AP - 91

ANNUAL MONITORING REPORT

YEAR(S): 2009

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2009 ANNUAL GROUNDWATER MONITORING REPORT
8" MOORE TO JAL #1
SE ¼ OF THE NW ¼ OF SECTION 16, TOWNSHIP 17 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
PLAINS SRS #2002-10270
NMOCD REF. # AP-91

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APR 12 2010
Environmental Bureau
Oil Conservation Division

PREPARED FOR:

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March 15, 2010

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March 29, 2010

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APR 12 2010

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 All American – 2009 Annual Monitoring Reports
6 Sites in Lea County, New Mexico

Dear Mr. Hansen:

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

8-inch Moore to Jal #1	1R-0380	AP-91	Section 16, T17S, R37E, Lea County
8-inch Moore to Jal #2	1R-0381	AP-92	Section 16, T17S, R37E, Lea County
C.S. Cayler	AP-052		Section 06, T17S, R37E, Lea County
Hobbs Junction Mainline	AP-054		Section 26, T18S, R37E, Lea County
Kimbrough Sweet 8-inch	AP-0029		Section 03, T18S, R37E, Lea County
Lovington Deep 6-inch	AP-037		Section 03, T18S, R37E, Lea County

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

If you have any questions or require further information, please contact me at (575) 441-1099.

Sincerely,

Jason Henry

Jason Henry
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

2009 ANNUAL GROUNDWATER MONITORING REPORT

8" MOORE TO JAL #1
LEA, COUNTY, NEW MEXICO
SRS #2002 - 10270
NMOCD REF. # AP-91

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Environmental Bureau
Oil Conservation Division

TALON/LPE PROJECT NO. 700376.044.01

Prepared by:

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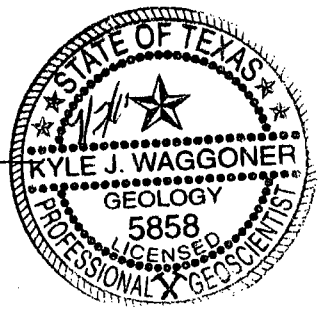

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March 2010

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

TABLE OF CONTENTS

APPENDICES

Appendix A Drawings

Figure 1 - Site Plan with Proposed Monitor Well Locations

Figure 2a - Groundwater Gradient Map - 02/04/2009

Figure 2b - Groundwater Gradient Map - 05/27/2009

Figure 2c - Groundwater Gradient Map - 08/18/2009

Figure 2d - Groundwater Gradient Map - 11/19/2009

Figure 3a - PSH Thickness & Groundwater Concentration Map - 02/04/2009

Figure 3b - PSH Thickness & Groundwater Concentration Map - 05/27/2009

Figure 3c - PSH Thickness & Groundwater Concentration Map - 08/18/2009

Figure 3d - PSH Thickness & Groundwater Concentration Map - 11/19/2009

Appendix B Tables

Table 1 - Summary of Historical Fluid Level Measurements

Table 2 - Summary of Groundwater Analytical Results

Table 3 - Summary of Groundwater Poly-Aromatic Hydrocarbon (PAH) Analytical Results

Table 4 - Summary of Groundwater Analytical Results from Monitor Wells Impacted with PSH

Appendix C Laboratory Analytical Data Reports and Chains of Custody Documentation

Appendix D NMOCD C-141

1.0 INTRODUCTION AND OBJECTIVES

1.1 Site Background

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

The site is also situated in a physio-geographic area that is on the extreme south-western portion of the Southern High Plains as it grades into the Edwards Plateau to the south and southeast and the Chihuahuan Desert of the Trans-Pecos Region to the southwest.

The topography proximal to the site is typical of the Southern High Plains, essentially flat with shallow depressions, or playa lakes, dotting the landscape. The prominent surface features on the Southern High Plains are the approximately 19,250 ephemeral playa lakes, however the density of the playa lakes diminishes toward the southern extent of the Southern High Plains. During periods of rainfall, the playas accumulate sheet runoff from watershed areas ranging in size from less than one square mile to several square miles. Only a small portion of drainage from rainfall occurs by streams. Playa lakes that collect storm water runoff can act as a recharge mechanism for groundwater.

The average elevation of the site area is approximately 3,770-feet above mean sea level with a slight slope to the southeast. The regional slope of the land surface in the Southern High Plains is approximately 100 feet per mile in a southeasterly direction.

In October 2002, a release of approximately 200 barrels (bbls) occurred from a Plains Pipeline, L.P. (Plains) pipeline at the site. Approximately 8,000 square feet of surface area was impacted by the release. Soil excavation and over-excavation activities were initiated in October 2002 and that activity is documented in the "Soil Over-Excavation Report and Backfill Workplan", dated May 23, 2006.

Talon/LPE (Talon) has been retained by Plains to conduct quarterly groundwater monitoring activities and operation and maintenance of the phase separated hydrocarbon (PSH) recovery system.

1.2 Site Geology

The surface deposits in Lea County are composed of Blackwater Draw (Illinoian) sediments, Ogallala sediments and undivided Quaternary alluvium, which is also termed 'cover sands'. The soil in the upper two (2) feet at the site composed of gravelly loam that consists of 43% sand, 18% clay and 40% silt and also contains abundant eroded gravel to cobble size caliche fragments. Below the top soil is predominately unconsolidated sand to weakly cemented sandstone which has undergone calichification of varying extent.

Below the Blackwater Draw Formation is the Ogallala Formation of Miocene to Pliocene age. The Ogallala Formation was deposited from sediments eroded from the Southern

age. The Ogallala Formation was deposited from sediments eroded from the Southern Rockies and consists mostly of eolian sediments, silty to very fine sand or loess. During the middle to late Miocene, the Ogallala was deposited by fluvial mechanism as paleovalley fill composed of gravelly to sandy braided stream deposits that trended west to east across the Southern High Plains. During the late Miocene the west to east drainage was diverted (captured) by the Pecos River. Subsequently, the Pecos River basin has experienced deflation, which facilitated eolian deposition on the Southern High Plains during the Pliocene.

1.3 Previous Environmental Investigations

A total of twenty (20) monitor wells have been installed proximal to the release point (see Figure 1). The first monitor well (MW-1), installed July 2004, was completed with a screened interval below the potentiometric surface. The second monitor well (MW-1A) was installed in September 2004, and PSH entered the casing immediately upon completion of the well. Subsequently, three (3) additional monitor wells (MW-2, MW-3, and MW-4) were installed in October of 2004, and PSH entered the casing on those wells.

In November 2007, sixteen (16) additional groundwater monitor wells were installed as proposed in the "Monitor Well Installation Workplan Moore to Jal #1", dated January 26, 2007. The purpose of the sixteen (16) monitor wells (MW-5–MW-20) was to further delineate the extent of the PSH and dissolved phase plumes. In addition to the sixteen (16) monitor well installations, monitor wells MW-1 and MW-4 were plugged and abandoned (P&A'd) on March 14, 2007 and re-drilled as a new groundwater monitor wells, MW-1A and MW-4A. Of the sixteen monitor wells that were installed, ten (10), (MW-4A, MW-5 through MW-12, and MW-15), are impacted with PSH.

During the year 2009, a total of eleven (11) specific gravity skimmers with bladder pumps were in operation in monitor wells MW-2, MW-3, MW-5, MW-7 through MW-13, and MW-15. In addition, a total of three (3) total fluids pumps are operating in monitor wells MW-1A, MW-4A, and MW-6. This pump configuration is designed to enhance PSH recovery and inhibit migration of the PSH plume.

PSH recovery operations have been performed at the site since 2004. Approximately 16,674 gallons (397 bbls) of crude oil has been recovered to date.

1.4 Regulatory Framework

Groundwater analytical data collected from this site was evaluated to the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards outlined in the table below.

New Mexico Water Quality Control Commission (NMWQCC) groundwater standards	
Compound	**mg/L**
Benzene	0.010

Ethylbenzene	0.750
Total Xylenes	0.620
PAH (Naphthalene)	0.030
PAH (Benzo[a]-pyrene)	0.007

The sections that follow provide summaries of the groundwater monitoring activities conducted at the subject site as well as analytical results from each groundwater sampling event of 2009. Analytical results for the four (4) sampling events are summarized in Table 2, Table 3, and Table 4 in Appendix B, and Figures 3a through 4 in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C. Historic fluid level measurements are included on Table 1 in Appendix B and gradient maps are provided as Figures 2a through 2d in Appendix A. In addition, cumulative historic tables are on the attached CD, which is an adjunct to this report.

2.0 SITE ACTIVITIES

The sections that follow summarize groundwater monitoring and PSH recovery activities conducted at the subject site during 2009. The primary focus of groundwater monitoring activities is to measure depth to fluid measurements and collect groundwater samples from monitor wells for laboratory analysis. The objective of groundwater monitoring is to evaluate the status of the dissolved-phase and PSH plumes in order to verify the effectiveness of the remediation system as to inhibiting plume migration, reducing the volume of PSH impacting the groundwater and determining if modifications to the remediation system would improve its performance and efficiency.

2.1 Groundwater Monitoring Activities

A total of four (4) groundwater monitoring events were conducted by Talon during the year 2009 on February 4, May 27, August 18, and November 19. During all of the groundwater monitoring events, the depths to fluids were measured in all of the monitoring wells (MW-1A through MW-20) using an oil/water interface probe.

During the February, May, and November groundwater monitoring events, six (6) monitor wells, (MW-14 and MW-16 through MW-20), were purged a minimum of three casing volumes and groundwater samples were collected. Groundwater samples were not collected from fourteen (14) monitor wells, MW-1A, MW-2, MW-3, MW-4A, MW-5 through MW-13 and MW-15, due to the presence of PSH.

During the August groundwater monitoring event, six (6) monitor wells, (MW-14 and MW-16 through MW-20), were purged a minimum of three (3) casing volumes and groundwater samples were collected. In addition, groundwater samples were collected from fourteen (14) monitor wells impacted with PSH, (MW-1A, MW-2, MW-3, MW-4A, MW-5 through MW-13 and MW-15), pursuant the NMOCD directive that samples will be collected from the groundwater below the PSH caps in monitor wells. Monitor wells impacted with PSH were not purged of three (3) casing volumes prior to sample collection.

Details of the gauging, purging, and sample collection activities are presented in Section 2.2.

2.2 Groundwater Gauging, Purging, and Sampling Procedures

During each groundwater monitoring event, all monitor wells were measured with an oil/water interface probe to determine static water levels and to determine the thickness of PSH accumulations if present. The data collected from measurements was used to construct groundwater gradient maps and PSH thickness maps. The results of the measured depths to fluids collected during the four (4) events, are incorporated in Table 1 – Summary of Historical Fluid Level Measurements.

Subsequent to gauging, all monitor wells were purged using a down-hole pump equipped with vinyl tubing. The pump and tubing were decontaminated with Alconox® detergent and rinsed with distilled water after each use. Recovered purge water and water used in the

decontamination process was contained in on-site 55-gallon drums. After the groundwater monitoring event, all retained water was removed with a vacuum truck. Approximately 525 gallons of purged groundwater and decontamination water during the monitoring events of 2009.

Groundwater samples were collected from all monitor wells using dedicated disposable polyethylene bailers, except for the monitor wells impacted with PSH during the August groundwater monitoring event. Groundwater samples were collected from wells impacted with PSH using a pump and vinyl tubing. The groundwater samples were contained in laboratory supplied sample containers with the appropriate preservative required for the analysis requested. The groundwater samples were maintained on ice, in the custody of Talon personnel, until they were delivered to TraceAnalysis, Inc. in Midland, Texas for analyses.

The groundwater samples collected during the all four events were quantified for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method SW-846 8021B. During the August event, samples collected from monitor wells both impacted and not impacted with PSH were also quantified for and poly-nuclear aromatic hydrocarbons (PAH) using EPA Method SW-846 8270C. Also during the August event, groundwater samples collected from wells impacted with PSH were quantified for total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) by EPA Method SW-846 8015B.

2.3 Phase Separated Hydrocarbon Recovery

PSH recovery has been conducted at the site since 2004, initially by hand bailing and then by using pneumatic pumps. In October of 2008, Talon installed a pneumatic skimmer system at the site. During the year 2009, a total of eleven (11) specific gravity skimmers and bladder pumps operated in monitor wells MW-2, MW-3, MW-5, MW-7 through MW-13, and MW-15. In addition, a total of three (3) total fluids pumps operated in monitor wells MW-1A, MW-4A, and MW-6 during 2009. The total fluids pumps were effective for increasing PSH recovery and inhibiting PSH plume and dissolved-phase migration. Talon personnel performed a minimum of weekly maintenance to the remediation system to ensure efficient operation and to minimize down time.

PSH recovered by the skimmer system and total fluids pumps was expelled to an on-site 350 barrel frac tank, which is monitored for the accumulation of water and PSH on a weekly basis. PSH is removed from the recovery tank periodically using a vacuum truck and is re-introduced to the Plains' pipeline system at the Scharb Station and/or 34 Junction South pipeline. Water is also removed from the recovery tank periodically with a vacuum truck and transferred to a disposal facility.

During 2009 the quarterly PSH and groundwater recovery totals are as follows:

- 1st Quarter - 20 bbls crude oil and 81 bbls of groundwater
- 2nd Quarter - 15 bbls crude oil and 252 bbls of groundwater
- 3rd Quarter - 59 bbls crude oil and 1,669 bbls of groundwater

- 4th Quarter - 64 bbls of crude oil and 1,801 bbls of groundwater

A total of approximately 397 bbls of PSH have been recovered at the subject site to date by both hand bailing and from the PSH recovery system since PSH recovery was initiated.

3.0 GROUNDWATER MONITORING RESULTS

The results of the laboratory analyses are summarized in Table 2 – Summary of Groundwater Analytical Data in Appendix B. Laboratory analytical data reports and chains of custody documentation are provided in Appendix C. In addition, cumulative historical data is located in the tables section on the CD that is an adjunct to this report.

3.1 Groundwater Monitoring Results

The following sections present the results from the four (4) groundwater monitoring events conducted at the subject site.

3.1.1 Physical Characteristics of the First Water-Bearing Zone

The primary groundwater resource under the Southern High Plains, including the site, is referred to as the Ogallala Aquifer or High Plains Aquifer. The Southern portion of the Ogallala aquifer underlies an area of about 29,000 square miles (mi^2) in western Texas and eastern New Mexico, encompassing all or part of 31 counties in Texas and 6 counties in New Mexico.

The Ogallala Aquifer has experienced acute depletion from extensive irrigation and urban demand, which have exceeded the average annual recharge rate. Recharge of the Ogallala Aquifer on the Southern High Plains occurs predominately from rainfall runoff that accumulates in ephemeral streams and playa lakes as well as direct recharge in areas that contain permeable soils such as sand hills. Recharge rates vary depending on mechanism, but averages from 0 to 1.6 inches per year.

The Ogallala Aquifer is generally unconfined and the poteniometric surface generally mirrors the land surface elevation with the regional flow direction is from the northwest to the southeast. The mean regional gradient is 15 feet per mile and the typical groundwater velocity averages seven inches per day. The regional hydraulic conductivity averages 17 gallons per day per square-foot and specific yield averages 16%. The depth to groundwater at the site has historically ranged from 64 to 72 feet below ground surface (bgs) and the groundwater flow direction is to the southeast at an average of 20 feet per mile.

The composition of Ogallala groundwater is defined as mixed-cation-HCO_3, therefore, Ogallala groundwater is considered hard. Problems with scale have occurred with residential and commercial water systems that use Ogallala groundwater and often treatment strategies are employed to reduce the effects of scale. The typical total dissolved solids of Ogallala groundwater in the Hobbs-Lovington area is generally less than 1,000 mg/L (ppm) in areas not impacted by oil-field brines with an average pH of 7.3.

3.1.2 Groundwater Gradient and Flow Direction

The depth to fluid measurements was collected during each of the four (4) groundwater monitoring events during the year 2009. The results of the fluid level measurements are

summarized in Table 1 - Summary of Historical Fluid Level Measurements in Appendix B. In addition, cumulative historical gauging data is located in the tables section on the CD that is an adjunct to this report.

The collected data was used to construct potentiometric surface maps in order to interpret the groundwater gradient and flow direction. The maps, designated Figures 2a through 2d, are presented in Appendix A.

The potentiometric surface maps constructed for each of the four (4) groundwater monitoring events indicates that the groundwater flow direction is to southeast at an approximate gradient of 0.0037-0.0038 feet/foot or 19-20 feet per mile. Groundwater levels at the subject site have exhibited a steady decline of an average of 0.85 feet for the year that appears to be associated with a regional trend of declining groundwater levels for the Ogallala Aquifer.

3.1.3 Phase Separated Hydrocarbon (PSH)

An oil/water interface probe was used to determine the thicknesses of PSH during the four (4) groundwater monitoring events. Generally, PSH thicknesses have fluctuated from quarter to quarter during 2009 but have exhibited an overall decline of an average of 2.41 feet. The decline of PSH thicknesses have ranged from 0.02 to 6.82 feet during the year 2009.

In addition to potentiometric surface maps, isopleth maps were prepared depicting the measured PSH thicknesses and PSH plume geometry. PSH plume delineation and thickness maps are presented in Appendix A as Figures 3a through 3d. Currently, the PSH plume is not delineated cross-gradient to the east by the current monitor well array. A scope of work has been prepared to install additional delineation monitor wells at the subject site. The work is pending access to railroad and State of New Mexico right-of-way. .

