05/05	07/05/05	EPA 8015M	
Diesel Range Organics >C12-C35	789	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	801	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		85.0 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		103 %	70-130		"	"	"	"	

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

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

Fax: (432) 687-4914

Reported:
07/08/05 16:46

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NW (5G05002-01) Soil									
% Moisture	3.8	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
SW (5G05002-02) Soil									
% Moisture	3.4	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
NE (5G05002-03) Soil									
% Moisture	2.3	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
SE (5G05002-04) Soil									
% Moisture	0.9	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	

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

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

Fax: (432) 687-4914

Reported:
07/08/05 16:46

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
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Batch EG50518 - Solvent Extraction (GC)

Blank (EG50518-BLK1)

Prepared & Analyzed: 07/05/05

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	37.6		mg/kg	50.0		75.2	70-130			
Surrogate: 1-Chlorooctadecane	38.5		"	50.0		77.0	70-130			

LCS (EG50518-BS1)

Prepared & Analyzed: 07/05/05

Gasoline Range Organics C6-C12	388	10.0	mg/kg wet	500		77.6	75-125			
Diesel Range Organics >C12-C35	571	10.0	"	500		114	75-125			
Total Hydrocarbon C6-C35	959	10.0	"	1000		95.9	75-125			
Surrogate: 1-Chlorooctane	42.7		mg/kg	50.0		85.4	70-130			
Surrogate: 1-Chlorooctadecane	38.3		"	50.0		76.6	70-130			

Calibration Check (EG50518-CCV1)

Prepared: 07/05/05 Analyzed: 07/06/05

Gasoline Range Organics C6-C12	484		mg/kg	500		96.8	80-120			
Diesel Range Organics >C12-C35	555		"	500		111	80-120			
Total Hydrocarbon C6-C35	1040		"	1000		104	80-120			
Surrogate: 1-Chlorooctane	55.9		"	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	50.3		"	50.0		101	70-130			

Matrix Spike (EG50518-MS1)

Source: 5G05004-01

Prepared & Analyzed: 07/05/05

Gasoline Range Organics C6-C12	420	10.0	mg/kg dry	506	ND	83.0	75-125			
Diesel Range Organics >C12-C35	544	10.0	"	506	26.0	102	75-125			
Total Hydrocarbon C6-C35	963	10.0	"	1010	26.0	92.8	75-125			
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.6	70-130			
Surrogate: 1-Chlorooctadecane	44.8		"	50.0		89.6	70-130			

Matrix Spike Dup (EG50518-MSD1)

Source: 5G05004-01

Prepared & Analyzed: 07/05/05

Gasoline Range Organics C6-C12	427	10.0	mg/kg dry	506	ND	84.4	75-125	1.65	20	
Diesel Range Organics >C12-C35	564	10.0	"	506	26.0	106	75-125	3.61	20	
Total Hydrocarbon C6-C35	990	10.0	"	1010	26.0	95.4	75-125	2.76	20	
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0		98.6	70-130			
Surrogate: 1-Chlorooctadecane	45.5		"	50.0		91.0	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 4 of 6

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

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

Fax: (432) 687-4914

Reported:
07/08/05 16:46

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

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

Batch EG50601 - General Preparation (Prep)

Blank (EG50601-BLK1)

Prepared: 07/05/05 Analyzed: 07/06/05

% Moisture	ND	0.1	%
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Duplicate (EG50601-DUP1)

Source: 5G05001-01

Prepared: 07/05/05 Analyzed: 07/06/05

% Moisture	5.1	0.1	%	4.4	14.7	20
------------	-----	-----	---	-----	------	----

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

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

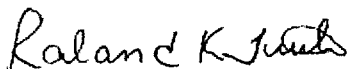
Fax: (432) 687-4914

Reported:
07/08/05 16:46

Notes and Definitions

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:

7/8/2005

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.

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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

Company Name Llano-Permian Environmental		Bill To		ANALYSIS REQUEST																									
LPE Project Manager Louis Sanchez		Attn: ENV Accounts Payable		PRESERV.		MATRIX		DATE		TIME		BTEX 8021B		TPH 8015M		CHLORIDES (Cl)		SULFATES (SO ₄)		PH		TCLP		OTHER >>>		PAH			
Mailing Address 318 E. Taylor Street		Hobbs New Mexico 88240		ACID/BASE		SLUDGE		OTHER:		OTHER		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
City, State, Zip		505-393-4261 / 505-393-4658		GROUND WATER		CRUDE OIL		OTHER:		ICE/COOL		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
LPE Phone#/Fax#		Plains All American		WASTEWATER		SOIL		OTHER:		ACID/BASE		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
Client Company		8" Moore to Jal #2		# CONTAINERS		X		OTHER:		ICE/COOL		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
Facility Name		Camille Reynolds/2002-10273		(G) RAB OR (C) OMP.		C 1		OTHER:		ACID/BASE		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
Project Reference		Louis Sanchez/LBSPLAINS008SPL		C 1		C 1		OTHER:		ACID/BASE		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
LPE Sampler Name/ Proj		SAMPLE I.D.		C 1		C 1		OTHER:		ACID/BASE		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
LAB 1002		1 NW		C 1		C 1		OTHER:		ACID/BASE		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
2 SW		2 SW		C 1		C 1		OTHER:		ACID/BASE		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
3 NE		3 NE		C 1		C 1		OTHER:		ACID/BASE		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
4 SE		4 SE		C 1		C 1		OTHER:		ACID/BASE		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
5		5		C 1		C 1		OTHER:		ACID/BASE		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
6		6		C 1		C 1		OTHER:		ACID/BASE		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
7		7		C 1		C 1		OTHER:		ACID/BASE		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
8		8		C 1		C 1		OTHER:		ACID/BASE		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
9		9		C 1		C 1		OTHER:		ACID/BASE		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	
10		10		C 1		C 1		OTHER:		ACID/BASE		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05		7/1/05	

Sampler Relinquished:		Received By:	
Date 7/1/05		Date 7/1/05	
Time 1702		Time 1702	
Relinquished by: Louis Sanchez		Received By: (lab staff)	
Date 7-1-5		Time 1702	
Delivered by:		Sample Cool & Intact	
		Yes No	
		Checked By:	
		James Mcmurray	

E-mail results to: lsanchez@llano-permian.com	
REMARKS:	
3.0°C 4oz glass on ice w/ labels/seals No seal on cooler	

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: PLAINS

Date/Time: 7/1/05 11:02

Order #: 5G05002

Initials: CR

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	3.0	C
Shipping container/cooler in good condition?	☒ Yes	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	
Custody Seals intact on sample bottles?	☒ Yes	No	Not present	
Chain of custody present?	☒ Yes	No		
Sample Instructions complete on Chain of Custody?	☒ Yes	No		
Chain of Custody signed when relinquished and received?	☒ Yes	No		
Chain of custody agrees with sample label(s)	☒ Yes	No		
Container labels legible and intact?	☒ Yes	No		
Sample Matrix and properties same as on chain of custody?	☒ Yes	No		
Samples in proper container/bottle?	☒ Yes	No		
Samples properly preserved?	☒ Yes	No		
Sample bottles intact?	☒ Yes	No		
Preservations documented on Chain of Custody?	☒ Yes	No		
Containers documented on Chain of Custody?	☒ Yes	No		
Sufficient sample amount for indicated test?	☒ Yes	No		
All samples received within sufficient hold time?	☒ Yes	No		
All samples have zero headspace?	☒ Yes	No	Not Applicable	

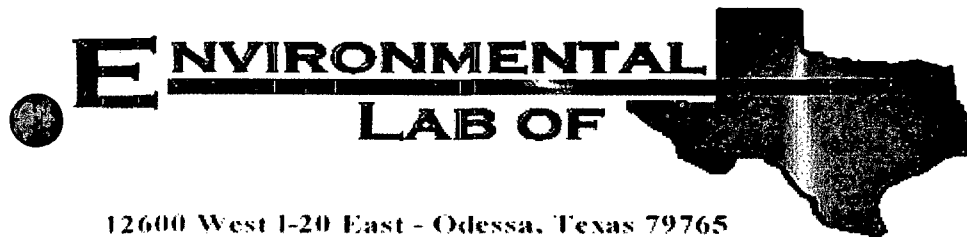
Other observations:

Variance Documentation:

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

Regarding: _____

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: 8 inch Moore to Jal #2

Project Number: 2002-10273

Location: None Given

Lab Order Number: 5I30007

Report Date: 10/04/05

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

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

Fax: (432) 687-4914

Reported:
10/04/05 08:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW	5130007-01	Soil	09/29/05 13:10	09/30/05 09:40
SW	5130007-02	Soil	09/29/05 13:20	09/30/05 09:40
NE	5130007-03	Soil	09/29/05 13:00	09/30/05 09:40
SE	5130007-04	Soil	09/29/05 13:30	09/30/05 09:40

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

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

Fax: (432) 687-4914

Reported:
10/04/05 08:28

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NW (5130007-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	E153016	09/30/05	10/01/05	EPA 8015M	
Diesel Range Organics >C12-C35	25.3	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	25.3	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		72.6 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		93.4 %	70-130		"	"	"	"	
SW (5130007-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	E153016	09/30/05	10/01/05	EPA 8015M	
Diesel Range Organics >C12-C35	100	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	100	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		83.0 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		97.8 %	70-130		"	"	"	"	
NE (5130007-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	E153016	09/30/05	10/02/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		75.0 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		90.2 %	70-130		"	"	"	"	
SE (5130007-04) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	E153016	09/30/05	10/02/05	EPA 8015M	
Diesel Range Organics >C12-C35	20.2	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	20.2	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		93.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		93.6 %	70-130		"	"	"	"	

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

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

Fax: (432) 687-4914

Reported:
10/04/05 08:28

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NW (5I30007-01) Soil									
% Moisture	9.8	0.1	%	1	EJ50307	10/03/05	10/03/05	% calculation	
SW (5I30007-02) Soil									
% Moisture	8.6	0.1	%	1	EJ50307	10/03/05	10/03/05	% calculation	
NE (5I30007-03) Soil									
% Moisture	18.7	0.1	%	1	EJ50307	10/03/05	10/03/05	% calculation	
SE (5I30007-04) Soil									
% Moisture	9.9	0.1	%	1	EJ50307	10/03/05	10/03/05	% calculation	

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

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

Fax: (432) 687-4914

Reported:
10/04/05 08:28

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
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Batch EI53016 - Solvent Extraction (GC)

Blank (EI53016-BLK1)

Prepared: 09/30/05 Analyzed: 10/01/05

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	39.2		mg/kg	50.0		78.4	70-130			
Surrogate: 1-Chlorooctadecane	39.1		"	50.0		78.2	70-130			

LCS (EI53016-BS1)

Prepared: 09/30/05 Analyzed: 10/01/05

Gasoline Range Organics C6-C12	405	10.0	mg/kg wet	500		81.0	75-125			
Diesel Range Organics >C12-C35	473	10.0	"	500		94.6	75-125			
Total Hydrocarbon C6-C35	878	10.0	"	1000		87.8	75-125			
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.2	70-130			
Surrogate: 1-Chlorooctadecane	50.1		"	50.0		100	70-130			

Calibration Check (EI53016-CCV1)

Prepared: 09/30/05 Analyzed: 10/02/05

Gasoline Range Organics C6-C12	491		mg/kg	500		98.2	80-120			
Diesel Range Organics >C12-C35	525		"	500		105	80-120			
Total Hydrocarbon C6-C35	1020		"	1000		102	80-120			
Surrogate: 1-Chlorooctane	53.3		"	50.0		107	0-200			
Surrogate: 1-Chlorooctadecane	54.8		"	50.0		110	0-200			

Matrix Spike (EI53016-MS1)

Source: 5130007-01

Prepared: 09/30/05 Analyzed: 10/01/05

Gasoline Range Organics C6-C12	454	10.0	mg/kg dry	554	ND	81.9	75-125			
Diesel Range Organics >C12-C35	535	10.0	"	554	25.3	92.0	75-125			
Total Hydrocarbon C6-C35	989	10.0	"	1110	25.3	86.8	75-125			
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	53.0		"	50.0		106	70-130			

Matrix Spike Dup (EI53016-MSD1)

Source: 5130007-01

Prepared: 09/30/05 Analyzed: 10/01/05

Gasoline Range Organics C6-C12	461	10.0	mg/kg dry	554	ND	83.2	75-125	1.53	20	
Diesel Range Organics >C12-C35	536	10.0	"	554	25.3	92.2	75-125	0.187	20	
Total Hydrocarbon C6-C35	997	10.0	"	1110	25.3	87.5	75-125	0.806	20	
Surrogate: 1-Chlorooctane	52.9		mg/kg	50.0		106	70-130			
Surrogate: 1-Chlorooctadecane	53.4		"	50.0		107	70-130			

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

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

Fax: (432) 687-4914

Reported:
10/04/05 08:28

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

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

Batch EJ50307 - General Preparation (Prep)

Blank (EJ50307-BLK1)

Prepared & Analyzed: 10/03/05

% Solids 100 %

Duplicate (EJ50307-DUP1)

Source: 5I29013-01

Prepared & Analyzed: 10/03/05

% Solids 93.2 % 93.1 0.107 20

Duplicate (EJ50307-DUP2)

Source: 5I30004-07

Prepared & Analyzed: 10/03/05

% Solids 93.0 % 87.3 6.32 20

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

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

Fax: (432) 687-4914

Reported:
10/04/05 08:28

Notes and Definitions

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

Report Approved By: _____

Raland K. Tuttle

Date: 10/4/2005

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.

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Environmental Labs of Texas

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(432) 563-1800 FAX: (432) 563-1713

Chain of Custody Form

Page 1 of 1

Company Name Talon/LPE		Bill To ANALYSIS REQUEST	
LPE Project Manager Louis Sanchez		PLAINS ALLAMERICAN MIDLINE LP	
Mailing Address 318 E. Taylor Street		Attn: ENV Accounts Payable	
City, State, Zip Hobbs New Mexico 88240		PO Box 4648,	
LPE Phone/Fax# 505-393-4261 / 505-393-4658		Houston, TX 77210-4648	
Client Company PAAP / Camille Reynolds			
Facility Name 8" Moore to Jal #2 / 2002-10273			
Project Reference LBSPLAINS008SPL			
LPE Sampler Name Jeremy Anderson			

LAB I.D.	SAMPLE I.D.	# CONTAINERS	MATRIX				PRESERV.			SAMPLING		DATE	TIME	TPH 8015M	CHLORIDES (CI)	SULFATES (SO ₄)	PH	TCLP	OTHER >>	PAH	
			GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER										
1	MW-02	2	X					X	X			9/29/05	1240	X							
2	MW-04	2	X					X	X			9/29/05	1220	X							
3	NW	1			X							9/29/05	1310		X						
4	SW	1			X							9/29/05	1320		X						
5	NE	1			X							9/29/05	1300		X						
6	SE	1			X							9/29/05	1320		X						
7																					
8																					
9																					
10																					

Sampler Relinquished:		Received By:	
Date: 7-30-05		Date: 7-30-05	
Time: 0940		Time: 0940	
Relinquished by:		Received By: (lab staff)	
Signature: [Signature]		Signature: [Signature]	
Delivered by:		Sample Cool & Intact	
		Yes No	
		Checked By:	
		Signature: [Signature]	
		Labels/Seals	

E-mail results to: lsanchez@tano-permian.com
REMARKS:

4.0

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

Client: Plains / LPE

Date/Time: 9/30/05 9:40

Order #: 513000

Initials: CR

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	-7.0 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

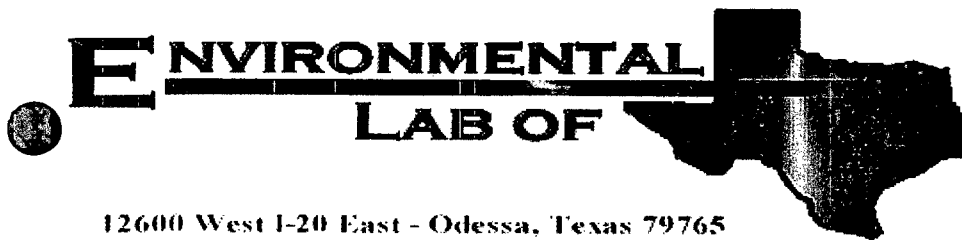
Water samples were frozen and VOA VIALS expand and broke
for MW-02 and MW-04 (1 VOA VIAL intact for MW-04)

Variance Documentation:

Contact Person: Louis Sanchez Date/Time: 09-30-05 @ 1315 Contacted by: Jeanne McMurray
Regarding: broken/frozen water samples

Corrective Action Taken:

Client will resample water samples. See attached e-mail



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: 8 inch Moore to Jal #2

Project Number: 2002-10273

Location: None Given

Lab Order Number: 5L30007

Report Date: 01/10/06

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

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

Fax: (432) 687-4914
Reported:
01/10/06 17:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-02	5L30007-01	Water	12/30/05 11:55	12/30/05 15:16
MW-04	5L30007-02	Water	12/30/05 11:25	12/30/05 15:16
NW	5L30007-03	Soil	12/30/05 11:05	12/30/05 15:16
SW	5L30007-04	Soil	12/30/05 11:03	12/30/05 15:16
NE	5L30007-05	Soil	12/30/05 11:07	12/30/05 15:16
SE	5L30007-06	Soil	12/30/05 11:00	12/30/05 15:16

Plains All American EH & S
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Reported:
01/10/06 17:09

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-02 (5L30007-01) Water									
Benzene	ND	0.00100	mg/L	1	EA60408	01/04/06	01/09/06	EPA 8021B	
Toluene	J [0.000447]	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	J [0.000252]	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	80-120		"	"	"	"	
MW-04 (5L30007-02) Water									
Benzene	4.49	0.0500	mg/L	50	EA60408	01/04/06	01/09/06	EPA 8021B	
Toluene	J [0.0255]	0.0500	"	"	"	"	"	"	
Ethylbenzene	J [0.0199]	0.0500	"	"	"	"	"	"	
Xylene (p/m)	J [0.0274]	0.0500	"	"	"	"	"	"	
Xylene (o)	ND	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		105 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	80-120		"	"	"	"	
NW (5L30007-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL53011	12/30/05	12/31/05	EPA 8015M	
Diesel Range Organics >C12-C35	186	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	186	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		104 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		106 %	70-130		"	"	"	"	
SW (5L30007-04) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL53011	12/30/05	12/31/05	EPA 8015M	
Diesel Range Organics >C12-C35	146	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	146	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		110 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		112 %	70-130		"	"	"	"	

Plains All American EH & S
1301 S. County Road 1150
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Reported:
01/10/06 17:09

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NE (5L30007-05) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL53011	12/30/05	12/31/05	EPA 8015M	
Diesel Range Organics >C12-C35	103	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	103	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		<i>103 %</i>	<i>70-130</i>		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		<i>104 %</i>	<i>70-130</i>		"	"	"	"	
SE (5L30007-06) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL53011	12/30/05	12/31/05	EPA 8015M	
Diesel Range Organics >C12-C35	167	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	167	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		<i>107 %</i>	<i>70-130</i>		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		<i>110 %</i>	<i>70-130</i>		"	"	"	"	

Plains All American EH & S
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Reported:
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General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NW (5L30007-03) Soil									
% Moisture	8.7	0.1	%	1	EA60310	12/30/05	01/03/06	% calculation	
SW (5L30007-04) Soil									
% Moisture	8.0	0.1	%	1	EA60310	12/30/05	01/03/06	% calculation	
NE (5L30007-05) Soil									
% Moisture	6.3	0.1	%	1	EA60310	12/30/05	01/03/06	% calculation	
SE (5L30007-06) Soil									
% Moisture	4.0	0.1	%	1	EA60310	12/30/05	01/03/06	% calculation	

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Reported:
01/10/06 17:09

PAH compounds by Semivolatile GCMS
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-02 (5L30007-01) Water									
Naphthalene	ND	5.00	ug/l	1	EA60904	01/05/06	01/05/06	8270C	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Acenaphthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Anthracene	ND	5.00	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	1.30	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1.30	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.30	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.200	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	0.200	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		44.4 %	35-114		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		53.0 %	43-116		"	"	"	"	
Surrogate: p-Terphenyl-d14		55.6 %	33-141		"	"	"	"	
MW-04 (5L30007-02) Water									
Naphthalene	19.9	5.00	ug/l	1	EA60904	01/05/06	01/05/06	8270C	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Acenaphthene	ND	5.00	"	"	"	"	"	"	
Fluorene	J [0.600]	5.00	"	"	"	"	"	"	J
Phenanthrene	J [0.400]	5.00	"	"	"	"	"	"	J
Anthracene	ND	5.00	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	1.30	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1.30	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.30	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.200	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	0.200	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		50.2 %	35-114		"	"	"	"	

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 #2
Project Number: 2002-10273
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
01/10/06 17:09

PAH compounds by Semivolatile GCMS
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-04 (SL30007-02) Water									
Surrogate: 2-Fluorobiphenyl		60.2 %	43-116		EA60904	01/05/06	01/05/06	8270C	
Surrogate: p-Terphenyl-d14		61.5 %	33-141		"	"	"	"	

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Reported:
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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EA60408 - EPA 5030C (GC)

Blank (EA60408-BLK1)

Prepared: 01/04/06 Analyzed: 01/09/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	34.9		ug/l	40.0		87.2	80-120			
Surrogate: 4-Bromofluorobenzene	36.2		"	40.0		90.5	80-120			

LCS (EA60408-BS1)

Prepared: 01/04/06 Analyzed: 01/09/06

Benzene	0.0528	0.00100	mg/L	0.0500		106	80-120			
Toluene	0.0586	0.00100	"	0.0500		117	80-120			
Ethylbenzene	0.0586	0.00100	"	0.0500		117	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100		119	80-120			
Xylene (o)	0.0591	0.00100	"	0.0500		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.3		ug/l	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	38.0		"	40.0		95.0	80-120			

Calibration Check (EA60408-CCV1)

Prepared: 01/04/06 Analyzed: 01/09/06

Benzene	54.1		ug/l	50.0		108	80-120			
Toluene	59.8		"	50.0		120	80-120			
Ethylbenzene	59.5		"	50.0		119	80-120			
Xylene (p/m)	120		"	100		120	80-120			
Xylene (o)	57.0		"	50.0		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.2		"	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	36.6		"	40.0		91.5	80-120			

Matrix Spike (EA60408-MS1)

Source: 6A05002-01

Prepared: 01/04/06 Analyzed: 01/09/06

Benzene	0.0516	0.00100	mg/L	0.0500	ND	103	80-120			
Toluene	0.0572	0.00100	"	0.0500	ND	114	80-120			
Ethylbenzene	0.0587	0.00100	"	0.0500	ND	117	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100	ND	119	80-120			
Xylene (o)	0.0588	0.00100	"	0.0500	ND	118	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.9		ug/l	40.0		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	41.4		"	40.0		104	80-120			

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Plains All American EH & S
1301 S. County Road 1150
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Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
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Reported:
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Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EA60408 - EPA 5030C (GC)

Matrix Spike Dup (EA60408-MSD1)

Source: 6A05002-01

Prepared: 01/04/06 Analyzed: 01/09/06

Benzene	0.0525	0.00100	mg/L	0.0500	ND	105	80-120	1.92	20	
Toluene	0.0575	0.00100	"	0.0500	ND	115	80-120	0.873	20	
Ethylbenzene	0.0573	0.00100	"	0.0500	ND	115	80-120	1.72	20	
Xylene (p/m)	0.119	0.00100	"	0.100	ND	119	80-120	0.00	20	
Xylene (o)	0.0590	0.00100	"	0.0500	ND	118	80-120	0.00	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	39.6		ug/l	40.0		99.0	80-120			
Surrogate: 4-Bromofluorobenzene	36.8		"	40.0		92.0	80-120			

Batch EL53011 - Solvent Extraction (GC)

Blank (EL53011-BLK1)

Prepared: 12/30/05 Analyzed: 12/31/05

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0		101	70-130			
Surrogate: 1-Chlorooctadecane	50.9		"	50.0		102	70-130			

LCS (EL53011-BS1)

Prepared: 12/30/05 Analyzed: 12/31/05

Gasoline Range Organics C6-C12	456	10.0	mg/kg wet	500		91.2	75-125			
Diesel Range Organics >C12-C35	528	10.0	"	500		106	75-125			
Total Hydrocarbon C6-C35	984	10.0	"	1000		98.4	75-125			
Surrogate: 1-Chlorooctane	58.8		mg/kg	50.0		118	70-130			
Surrogate: 1-Chlorooctadecane	54.4		"	50.0		109	70-130			

Calibration Check (EL53011-CCV1)

Prepared: 12/30/05 Analyzed: 12/31/05

Gasoline Range Organics C6-C12	502		mg/kg	500		100	80-120			
Diesel Range Organics >C12-C35	533		"	500		107	80-120			
Total Hydrocarbon C6-C35	1040		"	1000		104	80-120			
Surrogate: 1-Chlorooctane	55.2		"	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	54.0		"	50.0		108	70-130			

Plains All American EH & S
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Project Manager: Camille Reynolds

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Reported:
01/10/06 17:09

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
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Batch EL53011 - Solvent Extraction (GC)

Matrix Spike (EL53011-MS1)

Source: 5L30007-03

Prepared: 12/30/05 Analyzed: 12/31/05

Gasoline Range Organics C6-C12	512	10.0	mg/kg dry	548	ND	93.4	75-125			
Diesel Range Organics >C12-C35	718	10.0	"	548	186	97.1	75-125			
Total Hydrocarbon C6-C35	1230	10.0	"	1100	186	94.9	75-125			
Surrogate: 1-Chlorooctane	57.7		mg/kg	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	53.4		"	50.0		107	70-130			

Matrix Spike Dup (EL53011-MSD1)

Source: 5L30007-03

Prepared: 12/30/05 Analyzed: 12/31/05

Gasoline Range Organics C6-C12	503	10.0	mg/kg dry	548	ND	91.8	75-125	1.77	20	
Diesel Range Organics >C12-C35	721	10.0	"	548	186	97.6	75-125	0.417	20	
Total Hydrocarbon C6-C35	1220	10.0	"	1100	186	94.0	75-125	0.816	20	
Surrogate: 1-Chlorooctane	56.7		mg/kg	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane	52.8		"	50.0		106	70-130			

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Reported:
01/10/06 17:09

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA60310 - General Preparation (Prep)										
Blank (EA60310-BLK1)				Prepared: 12/30/05 Analyzed: 01/03/06						
% Solids	100		%							
Duplicate (EA60310-DUP1)				Source: 5L30001-01 Prepared: 12/30/05 Analyzed: 01/03/06						
% Solids	92.4		%		91.7			0.760	20	
Duplicate (EA60310-DUP2)				Source: 5L30007-03 Prepared: 12/30/05 Analyzed: 01/03/06						
% Solids	92.0		%		91.3			0.764	20	

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Reported:
01/10/06 17:09

PAH compounds by Semivolatile GCMS - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EA60904 - EPA 3510C

Blank (EA60904-BLK1)

Prepared & Analyzed: 01/05/06

Naphthalene	ND	5.00	ug/l							
Acenaphthylene	ND	5.00	"							
Acenaphthene	ND	5.00	"							
Fluorene	ND	5.00	"							
Phenanthrene	ND	5.00	"							
Anthracene	ND	5.00	"							
Fluoranthene	ND	5.00	"							
Pyrene	ND	5.00	"							
Benzo (a) anthracene	ND	1.30	"							
Chrysene	ND	5.00	"							
Indeno (1,2,3-cd) pyrene	ND	1.30	"							
Benzo (b) fluoranthene	ND	1.30	"							
Benzo (k) fluoranthene	ND	5.00	"							
Benzo (a) pyrene	ND	0.200	"							
Dibenzo (a,h) anthracene	ND	0.200	"							
Benzo (g,h,i) perylene	ND	5.00	"							
Surrogate: Nitrobenzene-d5	39.1		"	80.0		48.9	35-114			
Surrogate: 2-Fluorobiphenyl	39.0		"	80.0		48.8	43-116			
Surrogate: p-Terphenyl-d14	57.4		"	80.0		71.8	33-141			

LCS (EA60904-BS1)

Prepared & Analyzed: 01/05/06

Naphthalene	42.5	5.00	ug/l	100		42.5	21-133			
Acenaphthylene	44.0	5.00	"	100		44.0	33-145			
Anthracene	48.6	5.00	"	100		48.6	27-133			
Fluoranthene	45.2	5.00	"	100		45.2	26-137			
Pyrene	54.6	5.00	"	100		54.6	52-115			
Benzo (a) anthracene	51.3	1.30	"	100		51.3	33-143			
Chrysene	51.6	5.00	"	100		51.6	17-168			
Indeno (1,2,3-cd) pyrene	37.3	1.30	"	100		37.3	5-171			
Benzo (b) fluoranthene	55.8	1.30	"	100		55.8	24-159			
Benzo (k) fluoranthene	48.7	5.00	"	100		48.7	11-162			
Benzo (a) pyrene	48.6	0.200	"	100		48.6	17-163			
Dibenzo (a,h) anthracene	50.4	0.200	"	100		50.4	5-227			
Benzo (g,h,i) perylene	39.6	5.00	"	100		39.6	5-219			
Surrogate: Nitrobenzene-d5	42.3		"	80.0		52.9	35-114			
Surrogate: 2-Fluorobiphenyl	45.4		"	80.0		56.8	43-116			
Surrogate: p-Terphenyl-d14	57.2		"	80.0		71.5	33-141			

Environmental Lab of Texas

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Page 11 of 13

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

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

Fax: (432) 687-4914

Reported:
01/10/06 17:09

PAH compounds by Semivolatile GCMS - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA60904 - EPA 3510C										
LCS Dup (EA60904-BSD1)				Prepared & Analyzed: 01/05/06						
Naphthalene	42.6	5.00	ug/l	100		42.6	21-133	0.235	30.1	
Acenaphthylene	44.0	5.00	"	100		44.0	33-145	0.00	40.2	
Phenanthrene	53.1	5.00	"	100		53.1	54-120	0.377	20.6	
Anthracene	48.5	5.00	"	100		48.5	27-133	0.206	32	
Fluoranthene	44.8	5.00	"	100		44.8	26-137	0.889	32.8	
Pyrene	55.6	5.00	"	100		55.6	52-115	1.81	25.2	
Benzo (a) anthracene	51.1	1.30	"	100		51.1	33-143	0.391	27.6	
Chrysene	51.1	5.00	"	100		51.1	17-168	0.974	48.3	
Indeno (1,2,3-cd) pyrene	36.2	1.30	"	100		36.2	5-171	2.99	44.6	
Benzo (b) fluoranthene	48.2	1.30	"	100		48.2	24-159	14.6	38.8	
Benzo (k) fluoranthene	57.3	5.00	"	100		57.3	11-162	16.2	32.3	
Benzo (a) pyrene	48.7	0.200	"	100		48.7	17-163	0.206	39	
Dibenzo (a,h) anthracene	48.7	0.200	"	100		48.7	5-227	3.43	70	
Benzo (g,h,i) perylene	39.3	5.00	"	100		39.3	5-219	0.760	58.9	
Surrogate: Nitrobenzene-d5	42.2		"	80.0		52.8	35-114			
Surrogate: 2-Fluorobiphenyl	45.2		"	80.0		56.5	43-116			
Surrogate: p-Terphenyl-d14	57.9		"	80.0		72.4	33-141			
Calibration Check (EA60904-CCV1)				Prepared: 01/05/06 Analyzed: 01/06/06						
Acenaphthene	48.1		ug/l	50.0		96.2	70-130			
Fluoranthene	46.8		"	50.0		93.6	70-130			
Benzo (a) pyrene	47.5		"	50.0		95.0	70-130			
Surrogate: Nitrobenzene-d5	68.3		"	80.0		85.4	35-114			
Surrogate: 2-Fluorobiphenyl	67.0		"	80.0		83.8	43-116			
Surrogate: p-Terphenyl-d14	50.3		"	80.0		62.9	33-141			

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

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

Fax: (432) 687-4914

Reported:
01/10/06 17:09

Notes and Definitions

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:

Raland K. Tuttle

Date: 1/10/2006

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.