3.1.4 Groundwater Analytical Results

During the first quarter, February 2009, groundwater monitoring event, groundwater samples were collected from monitor wells MW-14 and MW-16 through MW-20. Samples were not collected from monitor wells MW-1A, MW-2, MW-3, MW-4A, MW-5 through MW-13, and MW-15 due to the presence of PSH. Groundwater samples collected during the event exhibited the following analytical results:

- Benzene concentrations ranged from <0.00100 mg/L to 18.3 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-14, and MW-16.
- Toluene concentrations ranged from <0.00100 mg/L to 2.74 mg/L. Toluene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-16.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.521 mg/L. Ethylbenzene concentrations did exceed the NMWQCC groundwater standard of 0.750 mg/L in any sample collected during the first quarter.
- Xylene concentrations ranged from 0.00100 mg/L to 1.02 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in the

groundwater samples collected from monitor wells MW-14 and MW-16.

During the second quarter, May 2009 sampling event, groundwater samples were collected from monitor wells MW-14 and MW-16 through MW-20. Samples were not collected from monitor wells MW-1A, MW-2, MW-3, MW-4A, MW-5 through MW-13, and MW-15 due to the presence of PSH. The groundwater samples that were collected exhibited the following analytical results:

- Benzene concentrations ranged from <0.00100 mg/L to 26.9 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-14 and MW-16.
- Toluene concentrations ranged from <0.00100 mg/L to 4.35 mg/L. Toluene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-16.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 1.17 mg/L. Ethylbenzene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-16.
- Xylene concentrations ranged from <0.00100 mg/L to 2.52 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in the groundwater samples collected from monitor wells MW-14 and MW-16.

During the third quarter, August 2009, sampling event, groundwater samples were collected from eighteen (18) monitor wells, (MW-2 through MW-14 and MW-16 through MW-20). Monitor wells MW-1A and MW-15 did not contain enough groundwater for sample collection. Monitor wells MW-14 and MW-16 through MW-20 were not impacted with PSH and monitor wells MW-1A, MW-2, MW-3, MW-4A, MW-5 through MW-13, and MW-15 were impacted with PSH. BTEX concentrations in all of the samples collected from the monitor wells impacted with PSH exceeded NMWQCC remediation thresholds. Groundwater samples collected from monitor wells not impacted with PSH exhibited the following analytical results:

- Benzene concentrations ranged from <0.00100 mg/L to 22.7 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-14 and MW-16.
- Toluene concentrations ranged from <0.00100 mg/L to 3.04 mg/L. Toluene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in groundwater samples collected from monitor well MW-16.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 1.05 mg/L. Ethylbenzene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in groundwater samples collected from monitor well MW-16.
- Xylene concentrations ranged from <0.00100 mg/L to 1.99 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in groundwater samples collected from monitor well MW-16.
- PAH concentrations did not exceed NMWQCC groundwater standards any of the quantified analytes in samples collected from monitor wells not impacted with PSH.
- PAH concentrations exceeded NMWQCC groundwater standards for naphthalene in all monitor wells impacted with PSH. In addition, concentrations of BTEX

constituents exceed NMWQCC groundwater standards in all monitor wells impacted with PSH.

During the November 2009 sampling event, groundwater samples were collected from monitor wells MW-14 and MW-16 through MW-20. Samples were not collected from monitor wells MW-1A, MW-2, MW-3, MW-4A, MW-5 through MW-13, and MW-15 due to the presence of PSH. The groundwater samples that were collected from these wells exhibited the following analytical results:

- Benzene concentrations ranged from <0.00100 mg/L to 26.5 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-14, MW-16 and MW-18.
- Toluene concentrations ranged from <0.00100 mg/L to 1.28 mg/L. Toluene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater samples collected from monitor wells MW-14 and MW-16.
- Ethylbenzene concentrations ranged from <0.0100 mg/L to 0.648 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the groundwater samples collected.
- Xylene concentrations ranged from 0.00100 mg/L to 0.771 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in the groundwater sample collected from monitor well MW-16.

Generally, down-gradient monitor wells MW-14, MW-16 and MW-20 have exhibited fluctuating concentrations of dissolved-phase contaminants indicating that the dissolved-phase plume is relatively stable and is not migrating down-gradient.

The groundwater plume impacted at concentrations above the NMWQCC groundwater standards has not been delineated. Currently, the dissolved-phase plume is not delineated cross-gradient to the east as well as down-gradient to the southeast by the current monitor well array. A scope of work has been prepared to install additional delineation monitor wells at the subject site. The work is pending access to Railroad and State of New Mexico right-of-way.

The results of the laboratory analyses are summarized in Table 2 – Summary of Groundwater Analytical Results in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C. In addition, cumulative historical analytical data is located in the tables section on the CD that is an adjunct to this report.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following section presents a summary of findings in regards to the four (4) groundwater monitoring events and provides recommendations for future corrective action.

4.1 Summary of Findings

- The groundwater flow direction is to southeast at an approximate gradient of 0.0037-0.0038 feet/foot or 19 to 20 feet per mile.
- Groundwater levels at the subject site have exhibited a steady decline averaging 0.85 feet for the year 2009 that appears to be associated with a regional trend of declining groundwater levels for the Ogallala Aquifer.
- Generally, PSH thicknesses have fluctuated from quarter to quarter during the year 2009, but the PSH thicknesses have exhibited an overall decline averaging 2.41 feet.
- Currently, the PSH plume is not delineated by the current monitor well array cross-gradient to the east.
- Down-gradient monitor wells MW-14, MW-16 and MW-20 have exhibited fluctuating concentrations of dissolved-phase contaminants indicating that the dissolved-phase plume is relatively stable and is not migrating down-gradient.
- Currently, the dissolved-phase plume is not delineated to NMWQCC standards by the current monitor well array cross-gradient to the east as well as down-gradient to the southeast.
- The PSH recovery system has removed 158 bbls of crude oil from the groundwater during 2009 indicating that the system is performing its function.

4.2 Recommendations

Based upon the results of the four (4) quarterly groundwater monitoring events and PSH recovery efforts, Talon proposes the following actions:

- Continue operation and maintenance of the skimmer/bladder pump and total fluids pumps recovery system. Monitor the system on a weekly basis to optimize PSH recovery efficiency.

- Add or reposition pumps as necessary to optimize PSH recovery and inhibit plume migration.

- Perform quarterly groundwater monitoring events in accordance with NMOCD directives.

- Install a total of sixteen (16) monitor wells cross-gradient to the east and down-gradient to the southeast in order to delineate the areal extent of the dissolved-phase and PSH plumes (see Figure1).

- Evaluate a method to transfer recovered groundwater directly to a water disposal facility versus removal with vacuum trucks, which could ultimately augment PSH recovery by allowing for increased system run times.

- Based on the results of the PAH analyses over the past several years, Talon/LPE recommends that further PAH analyses be conducted only on those monitor wells which have historically exhibited previous concentrations of PAH constituents near or above the NMWQCC standards. The monitor wells that have exhibited concentrations of PAH constituents have been those wells that are impacted with PSH (MW-1A through MW-13, and MW-15. In addition, MW-16, which is not impacted with PSH, exhibited a naphthalene concentration near the NMWQCC standard of 0.030 mg/L.

APPENDIX A

Drawings

Figure 1 - Site Plan with Proposed Monitor Well Locations

Figure 2a - Groundwater Gradient Map - 02/04/2009

Figure 2b - Groundwater Gradient Map - 05/27/2009

Figure 2c - Groundwater Gradient Map - 08/13/2009

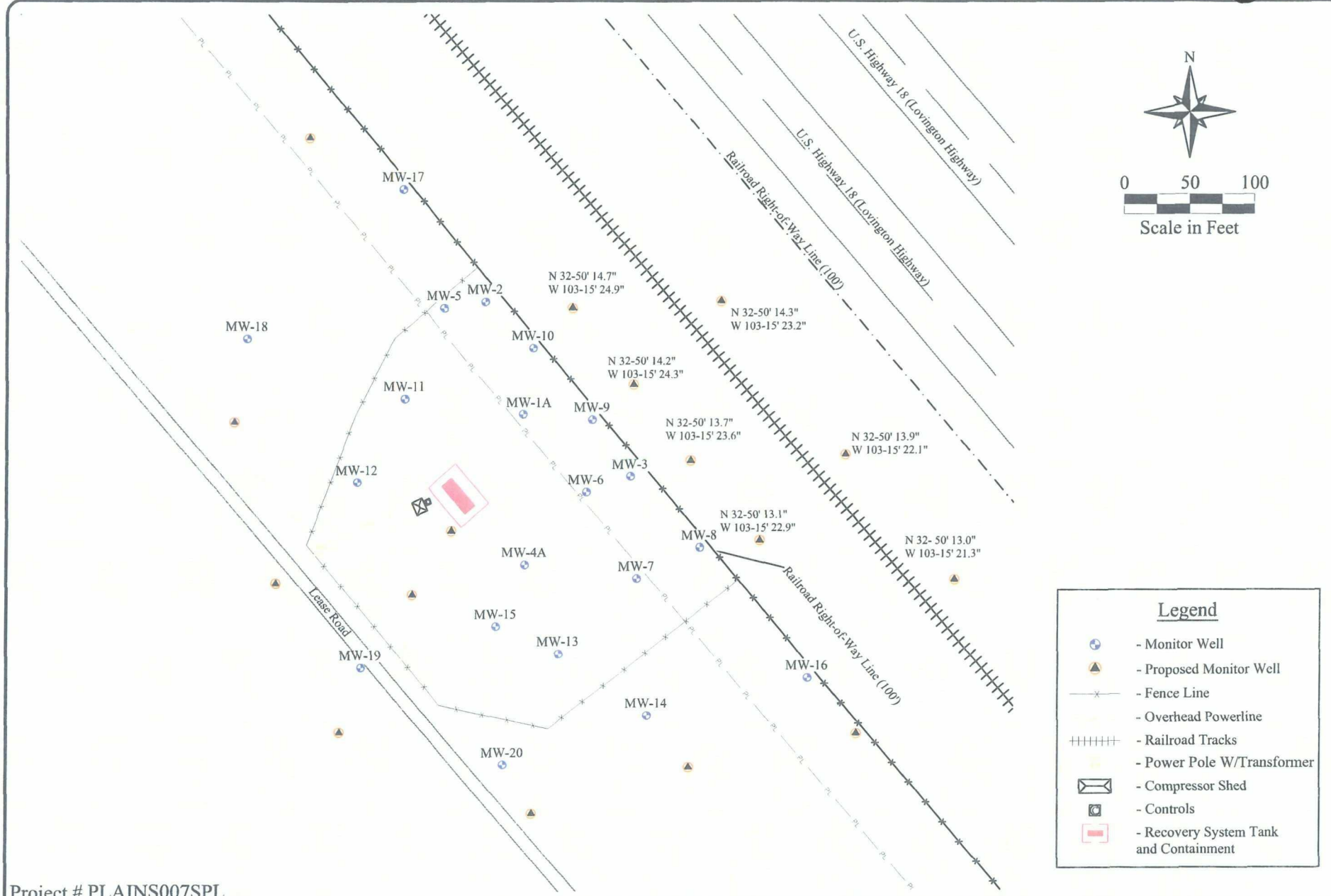
Figure 2d - Groundwater Gradient Map - 11/19/2009

Figure 3a - PSH Thickness & Groundwater Concentration Map - 02/04/2009

Figure 3b - PSH Thickness & Groundwater Concentration Map - 05/27/2009

Figure 3c - PSH Thickness & Groundwater Concentration Map - 08/13/2009

Figure 3d - PSH Thickness & Groundwater Concentration Map - 11/19/2009



Project # PLAINS007SPL

TALON LPE

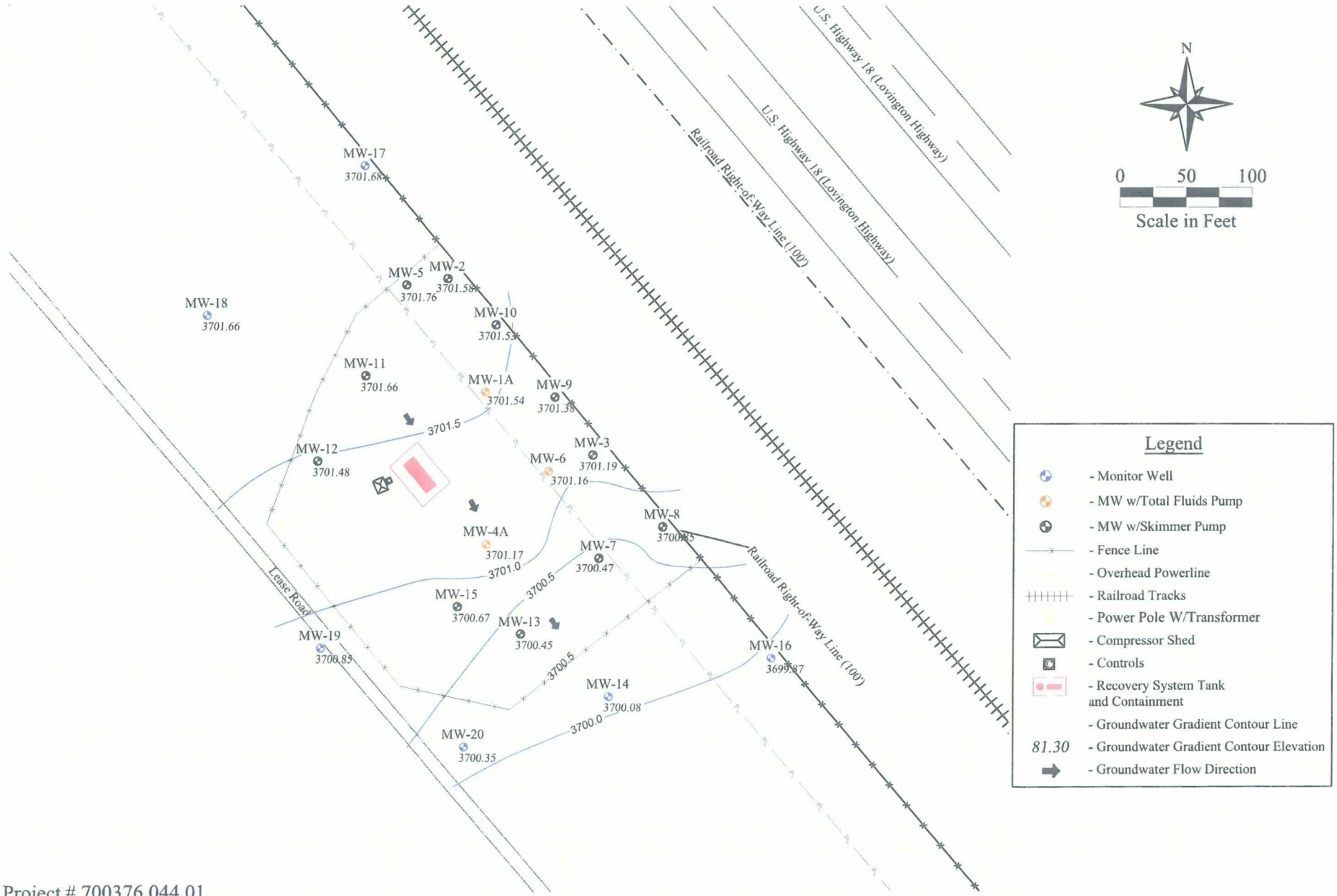
Date:	07/07/2009
Scale:	1" = 100'
Drawn By:	HDJ

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91

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

Figure 1 - Site Plan with Proposed Monitor Well Locations Map



Project # 700376.044.01

TALON LPE

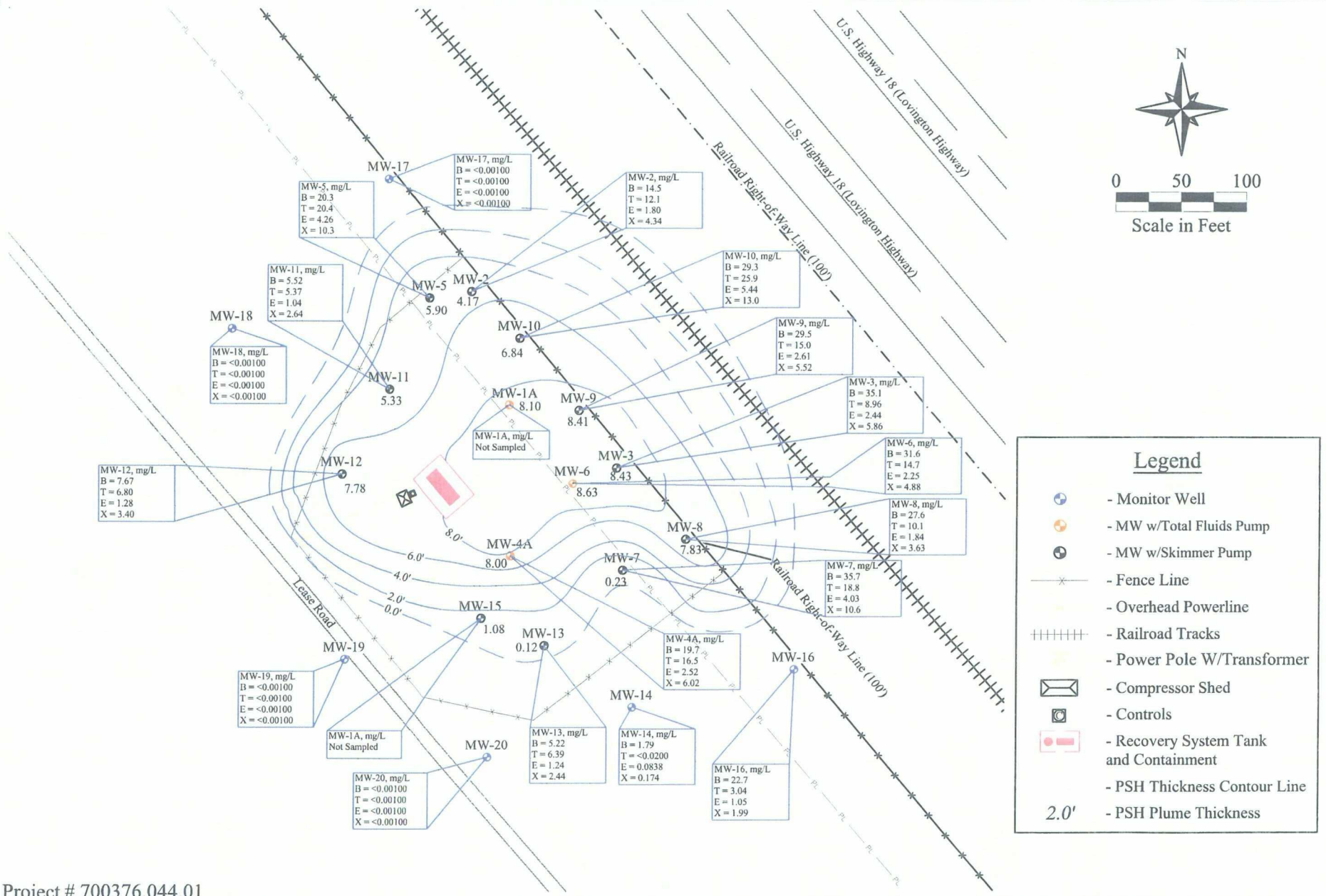
Date:	12/11/2009
Scale:	1" = 100'
Drawn By:	TJS