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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

Company Name		Talon/LPE		Bill To		ANALYSIS REQUEST	
LPE Project Manager		Louis Sanchez		PLAINS ALL AMERICAN PIPELINE, L.P.			
Mailing Address		318 E. Taylor Street		Attn: ENV Accounts Payable			
City, State, Zip		Hobbs New Mexico 88240		PO Box 4648,			
LPE Phone#/Fax#		505-393-4261 / 505-393-4658		Houston, TX 77210-4648			
Client Company		PAAP / Camille Reynolds					
Facility Name		8" Moore to Jal #2 / 2002-10273					
Project Reference		LBSPLAINS008SPL					
LPE Sampler Name		Jeremy Anderson					

LAB I.D.	SAMPLE I.D.	MATRIX			PRESERV.			SAMPLING			TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	PH	TCLP	OTHER >>>	PAH	
		GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER										DATE
01	1 MW-02	X						X			12/31/05	1155	X							
02	2 MW-04	X						X			12/31/05	1125	X							
03	3 NW			X				X			12/31/05	1105		X						
04	4 SW			X				X			12/31/05	1103		X						
05	5 NE			X				X			12/31/05	1107		X						
06	6 SE			X				X			12/31/05	1100		X						
7																				
8																				
9																				
10																				

Sampler Relinquished:	Received By:	E-mail results to: lsanchez@talonlpe.com	
Relinquished by: <i>[Signature]</i>	Date: 12-30-05	REMARKS: 402- VOA-HCl (L-amber) poly	
Delivered by:	Received By: <i>[Signature]</i>	S.S.	
	Date: 12/16		
	Time:		
	Sample Cool & Intact	No	
	Checked By:		

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Plains

Date/Time: 12/30/05 3:20

Order #: 6L30007

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	6.5 C
Shipping container/cooler in good condition?	☒ Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	☒ Yes	No	Not present
Chain of custody present?	☒ Yes	No	
Sample Instructions complete on Chain of Custody?	☒ Yes	No	
Chain of Custody signed when relinquished and received?	☒ Yes	No	
Chain of custody agrees with sample label(s)	☒ Yes	No	
Container labels legible and intact?	☒ Yes	No	
Sample Matrix and properties same as on chain of custody?	☒ Yes	No	
Samples in proper container/bottle?	☒ Yes	No	
Samples properly preserved?	☒ Yes	No	
Sample bottles intact?	☒ Yes	No	
Preservations documented on Chain of Custody?	☒ Yes	No	
Containers documented on Chain of Custody?	☒ Yes	No	
Sufficient sample amount for indicated test?	☒ Yes	No	
samples received within sufficient hold time?	☒ Yes	No	
VOC samples have zero headspace?	☒ Yes	No	Not Applicable

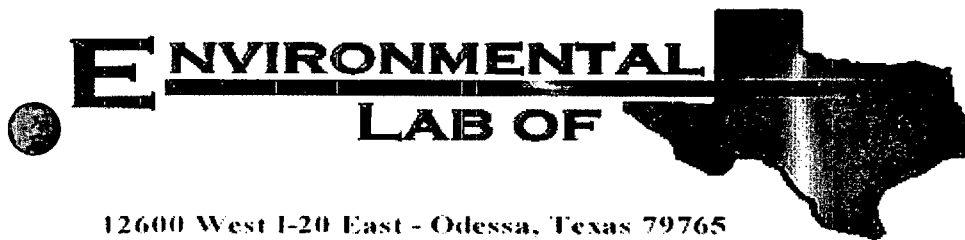
Other observations:

Variance Documentation:

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

Regarding: _____

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: 8 inch Moore to Jal #2

Project Number: 2002-10273

Location: 15 miles North of Hobbs, NM

Lab Order Number: 6A18004

Report Date: 01/25/06

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

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

Fax: (432) 687-4914

Reported:
01/25/06 10:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NE-1 Site 2	6A18004-01	Soil	01/17/06 09:55	01/18/06 08:16
NW-2 Site 2	6A18004-02	Soil	01/17/06 10:05	01/18/06 08:16
SP-3 Site 2	6A18004-03	Soil	01/17/06 10:10	01/18/06 08:16

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

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

Fax: (432) 687-4914

Reported:
01/25/06 10:45

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NE-1 Site 2 (6A18004-01) Soil									
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		95.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.0 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA61808	01/18/06	01/18/06	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		114 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		102 %	70-130		"	"	"	"	
NW-2 Site 2 (6A18004-02) Soil									
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		89.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.0 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA61808	01/18/06	01/18/06	EPA 8015M	
Diesel Range Organics >C12-C35	169	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	169	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		120 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		108 %	70-130		"	"	"	"	
SP-3 Site 2 (6A18004-03) Soil									
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		94.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA61808	01/18/06	01/18/06	EPA 8015M	
Diesel Range Organics >C12-C35	93.3	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	93.3	10.0	"	"	"	"	"	"	

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 #2
Project Number: 2002-10273
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
01/25/06 10:45

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-3 Site 2 (6A18004-03) Soil									
Surrogate: 1-Chlorooctane		120 %	70-130		EA61808	01/18/06	01/18/06	EPA 8015M	
Surrogate: 1-Chlorooctadecane		109 %	70-130		"	"	"	"	

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

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

Fax: (432) 687-4914

Reported:
01/25/06 10:45

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NE-1 Site 2 (6A18004-01) Soil									
% Moisture	9.2	0.1	%	1	EA61901	01/18/06	01/19/06	% calculation	
NW-2 Site 2 (6A18004-02) Soil									
% Moisture	4.6	0.1	%	1	EA61901	01/18/06	01/19/06	% calculation	
SP-3 Site 2 (6A18004-03) Soil									
% Moisture	7.0	0.1	%	1	EA61901	01/18/06	01/19/06	% calculation	

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

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

Fax: (432) 687-4914

Reported:
01/25/06 10:45

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
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Batch EA61808 - Solvent Extraction (GC)

Blank (EA61808-BLK1)

Prepared & Analyzed: 01/18/06

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	55.5		mg/kg	50.0		111	70-130			
Surrogate: 1-Chlorooctadecane	48.9		"	50.0		97.8	70-130			

LCS (EA61808-BS1)

Prepared & Analyzed: 01/18/06

Gasoline Range Organics C6-C12	474	10.0	mg/kg wet	500		94.8	75-125			
Diesel Range Organics >C12-C35	573	10.0	"	500		115	75-125			
Total Hydrocarbon C6-C35	1050	10.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	61.3		mg/kg	50.0		123	70-130			
Surrogate: 1-Chlorooctadecane	52.4		"	50.0		105	70-130			

Calibration Check (EA61808-CCV1)

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

Gasoline Range Organics C6-C12	462		mg/kg	500		92.4	80-120			
Diesel Range Organics >C12-C35	558		"	500		112	80-120			
Total Hydrocarbon C6-C35	1020		"	1000		102	80-120			
Surrogate: 1-Chlorooctane	63.3		"	50.0		127	70-130			
Surrogate: 1-Chlorooctadecane	51.6		"	50.0		103	70-130			

Matrix Spike (EA61808-MS1)

Source: 6A18004-01

Prepared & Analyzed: 01/18/06

Gasoline Range Organics C6-C12	509	10.0	mg/kg dry	551	ND	92.4	75-125			
Diesel Range Organics >C12-C35	624	10.0	"	551	ND	113	75-125			
Total Hydrocarbon C6-C35	1130	10.0	"	1100	ND	103	75-125			
Surrogate: 1-Chlorooctane	64.5		mg/kg	50.0		129	70-130			
Surrogate: 1-Chlorooctadecane	55.7		"	50.0		111	70-130			

Matrix Spike Dup (EA61808-MSD1)

Source: 6A18004-01

Prepared & Analyzed: 01/18/06

Gasoline Range Organics C6-C12	515	10.0	mg/kg dry	551	ND	93.5	75-125	1.17	20	
Diesel Range Organics >C12-C35	632	10.0	"	551	ND	115	75-125	1.27	20	
Total Hydrocarbon C6-C35	1150	10.0	"	1100	ND	105	75-125	1.75	20	
Surrogate: 1-Chlorooctane	64.6		mg/kg	50.0		129	70-130			
Surrogate: 1-Chlorooctadecane	56.5		"	50.0		113	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 #2
Project Number: 2002-10273
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
01/25/06 10:45

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
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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: <i>a,a,a</i> -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: <i>a,a,a</i> -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: <i>a,a,a</i> -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: <i>a,a,a</i> -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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Page 6 of 9

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

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

Fax: (432) 687-4914

Reported:
01/25/06 10:45

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 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: <i>a,a,a</i> -Trifluorotoluene	33.5		ug/kg	40.0		83.8	80-120			
Surrogate: <i>4</i> -Bromofluorobenzene	35.2		"	40.0		88.0	80-120			

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

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

Fax: (432) 687-4914

Reported:
01/25/06 10:45

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD 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 #2
Project Number: 2002-10273
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
01/25/06 10:45

Notes and Definitions

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

Report Approved By: _____

Raland K. Tuttle

Date: 1/25/2006

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.

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6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
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1 (800) 378-1296
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TraceAnalysis, Inc.

Company Name: TALON/LDG

Phone #: 432-522-2133

Address: (Street, City, Zip)

49 EAST INDUSTRIAL RD.

Fax #:

e-mail:

Contact Person:

LOUIS SANCHEZ

Project Manager:

(SANCHEZ) PLAINS P/L

Camille Reynolds

2002-10273

Project Name: 8" MOORE TO JAL#2

Project Location: 15 miles north of Hobbs, N. Mex.

Sampler Signature: Sam Wilson

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	VOLUME/AMOUNT	MATRIX			PRESERVATIVE METHOD					SAMPLING	
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	DATE	TIME
-01	NE-1 SITE 2	1	1000	✓							✓	11-06	9:55
-02	SEW-001	1	1000	✓							✓	"	10:05
-03	SP-3 SITE 2	1	"	✓							✓	"	10:10
	SEW-002	1	"	✓							✓	"	11:30
	SEW-003	1	"	✓							✓	"	11:40
	NEW-004	1	"	✓							✓	"	11:50
	NEW-005	1	"	✓							✓	"	12:00
	SEW-006	1	"	✓							✓	"	12:10
	SEW-007	1	"	✓							✓	"	12:25
	SEW-008	1	"	✓							✓	"	13:00
	SEW-009	1	"	✓							✓	"	13:10

Relinquished by: Date: 11-06-02 Time: 8:16

Received by: Date: 11-06-02 Time: 8:16

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Relinquished by: Date: Time:

Received at Laboratory by: Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

ANALYSIS REQUEST

(Circle or Specify Method No.)

TX 1005 Extended (C35)	✓
TPH 418 1/TX1006 (80.5)	✓
BTEX 8021B/602	✓
MTBE 8021B/602	✓
PAH 8270C	✓
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	✓
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	✓
TCLP Volatiles	✓
TCLP Semi Volatiles	✓
TCLP Pesticides	✓
RCI	✓
GC/MS Vol. 8260B/624	✓
GC/MS Semi. Vol. 8270C/625	✓
PCBs 8082/608	✓
Pesticides 8081A/608	✓
BOD, TSS, PH	✓
Moisture Content	✓
Turn Around Time if different from standard	✓

LAB USE ONLY

Intact Y / N
Headspace Y / N
Temp -2.5 °
Log-in Review

REMARKS:

10/15/02

COPY

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

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Plains P/L

Date/Time: 01-18-06 @ 0816

Order #: 6A18004

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	☒ Yes	☐ No	-2,5 C
Shipping container/cooler in good condition?	☒ Yes	☐ No	
Custody Seals intact on shipping container/cooler?	☐ Yes	☐ No	☒ Not present
Custody Seals intact on sample bottles?	☒ Yes	☐ No	Not present
Chain of custody present?	☒ Yes	☐ No	
Sample Instructions complete on Chain of Custody?	☒ Yes	☐ No	
Chain of Custody signed when relinquished and received?	☒ Yes	☐ No	
Chain of custody agrees with sample label(s)	☒ Yes	☐ No	
Container labels legible and intact?	☒ Yes	☐ No	
Sample Matrix and properties same as on chain of custody?	☒ Yes	☐ No	
Samples in proper container/bottle?	☒ Yes	☐ No	
Samples properly preserved?	☒ Yes	☐ No	
Sample bottles intact?	☒ Yes	☐ No	
Preservations documented on Chain of Custody?	☒ Yes	☐ No	
Containers documented on Chain of Custody?	☒ Yes	☐ No	
Sufficient sample amount for indicated test?	☒ Yes	☐ No	
Samples received within sufficient hold time?	☒ Yes	☐ No	
VOC samples have zero headspace?	☒ Yes	☐ No	Not Applicable

Other observations:

Variance Documentation:

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

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: 8 inch Moore to Jal #2

Project Number: 2002-10273

Location: None Given

Lab Order Number: 6A30002

Report Date: 02/03/06

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

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

Fax: (432) 687-4914

Reported:
02/03/06 18:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NF-01	6A30002-01	Soil	01/26/06 19:20	01/27/06 17:10
SF-01	6A30002-02	Soil	01/26/06 19:25	01/27/06 17:10
EF-01	6A30002-03	Soil	01/26/06 19:30	01/27/06 17:10
WF-01	6A30002-04	Soil	01/26/06 19:35	01/27/06 17:10
CF-01	6A30002-05	Soil	01/26/06 19:40	01/27/06 17:10

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

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

Fax: (432) 687-4914

Reported:
02/03/06 18:25

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NF-01 (6A30002-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB60213	02/02/06	02/03/06	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		95.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA63114	01/31/06	02/01/06	EPA 8015M	
Diesel Range Organics >C12-C35	10.3	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	10.3	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		128 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		122 %	70-130		"	"	"	"	
SF-01 (6A30002-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB60213	02/02/06	02/03/06	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		107 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA63114	01/31/06	02/01/06	EPA 8015M	
Diesel Range Organics >C12-C35	259	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	259	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		130 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		124 %	70-130		"	"	"	"	
EF-01 (6A30002-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB60213	02/02/06	02/03/06	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		102 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA63114	01/31/06	02/01/06	EPA 8015M	
Diesel Range Organics >C12-C35	67.2	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	67.2	10.0	"	"	"	"	"	"	

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 #2
Project Number: 2002-10273
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
02/03/06 18:25

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EF-01 (6A30002-03) Soil									
Surrogate: 1-Chlorooctane		119 %	70-130		EA63114	01/31/06	02/01/06	EPA 8015M	
Surrogate: 1-Chlorooctadecane		114 %	70-130		"	"	"	"	
WF-01 (6A30002-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB60213	02/02/06	02/03/06	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		91.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA63114	01/31/06	02/01/06	EPA 8015M	
Diesel Range Organics >C12-C35	99.8	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	99.8	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		112 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-130		"	"	"	"	
CF-01 (6A30002-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB60213	02/02/06	02/03/06	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		95.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA63114	01/31/06	02/01/06	EPA 8015M	
Diesel Range Organics >C12-C35	186	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	186	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		118 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		116 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Page 3 of 9

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

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

Fax: (432) 687-4914

Reported:
02/03/06 18:25

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NF-01 (6A30002-01) Soil									
% Moisture	0.7	0.1	%	1	EA63103	01/30/06	01/31/06	% calculation	
SF-01 (6A30002-02) Soil									
% Moisture	0.5	0.1	%	1	EA63103	01/30/06	01/31/06	% calculation	
EF-01 (6A30002-03) Soil									
% Moisture	0.6	0.1	%	1	EA63103	01/30/06	01/31/06	% calculation	
WF-01 (6A30002-04) Soil									
% Moisture	2.0	0.1	%	1	EA63103	01/30/06	01/31/06	% calculation	
CF-01 (6A30002-05) Soil									
% Moisture	0.3	0.1	%	1	EA63103	01/30/06	01/31/06	% calculation	

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

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

Fax: (432) 687-4914

Reported:
02/03/06 18:25

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch EA63114 - Solvent Extraction (GC)									
Blank (EA63114-BLK1)		Prepared: 01/31/06 Analyzed: 02/01/06							
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet						
Diesel Range Organics >C12-C35	ND	10.0	"						
Total Hydrocarbon C6-C35	ND	10.0	"						
Surrogate: 1-Chlorooctane	61.5		mg/kg	50.0		123	70-130		
Surrogate: 1-Chlorooctadecane	55.1		"	50.0		110	70-130		
LCS (EA63114-BS1)		Prepared: 01/31/06 Analyzed: 02/01/06							
Gasoline Range Organics C6-C12	489	10.0	mg/kg wet	500		97.8	75-125		
Diesel Range Organics >C12-C35	549	10.0	"	500		110	75-125		
Total Hydrocarbon C6-C35	1040	10.0	"	1000		104	75-125		
Surrogate: 1-Chlorooctane	64.9		mg/kg	50.0		130	70-130		
Surrogate: 1-Chlorooctadecane	58.3		"	50.0		117	70-130		
Calibration Check (EA63114-CCV1)		Prepared: 01/31/06 Analyzed: 02/02/06							
Gasoline Range Organics C6-C12	487		mg/kg	500		97.4	80-120		
Diesel Range Organics >C12-C35	542		"	500		108	80-120		
Total Hydrocarbon C6-C35	1030		"	1000		103	80-120		
Surrogate: 1-Chlorooctane	65.0		"	50.0		130	70-130		
Surrogate: 1-Chlorooctadecane	58.5		"	50.0		117	70-130		
Matrix Spike (EA63114-MS1)		Source: 6A30007-07	Prepared: 01/31/06 Analyzed: 02/01/06						
Gasoline Range Organics C6-C12	524	10.0	mg/kg dry	561	ND	93.4	75-125		
Diesel Range Organics >C12-C35	566	10.0	"	561	ND	101	75-125		
Total Hydrocarbon C6-C35	1090	10.0	"	1120	ND	97.3	75-125		
Surrogate: 1-Chlorooctane	64.7		mg/kg	50.0		129	70-130		
Surrogate: 1-Chlorooctadecane	59.5		"	50.0		119	70-130		
Matrix Spike Dup (EA63114-MSD1)		Source: 6A30007-07	Prepared: 01/31/06 Analyzed: 02/01/06						
Gasoline Range Organics C6-C12	526	10.0	mg/kg dry	561	ND	93.8	75-125	0.381	20
Diesel Range Organics >C12-C35	566	10.0	"	561	ND	101	75-125	0.00	20
Total Hydrocarbon C6-C35	1090	10.0	"	1120	ND	97.3	75-125	0.00	20
Surrogate: 1-Chlorooctane	63.3		mg/kg	50.0		127	70-130		
Surrogate: 1-Chlorooctadecane	59.4		"	50.0		119	70-130		

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

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

Fax: (432) 687-4914

Reported:
02/03/06 18:25

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 EB60213 - EPA 5030C (GC)

Blank (EB60213-BLK1)

Prepared & Analyzed: 02/02/06

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	36.1		ug/kg	40.0		90.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.8		"	40.0		89.5	80-120			

LCS (EB60213-BS1)

Prepared & Analyzed: 02/02/06

Benzene	0.0498	0.00100	mg/kg wet	0.0500		99.6	80-120			
Toluene	0.0512	0.00100	"	0.0500		102	80-120			
Ethylbenzene	0.0529	0.00100	"	0.0500		106	80-120			
Xylene (p/m)	0.0998	0.00100	"	0.100		99.8	80-120			
Xylene (o)	0.0512	0.00100	"	0.0500		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	43.3		ug/kg	40.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	46.1		"	40.0		115	80-120			

Calibration Check (EB60213-CCV1)

Prepared: 02/02/06 Analyzed: 02/03/06

Benzene	48.7		ug/kg	50.0		97.4	80-120			
Toluene	50.4		"	50.0		101	80-120			
Ethylbenzene	48.5		"	50.0		97.0	80-120			
Xylene (p/m)	90.5		"	100		90.5	80-120			
Xylene (o)	46.0		"	50.0		92.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.5		"	40.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	33.3		"	40.0		83.2	80-120			

Matrix Spike (EB60213-MS1)

Source: 6A27003-01

Prepared: 02/02/06 Analyzed: 02/03/06

Benzene	1.25	0.0250	mg/kg dry	1.31	ND	95.4	80-120			
Toluene	1.30	0.0250	"	1.31	ND	99.2	80-120			
Ethylbenzene	1.35	0.0250	"	1.31	ND	103	80-120			
Xylene (p/m)	2.56	0.0250	"	2.62	ND	97.7	80-120			
Xylene (o)	1.31	0.0250	"	1.31	ND	100	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.8		ug/kg	40.0		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	47.7		"	40.0		119	80-120			

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 6 of 9

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

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

Fax: (432) 687-4914

Reported:
02/03/06 18:25

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 EB60213 - EPA 5030C (GC)

Matrix Spike Dup (EB60213-MSD1)

Source: 6A27003-01

Prepared: 02/02/06 Analyzed: 02/03/06

Benzene	1.15	0.0250	mg/kg dry	1.31	ND	87.8	80-120	8.30	20	
Toluene	1.22	0.0250	"	1.31	ND	93.1	80-120	6.34	20	
Ethylbenzene	1.26	0.0250	"	1.31	ND	96.2	80-120	6.83	20	
Xylene (p/m)	2.39	0.0250	"	2.62	ND	91.2	80-120	6.88	20	
Xylene (o)	1.20	0.0250	"	1.31	ND	91.6	80-120	8.77	20	
Surrogate: a,a,a-Trifluorotoluene	41.3		ug/kg	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	44.4		"	40.0		111	80-120			

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

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

Fax: (432) 687-4914

Reported:
02/03/06 18:25

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA63103 - General Preparation (Prep)										
Blank (EA63103-BLK1)				Prepared: 01/30/06 Analyzed: 01/31/06						
% Solids	100		%							
Duplicate (EA63103-DUP1)				Source: 6A27009-01 Prepared: 01/30/06 Analyzed: 01/31/06						
% Solids	96.1		%		96.1			0.00	20	
Duplicate (EA63103-DUP2)				Source: 6A27022-03 Prepared: 01/30/06 Analyzed: 01/31/06						
% Solids	92.2		%		91.3			0.981	20	
Duplicate (EA63103-DUP3)				Source: 6A30007-06 Prepared: 01/30/06 Analyzed: 01/31/06						
% Solids	97.6		%		98.4			0.816	20	

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

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

Fax: (432) 687-4914

Reported:
02/03/06 18:25

Notes and Definitions

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

Report Approved By: _____

Raland K Tuttle

Date: _____

2/3/2006

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.

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

Chain of Custody Form

Page 1 of 1

Company Name		Talon/LPE																					
LPE Project Manager		Louis Sanchez																					
Mailing Address		318 E. Taylor Street																					
City, State, Zip		Hobbs New Mexico 88240																					
LPE Phone#/Fax#		505-393-4261 / 505-393-4658																					
Client Company		PAAP / Camille Reynolds																					
Facility Name		8" Moore to Jal #2 / 2002-10273																					
Project Reference		LBSPLAINS008SPL																					
LPE Sampler Name		Jeremy Anderson																					
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	PRESERV.	MATRIX	DATE		TIME	TPH 8015M TX1005 \ TX1006	CHLORIDES (CI)	SULFATES (SO ₄)	pH	TCLP	OTHER >>>	PAH
6A 3000Z																							
-01 NF-01		G 1				X					X				1/26/06	19:20	X						
-02 SF-01		G 1				X					X				1/26/06	19:25	X						
-03 EF-01		G 1				X					X				1/26/06	19:30	X						
-04 WF-01		G 1				X					X				1/26/06	19:35	X						
-05 CF-01		G 1				X					X				1/26/06	19:40	X						
6																							
7																							
8																							
9																							
10																							

Company Name Talon/LPE

LPE Project Manager Louis Sanchez

Mailing Address 318 E. Taylor Street

City, State, Zip Hobbs New Mexico 88240

LPE Phone#/Fax# 505-393-4261 / 505-393-4658

Client Company PAAP / Camille Reynolds

Facility Name 8" Moore to Jal #2 / 2002-10273

Project Reference LBSPLAINS008SPL

LPE Sampler Name Jeremy Anderson



PLAINS
ALL AMERICAN
PIPELINE, L.P.

Attn: ENV Accounts Payable

PO Box 4648,

Houston, TX 77210-4648

ANALYSIS REQUEST

PAH	OTHER >>>	TCLP	pH	SULFATES (SO ₄)	CHLORIDES (CI)

Bill To

E-mail results to: lsanchez@talonlpe.com

REMARKS: 6.0 4oz glass

seal / reverse / label

Sample Relinquished: *[Signature]* **Date:** 1/26/06 **Received By:** *[Signature]*

Relinquished by: *[Signature]* **Date:** 2/24/06 **Received By: (lab staff)** *[Signature]*

Delivered by: *[Signature]* **Date:** 1/27/06 **Received By:** *[Signature]*

Sample Cool & Intact ☒ **Yes** ☐ **No** **Checked By:** *[Signature]*

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Sent: Plains P/L

Date/Time: 01-27-06 @ 1710

Order #: 6A 30002

Initials: JMM

Sample Receipt Checklist

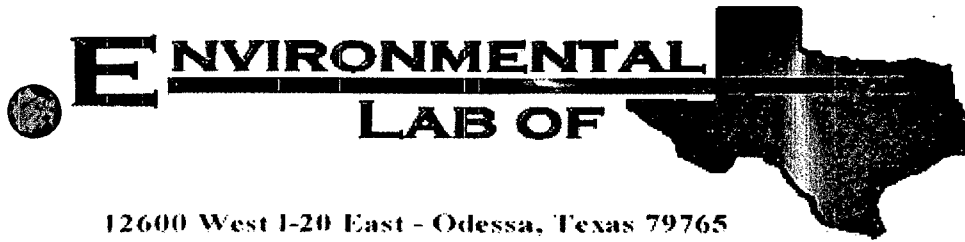
Temperature of container/cooler?	☒ Yes	☐ No	L.O	C
Shipping container/cooler in good condition?	☒ Yes	☐ No		
Custody Seals intact on shipping container/cooler?	☒ Yes	☐ No	Not present	
Custody Seals intact on sample bottles?	☒ Yes	☐ No	Not present	
Chain of custody present?	☒ Yes	☐ No		
Sample Instructions complete on Chain of Custody?	☒ Yes	☐ No		
Chain of Custody signed when relinquished and received?	☒ Yes	☐ No		
Chain of custody agrees with sample label(s)	☒ Yes	☐ No		
Container labels legible and intact?	☒ Yes	☐ No		
Sample Matrix and properties same as on chain of custody?	☒ Yes	☐ No		
Samples in proper container/bottle?	☒ Yes	☐ No		
Samples properly preserved?	☒ Yes	☐ No		
Sample bottles intact?	☒ Yes	☐ No		
Preservations documented on Chain of Custody?	☒ Yes	☐ No		
Containers documented on Chain of Custody?	☒ Yes	☐ No		
Sufficient sample amount for indicated test?	☒ Yes	☐ No		
Samples received within sufficient hold time?	☒ Yes	☐ No		
VOC samples have zero headspace?	☒ Yes	☐ No	Not Applicable	

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: 8 inch Moore to Jal #2

Project Number: 2002-10273

Location: Hobbs, NM- Lea Co.

Lab Order Number: 6H15013

Report Date: 08/17/06

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

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

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW-2	6H15013-01	Soil	08/15/06 00:00	08-15-2006 15:40

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

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

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NW-2 (6H15013-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH61616	08/16/06	08/16/06	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>		93.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH61503	08/15/06	08/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		112 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		106 %	70-130		"	"	"	"	

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

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

Fax: (432) 687-4914

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NW-2 (6H15013-01) Soil									
% Moisture	9.9	0.1	%	1	EH61601	08/15/06	08/16/06	% calculation	

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

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

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch EH61503 - EPA 5030C (GC)								
Blank (EH61503-BLK1)								
Prepared: 08/15/06 Analyzed: 08/16/06								
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	51.9		mg/kg	50.0		104	70-130	
Surrogate: 1-Chlorooctadecane	49.2		"	50.0		98.4	70-130	
LCS (EH61503-BS1)								
Prepared: 08/15/06 Analyzed: 08/16/06								
Carbon Ranges C6-C12	471	10.0	mg/kg wet	500		94.2	75-125	
Carbon Ranges C12-C28	489	10.0	"	500		97.8	75-125	
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125	
Total Hydrocarbons	960	10.0	"	1000		96.0	75-125	
Surrogate: 1-Chlorooctane	55.5		mg/kg	50.0		111	70-130	
Surrogate: 1-Chlorooctadecane	47.5		"	50.0		95.0	70-130	
Calibration Check (EH61503-CCV1)								
Prepared: 08/15/06 Analyzed: 08/16/06								
Carbon Ranges C6-C12	244		mg/kg	250		97.6	80-120	
Carbon Ranges C12-C28	295		"	250		118	80-120	
Total Hydrocarbons	539		"	500		108	80-120	
Surrogate: 1-Chlorooctane	64.6		"	50.0		129	70-130	
Surrogate: 1-Chlorooctadecane	59.7		"	50.0		119	70-130	
Matrix Spike (EH61503-MS1)								
Source: 6H15010-02 Prepared: 08/15/06 Analyzed: 08/16/06								
Carbon Ranges C6-C12	564	10.0	mg/kg dry	605	ND	93.2	75-125	
Carbon Ranges C12-C28	575	10.0	"	605	ND	95.0	75-125	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125	
Total Hydrocarbons	1140	10.0	"	1210	ND	94.2	75-125	
Surrogate: 1-Chlorooctane	58.7		mg/kg	50.0		117	70-130	
Surrogate: 1-Chlorooctadecane	50.3		"	50.0		101	70-130	

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

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

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH61503 - EPA 5030C (GC)

Matrix Spike Dup (EH61503-MSD1)

Source: 6H15010-02

Prepared: 08/15/06 Analyzed: 08/16/06

Carbon Ranges C6-C12	606	10.0	mg/kg dry	605	ND	100	75-125	7.18	20	
Carbon Ranges C12-C28	613	10.0	"	605	ND	101	75-125	6.40	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1220	10.0	"	1210	ND	101	75-125	6.78	20	
Surrogate: 1-Chlorooctane	62.1		mg/kg	50.0		124	70-130			
Surrogate: 1-Chlorooctadecane	53.7		"	50.0		107	70-130			

Batch EH61616 - EPA 5030C (GC)

Blank (EH61616-BLK1)

Prepared & Analyzed: 08/16/06

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	40.3		ug/kg	40.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0		99.5	80-120			

LCS (EH61616-BS1)

Prepared & Analyzed: 08/16/06

Benzene	1.14	0.0250	mg/kg wet	1.25		91.2	80-120			
Toluene	1.31	0.0250	"	1.25		105	80-120			
Ethylbenzene	1.20	0.0250	"	1.25		96.0	80-120			
Xylene (p/m)	2.78	0.0250	"	2.50		111	80-120			
Xylene (o)	1.34	0.0250	"	1.25		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.6		ug/kg	40.0		96.5	80-120			
Surrogate: 4-Bromofluorobenzene	44.9		"	40.0		112	80-120			

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

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

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EH61616 - EPA 5030C (GC)

Calibration Check (EH61616-CCV1)

Prepared & Analyzed: 08/16/06

Benzene	48.2		ug/kg	50.0		96.4	80-120			
Toluene	51.1		"	50.0		102	80-120			
Ethylbenzene	54.6		"	50.0		109	80-120			
Xylene (p/m)	103		"	100		103	80-120			
Xylene (o)	51.1		"	50.0		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.6		"	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	38.6		"	40.0		96.5	80-120			