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91

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

Figure 2a - Groundwater Gradient Map (02/04/2009)



Project # 700376.044.01

TALON LPE

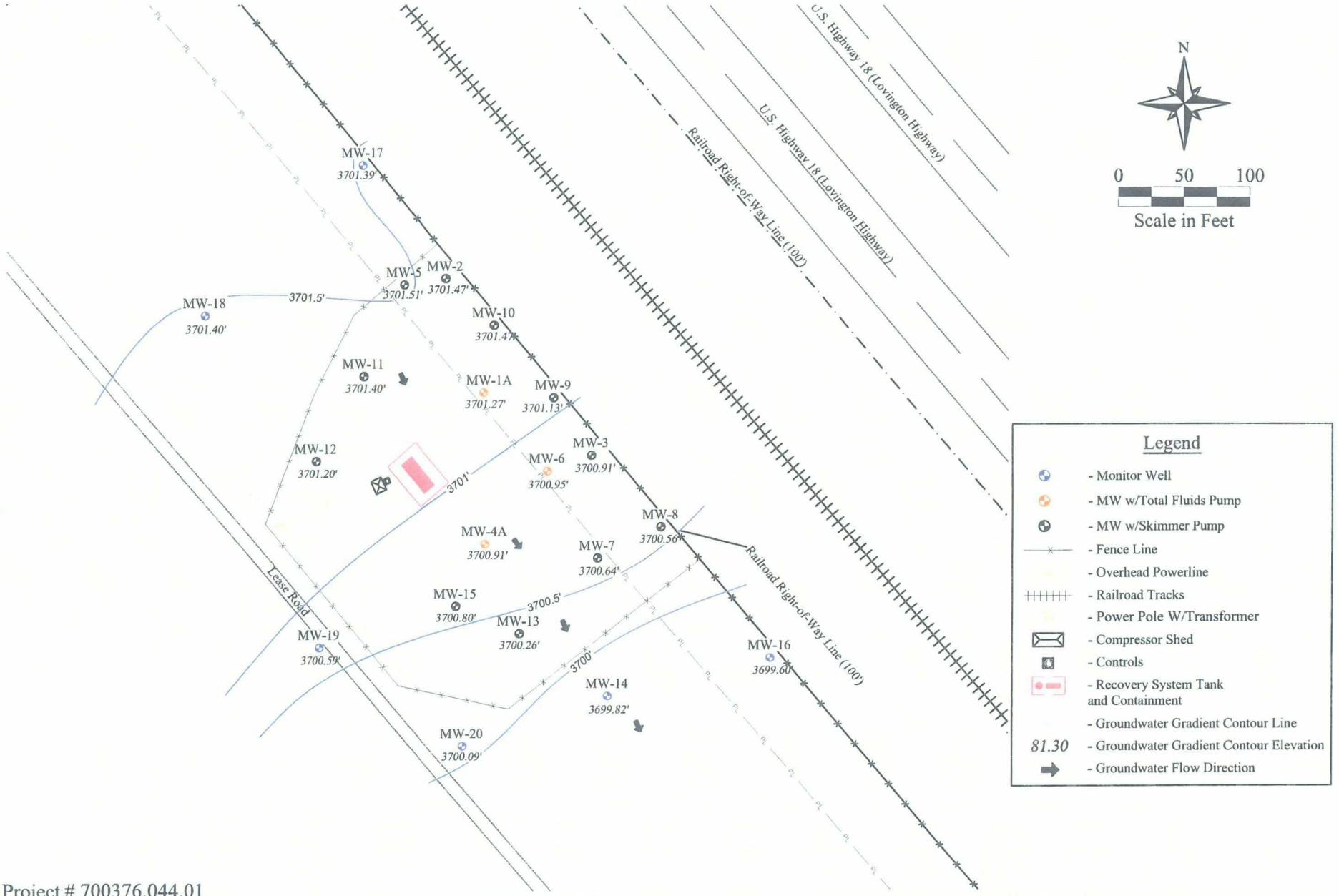
Date:	12/11/2009
Scale:	1" = 100'
Drawn By:	TJS

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91

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

Figure 3a - PSH Thickness & Groundwater Concentration Map - 02/04/2009



Project # 700376.044.01

TALON LPE

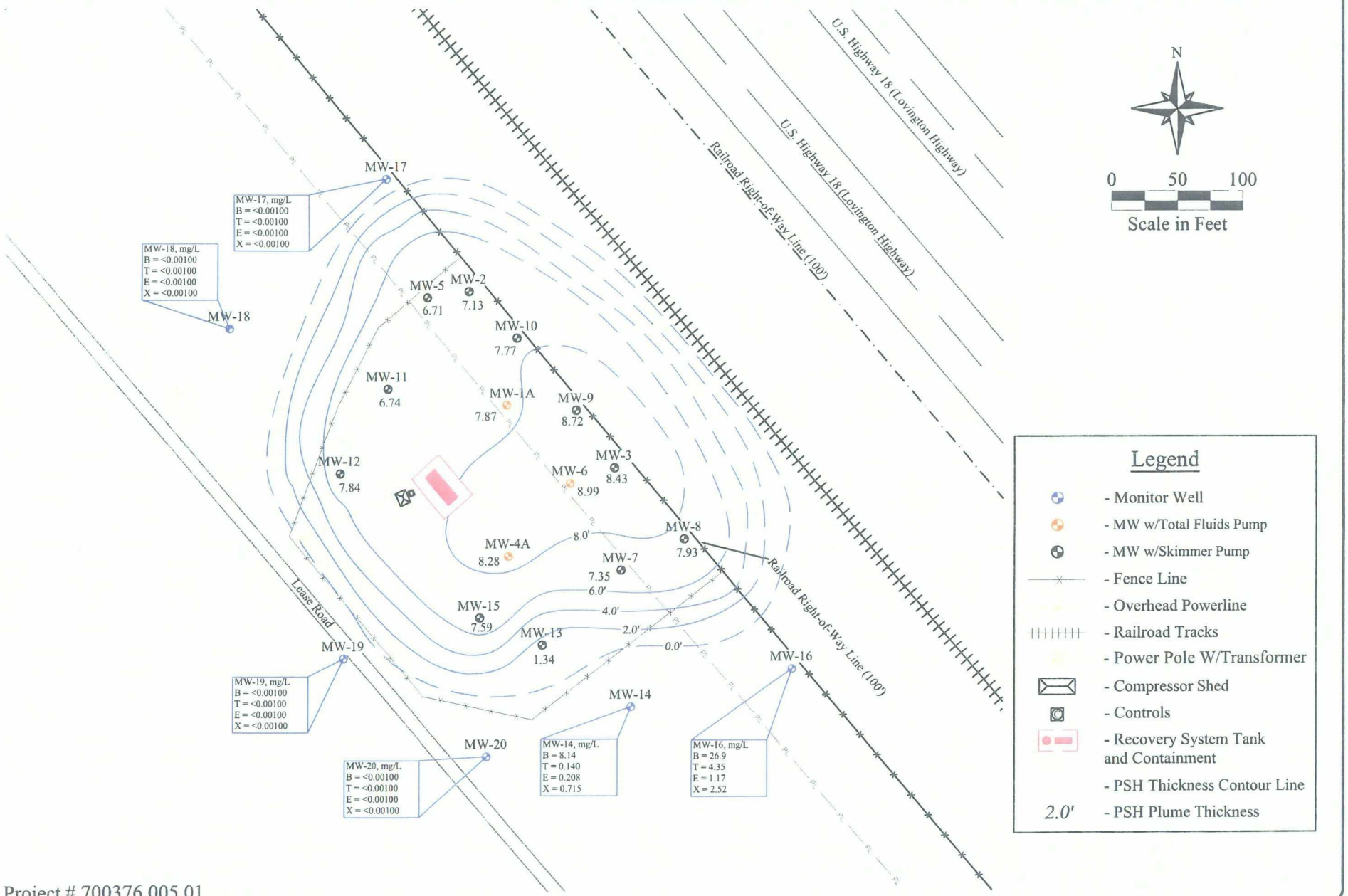
Date:	12/11/2009
Scale:	1" = 100'
Drawn By:	TJS

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91

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

Figure 2b - Groundwater Gradient Map, (05/26/2009)



Project # 700376.005.01

TALON LPE

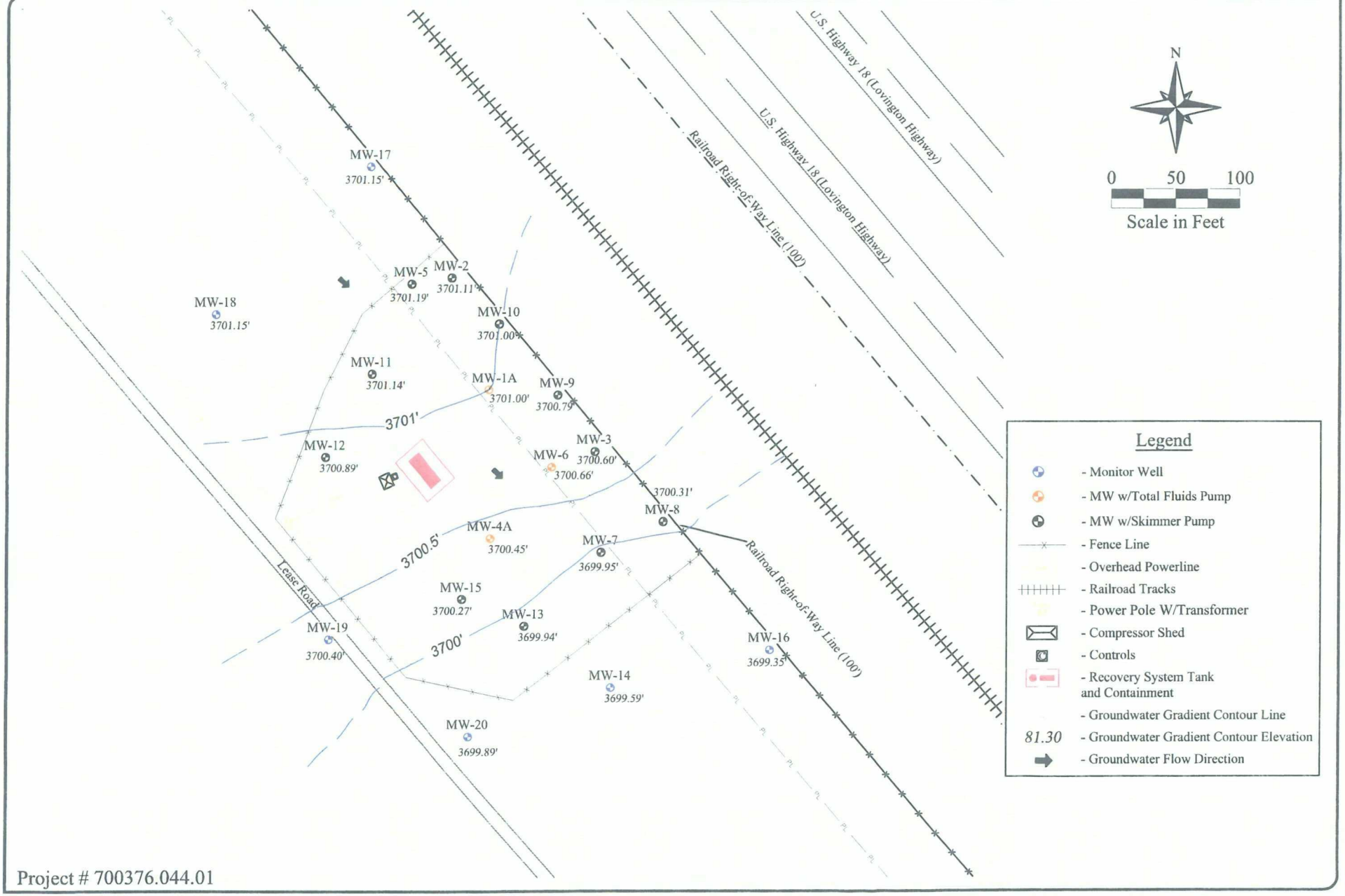
Date:	12/11/2009
Scale:	1" = 100'
Drawn By:	TJS

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91

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

Figure 3b - PSH Thickness & Groundwater Concentration Map, (05/27/2009)



Project # 700376.044.01

TALON LPE

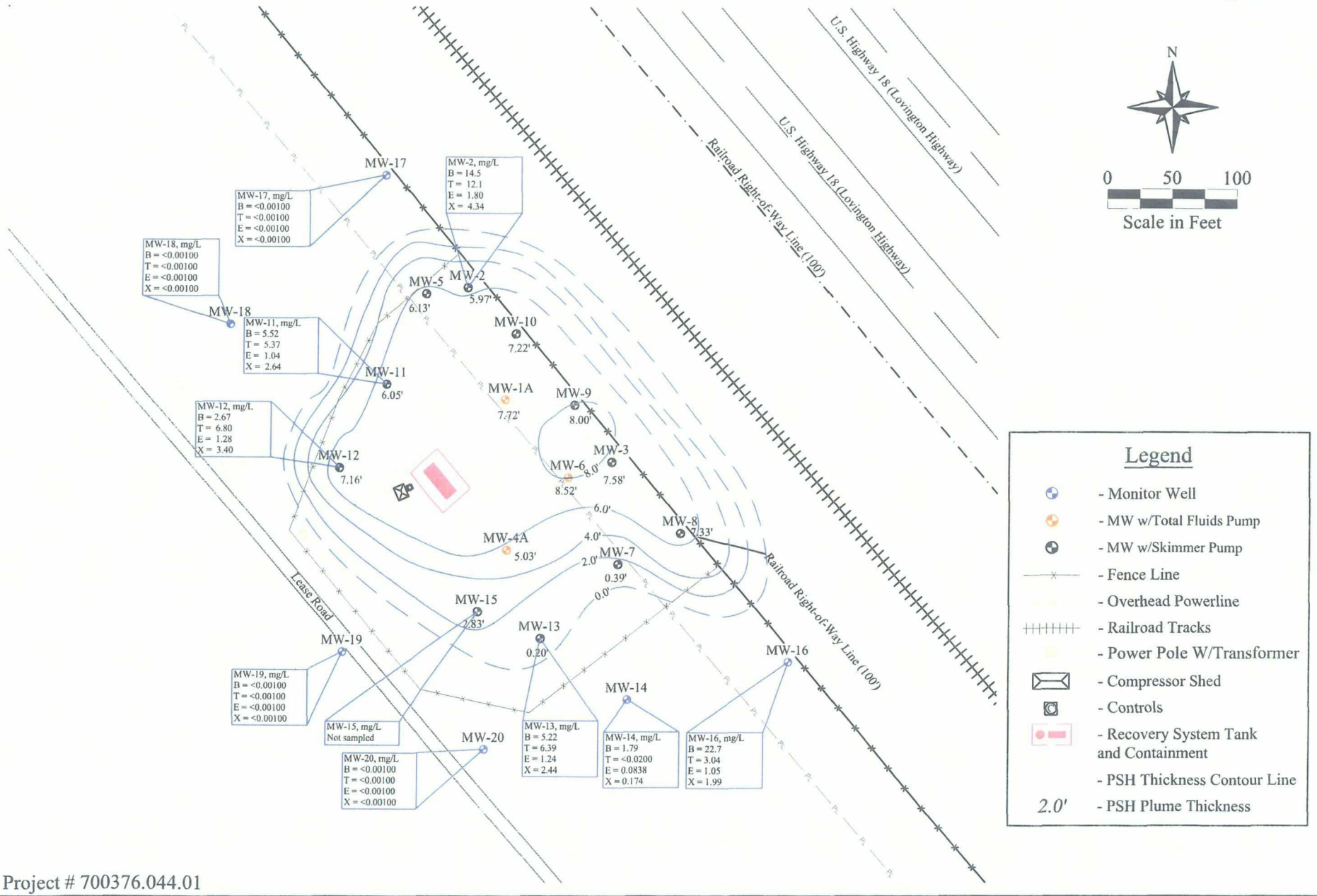
Date:	12/11/2009
Scale:	1" = 100'
Drawn By:	TJS