Matrix Spike (EH61616-MSI)

Source: 6H15013-01

Prepared: 08/16/06 Analyzed: 08/17/06

Benzene	1.27	0.0250	mg/kg dry	1.39	ND	91.4	80-120			
Toluene	1.55	0.0250	"	1.39	ND	112	80-120			
Ethylbenzene	1.45	0.0250	"	1.39	ND	104	80-120			
Xylene (p/m)	3.31	0.0250	"	2.77	ND	119	80-120			
Xylene (o)	1.65	0.0250	"	1.39	ND	119	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.4		ug/kg	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	38.4		"	40.0		96.0	80-120			

Matrix Spike Dup (EH61616-MSD1)

Source: 6H15013-01

Prepared: 08/16/06 Analyzed: 08/17/06

Benzene	1.25	0.0250	mg/kg dry	1.39	ND	89.9	80-120	1.65	20	
Toluene	1.44	0.0250	"	1.39	ND	104	80-120	7.41	20	
Ethylbenzene	1.41	0.0250	"	1.39	ND	101	80-120	2.93	20	
Xylene (p/m)	3.32	0.0250	"	2.77	ND	120	80-120	0.837	20	
Xylene (o)	1.60	0.0250	"	1.39	ND	115	80-120	3.42	20	
Surrogate: a,a,a-Trifluorotoluene	44.3		ug/kg	40.0		111	80-120			
Surrogate: 4-Bromofluorobenzene	46.1		"	40.0		115	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 #2
Project Number: 2002-10273
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH61601 - General Preparation (Prep)										
Blank (EH61601-BLK1)				Prepared: 08/15/06 Analyzed: 08/16/06						
% Solids	100		%							
Duplicate (EH61601-DUP1)				Source: 6H15002-01 Prepared: 08/15/06 Analyzed: 08/16/06						
% Solids	90.3		%		89.0			1.45	20	
Duplicate (EH61601-DUP2)				Source: 6H15007-04 Prepared: 08/15/06 Analyzed: 08/16/06						
% Solids	97.3		%		96.9			0.412	20	
Duplicate (EH61601-DUP3)				Source: 6H15013-01 Prepared: 08/15/06 Analyzed: 08/16/06						
% Solids	90.1		%		90.1			0.00	20	

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

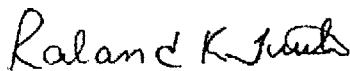
Project: 8 inch Moore to Jal #2
Project Number: 2002-10273
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

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

Report Approved By:



Date:

8/17/2006

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.

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Name: Northwell - Moore to Jol 8"#2

Project Manager: Jason Graham

Company Name	Talons / LPE

Project #: LBS PLAINS 008 SPL

Company Address:

#9 W. E. T. Rd

Project Loc: Hobbs NM - Lea Co.

City/State/Zip: Midland, TX 79701

॥०॥

Telephone No: 432-522-2133 Fax No: 432-522-2480

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Cecilia Chavez e-mail: _____

e-mail:

[illegible]

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:

Plams

Date/ Time:

8/15/06 3:40

Lab ID #:

6H15018

Initials:

CK

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	Yes	No	35 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	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 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296
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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: 7111637



Project Location: Lea County, NM
Project Name: Moore to Jal #2
Project Number: PLAINS008SPL
SRS #: 2002-10273

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
143103	MW-5 70'	soil	2007-11-16	07:31	2007-11-16
143104	MW-5 75'	soil	2007-11-16	07:32	2007-11-16
143105	MW-5 100'	soil	2007-11-16	07:34	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 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: 143103 - MW-5 70'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 43152	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.270	mg/Kg	20	0.0100
Toluene		3.39	mg/Kg	20	0.0100
Ethylbenzene		4.99	mg/Kg	20	0.0100
Xylene		14.6	mg/Kg	20	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.702	mg/Kg	20	1.00	70	65.4 - 124
4-Bromofluorobenzene (4-BFB)	¹	1.89	mg/Kg	20	1.00	189	73.9 - 138

Sample: 143103 - MW-5 70'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 43145	Date Analyzed: 2007-11-16	Analyzed By: RM
Prep Batch: 37224	Sample Preparation: 2007-11-16	Prepared By: RM

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		2810	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	²	250	mg/Kg	1	150	167	62.5 - 164

Sample: 143103 - MW-5 70'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 43154	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		709	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.707	mg/Kg	20	1.00	71	34.1 - 161
4-Bromofluorobenzene (4-BFB)	³	28.6	mg/Kg	20	1.00	2860	31.8 - 159

¹ Surrogate out due to peak interference.

² High surrogate recovery due to peak interference.

³ High surrogate recovery due to peak interference.

Sample: 143104 - MW-5 75'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 43152	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		11.7	mg/Kg	20	0.0100
Toluene	4	89.9	mg/Kg	20	0.0100
Ethylbenzene		58.4	mg/Kg	20	0.0100
Xylene	5	144	mg/Kg	20	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	6	0.470	mg/Kg	20	1.00	47	65.4 - 124
4-Bromofluorobenzene (4-BFB)	7	8.66	mg/Kg	20	1.00	866	73.9 - 138

Sample: 143104 - MW-5 75'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 43262	Date Analyzed: 2007-11-20	Analyzed By: TG
Prep Batch: 37323	Sample Preparation: 2007-11-20	Prepared By: TG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		7490	mg/Kg	10	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	8	293	mg/Kg	10	150	195	33.3 - 164

Sample: 143104 - MW-5 75'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 43199	Date Analyzed: 2007-11-19	Analyzed By: EB
Prep Batch: 37265	Sample Preparation: 2007-11-19	Prepared By: EB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		2800	mg/Kg	100	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	9	4.97	mg/Kg	100	100	5	34.1 - 161

continued ...

⁴Estimated concentration value greater than standard range.

⁵Estimated concentration value greater than standard range.

⁶Surrogate out due to peak interference.

⁷Surrogate out due to peak interference.

⁸High surrogate recovery due to peak interference.

⁹Surrogate out due to peak interference.

sample continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)	¹⁰	28.6	mg/Kg	100	100	29	31.8 - 159

Sample: 143105 - MW-5 100'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 43152	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		0.0564	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.900	mg/Kg	1	1.00	90	65.4 - 124
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	73.9 - 138

Sample: 143105 - MW-5 100'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 43145	Date Analyzed: 2007-11-16	Analyzed By: RM
Prep Batch: 37224	Sample Preparation: 2007-11-16	Prepared By: RM

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		202	mg/Kg	1	150	135	62.5 - 164

Sample: 143105 - MW-5 100'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 43154	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		11.9	mg/Kg	1	1.00

¹⁰Surrogate out due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.934	mg/Kg	1	1.00	93	34.1 - 161
4-Bromofluorobenzene (4-BFB)		1.13	mg/Kg	1	1.00	113	31.8 - 159

Method Blank (1) QC Batch: 43145

QC Batch: 43145
Prep Batch: 37224

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: RM
Prepared By: RM

Parameter	Flag	MDL Result	Units	RL
DRO		<10.7	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		216	mg/Kg	1	150	144	62.5 - 164

Method Blank (1) QC Batch: 43152

QC Batch: 43152
Prep Batch: 37232

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: KB
Prepared By: KB

Parameter	Flag	MDL 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 Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.955	mg/Kg	1	1.00	95	74.3 - 112
4-Bromofluorobenzene (4-BFB)		0.802	mg/Kg	1	1.00	80	43.1 - 98.8

Method Blank (1) QC Batch: 43154

QC Batch: 43154
Prep Batch: 37232

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: KB
Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
GRO		<0.459	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	96 - 115
4-Bromofluorobenzene (4-BFB)		0.844	mg/Kg	1	1.00	84	51.6 - 103

Method Blank (1) QC Batch: 43199

QC Batch: 43199
Prep Batch: 37265

Date Analyzed: 2007-11-19
QC Preparation: 2007-11-19

Analyzed By: EB
Prepared By: EB

Parameter	Flag	MDL Result	Units	RL
GRO		<0.459	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.03	mg/Kg	1	1.00	103	96 - 115
4-Bromofluorobenzene (4-BFB)		0.808	mg/Kg	1	1.00	81	51.6 - 103

Method Blank (1) QC Batch: 43262

QC Batch: 43262
Prep Batch: 37323

Date Analyzed: 2007-11-20
QC Preparation: 2007-11-20

Analyzed By: TG
Prepared By: TG

Parameter	Flag	MDL Result	Units	RL
DRO		<22.3	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		170	mg/Kg	1	150	113	33.3 - 164

Laboratory Control Spike (LCS-1)

QC Batch: 43145
Prep Batch: 37224

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: RM
Prepared By: RM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	275	mg/Kg	1	250	<10.7	110	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	271	mg/Kg	1	250	<10.7	108	64.1 - 124	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	205	210	mg/Kg	1	150	137	140	62.5 - 164

Laboratory Control Spike (LCS-1)

QC Batch: 43152
Prep Batch: 37232

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	0.975	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	0.984	mg/Kg	1	1.00	<0.00206	98	81.3 - 107
Xylene	2.98	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	0.965	mg/Kg	1	1.00	<0.00333	96	79.4 - 109	1	20
Toluene	0.981	mg/Kg	1	1.00	<0.00372	98	80.4 - 109	2	20
Ethylbenzene	0.961	mg/Kg	1	1.00	<0.00206	96	81.3 - 107	2	20
Xylene	2.90	mg/Kg	1	3.00	<0.00259	97	81.4 - 108	3	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)	0.989	0.948	mg/Kg	1	1.00	99	95	75.8 - 111
4-Bromofluorobenzene (4-BFB)	0.935	0.898	mg/Kg	1	1.00	94	90	69.8 - 117

Laboratory Control Spike (LCS-1)

QC Batch: 43154
Prep Batch: 37232

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	9.90	mg/Kg	1	10.0	<0.459	99	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	10.0	mg/Kg	1	10.0	<0.459	100	78.7 - 108	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.964	0.916	mg/Kg	1	1.00	96	92	83.7 - 110
4-Bromofluorobenzene (4-BFB)	0.989	0.963	mg/Kg	1	1.00	99	96	74.4 - 107

Laboratory Control Spike (LCS-1)

QC Batch: 43199
Prep Batch: 37265

Date Analyzed: 2007-11-19
QC Preparation: 2007-11-19

Analyzed By: EB
Prepared By: EB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.64	mg/Kg	1	10.0	<0.459	96	78.7 - 108

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	9.99	mg/Kg	1	10.0	<0.459	100	78.7 - 108	4	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)	0.954	0.930	mg/Kg	1	1.00	95	93	83.7 - 110
4-Bromofluorobenzene (4-BFB)	0.962	0.941	mg/Kg	1	1.00	96	94	74.4 - 107

Laboratory Control Spike (LCS-1)

QC Batch: 43262
Prep Batch: 37323

Date Analyzed: 2007-11-20
QC Preparation: 2007-11-20

Analyzed By: TG
Prepared By: TG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	235	mg/Kg	1	250	<22.3	94	54.3 - 149

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
DRO	240	mg/Kg	1	250	<22.3	96	54.3 - 149	2	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
n-Triacontane	165	168	mg/Kg	1	150	110	112	33.3 - 164

Matrix Spike (MS-1) Spiked Sample: 143102

QC Batch: 43145
Prep Batch: 37224

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: RM
Prepared By: RM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	¹¹ 402	mg/Kg	1	250	<10.7	161	47.5 - 127

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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	¹² 285	mg/Kg	1	250	<10.7	114	47.5 - 127	34	20

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

Surrogate	MS Result	MS Result	Units	Dil.	Spike Amount	MS Rec.	MS Rec.	Rec. Limit
n-Triacontane	200	185	mg/Kg	1	150	133	123	62.5 - 164

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

¹² MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

Matrix Spike (MS-1) Spiked Sample: 143101

QC Batch: 43152
Prep Batch: 37232

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.951	mg/Kg	1	1.00	<0.00333	95	43.2 - 116
Toluene	1.01	mg/Kg	1	1.00	<0.00372	101	46.3 - 121
Ethylbenzene	1.08	mg/Kg	1	1.00	<0.00206	108	54.2 - 127
Xylene	3.28	mg/Kg	1	3.00	<0.00259	109	49.9 - 131

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	0.906	mg/Kg	1	1.00	<0.00333	90	43.2 - 116	5	20
Toluene	0.966	mg/Kg	1	1.00	<0.00372	97	46.3 - 121	4	20
Ethylbenzene	1.03	mg/Kg	1	1.00	<0.00206	103	54.2 - 127	5	20
Xylene	3.12	mg/Kg	1	3.00	<0.00259	104	49.9 - 131	5	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)	0.996	1.03	mg/Kg	1	1	100	103	68 - 127
4-Bromofluorobenzene (4-BFB)	1.03	1.04	mg/Kg	1	1	103	104	68.6 - 144

Matrix Spike (MS-1) Spiked Sample: 143101

QC Batch: 43154
Prep Batch: 37232

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.34	mg/Kg	1	10.0	<0.459	83	51.3 - 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	¹³ 10.2	mg/Kg	1	10.0	<0.459	102	51.3 - 130	20	19.6

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)	1.09	0.976	mg/Kg	1	1	109	98	56.1 - 124
4-Bromofluorobenzene (4-BFB)	1.21	1.14	mg/Kg	1	1	121	114	67.1 - 146

Matrix Spike (MS-1) Spiked Sample: 143367

QC Batch: 43262
Prep Batch: 37323

Date Analyzed: 2007-11-20
QC Preparation: 2007-11-20

Analyzed By: TG
Prepared By: TG

¹³Matrix spike RPD out of control limits. Use LCS/LCSD to demonstrate analysis is under control.

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	446	mg/Kg	1	250	166	112	35.1 - 161

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	385	mg/Kg	1	250	166	88	35.1 - 161	15	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	168	151	mg/Kg	1	150	112	101	33.3 - 164

Standard (ICV-1)

QC Batch: 43145

Date Analyzed: 2007-11-16

Analyzed By: RM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	276	110	85 - 115	2007-11-16

Standard (CCV-1)

QC Batch: 43145

Date Analyzed: 2007-11-16

Analyzed By: RM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	288	115	85 - 115	2007-11-16

Standard (ICV-1)

QC Batch: 43152

Date Analyzed: 2007-11-16

Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0987	99	85 - 115	2007-11-16
Toluene		mg/Kg	0.100	0.101	101	85 - 115	2007-11-16
Ethylbenzene		mg/Kg	0.100	0.100	100	85 - 115	2007-11-16
Xylene		mg/Kg	0.300	0.306	102	85 - 115	2007-11-16

Standard (CCV-1)

QC Batch: 43152

Date Analyzed: 2007-11-16

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0976	98	85 - 115	2007-11-16
Toluene		mg/Kg	0.100	0.0999	100	85 - 115	2007-11-16
Ethylbenzene		mg/Kg	0.100	0.0978	98	85 - 115	2007-11-16
Xylene		mg/Kg	0.300	0.296	99	85 - 115	2007-11-16

Standard (ICV-1)

QC Batch: 43154

Date Analyzed: 2007-11-16

Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.950	95	85 - 115	2007-11-16

Standard (CCV-1)

QC Batch: 43154

Date Analyzed: 2007-11-16

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.970	97	85 - 115	2007-11-16

Standard (ICV-1)

QC Batch: 43199

Date Analyzed: 2007-11-19

Analyzed By: EB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.04	104	85 - 115	2007-11-19

Standard (CCV-1)

QC Batch: 43199

Date Analyzed: 2007-11-19

Analyzed By: EB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.08	108	85 - 115	2007-11-19

Standard (CCV-1)

QC Batch: 43262

Date Analyzed: 2007-11-20

Analyzed By: TG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	253	101	85 - 115	2007-11-20

Standard (CCV-2)

QC Batch: 43262

Date Analyzed: 2007-11-20

Analyzed By: TG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	240	96	85 - 115	2007-11-20

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Invoice to:

Invoice to: Plaza
(If different from above)

Project #:	Project Name:
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Project Name: 7-1#2

Sampler Signature: 11/0014

Project Location (including state):

Location (including state): Lea County, NM

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD						SAMPLING		DATE	TIME
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE			
14303	MJ-5 70'	1	1 qt	X						X				11/19/97	0731	
104	MJ-5 75'	1	1											1	0732	
105	MJ-5 100'	1	1											1	0733	
													</			

ANALYSIS REQUEST

(Circle or Specify Method No.)