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91

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

Figure 2c - Groundwater Gradient Map - 8/12/09



Project # 700376.044.01

TALON LPE

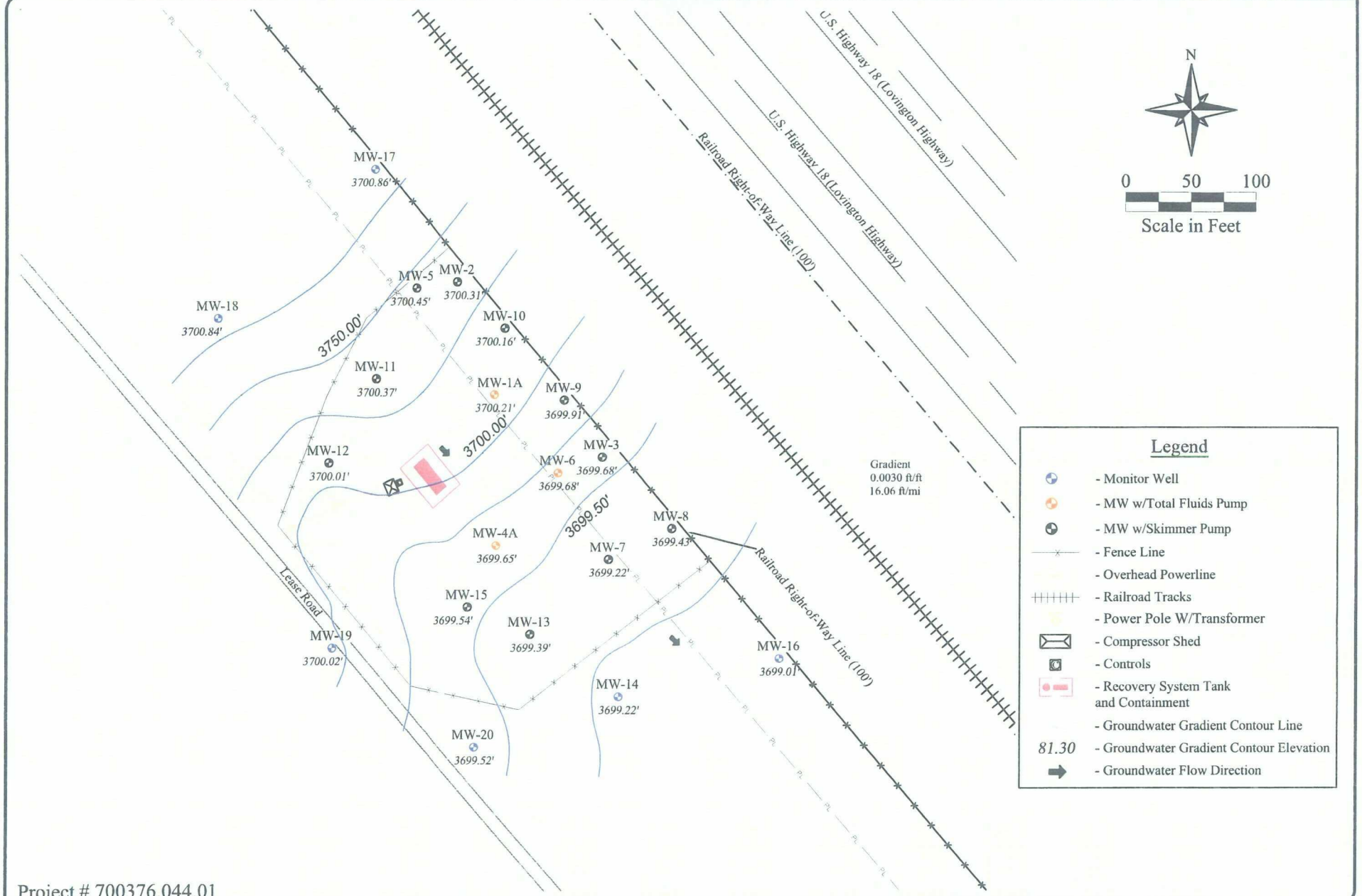
Date:	12/11/2009
Scale:	1" = 100'
Drawn By:	TJS

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91

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

Figure 3c - PSH Thickness & Groundwater Concentration Map, (08/13/2009)



Project # 700376.044.01

TALON LPE

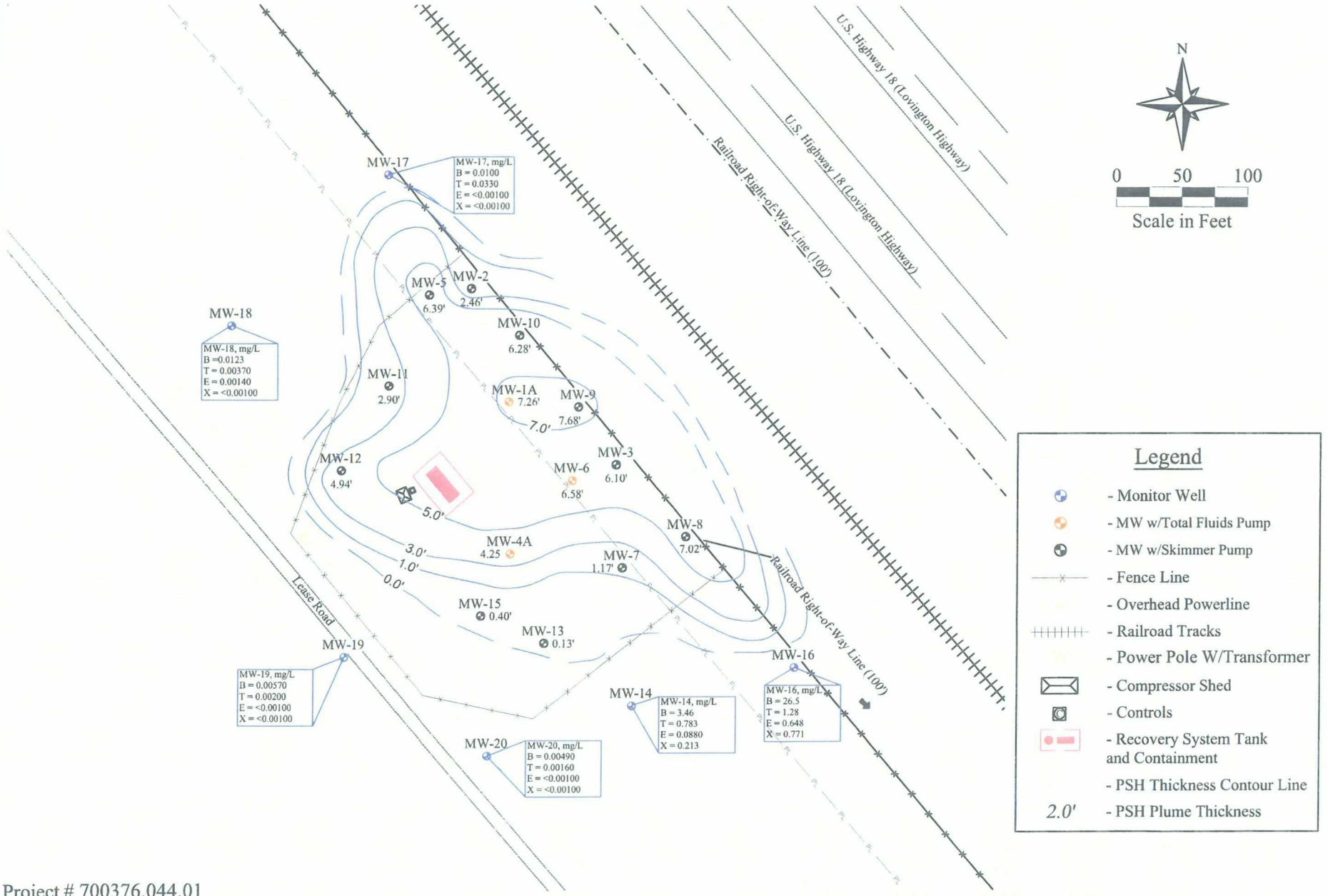
Date: 12/11/2009
Scale: 1" = 100'
Drawn By: TJS

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91

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

Figure 2d - Groundwater Gradient Map - (11/19/2009)



Project # 700376.044.01

TALON LPE

Date:	12/11/2009
Scale:	1" = 100'
Drawn By:	TJS

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91

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

Figure 3d - PSH Thickness & Groundwater Concentration Map - 11/19/2009

APPENDIX B

Tables

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-1A	10/08/04	3765.34	53.48	56.38	2.90	3711.38
MW-1A	10/14/04	3765.34	53.25	68.36	15.11	3709.60
MW-1A	10/20/04	3765.34	54.11	65.92	11.81	3709.28
MW-1A	10/29/04	3765.34		55.09	55.09	3756.25
MW-1A	11/04/04	3765.34	55.51	63.71	8.20	3708.48
MW-1A	11/10/04	3765.34	55.72	63.49	7.77	3708.34
MW-1A	11/17/04	3765.34	55.93	63.49	7.56	3708.16
MW-1A	11/24/04	3765.34	55.23	66.10	10.87	3708.32
MW-1A	12/02/04	3765.34	55.26	65.63	10.37	3708.37
MW-1A	12/08/04	3765.34	55.22	65.60	10.38	3708.41
MW-1A	12/15/04	3765.34	56.06	63.65	7.59	3708.03
MW-1A	12/27/04	3765.34	56.35	63.59	7.24	3707.80
MW-1A	12/29/04	3765.34	56.34	63.58	7.24	3707.81
MW-1A	01/06/05	3765.34	56.41	63.64	7.23	3707.74
MW-1A	01/13/05	3765.34	56.56	63.76	7.20	3707.59
MW-1A	01/19/05	3765.34	56.57	63.78	7.21	3707.58
MW-1A	01/26/05	3765.34	56.61	63.78	7.17	3707.55
MW-1A	02/02/05	3765.34	56.63	64.00	7.37	3707.49
MW-1A	02/09/05	3765.34	56.65	64.11	7.46	3707.46
MW-1A	02/16/05	3765.34	56.68	64.21	7.53	3707.42
MW-1A	02/24/05	3765.34	56.69	64.25	7.56	3707.40
MW-1A	03/03/05	3765.34	56.71	64.41	7.70	3707.36
MW-1A	03/11/05	3765.34	56.86	63.54	6.68	3707.38
MW-1A	03/18/05	3765.34	56.72	64.51	7.79	3707.33
MW-1A	04/01/05	3765.34	56.74	64.65	7.91	3707.29
MW-1A	04/07/05	3765.34	56.75	64.68	7.93	3707.28
MW-1A	05/18/05	3765.34	56.80	64.99	8.19	3707.19
MW-1A	05/23/05	3765.34	56.81	65.00	8.19	3707.18
MW-1A	05/26/05	3765.34	56.83	65.02	8.19	3707.16
MW-1A	06/01/05	3765.34	56.82	65.03	8.21	3707.17
MW-1A	06/03/05	3765.34	56.84	65.01	8.17	3707.15
MW-1A	06/07/05	3765.34	56.85	65.03	8.18	3707.14
MW-1A	06/10/05	3765.34	56.85	65.07	8.22	3707.13
MW-1A	06/13/05	3765.34	56.87	65.10	8.23	3707.11
MW-1A	06/16/05	3765.34	56.86	65.06	8.20	3707.13
MW-1A	06/20/05	3765.34	56.88	65.12	8.24	3707.10
MW-1A	06/22/05	3765.34	56.90	65.10	8.20	3707.09
MW-1A	06/29/05	3765.34	56.89	65.17	8.28	3707.08
MW-1A	07/01/05	3765.34	56.91	65.15	8.24	3707.07
MW-1A	07/06/05	3765.34	56.91	65.17	8.26	3707.07

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-1A	07/08/05	3765.34	56.91	65.04	8.13	3707.09
MW-1A	07/12/05	3765.34	56.95	65.25	8.30	3707.02
MW-1A	07/14/05	3765.34	56.92	65.21	8.29	3707.05
MW-1A	07/19/05	3765.34	56.93	65.26	8.33	3707.04
MW-1A	07/21/05	3765.34	56.96	65.29	8.33	3707.01
MW-1A	07/26/05	3765.34	56.95	65.31	8.36	3707.01
MW-1A	07/28/05	3765.34	56.58	65.30	8.72	3707.32
MW-1A	08/02/05	3765.34	56.98	65.27	8.29	3706.99
MW-1A	08/04/05	3765.34	57.00	65.33	8.33	3706.97
MW-1A	08/09/05	3765.34	57.00	65.38	8.38	3706.96
MW-1A	08/11/05	3765.34	56.99	65.37	8.38	3706.97
MW-1A	08/16/05	3765.34	57.02	65.42	8.40	3706.93
MW-1A	08/18/05	3765.34	57.01	65.40	8.39	3706.95
MW-1A	08/24/05	3765.34	57.03	65.44	8.41	3706.92
MW-1A	08/26/05	3765.34	57.04	65.44	8.40	3706.91
MW-1A	08/30/05	3765.34	56.45	66.48	10.03	3707.24
MW-1A	09/01/05	3765.34	56.52	66.74	10.22	3707.13
MW-1A	09/06/05	3765.34	56.65	66.28	9.63	3707.10
MW-1A	09/08/05	3765.34	56.73	65.88	9.15	3707.10
MW-1A	09/13/05	3765.34	56.86	65.64	8.78	3707.03
MW-1A	09/16/05	3765.34	56.94	65.46	8.52	3706.99
MW-1A	09/20/05	3765.34	57.01	65.31	8.30	3706.96
MW-1A	09/23/05	3765.34	57.04	65.23	8.19	3706.95
MW-1A	09/27/05	3765.34	57.07	65.17	8.10	3706.93
MW-1A	09/29/05	3765.34	57.09	65.10	8.01	3706.93
MW-1A	10/04/05	3765.34	57.08	65.18	8.10	3706.92
MW-1A	10/06/05	3765.34	57.09	65.21	8.12	3706.91
MW-1A	10/11/05	3765.34	57.09	65.31	8.22	3706.89
MW-1A	10/13/05	3765.34	57.10	65.28	8.18	3706.89
MW-1A	10/18/05	3765.34	57.12	65.31	8.19	3706.87
MW-1A	10/21/05	3765.34	57.13	65.29	8.16	3706.86
MW-1A	10/26/05	3765.34	57.15	65.34	8.19	3706.84
MW-1A	10/28/05	3765.34	57.14	65.28	8.14	3706.86
MW-1A	11/01/05	3765.34	57.16	65.34	8.18	3706.83
MW-1A	11/04/05	3765.34	57.17	65.33	8.16	3706.82
MW-1A	11/09/05	3765.34	57.21	65.38	8.17	3706.78
MW-1A	11/11/05	3765.34	57.24	65.36	8.12	3706.76
MW-1A	11/16/05	3765.34	57.21	65.42	8.21	3706.78
MW-1A	11/18/05	3765.34	57.25	65.36	8.11	3706.75
MW-1A	11/22/05	3765.34	57.24	65.42	8.18	3706.75

TALON LPE

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-1A	11/30/05	3765.34	57.25	65.49	8.24	3706.73
MW-1A	12/02/05	3765.34	57.28	65.45	8.17	3706.71
MW-1A	12/06/05	3765.34	57.27	65.52	8.25	3706.71
MW-1A	12/14/05	3765.34	57.30	65.57	8.27	3706.68
MW-1A	12/16/05	3765.34	57.31	65.51	8.20	3706.68
MW-1A	12/21/05	3765.34	57.31	65.61	8.30	3706.66
MW-1A	12/23/05	3765.34	57.33	65.53	8.20	3706.66
MW-1A	12/27/05	3765.34	57.33	65.63	8.30	3706.64
MW-1A	12/30/05	3765.34	57.34	65.63	8.29	3706.63
MW-1A	01/03/06	3765.34	57.35	65.69	8.34	3706.61
MW-1A	01/05/06	3765.34	57.36	65.66	8.30	3706.61
MW-1A	01/11/06	3765.34	57.37	65.75	8.38	3706.59
MW-1A	01/13/06	3765.34	57.40	65.68	8.28	3706.57
MW-1A	01/18/06	3765.34	57.38	65.77	8.39	3706.58
MW-1A	01/20/06	3765.34	57.39	65.69	8.30	3706.58
MW-1A	01/24/06	3765.34	57.41	65.83	8.42	3706.54
MW-1A	01/26/06	3765.34	57.40	65.80	8.40	3706.55
MW-1A	02/02/06	3765.34	57.40	65.87	8.47	3706.54
MW-1A	02/08/06	3765.34	57.41	65.91	8.50	3706.53
MW-1A	02/10/06	3765.34	57.40	65.87	8.47	3706.54
MW-1A	02/14/06	3765.34	57.43	65.91	8.48	3706.51
MW-1A	02/16/06	3765.34	57.46	65.83	8.37	3706.50
MW-1A	02/21/06	3765.34	57.45	66.00	8.55	3706.48
MW-1A	02/24/06	3765.34	57.47	65.91	8.44	3706.48
MW-1A	02/28/06	3765.34	57.21	71.50	14.29	3705.77
MW-1A	03/03/06	3765.34	57.43	66.00	8.57	3706.50
MW-1A	03/06/06	3765.34	57.45	66.00	8.55	3706.48
MW-1A	03/08/06	3765.34	57.50	65.87	8.37	3706.46
MW-1A	03/15/06	3765.34	57.51	66.03	8.52	3706.42
MW-1A	03/17/06	3765.34	57.53	65.93	8.40	3706.42
MW-1A	03/21/06	3765.34	57.51	66.04	8.53	3706.42
MW-1A	03/23/06	3765.34	57.42	65.83	8.41	3706.53
MW-1A	03/28/06	3765.34	57.52	66.03	8.51	3706.42
MW-1A	03/30/06	3765.34	57.54	65.95	8.41	3706.41
MW-1A	04/04/06	3765.34	57.55	66.07	8.52	3706.38
MW-1A	04/07/06	3765.34	57.57	66.05	8.48	3706.37
MW-1A	04/12/06	3765.34	57.59	66.10	8.51	3706.35
MW-1A	04/14/06	3765.34	57.58	66.01	8.43	3706.37
MW-1A	04/18/06	3765.34	57.55	66.10	8.55	3706.38
MW-1A	04/21/06	3765.34	57.61	61.18	3.57	3707.14