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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REMARKS:

LAB USE ONLY

Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Intact  Headspace

Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
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Temp _____
Log-In-Review _____

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

ORIGINAL COPY



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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

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

Report Date: November 30, 2007

Work Order: 7111638



Project Location: Lea County, NM
Project Name: Moore to Jal #2
Project Number: PLAINS008SPL

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
143106	MW-10 75'	soil	2007-11-15	07:58	2007-11-16
143107	MW-10 100'	soil	2007-11-15	08:01	2007-11-16
143108	MW-9 75'	soil	2007-11-15	09:09	2007-11-16
143109	MW-9 100'	soil	2007-11-15	09:13	2007-11-16
143110	MW-8 80'	soil	2007-11-15	11:20	2007-11-16
143111	MW-8 100'	soil	2007-11-15	11:22	2007-11-16
143112	MW-7 75'	soil	2007-11-15	14:25	2007-11-16
143113	MW-7 100'	soil	2007-11-15	14:28	2007-11-16
143114	MW-6 80'	soil	2007-11-15	15:50	2007-11-16
143115	MW-6 100'	soil	2007-11-15	15:53	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 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: 143106 - MW-10 75'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 43152	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	65.4 - 124
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	73.9 - 138

Sample: 143106 - MW-10 75'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 43145	Date Analyzed: 2007-11-16	Analyzed By: RM
Prep Batch: 37224	Sample Preparation: 2007-11-16	Prepared By: RM

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		204	mg/Kg	1	150	136	62.5 - 164

Sample: 143106 - MW-10 75'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 43154	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	34.1 - 161
4-Bromofluorobenzene (4-BFB)		1.10	mg/Kg	1	1.00	110	31.8 - 159

Sample: 143107 - MW-10 100'

Analysis: BTEX
 QC Batch: 43152
 Prep Batch: 37232

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 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 Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.843	mg/Kg	1	1.00	84	65.4 - 124
4-Bromofluorobenzene (4-BFB)		0.849	mg/Kg	1	1.00	85	73.9 - 138

Sample: 143107 - MW-10 100'

Analysis: TPH DRO
 QC Batch: 43145
 Prep Batch: 37224

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		190	mg/Kg	1	150	127	62.5 - 164

Sample: 143107 - MW-10 100'

Analysis: TPH GRO
 QC Batch: 43154
 Prep Batch: 37232

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.925	mg/Kg	1	1.00	92	34.1 - 161
4-Bromofluorobenzene (4-BFB)		0.896	mg/Kg	1	1.00	90	31.8 - 159

Sample: 143108 - MW-9 75'

Analysis: BTEX
QC Batch: 43152
Prep Batch: 37232

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 Result	Units	Dilution	RL
Benzene		1.74	mg/Kg	20	0.0100
Toluene		22.4	mg/Kg	20	0.0100
Ethylbenzene		18.3	mg/Kg	20	0.0100
Xylene		46.9	mg/Kg	20	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	¹	0.568	mg/Kg	20	1.00	57	65.4 - 124
4-Bromofluorobenzene (4-BFB)	²	3.08	mg/Kg	20	1.00	308	73.9 - 138

Sample: 143108 - MW-9 75'

Analysis: TPH DRO
QC Batch: 43262
Prep Batch: 37323

Analytical Method: Mod. 8015B
Date Analyzed: 2007-11-20
Sample Preparation: 2007-11-20

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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		5270	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	³	335	mg/Kg	5	150	223	33.3 - 164

Sample: 143108 - MW-9 75'

Analysis: TPH GRO
QC Batch: 43154
Prep Batch: 37232

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 Result	Units	Dilution	RL
GRO		1430	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	⁴	0.280	mg/Kg	20	1.00	28	34.1 - 161
4-Bromofluorobenzene (4-BFB)	⁵	15.2	mg/Kg	20	1.00	1520	31.8 - 159

¹Surrogate out due to peak interference.

²Surrogate out due to peak interference.

³High surrogate recovery due to peak interference.

⁴Surrogate out due to peak interference.

⁵High surrogate recovery due to peak interference.

Sample: 143109 - MW-9 100'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 43152	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.907	mg/Kg	1	1.00	91	65.4 - 124
4-Bromofluorobenzene (4-BFB)		0.942	mg/Kg	1	1.00	94	73.9 - 138

Sample: 143109 - MW-9 100'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 43145	Date Analyzed: 2007-11-16	Analyzed By: RM
Prep Batch: 37224	Sample Preparation: 2007-11-16	Prepared By: RM

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	201		mg/Kg	1	150	134	62.5 - 164

Sample: 143109 - MW-9 100'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 43154	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		1.52	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	34.1 - 161
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	1.00	106	31.8 - 159

Sample: 143110 - MW-8 80'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 43152	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.798	mg/Kg	1	1.00	80	65.4 - 124
4-Bromofluorobenzene (4-BFB)		0.795	mg/Kg	1	1.00	79	73.9 - 138

Sample: 143110 - MW-8 80'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 43145	Date Analyzed: 2007-11-16	Analyzed By: RM
Prep Batch: 37224	Sample Preparation: 2007-11-16	Prepared By: RM

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		213	mg/Kg	1	150	142	62.5 - 164

Sample: 143110 - MW-8 80'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 43154	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.867	mg/Kg	1	1.00	87	34.1 - 161
4-Bromofluorobenzene (4-BFB)		0.837	mg/Kg	1	1.00	84	31.8 - 159

Sample: 143111 - MW-8 100'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 43152	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.760	mg/Kg	1	1.00	76	65.4 - 124
4-Bromofluorobenzene (4-BFB)		0.764	mg/Kg	1	1.00	76	73.9 - 138

Sample: 143111 - MW-8 100'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 43145	Date Analyzed: 2007-11-16	Analyzed By: RM
Prep Batch: 37224	Sample Preparation: 2007-11-16	Prepared By: RM

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		203	mg/Kg	1	150	135	62.5 - 164

Sample: 143111 - MW-8 100'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 43154	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.818	mg/Kg	1	1.00	82	34.1 - 161
4-Bromofluorobenzene (4-BFB)		0.791	mg/Kg	1	1.00	79	31.8 - 159

Sample: 143112 - MW-7 75'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 43152	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	⁶	<0.0500	mg/Kg	5	0.0100
Toluene		0.704	mg/Kg	5	0.0100
Ethylbenzene		1.54	mg/Kg	5	0.0100
Xylene		4.74	mg/Kg	5	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.676	mg/Kg	5	1.00	68	65.4 - 124
4-Bromofluorobenzene (4-BFB)		1.33	mg/Kg	5	1.00	133	73.9 - 138

Sample: 143112 - MW-7 75'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 43145	Date Analyzed: 2007-11-16	Analyzed By: RM
Prep Batch: 37224	Sample Preparation: 2007-11-16	Prepared By: RM

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		1820	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		222	mg/Kg	1	150	148	62.5 - 164

Sample: 143112 - MW-7 75'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 43154	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		284	mg/Kg	5	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.876	mg/Kg	5	1.00	88	34.1 - 161
4-Bromofluorobenzene (4-BFB)	⁷	11.6	mg/Kg	5	1.00	1160	31.8 - 159

⁶Sample ran at dilution due to hydrocarbons with a retention time greater than xylene.

⁷High surrogate recovery due to peak interference.

Sample: 143113 - MW-7 100'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 43152	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.867	mg/Kg	1	1.00	87	65.4 - 124
4-Bromofluorobenzene (4-BFB)		0.883	mg/Kg	1	1.00	88	73.9 - 138

Sample: 143113 - MW-7 100'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 43145	Date Analyzed: 2007-11-16	Analyzed By: RM
Prep Batch: 37224	Sample Preparation: 2007-11-16	Prepared By: RM

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		195	mg/Kg	1	150	130	62.5 - 164

Sample: 143113 - MW-7 100'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 43154	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		1.69	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.961	mg/Kg	1	1.00	96	34.1 - 161
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	1.00	106	31.8 - 159

Sample: 143114 - MW-6 80'

Analysis: BTEX
QC Batch: 43152
Prep Batch: 37232

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 Result	Units	Dilution	RL
Benzene		0.465	mg/Kg	20	0.0100
Toluene		6.21	mg/Kg	20	0.0100
Ethylbenzene		5.98	mg/Kg	20	0.0100
Xylene		16.9	mg/Kg	20	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	⁸	0.640	mg/Kg	20	1.00	64	65.4 - 124
4-Bromofluorobenzene (4-BFB)	⁹	2.26	mg/Kg	20	1.00	226	73.9 - 138

Sample: 143114 - MW-6 80'

Analysis: TPH DRO
QC Batch: 43145
Prep Batch: 37224

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 Result	Units	Dilution	RL
DRO		3050	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		240	mg/Kg	1	150	160	62.5 - 164

Sample: 143114 - MW-6 80'

Analysis: TPH GRO
QC Batch: 43154
Prep Batch: 37232

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 Result	Units	Dilution	RL
GRO		531	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.695	mg/Kg	20	1.00	70	34.1 - 161
4-Bromofluorobenzene (4-BFB)	¹⁰	32.5	mg/Kg	20	1.00	3250	31.8 - 159

⁸Surrogate out due to peak interference.

⁹Surrogate out due to peak interference.

¹⁰High surrogate recovery due to peak interference.

Sample: 143115 - MW-6 100'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 43152	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.845	mg/Kg	1	1.00	84	65.4 - 124
4-Bromofluorobenzene (4-BFB)		0.846	mg/Kg	1	1.00	85	73.9 - 138

Sample: 143115 - MW-6 100'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 43145	Date Analyzed: 2007-11-16	Analyzed By: RM
Prep Batch: 37224	Sample Preparation: 2007-11-16	Prepared By: RM

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		203	mg/Kg	1	150	135	62.5 - 164

Sample: 143115 - MW-6 100'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 43154	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.947	mg/Kg	1	1.00	95	34.1 - 161
4-Bromofluorobenzene (4-BFB)		0.942	mg/Kg	1	1.00	94	31.8 - 159

Method Blank (1) QC Batch: 43145

QC Batch: 43145	Date Analyzed: 2007-11-16	Analyzed By: RM
Prep Batch: 37224	QC Preparation: 2007-11-16	Prepared By: RM

Parameter	Flag	MDL Result	Units	RL
DRO		<10.7	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		216	mg/Kg	1	150	144	62.5 - 164

Method Blank (1) QC Batch: 43152

QC Batch: 43152
Prep Batch: 37232

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: KB
Prepared By: KB

Parameter	Flag	MDL 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 Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.955	mg/Kg	1	1.00	95	74.3 - 112
4-Bromofluorobenzene (4-BFB)		0.802	mg/Kg	1	1.00	80	43.1 - 98.8

Method Blank (1) QC Batch: 43154

QC Batch: 43154
Prep Batch: 37232

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: KB
Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
GRO		<0.459	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	96 - 115
4-Bromofluorobenzene (4-BFB)		0.844	mg/Kg	1	1.00	84	51.6 - 103

Method Blank (1) QC Batch: 43262

QC Batch: 43262
Prep Batch: 37323

Date Analyzed: 2007-11-20
QC Preparation: 2007-11-20

Analyzed By: TG
Prepared By: TG

Parameter	Flag	MDL Result	Units	RL
DRO		<22.3	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		170	mg/Kg	1	150	113	33.3 - 164

Laboratory Control Spike (LCS-1)

QC Batch: 43145
Prep Batch: 37224

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: RM
Prepared By: RM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	275	mg/Kg	1	250	<10.7	110	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	271	mg/Kg	1	250	<10.7	108	64.1 - 124	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	205	210	mg/Kg	1	150	137	140	62.5 - 164

Laboratory Control Spike (LCS-1)

QC Batch: 43152
Prep Batch: 37232

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	0.975	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	0.984	mg/Kg	1	1.00	<0.00206	98	81.3 - 107
Xylene	2.98	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	0.965	mg/Kg	1	1.00	<0.00333	96	79.4 - 109	1	20
Toluene	0.981	mg/Kg	1	1.00	<0.00372	98	80.4 - 109	2	20
Ethylbenzene	0.961	mg/Kg	1	1.00	<0.00206	96	81.3 - 107	2	20
Xylene	2.90	mg/Kg	1	3.00	<0.00259	97	81.4 - 108	3	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)	0.989	0.948	mg/Kg	1	1.00	99	95	75.8 - 111
4-Bromofluorobenzene (4-BFB)	0.935	0.898	mg/Kg	1	1.00	94	90	69.8 - 117

Laboratory Control Spike (LCS-1)

QC Batch: 43154
Prep Batch: 37232

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	9.90	mg/Kg	1	10.0	<0.459	99	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	10.0	mg/Kg	1	10.0	<0.459	100	78.7 - 108	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.964	0.916	mg/Kg	1	1.00	96	92	83.7 - 110
4-Bromofluorobenzene (4-BFB)	0.989	0.963	mg/Kg	1	1.00	99	96	74.4 - 107

Laboratory Control Spike (LCS-1)

QC Batch: 43262
Prep Batch: 37323

Date Analyzed: 2007-11-20
QC Preparation: 2007-11-20

Analyzed By: TG
Prepared By: TG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	235	mg/Kg	1	250	<22.3	94	54.3 - 149

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	240	mg/Kg	1	250	<22.3	96	54.3 - 149	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	165	168	mg/Kg	1	150	110	112	33.3 - 164

Matrix Spike (MS-1) Spiked Sample: 143102

QC Batch: 43145
Prep Batch: 37224

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: RM
Prepared By: RM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	¹¹ 402	mg/Kg	1	250	<10.7	161	47.5 - 127

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

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	¹² 285	mg/Kg	1	250	<10.7	114	47.5 - 127	34	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	200	185	mg/Kg	1	150	133	123	62.5 - 164

Matrix Spike (MS-1) Spiked Sample: 143101

QC Batch: 43152
Prep Batch: 37232

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.951	mg/Kg	1	1.00	<0.00333	95	43.2 - 116
Toluene	1.01	mg/Kg	1	1.00	<0.00372	101	46.3 - 121
Ethylbenzene	1.08	mg/Kg	1	1.00	<0.00206	108	54.2 - 127
Xylene	3.28	mg/Kg	1	3.00	<0.00259	109	49.9 - 131

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	0.906	mg/Kg	1	1.00	<0.00333	90	43.2 - 116	5	20
Toluene	0.966	mg/Kg	1	1.00	<0.00372	97	46.3 - 121	4	20
Ethylbenzene	1.03	mg/Kg	1	1.00	<0.00206	103	54.2 - 127	5	20
Xylene	3.12	mg/Kg	1	3.00	<0.00259	104	49.9 - 131	5	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)	0.996	1.03	mg/Kg	1	1	100	103	68 - 127
4-Bromofluorobenzene (4-BFB)	1.03	1.04	mg/Kg	1	1	103	104	68.6 - 144

Matrix Spike (MS-1) Spiked Sample: 143101

QC Batch: 43154
Prep Batch: 37232

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.34	mg/Kg	1	10.0	<0.459	83	51.3 - 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	¹³ 10.2	mg/Kg	1	10.0	<0.459	102	51.3 - 130	20	19.6

¹²MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

¹³Matrix spike RPD out of control limits. Use LCS/LCSD to demonstrate analysis is under control.