TALON LPE

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-1A	04/26/06	3765.34	57.56	66.10	8.54	3706.37
MW-1A	04/28/06	3765.34	57.60	65.98	8.38	3706.36
MW-1A	05/04/06	3765.34	57.61	66.13	8.52	3706.32
MW-1A	05/05/06	3765.34	57.62	66.11	8.49	3706.32
MW-1A	05/10/06	3765.34	57.66	66.20	8.54	3706.27
MW-1A	05/12/06	3765.34	57.65	66.05	8.40	3706.30
MW-1A	05/16/06	3765.34	57.66	66.20	8.54	3706.27
MW-1A	05/18/06	3765.34	57.66	66.08	8.42	3706.29
MW-1A	05/23/06	3765.34	57.67	66.22	8.55	3706.26
MW-1A	05/26/06	3765.34	57.87	66.16	8.29	3706.10
MW-1A	05/30/06	3765.34	57.68	66.23	8.55	3706.25
MW-1A	06/01/06	3765.34	57.70	66.11	8.41	3706.25
MW-1A	06/06/06	3765.34	57.70	66.25	8.55	3706.23
MW-1A	06/09/06	3765.34	57.70	66.26	8.56	3706.23
MW-1A	06/13/06	3765.34	57.71	66.27	8.56	3706.22
MW-1A	06/16/06	3765.34	57.72	66.25	8.53	3706.21
MW-1A	06/20/06	3765.34	57.72	66.27	8.55	3706.21
MW-1A	06/23/06	3765.34	57.72	66.26	8.54	3706.21
MW-1A	06/27/06	3765.34	57.74	66.28	8.54	3706.19
MW-1A	06/30/06	3765.34	57.75	66.25	8.50	3706.19
MW-1A	07/05/06	3765.34	57.75	66.27	8.52	3706.18
MW-1A	07/07/06	3765.34	57.77	66.31	8.54	3706.16
MW-1A	07/11/06	3765.34	57.78	66.30	8.52	3706.15
MW-1A	07/13/06	3765.34	57.79	66.20	8.41	3706.16
MW-1A	07/18/06	3765.34	57.80	66.36	8.56	3706.13
MW-1A	07/21/06	3765.34	57.80	66.30	8.50	3706.14
MW-1A	07/25/06	3765.34	57.81	66.38	8.57	3706.12
MW-1A	07/27/06	3765.34	57.81	66.28	8.47	3706.13
MW-1A	08/01/06	3765.34	57.83	66.41	8.58	3706.09
MW-1A	08/03/06	3765.34	57.85	66.36	8.51	3706.09
MW-1A	08/09/06	3765.34	57.87	66.44	8.57	3706.06
MW-1A	08/11/06	3765.34	57.87	66.35	8.48	3706.07
MW-1A	08/15/06	3765.34	57.89	66.46	8.57	3706.04
MW-1A	08/15/06	3765.34	57.89	66.46	8.57	3706.04
MW-1A	08/18/06	3765.34	57.89	66.46	8.57	3706.04
MW-1A	08/25/06	3765.34	57.92	66.51	8.59	3706.00
MW-1A	08/30/06	3765.34	57.94	66.43	8.49	3706.00
MW-1A	09/15/06	3765.34	57.27	67.55	10.28	3706.37
MW-1A	09/20/06	3765.34	57.74	66.64	8.90	3706.13
MW-1A	09/26/06	3765.34	57.92	66.16	8.24	3706.06

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-1A	09/29/06	3765.34	57.98	66.03	8.05	3706.03
MW-1A	10/04/06	3765.34	58.01	66.03	8.02	3706.01
MW-1A	10/06/06	3765.34	58.03	65.94	7.91	3706.00
MW-1A	10/12/06	3765.34	58.06	63.14	5.08	3706.44
MW-1A	10/17/06	3765.34	58.90	66.30	7.40	3705.22
MW-1A	10/20/06	3765.34	58.08	66.04	7.96	3705.95
MW-1A	10/24/06	3765.34	58.10	66.02	7.92	3705.93
MW-1A	10/26/06	3765.34	58.90	66.02	7.12	3705.27
MW-1A	11/22/06	3765.34	58.16	66.34	8.18	3705.83
MW-1A	11/28/06	3765.34	58.19	66.41	8.22	3705.79
MW-1A	12/06/06	3765.34	58.25	66.49	8.24	3705.73
MW-1A	12/08/06	3765.34	58.44	68.14	9.70	3705.30
MW-1A	12/12/06	3765.34	58.25	66.49	8.24	3705.73
MW-1A	12/15/06	3765.34	58.92	66.01	7.09	3705.25
MW-1A	12/20/06	3765.34	NM	NM		
MW-1A	12/22/06	3765.34	58.34	66.41	8.07	3705.67
MW-1A	12/27/06	3765.34	58.30	66.65	8.35	3705.66
MW-1A	01/03/07	3765.34	58.34	66.69	8.35	3705.62
MW-1A	01/05/07	3765.34	58.32	66.72	8.40	3705.63
MW-1A	01/12/07	3765.34	58.35	66.76	8.41	3705.60
MW-1A	01/15/07	3765.34	58.40	66.72	8.32	3705.57
MW-1A	01/18/07	3765.34	58.38	66.78	8.40	3705.57
MW-1A	01/31/07	3765.34	58.41	66.87	8.46	3705.53
MW-1A	02/07/07	3765.34	58.31	67.78	9.47	3705.47
MW-1A	02/09/07	3765.34	58.43	66.69	8.26	3705.55
MW-1A	02/13/07	3765.34	58.44	66.85	8.41	3705.51
MW-1A	02/16/07	3765.34	58.42	66.79	8.37	3705.54
MW-1A	02/19/07	3765.34	58.48	66.42	7.94	3705.55
MW-1A	03/09/07	3765.34	65.02	73.50	8.48	3698.92
MW-1A	03/13/07	3765.34	65.67	74.02	8.35	3698.29
MW-1A	03/23/07	3765.34	65.10	73.47	8.37	3698.86
MW-1A	03/27/07	3768.36	65.09	73.55	8.46	3701.87
MW-1A	04/06/07		65.13	73.52	8.39	3701.85
MW-1A	04/11/07		66.17	72.20	6.03	3701.20
MW-1A	04/17/07		65.15	73.65	8.50	3701.81
MW-1A	04/19/07		65.15	73.42	8.27	3701.85
MW-1A	04/24/07		65.15	73.76	8.61	3701.79
MW-1A	05/01/07		65.20	72.21	7.01	3702.00
MW-1A	05/21/07		65.23	73.54	8.31	3701.76
MW-1A	05/24/07		65.45	73.84	8.39	3701.53

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-1A	06/28/07		65.38	73.90	8.52	3701.57
MW-1A	08/07/07		65.31	73.92	8.61	3701.63
MW-1A	08/17/07		64.25	71.76	7.51	3702.87
MW-1A	08/23/07		65.34	73.86	8.52	3701.61
MW-1A	08/31/07		65.37	73.89	8.52	3701.58
MW-1A	09/21/07		65.43	73.60	8.17	3701.58
MW-1A	09/28/07		65.45	73.96	8.51	3701.51
MW-1A	10/11/07		65.48	72.48	7.00	3701.73
MW-1A	10/18/07		65.51	73.98	8.47	3701.45
MW-1A	11/13/07		64.68	73.17	8.49	3702.28
MW-1A	11/27/07		64.72	73.21	8.49	3702.24
MW-1A	12/13/07		64.76	73.29	8.53	3702.19
MW-1A	12/17/07		64.83	73.28	8.45	3702.14
MW-1A	12/31/07		64.84	73.36	8.52	3702.11
MW-1A	01/06/08		64.91	73.29	8.38	3702.07
MW-1A	03/05/08		65.06	73.57	8.51	3701.90
MW-1A	03/26/08		65.12	73.37	8.25	3701.88
MW-1A	04/02/08		65.17	73.46	8.29	3701.82
MW-1A	04/04/08		65.28	73.49	8.21	3701.73
MW-1A	04/24/08		65.23	73.63	8.40	3701.74
MW-1A	05/06/08		65.31	73.77	8.46	3701.65
MW-1A	05/27/08		65.42	73.88	8.46	3701.54
MW-1A	06/04/08		65.47	73.92	8.45	3701.50
MW-1A	06/24/08		65.61	74.09	8.48	3701.35
MW-1A	07/02/08		65.68	74.17	8.49	3701.28
MW-1A	07/15/08		65.78	74.21	8.43	3701.19
MW-1A	07/22/08		65.83	74.21	8.38	3701.15
MW-1A	07/31/08		65.94	74.35	8.41	3701.03
MW-1A	08/07/08		66.03	74.36	8.33	3700.96
MW-1A	08/29/08		65.42	73.88	8.46	3701.54
MW-1A	09/16/08		65.49	74.00	8.51	3701.47
MW-1A	12/16/08		65.73	73.61	7.88	3701.33
MW-1A	01/29/09		65.82	73.96	8.14	3701.20
MW-1A	02/04/09		65.85	73.95	8.10	3701.17
MW-1A	05/26/09		66.15	74.02	7.87	3700.91
MW-1A	08/12/09		66.43	74.15	7.72	3700.66
MW-1A	11/19/09		66.95	74.21	7.26	3700.21
MW-1	09/22/04	3766.03	56.74	67.29	10.55	3707.55
MW-1	10/08/04		52.27	75.25	22.98	3709.97

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-1	10/14/04		53.67	71.20	17.53	3709.47
MW-1	10/20/04		54.64	68.31	13.67	3709.13
MW-1	10/29/04		56.08	63.66	7.58	3708.70
MW-1	11/04/04		57.49	58.46	0.97	3708.38
MW-1	11/10/04		57.69	58.40	0.71	3708.22
MW-1	11/17/04		57.88	58.22	0.34	3708.09
MW-1	11/24/04		57.91	58.13	0.22	3708.08
MW-1	12/02/04		57.75	58.67	0.92	3708.13
MW-1	12/08/04		57.70	58.64	0.94	3708.17
MW-1	12/15/04		57.89	59.15	1.26	3707.93
MW-1	12/27/04		58.20	58.64	0.44	3707.76
MW-1	12/29/04		58.17	58.60	0.43	3707.79
MW-1	01/06/05		58.29	58.72	0.43	3707.67
MW-1	01/13/05		58.40	58.72	0.32	3707.58
MW-1	01/19/05		58.42	58.71	0.29	3707.56
MW-1	01/26/05		58.48	58.83	0.35	3707.49
MW-1	02/02/05		58.49	58.81	0.32	3707.49
MW-1	02/09/05		58.48	58.80	0.32	3707.50
MW-1	02/16/05		58.54	58.86	0.32	3707.44
MW-1	02/24/05		58.57	58.89	0.32	3707.41
MW-1	03/03/05		58.62	58.89	0.27	3707.37
MW-1	03/11/05		58.54	58.63	0.09	3707.48
MW-1	03/18/05		58.63	59.08	0.45	3707.33
MW-1	04/01/05		58.60	59.07	0.47	3707.35
MW-1	04/07/05		58.65	59.17	0.52	3707.29
MW-1	05/18/05		58.77	59.30	0.53	3707.17
MW-1	05/23/05		58.88	58.94	0.06	3707.14
MW-1	05/26/05		58.89	58.91	0.02	3707.14
MW-1	06/01/05		58.89	58.97	0.08	3707.13
MW-1	06/03/05		58.86	58.98	0.12	3707.15
MW-1	06/07/05		58.90	59.03	0.13	3707.11
MW-1	06/10/05		58.90	59.02	0.12	3707.11
MW-1	06/13/05		58.90	59.12	0.22	3707.09
MW-1	06/16/05		58.91	59.02	0.11	3707.10
MW-1	06/20/05		58.95	59.12	0.17	3707.05
MW-1	06/22/05		58.94	59.14	0.20	3707.06
MW-1	06/29/05		58.95	59.08	0.13	3707.06
MW-1	07/01/05		58.97	59.09	0.12	3707.04
MW-1	07/06/05		58.99	59.08	0.09	3707.03
MW-1	07/08/05		58.90	59.02	0.12	3707.11
MW-1	07/12/05		59.02	59.11	0.09	3707.00
MW-1	07/14/05		58.99	59.22	0.23	3707.00
MW-1	07/19/05		59.01	59.18	0.17	3706.99
MW-1	07/21/05		59.04	59.38	0.34	3706.93
MW-1	07/26/05		59.04	59.13	0.09	3706.98
MW-1	07/28/05		59.17	59.65	0.48	3706.78

TALON LPE

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-1	08/02/05		59.04	59.23	0.19	3706.96
MW-1	08/04/05		59.05	59.28	0.23	3706.94
MW-1	08/09/05		59.04	59.33	0.29	3706.94
MW-1	08/11/05		59.04	59.37	0.33	3706.94
MW-1	08/16/05		59.05	59.46	0.41	3706.91
MW-1	08/18/05		59.04	59.48	0.44	3706.92
MW-1	08/24/05		59.03	59.56	0.53	3706.91
MW-1	08/26/05		59.04	59.61	0.57	3706.90
MW-1	08/30/05		58.91	59.71	0.80	3706.99
MW-1	09/01/05		58.82	60.17	1.35	3706.99
MW-1	09/06/05		58.85	59.63	0.78	3707.05
MW-1	09/08/05		59.02	59.38	0.36	3706.95
MW-1	09/13/05		58.92	59.92	1.00	3706.95
MW-1	09/16/05		59.07	59.37	0.30	3706.91
MW-1	09/20/05		59.05	59.67	0.62	3706.88
MW-1	09/23/05		59.03	59.82	0.79	3706.87
MW-1	09/27/05		58.98	59.98	1.00	3706.89
MW-1	09/29/05		59.15	59.25	0.10	3706.86
MW-1	10/04/05		59.11	59.44	0.33	3706.87
MW-1	10/06/05		59.14	59.56	0.42	3706.82
MW-1	10/11/05		59.08	59.78	0.70	3706.83
MW-1	10/13/05		59.06	59.92	0.86	3706.83
MW-1	10/18/05		59.04	60.42	1.38	3706.76
MW-1	10/21/05		59.03	60.24	1.21	3706.80
MW-1	10/26/05		58.94	60.40	1.46	3706.85
MW-1	10/28/05		59.18	59.50	0.32	3706.80
MW-1	11/01/05		59.16	59.70	0.54	3706.78
MW-1	11/04/05		59.14	59.81	0.67	3706.78
MW-1	11/09/05		59.26	59.54	0.28	3706.72
MW-1	11/11/05		59.26	59.54	0.28	3706.72
MW-1	11/16/05		59.21	59.84	0.63	3706.72
MW-1	11/18/05		59.26	59.86	0.60	3706.67
MW-1	11/22/05		59.17	60.10	0.93	3706.71
MW-1	11/30/05		59.11	60.46	1.35	3706.70
MW-1	12/02/05		59.11	60.46	1.35	3706.70
MW-1	12/06/05		59.05	60.75	1.70	3706.70
MW-1	12/14/05		59.27	60.04	0.77	3706.63
MW-1	12/16/05		59.28	60.04	0.76	3706.62
MW-1	12/21/05		59.28	60.04	0.76	3706.62
MW-1	12/23/05		59.19	59.53	0.34	3706.78
MW-1	12/27/05		59.19	59.53	0.34	3706.78
MW-1	12/30/05		59.03	59.91	0.88	3706.85
MW-1	01/03/06		59.11	61.18	2.07	3706.58
MW-1	01/05/06		59.16	59.43	0.27	3706.83
MW-1	01/11/06		59.38	60.03	0.65	3706.54
MW-1	01/13/06		59.40	60.18	0.78	3706.50

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-1	01/18/06		59.28	60.45	1.17	3706.56
MW-1	01/20/06		59.29	60.61	1.32	3706.52
MW-1	01/24/06		59.24	60.87	1.63	3706.52
MW-1	01/26/06		59.23	60.82	1.59	3706.54
MW-1	02/02/06		59.08	61.49	2.41	3706.55
MW-1	02/08/06		59.00	61.90	2.90	3706.55
MW-1	02/10/06		58.97	61.83	2.86	3706.59
MW-1	02/14/06		59.44	60.11	0.67	3706.48
MW-1	02/16/06		59.55	59.76	0.21	3706.45
MW-1	02/21/06		57.45	60.15	2.70	3708.13
MW-1	02/24/06		59.52	60.00	0.48	3706.43
MW-1	02/28/06		59.40	60.32	0.92	3706.48
MW-1	03/03/06		59.37	60.61	1.24	3706.46
MW-1	03/06/06		59.45	60.84	1.39	3706.35
MW-1	03/08/06		59.30	61.05	1.75	3706.44
MW-1	03/15/06		59.39	60.30	0.91	3706.49
MW-1	03/17/06		59.38	60.30	0.92	3706.50
MW-1	03/21/06		59.52	60.28	0.76	3706.38
MW-1	03/23/06		59.39	60.33	0.94	3706.48
MW-1	03/28/06		59.45	60.60	1.15	3706.39
MW-1	03/30/06		59.49	60.65	1.16	3706.35
MW-1	04/04/06		59.38	60.98	1.60	3706.39
MW-1	04/07/06		59.35	61.30	1.95	3706.36
MW-1	04/12/06		59.23	61.80	2.57	3706.38
MW-1	04/14/06		59.55	60.47	0.92	3706.33
MW-1	04/18/06		59.43	60.82	1.39	3706.37
MW-1	04/21/06		59.41	61.18	1.77	3706.33
MW-1	04/26/06		59.25	61.65	2.40	3706.38
MW-1	04/28/06		59.50	60.80	1.30	3706.32
MW-1	05/04/06		59.41	61.25	1.84	3706.32
MW-1	05/05/06		59.41	60.37	0.96	3706.46
MW-1	05/10/06		59.35	60.95	1.60	3706.42
MW-1	05/12/06		59.27	62.15	2.88	3706.28
MW-1	05/16/06		59.37	61.82	2.45	3706.26
MW-1	05/18/06		59.41	61.55	2.14	3706.27
MW-1	05/23/06		59.35	61.87	2.52	3706.26
MW-1	05/26/06		59.38	61.75	2.37	3706.26
MW-1	05/30/06		59.43	61.62	2.19	3706.24
MW-1	06/01/06		59.41	60.80	1.39	3706.39
MW-1	06/06/06		59.28	62.40	3.12	3706.24
MW-1	06/09/06		59.18	62.74	3.56	3706.26
MW-1	06/13/06		59.27	62.50	3.23	3706.23
MW-1	06/16/06		59.30	62.25	2.95	3706.24
MW-1	06/20/06		59.46	61.59	2.13	3706.22
MW-1	06/23/06		59.38	62.02	2.64	3706.21
MW-1	06/27/06		59.74	62.08	2.34	3705.90

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-1	06/30/06		59.65	60.92	1.27	3706.17
MW-1	07/05/06		59.54	61.50	1.96	3706.17
MW-1	07/07/06		59.59	61.80	2.21	3706.08
MW-1	07/11/06		59.62	61.31	1.69	3706.13
MW-1	07/13/06		59.58	61.51	1.93	3706.13
MW-1	07/18/06		59.58	61.55	1.97	3706.12
MW-1	07/21/06		59.78	60.59	0.81	3706.12
MW-1	07/25/06		59.67	61.20	1.53	3706.11
MW-1	07/27/06		59.65	61.31	1.66	3706.11
MW-1	08/01/06		59.71	61.15	1.44	3706.08
MW-1	08/03/06		59.65	61.46	1.81	3706.08
MW-1	08/09/06		59.62	61.74	2.12	3706.06
MW-1	08/11/06		59.27	61.12	1.85	3706.45
MW-1	08/15/06		59.65	61.82	2.17	3706.02
MW-1	08/18/06		59.52	62.35	2.83	3706.04
MW-1	08/25/06		59.67	61.80	2.13	3706.01
MW-1	08/30/06		59.68	61.81	2.13	3706.00
MW-1	09/12/06		NM	NM	#VALUE!	#VALUE!
MW-1	09/15/06		58.27	61.35	3.08	3707.25
MW-1	09/20/06		58.88	65.01	6.13	3706.14
MW-1	09/26/06		59.08	64.38	5.30	3706.08
MW-1	09/29/06		59.61	62.10	2.49	3706.01
MW-1	10/04/06		59.26	63.81	4.55	3706.02
MW-1	10/06/06		59.81	61.34	1.53	3705.97
MW-1	10/12/06		59.44	63.14	3.70	3705.98
MW-1	10/17/06		59.88	61.21	1.33	3705.93
MW-1	10/24/06		59.88	61.21	1.33	3705.93
MW-1	10/26/06		59.44	62.97	3.53	3706.01
MW-1	11/22/06		58.91	66.21	7.30	3705.92
MW-1	11/28/06		58.96	66.12	7.16	3705.89
MW-1	12/06/06		58.93	66.70	7.77	3705.82
MW-1	12/08/06		58.06	66.02	7.96	3706.66
MW-1	12/12/06		59.34	64.75	5.41	3705.80
MW-1	12/15/06		59.48	62.95	3.47	3705.98
MW-1	12/20/06		NM	NM		
MW-1	12/22/06		59.19	65.57	6.38	3705.79
MW-1	12/27/06		59.04	66.32	7.28	3705.79
MW-1	01/03/07		58.79	66.93	8.14	3705.90
MW-1	01/05/07		58.96	66.98	8.02	3705.75
MW-1	01/12/07		58.96	67.16	8.20	3705.72
MW-1	01/15/07		59.76	63.69	3.93	3705.62
MW-1	01/18/07		59.35	65.54	6.19	3705.66
MW-1	01/31/07		59.10	66.88	7.78	3705.65
MW-1	02/07/07		58.91	67.12	8.21	3705.77
MW-1	02/09/07		59.84	63.81	3.97	3705.53
MW-1	02/13/07		59.64	64.67	5.03	3705.56

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-1	02/16/07		59.86	63.61	3.75	3705.55
MW-1	02/19/07		59.78	63.93	4.15	3705.57
MW-1	03/09/07		66.68	73.94	7.26	3698.15
MW-1	03/13/04		65.05	73.54	8.49	3699.58
MW-1	03/14/07		Plugged Well			
MW-2	10/29/04	3770.91				
MW-2	11/04/04		61.70	65.44	3.74	3708.59
MW-2	11/10/04		61.48	67.15	5.67	3708.49
MW-2	11/17/04		61.72	66.74	5.02	3708.36
MW-2	11/24/04		61.81	67.10	5.29	3708.23
MW-2	12/02/04		61.44	68.41	6.97	3708.32
MW-2	12/08/04		61.38	68.39	7.01	3708.37
MW-2	12/15/04		61.52	68.86	7.34	3708.18
MW-2	12/27/04		61.65	69.09	7.44	3708.03
MW-2	12/29/04		61.66	69.08	7.42	3708.03
MW-2	01/06/05		61.72	69.18	7.46	3707.96
MW-2	01/13/05		61.81	69.21	7.40	3707.88
MW-2	01/19/05		61.85	69.25	7.40	3707.84
MW-2	01/26/05		61.89	69.41	7.52	3707.78
MW-2	02/02/05		61.93	69.45	7.52	3707.74
MW-2	02/09/05		61.92	69.48	7.56	3707.74
MW-2	02/16/05		61.96	69.57	7.61	3707.69
MW-2	02/24/05		62.01	69.59	7.58	3707.65
MW-2	03/03/05		62.00	69.65	7.65	3707.65
MW-2	03/11/05		62.18	67.69	5.51	3707.82
MW-2	03/18/05		62.04	69.69	7.65	3707.61
MW-2	04/01/05		62.08	69.79	7.71	3707.56
MW-2	04/07/05		62.08	69.74	7.66	3707.57
MW-2	05/18/05		62.16	69.89	7.73	3707.47
MW-2	05/23/05		62.19	69.90	7.71	3707.45
MW-2	05/26/05		62.24	69.80	7.56	3707.42
MW-2	06/01/05		62.21	69.91	7.70	3707.43
MW-2	06/03/05		62.30	69.50	7.20	3707.42
MW-2	06/07/05		62.24	69.91	7.67	3707.40
MW-2	06/10/05		62.26	69.81	7.55	3707.40
MW-2	06/13/05		62.26	69.90	7.64	3707.39
MW-2	06/16/05		62.28	69.80	7.52	3707.39
MW-2	06/20/05		62.29	69.95	7.66	3707.36
MW-2	06/22/05		62.36	69.57	7.21	3707.36
MW-2	06/29/05		62.28	69.96	7.68	3707.36

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-2	07/01/05		62.35	69.61	7.26	3707.36
MW-2	07/06/05		62.31	69.99	7.68	3707.33
MW-2	07/08/05		62.41	69.54	7.13	3707.32
MW-2	07/12/05		62.33	70.29	7.96	3707.27
MW-2	07/14/05		62.40	69.68	7.28	3707.31
MW-2	07/19/05		62.35	70.04	7.69	3707.29
MW-2	07/21/05		62.44	69.69	7.25	3707.27
MW-2	07/26/05		62.38	70.02	7.64	3707.27
MW-2	07/28/05		62.49	69.74	7.25	3707.22
MW-2	08/02/05		62.40	70.03	7.63	3707.25
MW-2	08/04/05		62.47	69.76	7.29	3707.24
MW-2	08/09/05		62.41	70.05	7.64	3707.24
MW-2	08/11/05		62.48	69.82	7.34	3707.22
MW-2	08/16/05		62.45	70.09	7.64	3707.20
MW-2	08/18/05		62.50	69.85	7.35	3707.20
MW-2	08/24/05		62.41	70.11	7.70	3707.23
MW-2	08/26/05		62.51	69.89	7.38	3707.18
MW-2	08/30/05		62.46	70.08	7.62	3707.19
MW-2	09/01/05		62.52	69.83	7.31	3707.18
MW-2	09/06/05		62.47	70.08	7.61	3707.18
MW-2	09/08/05		62.51	69.81	7.30	3707.20
MW-2	09/13/05		62.48	70.07	7.59	3707.18
MW-2	09/16/05		62.51	70.04	7.53	3707.16
MW-2	09/20/05		62.50	70.09	7.59	3707.16
MW-2	09/23/05		62.53	70.03	7.50	3707.14
MW-2	09/27/05		62.50	70.15	7.65	3707.15
MW-2	09/29/05		62.56	69.94	7.38	3707.13
MW-2	10/04/05		62.52	70.12	7.60	3707.14
MW-2	10/06/05		62.61	69.98	7.37	3707.08
MW-2	10/11/05		62.53	70.14	7.61	3707.12
MW-2	10/13/05		62.55	70.08	7.53	3707.12
MW-2	10/18/05		62.56	70.18	7.62	3707.09
MW-2	10/21/05		62.58	70.17	7.59	3707.08
MW-2	10/26/05		62.57	70.20	7.63	3707.08
MW-2	10/28/05		62.61	70.07	7.46	3707.07
MW-2	11/01/05		62.59	70.21	7.62	3707.06
MW-2	11/04/05		62.60	70.20	7.60	3707.06
MW-2	11/09/05		62.64	70.28	7.64	3707.01
MW-2	11/11/05		62.64	70.29	7.65	3707.01
MW-2	11/16/05		62.63	70.27	7.64	3707.02

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-2	11/18/05		62.68	70.17	7.49	3706.99
MW-2	11/22/05		62.65	70.29	7.64	3707.00
MW-2	11/30/05		62.66	70.33	7.67	3706.98
MW-2	12/02/05		62.71	70.22	7.51	3706.96
MW-2	12/06/05		62.70	70.36	7.66	3706.95
MW-2	12/14/05		62.72	70.39	7.67	3706.92
MW-2	12/16/05		62.73	70.38	7.65	3706.92
MW-2	12/21/05		62.75	70.25	7.50	3706.92
MW-2	12/23/05		62.78	70.23	7.45	3706.90
MW-2	12/27/05		62.75	70.39	7.64	3706.90
MW-2	12/30/05		62.78	70.39	7.61	3706.87
MW-2	01/03/06		62.76	70.39	7.63	3706.89
MW-2	01/05/06		62.80	70.34	7.54	3706.87
MW-2	01/11/06		62.81	70.44	7.63	3706.84
MW-2	01/13/06		62.83	70.37	7.54	3706.84
MW-2	01/18/06		62.80	70.43	7.63	3706.85
MW-2	01/20/06		62.85	70.36	7.51	3706.82
MW-2	01/24/06		62.85	72.50	9.65	3706.47
MW-2	01/26/06		62.80	72.43	9.63	3706.52
MW-2	02/02/06		62.82	70.51	7.69	3706.82
MW-2	02/08/06		62.85	70.50	7.65	3706.80
MW-2	02/10/06		62.81	70.48	7.67	3706.83
MW-2	02/14/06		62.87	70.55	7.68	3706.77
MW-2	02/16/06		62.91	70.46	7.55	3706.75
MW-2	02/21/06		62.95	70.51	7.56	3706.71
MW-2	02/24/06		62.92	70.54	7.62	3706.73
MW-2	02/28/06		62.90	72.50	9.60	3706.43
MW-2	03/03/06		62.92	69.60	6.68	3706.89
MW-2	03/06/06		62.93	70.57	7.64	3706.72
MW-2	03/08/06		62.95	69.52	6.57	3706.88
MW-2	03/15/06		62.97	70.63	7.66	3706.68
MW-2	03/17/06		63.00	70.54	7.54	3706.67
MW-2	03/21/06		62.90	70.60	7.70	3706.74
MW-2	03/23/06		62.90	70.40	7.50	3706.77
MW-2	03/28/06		63.30	70.60	7.30	3706.41
MW-2	03/30/06		63.03	70.60	7.57	3706.63
MW-2	04/04/06		63.01	70.65	7.64	3706.64
MW-2	04/07/06		63.05	70.65	7.60	3706.61
MW-2	04/12/06		63.02	70.29	7.27	3706.69
MW-2	04/14/06		63.06	70.60	7.54	3706.61

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-2	04/18/06		63.01	70.61	7.60	3706.65
MW-2	04/21/06		63.08	70.66	7.58	3706.58
MW-2	04/26/06		63.03	70.62	7.59	3706.63
MW-2	04/28/06		63.07	70.60	7.53	3706.60
MW-2	05/04/06		63.08	70.68	7.60	3706.58
MW-2	05/05/06		63.10	70.69	7.59	3706.56
MW-2	05/10/06		63.13	70.74	7.61	3706.52
MW-2	05/12/06		63.13	70.67	7.54	3706.54
MW-2	05/16/06		63.46	70.71	7.25	3706.25
MW-2	05/18/06		63.14	70.69	7.55	3706.52
MW-2	05/23/06		63.14	70.73	7.59	3706.52
MW-2	05/26/06		63.15	70.73	7.58	3706.51
MW-2	05/30/06		63.16	70.37	7.21	3706.56
MW-2	06/01/06		63.18	70.74	7.56	3706.48
MW-2	06/06/06		63.17	70.28	7.11	3706.57
MW-2	06/09/06		63.16	70.77	7.61	3706.49
MW-2	06/13/06		63.19	70.80	7.61	3706.46
MW-2	06/16/06		63.20	70.77	7.57	3706.46
MW-2	06/20/06		63.20	70.77	7.57	3706.46
MW-2	06/23/06		63.19	70.79	7.60	3706.47
MW-2	06/27/06		63.22	70.81	7.59	3706.44
MW-2	06/30/06		63.21	70.78	7.57	3706.45
MW-2	07/05/06		63.22	70.80	7.58	3706.44
MW-2	07/07/06		63.26	70.77	7.51	3706.41
MW-2	07/11/06		63.25	70.81	7.56	3706.41
MW-2	07/13/06		63.27	70.75	7.48	3706.41
MW-2	07/18/06		63.28	70.84	7.56	3706.38
MW-2	07/21/06		63.28	70.80	7.52	3706.39
MW-2	07/25/06		63.30	70.84	7.54	3706.37
MW-2	07/27/06		63.30	70.84	7.54	3706.37
MW-2	08/01/06		63.33	70.87	7.54	3706.34
MW-2	08/03/06		63.34	70.84	7.50	3706.33
MW-2	08/09/06		63.35	70.89	7.54	3706.32
MW-2	08/11/06		63.35	70.83	7.48	3706.33
MW-2	08/15/06		63.38	70.91	7.53	3706.29
MW-2	08/18/06		63.38	70.90	7.52	3706.29
MW-2	08/25/06		63.40	70.95	7.55	3706.26
MW-2	08/30/06		62.44	71.40	8.96	3706.99
MW-2	09/15/06		63.40	70.98	7.58	3706.26
MW-2	09/20/06		63.43	71.01	7.58	3706.23

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-2	09/29/06		63.45	71.00	7.55	3706.21
MW-2	10/04/06		63.46	71.02	7.56	3706.20
MW-2	10/06/06		63.49	71.97	8.48	3706.02
MW-2	10/12/06		63.49	71.05	7.56	3706.17
MW-2	10/17/06		63.52	71.07	7.55	3706.14
MW-2	10/20/06		63.51	71.07	7.56	3706.15
MW-2	10/24/06		63.48	71.07	7.59	3706.18
MW-2	10/26/06		63.59	71.07	7.48	3706.09
MW-2	11/22/06		63.60	71.19	7.59	3706.06
MW-2	11/28/06		63.62	71.20	7.58	3706.04
MW-2	12/06/06		63.71	71.28	7.57	3705.95
MW-2	12/08/06		63.48	71.05	7.57	3706.18
MW-2	12/12/06		63.68	71.26	7.58	3705.98
MW-2	12/15/06		63.62	71.07	7.45	3706.06
MW-2	12/22/06		63.72	71.25	7.53	3705.95
MW-2	12/27/06		63.78	71.29	7.51	3705.89
MW-2	01/03/07		63.78	71.38	7.60	3705.88
MW-2	01/05/07		63.82	71.36	7.54	3705.85
MW-2	01/12/07		63.82	71.42	7.60	3705.84
MW-2	01/15/07		63.88	71.40	7.52	3705.79
MW-2	01/18/07		63.86	71.43	7.57	3705.80
MW-2	01/31/07		63.88	71.46	7.58	3705.78
MW-2	02/07/07		63.75	71.50	7.75	3705.88
MW-2	02/09/07		63.90	71.48	7.58	3705.76
MW-2	02/13/07		63.89	76.48	12.59	3704.94
MW-2	02/16/07		63.89	74.46	10.57	3705.28
MW-2	02/19/07		63.87	71.48	7.61	3705.78
MW-2	02/21/07		63.90	71.49	7.59	3705.76
MW-2	02/26/07		63.95	71.53	7.58	3705.71
MW-2	03/01/07		63.96	71.55	7.59	3705.70
MW-2	03/06/07		63.90	71.49	7.59	3705.76
MW-2	03/09/07		63.91	71.65	7.74	3705.72
MW-2	03/13/07		63.95	71.53	7.58	3705.71
MW-2	03/23/07		63.97	71.53	7.56	3705.69
MW-2	03/27/07	3768.35	63.86	71.54	7.68	3703.22
MW-2	04/06/07		64.03	71.59	7.56	3703.07
MW-2	04/11/07		64.03	71.57	7.54	3703.08
MW-2	04/17/07		64.03	71.50	7.47	3703.09
MW-2	04/19/07		64.04	71.50	7.46	3703.08
MW-2	04/24/07		64.05	71.61	7.56	3703.05