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)	1.09	0.976	mg/Kg	1	1	109	98	56.1 - 124
4-Bromofluorobenzene (4-BFB)	1.21	1.14	mg/Kg	1	1	121	114	67.1 - 146

Matrix Spike (MS-1) Spiked Sample: 143367

QC Batch: 43262
Prep Batch: 37323

Date Analyzed: 2007-11-20
QC Preparation: 2007-11-20

Analyzed By: TG
Prepared By: TG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	446	mg/Kg	1	250	166	112	35.1 - 161

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	385	mg/Kg	1	250	166	88	35.1 - 161	15	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	168	151	mg/Kg	1	150	112	101	33.3 - 164

Standard (ICV-1)

QC Batch: 43145

Date Analyzed: 2007-11-16

Analyzed By: RM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	276	110	85 - 115	2007-11-16

Standard (CCV-1)

QC Batch: 43145

Date Analyzed: 2007-11-16

Analyzed By: RM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	288	115	85 - 115	2007-11-16

Standard (CCV-2)

QC Batch: 43145

Date Analyzed: 2007-11-16

Analyzed By: RM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	281	112	85 - 115	2007-11-16

Standard (ICV-1)

QC Batch: 43152

Date Analyzed: 2007-11-16

Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0987	99	85 - 115	2007-11-16
Toluene		mg/Kg	0.100	0.101	101	85 - 115	2007-11-16
Ethylbenzene		mg/Kg	0.100	0.100	100	85 - 115	2007-11-16
Xylene		mg/Kg	0.300	0.306	102	85 - 115	2007-11-16

Standard (CCV-1)

QC Batch: 43152

Date Analyzed: 2007-11-16

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0976	98	85 - 115	2007-11-16
Toluene		mg/Kg	0.100	0.0999	100	85 - 115	2007-11-16
Ethylbenzene		mg/Kg	0.100	0.0978	98	85 - 115	2007-11-16
Xylene		mg/Kg	0.300	0.296	99	85 - 115	2007-11-16

Standard (ICV-1)

QC Batch: 43154

Date Analyzed: 2007-11-16

Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.950	95	85 - 115	2007-11-16

Standard (CCV-1)

QC Batch: 43154

Date Analyzed: 2007-11-16

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.970	97	85 - 115	2007-11-16

Standard (CCV-1)

QC Batch: 43262

Date Analyzed: 2007-11-20

Analyzed By: TG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	253	101	85 - 115	2007-11-20

Standard (CCV-2)

QC Batch: 43262

Date Analyzed: 2007-11-20

Analyzed By: TG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	240	96	85 - 115	2007-11-20

TraceAnalysis, Inc.

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Company Name: Talon LPE Phone #: 505-393-4261
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 Contact Person: Marie S. Vargo E-mail: marie.s.vargo@talonlpe.com
 Invoice to: Plains
 Project #: Plains 008 SPL SRS# 2002-10273 Project Name: Mole J.S. / #2
 Project Location (including state): Lee County, NM Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	DATE	TIME
143106	MW-10 75'	1	10L	X								X	11/16/07	0758
107	MW-10 100'	1											1080	0809
108	MW-9 75'	1											0913	0909
109	MW-9 100'	1											1120	1122
110	MW-8 80'	1											1425	1428
111	MW-8 100'	1											1500	1501
112	MW-7 75'	1											1553	1553
113	MW-7 100'	1												
114	MW-6 80'	1												
115	MW-6 100'	1												

Relinquished by: <u>[Signature]</u> Date: <u>11/16/07</u> Time: <u>1630</u>	Received by: _____ Date: _____ Time: _____
Relinquished by: <u>[Signature]</u> Date: <u>11/16/07</u> Time: <u>1400</u>	Received by: <u>Michael [Signature]</u> Date: <u>11/16/07</u> Time: <u>1400</u>

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

ORIGINAL COPY

LAB Order ID # 111658

Page 1 of 1

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ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ex(C35)	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 8010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCBs 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard
X	X														

REMARKS:

LAB USE ONLY
 Intact: DN
 Headspace: Y/N
 Temp: 44
 Log-In/Review: [Signature]

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

Carrier # 2011412



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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: 7111639



Project Location: Lea County, NM
Project Name: Moore to Jal #2
Project Number: PLAINS008SPL

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
143116	MW-12 80'	soil	2007-11-14	07:26	2007-11-16
143117	MW-12 100'	soil	2007-11-14	07:28	2007-11-16
143118	MW-13 80'	soil	2007-11-14	09:09	2007-11-16
143119	MW-13 100'	soil	2007-11-14	09:12	2007-11-16
143120	MW-11 75'	soil	2007-11-14	13:53	2007-11-16
143121	MW-11 100'	soil	2007-11-14	13:56	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 17 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: 143116 - MW-12 80'

Analysis: BTEX
 QC Batch: 43152
 Prep Batch: 37232

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 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 Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.918	mg/Kg	1	1.00	92	65.4 - 124
4-Bromofluorobenzene (4-BFB)		0.922	mg/Kg	1	1.00	92	73.9 - 138

Sample: 143116 - MW-12 80'

Analysis: TPH DRO
 QC Batch: 43145
 Prep Batch: 37224

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		188	mg/Kg	1	150	125	62.5 - 164

Sample: 143116 - MW-12 80'

Analysis: TPH GRO
 QC Batch: 43154
 Prep Batch: 37232

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	34.1 - 161
4-Bromofluorobenzene (4-BFB)		0.970	mg/Kg	1	1.00	97	31.8 - 159

Sample: 143117 - MW-12 100'

Analysis: BTEX
QC Batch: 43152
Prep Batch: 37232

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 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 Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.07	mg/Kg	1	1.00	107	65.4 - 124
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	73.9 - 138

Sample: 143117 - MW-12 100'

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		199	mg/Kg	1	150	133	62.5 - 164

Sample: 143117 - MW-12 100'

Analysis: TPH GRO
QC Batch: 43154
Prep Batch: 37232

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.16	mg/Kg	1	1.00	116	34.1 - 161
4-Bromofluorobenzene (4-BFB)		1.09	mg/Kg	1	1.00	109	31.8 - 159

Sample: 143118 - MW-13 80'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 43152	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.977	mg/Kg	1	1.00	98	65.4 - 124
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	1	1.00	100	73.9 - 138

Sample: 143118 - MW-13 80'

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		191	mg/Kg	1	150	127	62.5 - 164

Sample: 143118 - MW-13 80'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 43154	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	34.1 - 161
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	31.8 - 159

Sample: 143119 - MW-13 100'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 43152	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.874	mg/Kg	1	1.00	87	65.4 - 124
4-Bromofluorobenzene (4-BFB)		0.838	mg/Kg	1	1.00	84	73.9 - 138

Sample: 143119 - MW-13 100'

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		194	mg/Kg	1	150	129	62.5 - 164

Sample: 143119 - MW-13 100'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 43154	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.941	mg/Kg	1	1.00	94	34.1 - 161
4-Bromofluorobenzene (4-BFB)		0.879	mg/Kg	1	1.00	88	31.8 - 159

Sample: 143120 - MW-11 75'

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 43152	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.899	mg/Kg	1	1.00	90	65.4 - 124
4-Bromofluorobenzene (4-BFB)		0.908	mg/Kg	1	1.00	91	73.9 - 138

Sample: 143120 - MW-11 75'

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		204	mg/Kg	1	150	136	62.5 - 164

Sample: 143120 - MW-11 75'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 43154	Date Analyzed: 2007-11-16	Analyzed By: KB
Prep Batch: 37232	Sample Preparation: 2007-11-16	Prepared By: KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.918	mg/Kg	1	1.00	92	34.1 - 161
4-Bromofluorobenzene (4-BFB)		0.947	mg/Kg	1	1.00	95	31.8 - 159

Sample: 143121 - MW-11 100'

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 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 Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.829	mg/Kg	1	1.00	83	65.4 - 124
4-Bromofluorobenzene (4-BFB)		0.806	mg/Kg	1	1.00	81	73.9 - 138

Sample: 143121 - MW-11 100'

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		196	mg/Kg	1	150	131	62.5 - 164

Sample: 143121 - MW-11 100'

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.836	mg/Kg	1	1.00	84	34.1 - 161
4-Bromofluorobenzene (4-BFB)		0.848	mg/Kg	1	1.00	85	31.8 - 159

Method Blank (1) QC Batch: 43145

QC Batch: 43145
 Prep Batch: 37224

Date Analyzed: 2007-11-16
 QC Preparation: 2007-11-16

Analyzed By: RM
 Prepared By: RM

Parameter	Flag	MDL Result	Units	RL
DRO		<10.7	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		216	mg/Kg	1	150	144	62.5 - 164

Method Blank (1) QC Batch: 43146

QC Batch: 43146
Prep Batch: 37225

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: RM
Prepared By: RM

Parameter	Flag	MDL Result	Units	RL
DRO		<10.7	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		207	mg/Kg	1	150	138	62.5 - 164

Method Blank (1) QC Batch: 43152

QC Batch: 43152
Prep Batch: 37232

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: KB
Prepared By: KB

Parameter	Flag	MDL 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 Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.955	mg/Kg	1	1.00	95	74.3 - 112
4-Bromofluorobenzene (4-BFB)		0.802	mg/Kg	1	1.00	80	43.1 - 98.8

Method Blank (1) QC Batch: 43154

QC Batch: 43154
Prep Batch: 37232

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: KB
Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
GRO		<0.459	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	96 - 115
4-Bromofluorobenzene (4-BFB)		0.844	mg/Kg	1	1.00	84	51.6 - 103

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 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 Amount	Percent Recovery	Recovery 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 Result	Units	RL
GRO		<0.459	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery 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: 43145
Prep Batch: 37224

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: RM
Prepared By: RM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	275	mg/Kg	1	250	<10.7	110	64.1 - 124

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

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	271	mg/Kg	1	250	<10.7	108	64.1 - 124	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	205	210	mg/Kg	1	150	137	140	62.5 - 164

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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. 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: 43152
Prep Batch: 37232

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	0.975	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	0.984	mg/Kg	1	1.00	<0.00206	98	81.3 - 107
Xylene	2.98	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	0.965	mg/Kg	1	1.00	<0.00333	96	79.4 - 109	1	20
Toluene	0.981	mg/Kg	1	1.00	<0.00372	98	80.4 - 109	2	20
Ethylbenzene	0.961	mg/Kg	1	1.00	<0.00206	96	81.3 - 107	2	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Xylene	2.90	mg/Kg	1	3.00	<0.00259	97	81.4 - 108	3	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)	0.989	0.948	mg/Kg	1	1.00	99	95	75.8 - 111
4-Bromofluorobenzene (4-BFB)	0.935	0.898	mg/Kg	1	1.00	94	90	69.8 - 117

Laboratory Control Spike (LCS-1)

QC Batch: 43154
Prep Batch: 37232

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	9.90	mg/Kg	1	10.0	<0.459	99	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	10.0	mg/Kg	1	10.0	<0.459	100	78.7 - 108	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.964	0.916	mg/Kg	1	1.00	96	92	83.7 - 110
4-Bromofluorobenzene (4-BFB)	0.989	0.963	mg/Kg	1	1.00	99	96	74.4 - 107

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 Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. 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: 143102

QC Batch: 43145
Prep Batch: 37224

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: RM
Prepared By: RM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	¹ 402	mg/Kg	1	250	<10.7	161	47.5 - 127

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	² 285	mg/Kg	1	250	<10.7	114	47.5 - 127	34	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	200	185	mg/Kg	1	150	133	123	62.5 - 164

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

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

²MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. 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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD 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 Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	188	192	mg/Kg	1	150	125	128	62.5 - 164

Matrix Spike (MS-1) Spiked Sample: 143101

QC Batch: 43152
Prep Batch: 37232

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.951	mg/Kg	1	1.00	<0.00333	95	43.2 - 116
Toluene	1.01	mg/Kg	1	1.00	<0.00372	101	46.3 - 121
Ethylbenzene	1.08	mg/Kg	1	1.00	<0.00206	108	54.2 - 127
Xylene	3.28	mg/Kg	1	3.00	<0.00259	109	49.9 - 131

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	0.906	mg/Kg	1	1.00	<0.00333	90	43.2 - 116	5	20
Toluene	0.966	mg/Kg	1	1.00	<0.00372	97	46.3 - 121	4	20
Ethylbenzene	1.03	mg/Kg	1	1.00	<0.00206	103	54.2 - 127	5	20
Xylene	3.12	mg/Kg	1	3.00	<0.00259	104	49.9 - 131	5	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)	0.996	1.03	mg/Kg	1	1	100	103	68 - 127
4-Bromofluorobenzene (4-BFB)	1.03	1.04	mg/Kg	1	1	103	104	68.6 - 144

Matrix Spike (MS-1) Spiked Sample: 143101

QC Batch: 43154
Prep Batch: 37232

Date Analyzed: 2007-11-16
QC Preparation: 2007-11-16

Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.34	mg/Kg	1	10.0	<0.459	83	51.3 - 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	³ 10.2	mg/Kg	1	10.0	<0.459	102	51.3 - 130	20	19.6

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)	1.09	0.976	mg/Kg	1	1	109	98	56.1 - 124
4-Bromofluorobenzene (4-BFB)	1.21	1.14	mg/Kg	1	1	121	114	67.1 - 146

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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. 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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD 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 Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. 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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. 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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	8.20	mg/Kg	1	10.0	<0.459	82	51.3 - 130	9	19.6

³Matrix spike RPD out of control limits. Use LCS/LCSD to demonstrate analysis is under control.

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)	0.865	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 (CCV-1)

QC Batch: 43145

Date Analyzed: 2007-11-16

Analyzed By: RM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	288	115	85 - 115	2007-11-16

Standard (CCV-2)

QC Batch: 43145

Date Analyzed: 2007-11-16

Analyzed By: RM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	281	112	85 - 115	2007-11-16

Standard (ICV-1)

QC Batch: 43146

Date Analyzed: 2007-11-16

Analyzed By: RM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date 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 True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	284	114	85 - 115	2007-11-16

Standard (ICV-1)

QC Batch: 43152

Date Analyzed: 2007-11-16

Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0987	99	85 - 115	2007-11-16

continued ...

standard continued ...

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/Kg	0.100	0.101	101	85 - 115	2007-11-16
Ethylbenzene		mg/Kg	0.100	0.100	100	85 - 115	2007-11-16
Xylene		mg/Kg	0.300	0.306	102	85 - 115	2007-11-16

Standard (CCV-1)

QC Batch: 43152

Date Analyzed: 2007-11-16

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0976	98	85 - 115	2007-11-16
Toluene		mg/Kg	0.100	0.0999	100	85 - 115	2007-11-16
Ethylbenzene		mg/Kg	0.100	0.0978	98	85 - 115	2007-11-16
Xylene		mg/Kg	0.300	0.296	99	85 - 115	2007-11-16

Standard (ICV-1)

QC Batch: 43154

Date Analyzed: 2007-11-16

Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.950	95	85 - 115	2007-11-16

Standard (CCV-1)

QC Batch: 43154

Date Analyzed: 2007-11-16

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.970	97	85 - 115	2007-11-16

Standard (ICV-1)

QC Batch: 43155

Date Analyzed: 2007-11-16

Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date 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 True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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 True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date 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 True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.917	92	85 - 115	2007-11-16

TraceAnalysis, Inc.

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Contact Person: Marc S. Lopez E-mail: mslope@trace.com

Invoice to: Plains

(if different from above)

Project # Plains COBSAL SPS# 2002-10273 Project Name: Moore 651 #2

Project Location (including state): Lean Co. NM Sampler Signature: [Signature]

LAB # LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING		DATE	TIME
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE				
143116	MW-12 80'	1	4oz	X								X			11/14/07	0722	
147	MW-12 100'															0728	
119	MW-13 80'															0909	
119	MW-13 100'															0912	
120	MW-11 75'															1353	
121	MW-11 100'															1356	

RELINQUISHED BY: [Signature] Date: 11/14/07 Time: 1500 Received by: _____ Date: _____ Time: _____

RELINQUISHED BY: [Signature] Date: 11/14/07 Time: 1400 Received by: [Signature] Date: 11/14/07 Time: 1400

Received at Laboratory by: [Signature] Date: 11/14/07 Time: 1400

ANALYSIS REQUEST (Circle or Specify Method No.)