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-2	05/01/07		64.05	71.67	7.62	3703.04
MW-2	05/21/07		64.11	71.67	7.56	3702.99
MW-2	05/24/07		64.15	73.84	9.69	3702.60
MW-2	06/28/07		64.28	71.82	7.54	3702.83
MW-2	08/07/07		64.21	71.26	7.05	3702.98
MW-2	08/17/07		65.34	73.88	8.54	3701.60
MW-2	08/23/07		64.27	71.75	7.48	3702.85
MW-2	08/31/07		64.28	71.76	7.48	3702.84
MW-2	09/21/07		64.37	71.84	7.47	3702.75
MW-2	09/28/07		64.36	71.84	7.48	3702.76
MW-2	10/11/07		64.42	71.87	7.45	3702.70
MW-2	10/18/07		64.44	71.89	7.45	3702.68
MW-2	11/13/07		65.40	71.98	6.58	3701.86
MW-2	11/27/07		64.57	72.05	7.48	3702.55
MW-2	12/13/07		64.65	72.12	7.47	3702.47
MW-2	12/17/07		64.67	72.12	7.45	3702.45
MW-2	12/31/07		64.42	72.18	7.76	3702.65
MW-2	01/16/08		64.47	72.21	7.74	3702.60
MW-2	03/05/08		64.92	72.36	7.44	3702.20
MW-2	03/26/08		64.99	72.40	7.41	3702.14
MW-2	04/02/08		65.04	72.47	7.43	3702.08
MW-2	04/04/08		65.03	72.48	7.45	3702.09
MW-2	04/24/08		65.08	72.53	7.45	3702.04
MW-2	05/06/08		65.16	72.59	7.43	3701.96
MW-2	05/27/08		65.32	72.32	7.00	3701.88
MW-2	06/04/08		65.32	72.73	7.41	3701.81
MW-2	06/24/08		65.49	72.90	7.41	3701.64
MW-2	07/02/08		65.56	72.95	7.39	3701.57
MW-2	07/15/08		65.65	73.04	7.39	3701.48
MW-2	07/22/08		65.71	73.06	7.35	3701.43
MW-2	07/31/08		66.82	73.17	6.35	3700.48
MW-2	08/07/08		65.91	73.25	7.34	3701.23
MW-2	08/29/08		65.30	72.63	7.33	3701.84
MW-2	09/16/08		65.33	72.69	7.36	3701.81
MW-2	12/16/08		66.02	70.54	4.52	3701.58
MW-2	01/29/09		65.80	72.45	6.65	3701.45
MW-2	02/04/09		66.27	70.44	4.17	3701.39
MW-2	05/26/09		66.02	73.15	7.13	3701.15
MW-2	08/12/09		66.52	72.49	5.97	3700.84
MW-2	11/19/09		67.63	70.09	2.46	3700.31

TALON LPE

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-3	10/29/04	3769.96	62.90	72.15	9.25	3705.53
MW-3	11/04/04		60.05	70.21	10.16	3708.23
MW-3	11/10/04		60.19	70.25	10.06	3708.11
MW-3	11/17/04		60.34	70.26	9.92	3707.98
MW-3	11/24/04		60.50	70.26	9.76	3707.85
MW-3	12/02/04		60.52	70.10	9.58	3707.86
MW-3	12/08/04		60.48	70.02	9.54	3707.91
MW-3	12/15/04		60.68	70.22	9.54	3707.71
MW-3	12/27/04		60.81	70.39	9.58	3707.57
MW-3	12/29/04		60.78	70.39	9.61	3707.59
MW-3	01/06/05		60.91	70.40	9.49	3707.48
MW-3	01/13/05		61.04	70.46	9.42	3707.37
MW-3	01/19/05		61.04	70.46	9.42	3707.37
MW-3	01/26/05		61.11	70.56	9.45	3707.29
MW-3	02/02/05		61.17	70.58	9.41	3707.24
MW-3	02/09/05		61.28	70.55	9.27	3707.15
MW-3	02/16/05		61.19	70.54	9.35	3707.23
MW-3	02/24/05		61.21	70.55	9.34	3707.21
MW-3	03/03/05		61.21	70.57	9.36	3707.21
MW-3	03/11/05		61.19	70.45	9.26	3707.24
MW-3	03/18/05		61.31	70.55	9.24	3707.13
MW-3	04/01/05		61.38	70.58	9.20	3707.06
MW-3	04/07/05		61.35	70.54	9.19	3707.09
MW-3	05/18/05		61.45	70.60	9.15	3707.00
MW-3	05/23/05		61.49	70.60	9.11	3706.97
MW-3	05/26/05		61.53	70.64	9.11	3706.93
MW-3	06/01/05		61.51	70.90	9.39	3706.90
MW-3	06/03/05		61.51	70.59	9.08	3706.95
MW-3	06/07/05		61.55	70.65	9.10	3706.91
MW-3	06/10/05		61.54	70.61	9.07	3706.92
MW-3	06/13/05		61.55	70.63	9.08	3706.91
MW-3	06/16/05		61.56	70.60	9.04	3706.91
MW-3	06/20/05		61.58	70.66	9.08	3706.88
MW-3	06/22/05		61.60	70.75	9.15	3706.85
MW-3	06/29/05		61.59	70.69	9.10	3706.87
MW-3	07/01/05		61.62	70.74	9.12	3706.84
MW-3	07/06/05		61.65	70.66	9.01	3706.82
MW-3	07/08/05		61.63	70.64	9.01	3706.84
MW-3	07/12/05		61.65	70.85	9.20	3706.79

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-3	07/14/05		61.64	70.67	9.03	3706.83
MW-3	07/19/05		61.65	70.71	9.06	3706.82
MW-3	07/21/05		61.68	70.74	9.06	3706.79
MW-3	07/26/05		61.69	70.73	9.04	3706.78
MW-3	07/28/05		61.70	70.71	9.01	3706.77
MW-3	08/02/05		60.70	70.75	10.05	3707.60
MW-3	08/04/05		61.72	70.73	9.01	3706.75
MW-3	08/09/05		61.72	70.77	9.05	3706.75
MW-3	08/11/05		61.73	70.75	9.02	3706.74
MW-3	08/16/05		61.75	70.79	9.04	3706.72
MW-3	08/18/05		61.74	70.76	9.02	3706.73
MW-3	08/24/05		61.76	70.86	9.10	3706.70
MW-3	08/26/05		61.68	70.79	9.11	3706.78
MW-3	08/30/05		61.74	70.77	9.03	3706.73
MW-3	09/01/05		61.66	70.76	9.10	3706.80
MW-3	09/06/05		61.75	70.81	9.06	3706.72
MW-3	09/08/05		61.76	70.79	9.03	3706.71
MW-3	09/13/05		61.76	70.83	9.07	3706.70
MW-3	09/16/05		61.79	70.85	9.06	3706.68
MW-3	09/20/05		61.81	70.80	8.99	3706.67
MW-3	09/23/05		61.82	70.88	9.06	3706.65
MW-3	09/27/05		61.80	70.88	9.08	3706.66
MW-3	09/29/05		61.81	70.86	9.05	3706.66
MW-3	10/04/05		61.81	70.83	9.02	3706.66
MW-3	10/06/05		61.87	70.91	9.04	3706.60
MW-3	10/11/05		61.84	70.91	9.07	3706.62
MW-3	10/13/05		61.84	70.90	9.06	3706.63
MW-3	10/18/05		61.84	70.92	9.08	3706.62
MW-3	10/21/05		61.88	70.95	9.07	3706.58
MW-3	10/26/05		61.86	70.97	9.11	3706.60
MW-3	10/28/05		61.86	70.95	9.09	3706.60
MW-3	11/01/05		61.89	70.98	9.09	3706.57
MW-3	11/04/05		61.90	70.97	9.07	3706.56
MW-3	11/09/05		61.93	71.02	9.09	3706.53
MW-3	11/11/05		61.90	71.03	9.13	3706.55
MW-3	11/16/05		61.96	71.04	9.08	3706.50
MW-3	11/18/05		61.66	71.01	9.35	3706.76
MW-3	11/22/05		61.96	71.04	9.08	3706.50
MW-3	11/30/05		62.00	71.06	9.06	3706.47
MW-3	12/02/05		62.00	71.05	9.05	3706.47

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-3	12/06/05		61.97	71.06	9.09	3706.49
MW-3	12/14/05		62.02	71.08	9.06	3706.45
MW-3	12/16/05		62.03	71.05	9.02	3706.44
MW-3	12/21/05		62.03	71.07	9.04	3706.44
MW-3	12/23/05		62.06	71.06	9.00	3706.42
MW-3	12/27/05		62.07	71.11	9.04	3706.40
MW-3	12/30/05		62.09	71.06	8.97	3706.39
MW-3	01/03/06		62.10	71.11	9.01	3706.37
MW-3	01/05/06		62.09	71.10	9.01	3706.38
MW-3	01/11/06		62.10	71.14	9.04	3706.37
MW-3	01/13/06		62.17	71.15	8.98	3706.31
MW-3	01/18/06		62.11	71.13	9.02	3706.36
MW-3	01/20/06		62.18	71.14	8.96	3706.30
MW-3	01/24/06		62.20	71.20	9.00	3706.28
MW-3	01/26/06		62.19	71.21	9.02	3706.28
MW-3	02/02/06		62.15	71.15	9.00	3706.33
MW-3	02/08/06		62.17	71.15	8.98	3706.31
MW-3	02/10/06		62.16	71.13	8.97	3706.32
MW-3	02/14/06		62.20	71.20	9.00	3706.28
MW-3	02/16/06		62.23	71.20	8.97	3706.25
MW-3	02/21/06		62.23	71.21	8.98	3706.25
MW-3	02/24/06		62.26	71.21	8.95	3706.22
MW-3	02/28/06		62.21	71.50	9.29	3706.22
MW-3	03/03/06		62.25	71.25	9.00	3706.23
MW-3	03/06/06		62.22	71.20	8.98	3706.26
MW-3	03/08/06		62.24	71.20	8.96	3706.24
MW-3	03/15/06		62.28	71.23	8.95	3706.20
MW-3	03/17/06		62.33	71.25	8.92	3706.16
MW-3	03/21/06		62.30	71.27	8.97	3706.18
MW-3	03/23/06		62.18	71.00	8.82	3706.32
MW-3	03/28/06		62.30	71.25	8.95	3706.18
MW-3	03/30/06		62.32	71.21	8.89	3706.17
MW-3	04/04/06		62.34	71.27	8.93	3706.15
MW-3	04/07/06		62.35	71.28	8.93	3706.14
MW-3	04/12/06		62.35	71.29	8.94	3706.13
MW-3	04/14/06		62.38	71.28	8.90	3706.11
MW-3	04/18/06		62.23	71.27	9.04	3706.24
MW-3	04/21/06		62.40	71.31	8.91	3706.09
MW-3	04/26/06		62.34	71.28	8.94	3706.14
MW-3	04/28/06		62.38	71.26	8.88	3706.11

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-3	05/04/06		62.38	71.30	8.92	3706.11
MW-3	05/05/06		62.42	71.31	8.89	3706.07
MW-3	05/10/06		62.45	71.35	8.90	3706.04
MW-3	05/12/06		62.44	71.31	8.87	3706.06
MW-3	05/16/06		62.46	71.35	8.89	3706.03
MW-3	05/18/06		62.45	71.33	8.88	3706.04
MW-3	05/23/06		62.45	71.38	8.93	3706.04
MW-3	05/26/06		62.49	71.36	8.87	3706.01
MW-3	05/30/06		62.48	71.37	8.89	3706.01
MW-3	06/01/06		62.49	71.35	8.86	3706.01
MW-3	06/06/06		62.50	71.37	8.87	3706.00
MW-3	06/09/06		62.48	71.38	8.90	3706.01
MW-3	06/13/06		62.50	71.40	8.90	3705.99
MW-3	06/16/06		62.57	71.43	8.86	3705.93
MW-3	06/20/06		62.51	71.39	8.88	3705.98
MW-3	06/23/06		62.19	70.78	8.59	3706.35
MW-3	06/27/06		62.54	71.40	8.86	3705.96
MW-3	06/30/06		62.54	71.40	8.86	3705.96
MW-3	07/05/06		62.53	71.41	8.88	3705.96
MW-3	07/07/06		62.58	71.43	8.85	3705.92
MW-3	07/11/06		62.57	71.42	8.85	3705.93
MW-3	07/13/06		62.59	71.43	8.84	3705.91
MW-3	07/18/06		62.60	71.45	8.85	3705.90
MW-3	07/21/06		62.60	71.43	8.83	3705.90
MW-3	07/25/06		62.60	71.45	8.85	3705.90
MW-3	07/27/06		62.61	71.44	8.83	3705.89
MW-3	08/01/06		62.74	71.48	8.74	3705.78
MW-3	08/03/06		62.66	71.47	8.81	3705.85
MW-3	08/09/06		62.67	71.50	8.83	3705.83
MW-3	08/11/06		62.66	71.47	8.81	3705.85
MW-3	08/15/06		62.70	71.55	8.85	3705.80
MW-3	08/18/06		62.70	71.52	8.82	3705.80
MW-3	08/25/06		62.73	71.58	8.85	3705.77
MW-3	08/30/06		62.44	71.60	9.16	3706.01
MW-3	09/15/06		62.70	71.65	8.95	3705.78
MW-3	09/20/06		62.72	71.63	8.91	3705.77
MW-3	09/26/06		62.75	71.65	8.90	3705.74
MW-3	09/29/06		62.77	71.68	8.91	3705.72
MW-3	10/04/06		62.71	71.72	9.01	3705.76
MW-3	10/06/06		62.81	71.68	8.87	3705.69

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-3	10/12/06		62.82	71.71	8.89	3705.67
MW-3	10/17/06		62.82	71.73	8.91	3705.67
MW-3	10/20/06		62.82	71.73	8.91	3705.67
MW-3	10/24/06		62.80	71.71	8.91	3705.69
MW-3	10/26/06		62.80	71.74	8.94	3705.68
MW-3	11/22/06		62.95	71.83	8.88	3705.54
MW-3	11/28/06		62.95	71.80	8.85	3705.55
MW-3	12/06/06		63.05	71.90	8.85	3705.45
MW-3	12/08/06		62.82	71.00	8.18	3705.79
MW-3	12/12/06		63.02	71.80	8.78	3705.49
MW-3	12/15/06		62.80	71.74	8.94	3705.68
MW-3	12/20/06		NM	NM		
MW-3	12/22/06		63.06	71.90	8.84	3705.44
MW-3	12/27/06		63.02	71.92	8.90	3705.47
MW-3	01/03/07		63.12	71.98	8.86	3705.38
MW-3	01/05/07		63.09	71.04	7.95	3705.56
MW-3	01/12/07		63.16	72.02	8.86	3705.34
MW-3	01/15/07		63.18	71.80	8.62	3705.36
MW-3	01/18/07		63.18	72.04	8.86	3705.32
MW-3	01/31/07		63.19	72.04	8.85	3705.31
MW-3	02/07/07		63.10	71.45	8.35	3705.48
MW-3	02/09/07		63.21	72.07	8.86	3705.29
MW-3	02/13/07		63.22	72.07	8.85	3705.28
MW-3	02/16/07		62.23	72.07	9.84	3706.11
MW-3	02/19/07		63.22	72.08	8.86	3705.28
MW-3	02/21/07		63.22	72.11	8.89	3705.27
MW-3	02/26/07		65.23	72.11	6.88	3703.59
MW-3	03/01/07		63.27	72.08	8.81	3705.24
MW-3	03/06/07		63.23	72.24	9.01	3705.24
MW-3	03/09/07		63.25	72.09	8.84	3705.25
MW-3	03/23/07		63.30	72.12	8.82	3705.20
MW-3	03/27/07	3767.24	63.31	72.31	9.00	3702.45
MW-3	04/06/07		63.35	72.18	8.83	3702.43
MW-3	04/11/07		66.13	73.17	7.04	3699.95
MW-3	04/17/07		63.35	72.18	8.83	3702.43
MW-3	04/19/07		63.38	72.18	8.80	3702.41
MW-3	04/24/07		63.36	72.19	8.83	3702.42
MW-3	05/01/07		63.41	72.21	8.80	3702.38
MW-3	05/21/07		63.43	72.25	8.82	3702.35
MW-3	05/24/07		63.48	72.26	8.78	3702.31