☒ MTBE 8021B / 602 / 8260B / 624	☒ TPH 418.1 / TX1005 / TX1005 Ext(C35)	☒ PAH 8270C / 625	☒ Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	☒ TCLP Volatiles	☒ TCLP Semi Volatiles	☒ TCLP Pesticides	☒ RCI	☒ GC/MS Vol. 8260B / 624	☒ GC/MS Semi. Vol. 8270C / 625	☒ PCB's 8082 / 608	☒ Pesticides 8081A / 608	☒ BOD, TSS, pH	☒ Moisture Content	☐ Turn Around Time if different from standard
--	--	---	--	--	---	---	---	--	--	--	--	--	--	--

REMARKS:

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

Carrier # 1000000

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

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Analytical and Quality Control Report

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

Report Date: April 4, 2008

Work Order: 8032811



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

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
154970	MW-4	water	2008-03-27	12:41	2008-03-28
154971	MW-8	water	2008-03-27	12:50	2008-03-28
154972	MW-10	water	2008-03-27	13:32	2008-03-28
154973	MW-11	water	2008-03-27	15:00	2008-03-28
154974	MW-12	water	2008-03-27	16:21	2008-03-28
154975	MW-13	water	2008-03-27	12:46	2008-03-28

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: 154970 - MW-4

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 Result	Units	Dilution	RL
Benzene		21.8	mg/L	200	0.00100
Toluene		0.956	mg/L	200	0.00100
Ethylbenzene		0.724	mg/L	200	0.00100
Xylene		0.811	mg/L	200	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		22.1	mg/L	200	20.0	110	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		15.7	mg/L	200	20.0	78	40.1 - 136

Sample: 154971 - MW-8

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 Result	Units	Dilution	RL
Benzene		3.00	mg/L	10	0.00100
Toluene		0.0817	mg/L	10	0.00100
Ethylbenzene		0.0283	mg/L	10	0.00100
Xylene		0.187	mg/L	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.08	mg/L	10	1.00	108	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.794	mg/L	10	1.00	79	40.1 - 136

Sample: 154972 - MW-10

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 Result	Units	Dilution	RL
Benzene		0.0283	mg/L	1	0.00100
Toluene		0.00240	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00290	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)		0.0788	mg/L	1	0.100	79	40.1 - 136

Sample: 154973 - MW-11

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		0.0533	mg/L	1	0.00100
Toluene		0.0177	mg/L	1	0.00100
Ethylbenzene		0.00230	mg/L	1	0.00100
Xylene		0.00820	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0804	mg/L	1	0.100	80	40.1 - 136

Sample: 154974 - MW-12

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 47068 Date Analyzed: 2008-04-02 Analyzed By: DC
Prep Batch: 40483 Sample Preparation: 2008-04-02 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0566	mg/L	1	0.00100
Toluene		0.0189	mg/L	1	0.00100
Ethylbenzene		0.00270	mg/L	1	0.00100
Xylene		0.00720	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0782	mg/L	1	0.100	78	40.1 - 136

Sample: 154975 - MW-13

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 47097 Date Analyzed: 2008-04-03 Analyzed By: DC
Prep Batch: 40483 Sample Preparation: 2008-04-02 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.598	mg/L	5	0.00100

continued ...

sample 154975 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<0.00500	mg/L	5	0.00100
Ethylbenzene		0.0115	mg/L	5	0.00100
Xylene		0.00860	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.536	mg/L	5	0.500	107	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.361	mg/L	5	0.500	72	40.1 - 136

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	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

Method Blank (1) QC Batch: 47068

QC Batch: 47068
Prep Batch: 40483

Date Analyzed: 2008-04-02
QC Preparation: 2008-04-02

Analyzed By: DC
Prepared By: DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0818	mg/L	1	0.100	82	69.1 - 122.3

Method Blank (1) QC Batch: 47097

QC Batch: 47097
Prep Batch: 40483

Date Analyzed: 2008-04-03
QC Preparation: 2008-04-02

Analyzed By: DC
Prepared By: DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0746	mg/L	1	0.100	75	69.1 - 122.3

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	LCSD 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	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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

Laboratory Control Spike (LCS-1)

QC Batch: 47068
Prep Batch: 40483

Date Analyzed: 2008-04-02
QC Preparation: 2008-04-02

Analyzed By: DC
Prepared By: DC

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.105	mg/L	1	0.100	<0.00110	105	84 - 119.7
Toluene	0.104	mg/L	1	0.100	<0.00100	104	84.9 - 118.2
Ethylbenzene	0.103	mg/L	1	0.100	<0.00100	103	84.4 - 118.6
Xylene	0.308	mg/L	1	0.300	<0.00290	103	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
Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.102	mg/L	1	0.100	<0.00110	102	84 - 119.7	3	20
Toluene	0.102	mg/L	1	0.100	<0.00100	102	84.9 - 118.2	2	20
Ethylbenzene	0.100	mg/L	1	0.100	<0.00100	100	84.4 - 118.6	3	20
Xylene	0.299	mg/L	1	0.300	<0.00290	100	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)	0.108	0.109	mg/L	1	0.100	108	109	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0831	0.0832	mg/L	1	0.100	83	83	67.7 - 126.3

Laboratory Control Spike (LCS-1)

QC Batch: 47097
Prep Batch: 40483

Date Analyzed: 2008-04-03
QC Preparation: 2008-04-02

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.103	mg/L	1	0.100	<0.00110	103	84 - 119.7
Toluene	0.103	mg/L	1	0.100	<0.00100	103	84.9 - 118.2
Ethylbenzene	0.102	mg/L	1	0.100	<0.00100	102	84.4 - 118.6
Xylene	0.303	mg/L	1	0.300	<0.00290	101	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
Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.102	mg/L	1	0.100	<0.00110	102	84 - 119.7	1	20
Toluene	0.101	mg/L	1	0.100	<0.00100	101	84.9 - 118.2	2	20
Ethylbenzene	0.101	mg/L	1	0.100	<0.00100	101	84.4 - 118.6	1	20
Xylene	0.300	mg/L	1	0.300	<0.00290	100	84.8 - 117.8	1	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.107	0.108	mg/L	1	0.100	107	108	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0762	0.0781	mg/L	1	0.100	76	78	67.7 - 126.3

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

Matrix Spike (MS-1) Spiked Sample: 155047

QC Batch: 47068
Prep Batch: 40483

Date Analyzed: 2008-04-02
QC Preparation: 2008-04-02

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.80	mg/L	10	1.00	0.8348	96	77.5 - 121.1
Toluene	0.983	mg/L	10	1.00	<0.0100	98	78.8 - 119.6
Ethylbenzene	0.974	mg/L	10	1.00	<0.0100	97	77.9 - 120.5
Xylene	2.89	mg/L	10	3.00	<0.0290	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	1.70	mg/L	10	1.00	0.8348	86	77.5 - 121.1	6	20
Toluene	0.866	mg/L	10	1.00	<0.0100	87	78.8 - 119.6	13	20
Ethylbenzene	0.848	mg/L	10	1.00	<0.0100	85	77.9 - 120.5	14	20
Xylene	2.51	mg/L	10	3.00	<0.0290	84	78.3 - 119.4	14	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)	1.10	1.09	mg/L	10	1	110	109	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	0.787	0.783	mg/L	10	1	79	78	59.4 - 127.3

Matrix Spike (MS-1) Spiked Sample: 154975

QC Batch: 47097
Prep Batch: 40483

Date Analyzed: 2008-04-03
QC Preparation: 2008-04-02

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.09	mg/L	5	0.500	0.5975	98	77.5 - 121.1
Toluene	0.499	mg/L	5	0.500	<0.00500	100	78.8 - 119.6
Ethylbenzene	0.507	mg/L	5	0.500	0.0115	99	77.9 - 120.5
Xylene	1.48	mg/L	5	1.50	<0.0145	98	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	1.10	mg/L	5	0.500	0.5975	100	77.5 - 121.1	1	20
Toluene	0.508	mg/L	5	0.500	<0.00500	102	78.8 - 119.6	2	20
Ethylbenzene	0.518	mg/L	5	0.500	0.0115	101	77.9 - 120.5	2	20
Xylene	1.51	mg/L	5	1.50	<0.0145	100	78.3 - 119.4	2	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.537	0.540	mg/L	5	0.5	107	108	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	0.373	0.372	mg/L	5	0.5	75	74	59.4 - 127.3

Standard (ICV-1)

QC Batch: 47018

Date Analyzed: 2008-04-01

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.100	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 True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

Standard (ICV-1)

QC Batch: 47068

Date Analyzed: 2008-04-02

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.102	102	85 - 115	2008-04-02
Toluene		mg/L	0.100	0.101	101	85 - 115	2008-04-02
Ethylbenzene		mg/L	0.100	0.100	100	85 - 115	2008-04-02
Xylene		mg/L	0.300	0.299	100	85 - 115	2008-04-02

Standard (CCV-1)

QC Batch: 47068

Date Analyzed: 2008-04-02

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.104	104	85 - 115	2008-04-02
Toluene		mg/L	0.100	0.103	103	85 - 115	2008-04-02
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2008-04-02
Xylene		mg/L	0.300	0.304	101	85 - 115	2008-04-02

Standard (ICV-1)

QC Batch: 47097

Date Analyzed: 2008-04-03

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.107	107	85 - 115	2008-04-03
Toluene		mg/L	0.100	0.107	107	85 - 115	2008-04-03
Ethylbenzene		mg/L	0.100	0.106	106	85 - 115	2008-04-03
Xylene		mg/L	0.300	0.314	105	85 - 115	2008-04-03

Standard (CCV-1)

QC Batch: 47097

Date Analyzed: 2008-04-03

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.100	100	85 - 115	2008-04-03
Toluene		mg/L	0.100	0.0999	100	85 - 115	2008-04-03
Ethylbenzene		mg/L	0.100	0.0998	100	85 - 115	2008-04-03
Xylene		mg/L	0.300	0.296	99	85 - 115	2008-04-03

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

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

6015 Harris Pkwy., Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Company Name:

Phone #: (432) 522-2133

Address: _____ (Street, City, Zip)

2901 R
Contact Person:

E-mail: Ssmith@talorpe.com

Invoice to:

(If different from above) PHAINS 5A5# 2002-10273 Camille Reynolds
Project #:

Project Name:

Project Name: 8" More to Jal #2

Sampler Signature:

W. N. 5997

[illegible]ANALYSIS REQUEST
(Circle or Specify Method No.)

	MTBE	8021B / 602 / 8260B / 624	
	BTEX	8021B / 602 / 8260B / 624	R R R R R R
	TPH	418.1 / TX1005 / TX1005 Ext(C35)	
	TPH	8015 GRO / DRO / TVHC	
	PAH	8270C / 625	
	Total Metals	Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	
	TCLP Metals	Ag As Ba Cd Cr Pb Se Hg	
	TCLP Volatiles		
	TCLP Semi Volatiles		
	TCLP Pesticides		
	RCI		
	GC/MS Vol.	8260B / 624	
	GC/MS Semi. Vol.	8270C / 625	
	PCB's	8082 / 608	
	Pesticides	8081A / 608	
	BOD, TSS, PH		
	Moisture Content		
	Turn Around Time if different from standard		
	Hold		

LAB USE ONLY

Intact Y/N
 Headspace Y/N
 Temp 3.1
 Log-in-Review

REMARKS:

All tests - Midland

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

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

ORIGINAL COPY

APPENDIX C

Letter – NMOCD Backfill & Excavation Approval



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

June 8, 2006

Ms. Camille Reynolds
Plains Pipeline
3112 West Highway 82
Lovington, NM 88260

RE: Plains Pipeline Soil Over Excavation and Backfill Work Plan
8-Inch Moore to Jal #2 Release Site
NW/4 SE/4 of Section 16, Township 17 South, Range 37 East
Lea County, New Mexico
NMOCD File Number: 1R-0381

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (NMOCD) has received and reviewed the above work plan prepared on behalf of Plains Pipeline (Plains) by Talon/LPE and dated May 2006. This work plan is hereby approved with the following understandings and conditions:

1. Plains will vertically extend monitor well MW-1 to a level which will place it above the resulting backfill. The monitor well will be re-surveyed after extension.
2. Plains will excavate the area of impact designated NW-2 another two feet. Plains will sample this resulting additional excavation and analyze for total petroleum hydrocarbons.
3. Plains will fill the bottom of the excavation with an even, six-inch layer of sand.
4. Plains will install a 20-mil liner on top of the sand covering the bottom of the excavation.
5. Plains will place an additional 6-inch layer of sand on top of the liner.
6. Plains will then backfill the excavation as described in the "Restoration Activities Work Plan" section shown on page 8 of the work plan.
7. Plains will continue groundwater monitoring and product recovery activities at the site.
8. Detail of all of the above activities, and any other necessary activities, at the site in the 2006 Annual Groundwater Monitoring Report to be submitted to the NMOCD Santa Fe office no later than April 1, 2007.

June 8, 2006

Page 2 of 2

NMOCD approval does not relieve Plains of responsibility should its operations at this site prove to have been harmful to public health or the environment. Nor does it relieve Plains of its responsibility to comply with the rules and regulations of any other governmental agency.

If you have any questions, contact Wayne Price at (505) 476-3490 or wayne.price@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION



Ed Martin

Environmental Bureau

Copy: Jason M. Graham, Talon/LPE
NMOCD, Hobbs

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

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

Surface Owner: State of New Mexico	Mineral Owner:	Lease No.:
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LOCATION OF RELEASE

Unit Letter J	Section 16	Township T17S	Range R37E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea Lat. 32 49' 56.61"N Lon. 103 15' 08.47"W
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NATURE OF RELEASE

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

If a Watercourse was Impacted, Describe Fully: * NA

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

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

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

Signature:	OIL CONSERVATION DIVISION		
Printed Name: Frank Hernandez	Approved by District Supervisor:		
Title: District Environmental Supervisor	Approval Date:	Expiration Date:	
Date: October 23, 2003 Phone: 915.638.3799	Conditions of Approval:	Attached ☐	

* Attach Additional Sheets If Necessary

EOTT Site Information and Metrics

Incident Date:

10-22-02 @ 5:00 Pm

NMOCD Notified:

10-23-02 @ 7:00 AM

SITE: 8" Moore to Jal #2		Assigned Site Reference #: 2002-10273	
Company: EOTT			
Street Address: PO Box 1660			
Mailing Address: 5805 East Highway 80			
City, State, Zip: Midland, Texas 79702			
Representative: Frank Hernandez			
Representative Telephone: 915.638.3799			
Telephone:			
Fluid volume released (bbls): 25 bbls		Recovered (bbls): 0 bbls	
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)			
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)			
Leak, Spill, or Pit (LSP) Name: 8" Moore to Jal #2			
Source of contamination: 8" Steel Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico			
LSP Dimensions ~160' x 40'			
LSP Area: 5,794 sqft ft ²			
Location of Reference Point (RP)			
Location distance and direction from RP			
Latitude: 32 49' 56.61"N			
Longitude: 103 15' 08.47"W			
Elevation above mean sea level:			
Feet from South Section Line			
Feet from West Section Line			
Location- Unit or ¼¼: NW¼ of the SE¼		Unit Letter: J	
Location- Section: 16			
Location- Township: T17S			
Location- Range: R37E			
Surface water body within 1000' radius of site: none			
Surface water body within 1000' radius of site:			
Domestic water wells within 1000' radius of site: none			
Domestic water wells within 1000' radius of site:			
Agricultural water wells within 1000' radius of site: none			
Agricultural water wells within 1000' radius of site:			
Public water supply wells within 1000' radius of site: none			
Public water supply wells within 1000' radius of site:			
Depth from land surface to ground water (DG) ~66'bgs			
Depth of contamination (DC) - ?			
Depth to ground water (DG - DC = DtGW) - 0			
1. Ground Water		2. Wellhead Protection Area	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or; <200' from private domestic water source: 20 points	
If Depth to GW 50 to 99 feet: 10 points		If >1000' from water source, or; >200' from private domestic water source: 0 points	
If Depth to GW >100 feet: 0 points		Wellhead Protection Area Score= 0	
Ground water Score = 20		Surface Water Score= 0	
Site Rank (1+2+3) = 20			
Total Site Ranking Score and Acceptable Concentrations			
Parameter	>19	10-19	0-9
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX ¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm

¹100 ppm field VOC headspace measurement may be substituted for lab analysis