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-3	06/28/07		63.58	72.40	8.82	3702.20
MW-3	08/07/07		63.52	72.36	8.84	3702.26
MW-3	08/17/07		63.61	72.38	8.77	3702.18
MW-3	08/23/07		63.58	72.34	8.76	3702.21
MW-3	08/31/07		63.92	72.36	8.44	3701.93
MW-3	09/21/07		63.71	72.44	8.73	3702.09
MW-3	09/28/07		63.69	72.43	8.74	3702.11
MW-3	10/11/07		63.43	72.48	9.05	3702.32
MW-3	10/18/07		63.77	72.48	8.71	3702.03
MW-3	11/13/07		63.83	72.56	8.73	3701.97
MW-3	11/27/07		63.87	72.61	8.74	3701.93
MW-3	12/13/07		63.98	72.70	8.72	3701.82
MW-3	12/17/07		64.00	72.72	8.72	3701.80
MW-3	12/31/07		64.05	72.73	8.68	3701.76
MW-3	01/16/08		64.08	72.77	8.69	3701.73
MW-3	03/05/08		64.25	72.93	8.68	3701.56
MW-3	03/26/08		64.30	72.96	8.66	3701.51
MW-3	04/02/08		64.34	73.03	8.69	3701.47
MW-3	04/04/08		64.36	73.05	8.69	3701.45
MW-3	04/24/08		64.40	73.01	8.61	3701.42
MW-3	05/06/08		64.45	73.04	8.59	3701.37
MW-3	05/27/08		64.63	73.29	8.66	3701.18
MW-3	06/04/08		64.75	73.32	8.57	3701.08
MW-3	06/24/08		64.79	73.45	8.66	3701.02
MW-3	07/02/08		64.87	73.52	8.65	3700.94
MW-3	07/15/08		64.47	73.61	9.14	3701.26
MW-3	07/22/08		65.04	73.66	8.62	3700.78
MW-3	07/31/08		65.12	73.75	8.63	3700.70
MW-3	08/07/08		65.23	73.83	8.60	3700.59
MW-3	08/29/08		64.61	73.22	8.61	3701.21
MW-3	09/16/08		64.71	72.97	8.26	3701.17
MW-3	12/16/08		64.90	73.13	8.23	3700.98
MW-3	01/29/09		65.07	73.04	7.97	3700.85
MW-3	02/04/09		65.04	73.47	8.43	3700.81
MW-3	05/26/09		65.32	73.75	8.43	3700.53
MW-3	08/12/09		65.73	73.31	7.58	3700.26
MW-3	11/19/09		66.55	72.65	6.10	3699.68
MW-4	10/29/04	3772.74	59.80	71.07	11.27	3711.08

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-4	11/04/04		63.06	72.51	9.45	3708.12
MW-4	11/10/04		63.12	72.78	9.66	3708.03
MW-4	11/17/04		63.21	73.09	9.88	3707.90
MW-4	11/24/04		63.30	73.31	10.01	3707.79
MW-4	12/02/04		63.31	73.30	9.99	3707.78
MW-4	12/08/04		63.27	73.29	10.02	3707.82
MW-4	12/15/04		63.39	73.52	10.13	3707.68
MW-4	12/27/04		63.53	73.71	10.18	3707.53
MW-4	12/29/04		63.54	73.61	10.07	3707.54
MW-4	01/06/05		63.57	73.70	10.13	3707.50
MW-4	01/13/05		63.71	73.79	10.08	3707.37
MW-4	01/19/05		63.72	73.76	10.04	3707.36
MW-4	01/26/05		61.89	69.41	7.52	3709.61
MW-4	02/02/05		63.82	73.76	9.94	3707.28
MW-4	02/09/05		63.86	73.77	9.91	3707.24
MW-4	02/16/05		63.86	73.73	9.87	3707.25
MW-4	02/24/05		63.93	73.76	9.83	3707.19
MW-4	03/03/05		63.92	73.74	9.82	3707.20
MW-4	03/11/05		63.79	73.26	9.47	3707.39
MW-4	03/18/05		63.97	73.74	9.77	3707.16
MW-4	04/01/05		64.02	73.76	9.74	3707.11
MW-4	04/07/05		64.05	73.73	9.68	3707.09
MW-4	05/18/05		64.11	73.76	9.65	3707.04
MW-4	05/23/05		64.18	73.76	9.58	3706.98
MW-4	05/26/05		64.20	73.73	9.53	3706.97
MW-4	06/01/05		64.20	73.70	9.50	3706.97
MW-4	06/03/05		64.20	73.64	9.44	3706.98
MW-4	06/07/05		64.22	73.43	9.21	3707.00
MW-4	06/10/05		64.23	73.69	9.46	3706.95
MW-4	06/13/05		64.21	73.75	9.54	3706.96
MW-4	06/16/05		64.24	73.66	9.42	3706.95
MW-4	06/20/05		64.26	73.72	9.46	3706.92
MW-4	06/22/05		64.28	73.64	9.36	3706.92
MW-4	06/29/05		64.27	73.74	9.47	3706.91
MW-4	07/01/05		64.29	73.62	9.33	3706.91
MW-4	07/06/05		64.30	73.74	9.44	3706.88
MW-4	07/08/05		64.33	73.63	9.30	3706.88
MW-4	07/12/05		64.34	73.72	9.38	3706.85
MW-4	07/14/05		64.34	73.66	9.32	3706.86
MW-4	07/19/05		64.34	73.80	9.46	3706.84

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-4	07/21/05		64.38	73.73	9.35	3706.82
MW-4	07/26/05		62.39	70.02	7.63	3709.09
MW-4	07/28/05		64.41	73.69	9.28	3706.80
MW-4	08/02/05		64.40	73.74	9.34	3706.80
MW-4	08/04/05		64.43	73.64	9.21	3706.79
MW-4	08/09/05		64.42	73.75	9.33	3706.78
MW-4	08/11/05		64.45	73.64	9.19	3706.77
MW-4	08/16/05		64.44	73.75	9.31	3706.76
MW-4	08/18/05		64.47	73.62	9.15	3706.76
MW-4	08/24/05		64.47	73.74	9.27	3706.74
MW-4	08/26/05		64.48	73.65	9.17	3706.75
MW-4	08/30/05		64.46	73.67	9.21	3706.76
MW-4	09/01/05		64.51	73.52	9.01	3706.74
MW-4	09/06/05		64.43	73.64	9.21	3706.79
MW-4	09/08/05		64.51	73.53	9.02	3706.74
MW-4	09/13/05		64.49	73.68	9.19	3706.73
MW-4	09/16/05		64.54	73.66	9.12	3706.70
MW-4	09/20/05		64.50	73.65	9.15	3706.73
MW-4	09/23/05		64.56	73.72	9.16	3706.67
MW-4	09/27/05		64.55	74.73	10.18	3706.51
MW-4	09/29/05		64.56	73.63	9.07	3706.68
MW-4	10/04/05		64.56	73.74	9.18	3706.67
MW-4	10/06/05		64.64	73.65	9.01	3706.61
MW-4	10/11/05		64.57	73.76	9.19	3706.65
MW-4	10/13/05		64.58	73.64	9.06	3706.67
MW-4	10/18/05		64.61	73.78	9.17	3706.62
MW-4	10/21/05		64.63	73.44	8.81	3706.66
MW-4	10/26/05		64.62	73.77	9.15	3706.61
MW-4	10/28/05		64.62	73.67	9.05	3706.63
MW-4	11/01/05		64.63	73.78	9.15	3706.60
MW-4	11/04/05		64.64	73.75	9.11	3706.60
MW-4	11/09/05		64.70	73.85	9.15	3706.53
MW-4	11/11/05		64.72	73.83	9.11	3706.52
MW-4	11/16/05		64.68	73.81	9.13	3706.55
MW-4	11/18/05		64.73	73.71	8.98	3706.53
MW-4	11/22/05		64.71	73.82	9.11	3706.53
MW-4	11/30/05		64.71	73.85	9.14	3706.52
MW-4	12/02/05		64.76	73.76	9.00	3706.50
MW-4	12/06/05		64.75	73.87	9.12	3706.49
MW-4	12/14/05		64.77	73.88	9.11	3706.47

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-4	12/16/05		64.80	73.86	9.06	3706.45
MW-4	12/21/05		64.80	73.89	9.09	3706.44
MW-4	12/23/05		64.83	73.72	8.89	3706.44
MW-4	12/27/05		64.82	73.88	9.06	3706.43
MW-4	12/30/05		64.86	73.88	9.02	3706.39
MW-4	01/03/06		64.82	73.83	9.01	3706.43
MW-4	01/05/06		64.85	73.80	8.95	3706.41
MW-4	01/11/06		64.84	73.92	9.08	3706.40
MW-4	01/13/06		64.91	73.81	8.90	3706.36
MW-4	01/18/06		64.86	73.92	9.06	3706.39
MW-4	01/20/06		64.95	73.80	8.85	3706.33
MW-4	01/24/06		64.94	73.98	9.04	3706.31
MW-4	01/26/06		64.90	73.93	9.03	3706.35
MW-4	02/02/06		64.87	73.90	9.03	3706.38
MW-4	02/08/06		64.90	73.98	9.08	3706.34
MW-4	02/10/06		64.87	73.97	9.10	3706.37
MW-4	02/14/06		64.93	74.00	9.07	3706.31
MW-4	02/16/06		65.00	73.90	8.90	3706.27
MW-4	02/21/06		65.00	74.10	9.10	3706.24
MW-4	02/24/06		65.00	74.00	9.00	3706.26
MW-4	02/28/06		64.96	73.98	9.02	3706.29
MW-4	03/03/06		64.80	74.04	9.24	3706.42
MW-4	03/06/06		64.95	74.00	9.05	3706.30
MW-4	03/08/06		65.02	73.93	8.91	3706.25
MW-4	03/15/06		65.02	74.05	9.03	3706.23
MW-4	03/17/06		65.07	73.95	8.88	3706.20
MW-4	03/21/06		65.02	74.00	8.98	3706.24
MW-4	03/23/06		64.96	73.81	8.85	3706.32
MW-4	03/28/06		65.05	74.04	8.99	3706.21
MW-4	03/30/06		65.08	73.95	8.87	3706.20
MW-4	04/04/06		65.05	74.05	9.00	3706.21
MW-4	04/07/06		65.10	74.05	8.95	3706.16
MW-4	04/12/06		65.09	74.07	8.98	3706.17
MW-4	04/14/06		65.11	74.00	8.89	3706.16
MW-4	04/18/06		65.10	74.03	8.93	3706.17
MW-4	04/21/06		65.15	74.05	8.90	3706.12
MW-4	04/26/06		65.07	74.03	8.96	3706.19
MW-4	04/28/06		65.14	73.95	8.81	3706.15
MW-4	05/04/06		65.14	74.05	8.91	3706.13
MW-4	05/05/06		65.17	74.08	8.91	3706.10

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-4	05/10/06		65.22	74.13	8.91	3706.05
MW-4	05/12/06		65.17	74.10	8.93	3706.10
MW-4	05/16/06		65.20	74.13	8.93	3706.07
MW-4	05/18/06		65.20	74.03	8.83	3706.08
MW-4	05/23/06		65.20	74.13	8.93	3706.07
MW-4	05/26/06		65.20	74.07	8.87	3706.08
MW-4	05/30/06		65.32	74.14	8.82	3705.96
MW-4	06/01/06		65.23	74.05	8.82	3706.05
MW-4	06/06/06		65.25	74.10	8.85	3706.03
MW-4	06/09/06		65.21	74.13	8.92	3706.06
MW-4	06/13/06		65.23	74.15	8.92	3706.04
MW-4	06/16/06		65.25	74.15	8.90	3706.02
MW-4	06/20/06		65.24	74.16	8.92	3706.03
MW-4	06/23/06		65.23	74.18	8.95	3706.03
MW-4	06/27/06		65.29	74.20	8.91	3705.98
MW-4	06/30/06		65.28	74.17	8.89	3705.99
MW-4	07/05/06		65.27	74.18	8.91	3706.00
MW-4	07/07/06		65.33	74.16	8.83	3705.95
MW-4	07/11/06		65.31	74.21	8.90	3705.96
MW-4	07/13/06		65.34	74.11	8.77	3705.95
MW-4	07/18/06		65.35	74.21	8.86	3705.93
MW-4	07/21/06		65.34	74.20	8.86	3705.94
MW-4	07/25/06		65.36	74.25	8.89	3705.91
MW-4	07/27/06		65.33	74.14	8.81	3705.96
MW-4	08/01/06		65.38	74.25	8.87	3705.90
MW-4	08/03/06		65.66	74.17	8.51	3705.68
MW-4	08/09/06		65.40	74.27	8.87	3705.88
MW-4	08/11/06		65.74	74.15	8.41	3705.61
MW-4	08/15/06		65.45	74.32	8.87	3705.83
MW-4	08/18/06		65.45	74.28	8.83	3705.83
MW-4	08/25/06		65.46	74.35	8.89	3705.81
MW-4	08/30/06		65.48	74.37	8.89	3705.79
MW-4	09/12/06		NM	NM		
MW-4	09/15/06		65.48	74.40	8.92	3705.79
MW-4	09/20/06		65.48	74.38	8.90	3705.79
MW-4	09/26/06		65.51	74.40	8.89	3705.76
MW-4	09/29/06		65.52	74.39	8.87	3705.76
MW-4	10/04/06		65.54	74.46	8.92	3705.73
MW-4	10/06/06		65.57	74.37	8.80	3705.72
MW-4	10/12/06		65.57	74.48	8.91	3705.70

TALON LPE

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-4	10/17/06		65.59	74.50	8.91	3705.68
MW-4	10/20/06		65.59	74.46	8.87	3705.69
MW-4	10/24/06		65.55	74.50	8.95	3705.71
MW-4	10/26/06		65.59	74.48	8.89	3705.68
MW-4	11/22/06		65.65	74.66	9.01	3705.60
MW-4	11/28/06		65.66	74.66	9.00	3705.60
MW-4	12/06/06		65.78	74.78	9.00	3705.48
MW-4	12/08/06		65.57	74.48	8.91	3705.70
MW-4	12/12/06		65.72	74.72	9.00	3705.54
MW-4	12/15/06		65.55	74.48	8.93	3705.72
MW-4	12/20/06		NM	NM		
MW-4	12/22/06		65.78	74.82	9.04	3705.47
MW-4	12/27/06		65.8	74.82	9.02	3705.45
MW-4	01/03/07		65.85	74.89	9.04	3705.40
MW-4	01/05/07		65.85	74.84	8.99	3705.41
MW-4	01/12/07		65.88	74.88	9.00	3705.38
MW-4	01/15/07		65.92	74.88	8.96	3705.34
MW-4	01/18/07		65.90	74.92	9.02	3705.35
MW-4	01/31/07		65.90	74.98	9.08	3705.34
MW-4	02/07/07		65.81	74.84	9.03	3705.44
MW-4	02/09/07		66.03	74.84	8.81	3705.26
MW-4	02/13/07		65.98	74.93	8.95	3705.28
MW-4	02/16/07		65.97	74.87	8.90	3705.30
MW-4	02/19/07		65.97	74.84	8.87	3705.31
MW-4	02/21/07		66.02	74.44	8.42	3705.33
MW-4	02/26/07		66.28	75.19	8.91	3704.99
MW-4	03/13/07		63.27	72.09	8.82	3708.01
	03/14/07		Plugged Well			
MW-4A	11/08/07	Installed Well				
MW-4A	11/13/07	3770.64	68.70	68.94	0.24	3701.90
MW-4A	11/27/07		68.61	69.88	1.27	3701.82
MW-4A	12/13/07		68.38	80.20	11.82	3700.31
MW-4A	12/17/07		68.62	70.38	1.76	3701.73
MW-4A	12/31/07		68.16	72.71	4.55	3701.73
MW-4A	01/16/08		68.23	72.63	4.40	3701.68
MW-4A	03/05/08		67.58	76.52	8.94	3701.58
MW-4A	03/26/08		67.64	76.58	8.94	3701.52
MW-4A	04/02/08		67.72	76.63	8.91	3701.45
MW-4A	04/04/08		67.70	76.64	8.94	3701.46
MW-4A	04/24/08		67.76	76.66	8.90	3701.41

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-4A	05/06/08		67.84	76.72	8.88	3701.33
MW-4A	05/27/08		67.94	76.84	8.90	3701.23
MW-4A	06/24/08		68.11	76.99	8.88	3701.06
MW-4A	07/02/08		68.19	77.08	8.89	3700.98
MW-4A	07/15/08		68.67	75.45	6.78	3700.85
MW-4A	07/22/08		69.28	72.85	3.57	3700.77
MW-4A	07/31/08		69.45	72.68	3.23	3700.66
MW-4A	08/07/08		69.54	72.42	2.88	3700.62
MW-4A	08/29/08		64.78	74.41	9.63	3704.27
MW-4A	09/16/08		68.12	76.21	8.09	3701.19
MW-4A	12/16/08		68.32	76.38	8.06	3700.99
MW-4A	01/29/09		68.48	76.48	8.00	3700.84
MW-4A	02/04/09		68.51	76.51	8.00	3700.81
MW-4A	05/26/09		68.74	77.02	8.28	3700.53
MW-4A	08/12/09		69.59	74.62	5.03	3700.22
MW-4A	08/17/09		69.45	75.35	5.90	3700.22
MW-4A	11/19/09		70.29	74.54	4.25	3699.65
MW-5	11/06/07	Installed Well				
MW-5	11/13/07	3768.85	66.26	67.62	1.36	3702.37
MW-5	11/27/07		65.36	70.91	5.55	3702.57
MW-5	12/13/07		65.26	72.21	6.95	3702.44
MW-5	12/17/07		65.20	72.17	6.97	3702.50
MW-5	12/31/07		65.21	72.29	7.08	3702.47
MW-5	01/16/08		65.28	72.37	7.09	3702.40
MW-5	03/05/08		65.41	72.50	7.09	3702.27
MW-5	03/26/08		65.48	72.52	7.04	3702.21
MW-5	04/02/08		65.55	72.61	7.06	3702.14
MW-5	04/04/08		65.56	72.63	7.07	3702.12
MW-5	04/24/08		65.61	72.64	7.03	3702.08
MW-5	05/06/08		65.67	72.69	7.02	3702.02
MW-5	05/27/08		65.81	72.86	7.05	3701.88
MW-5	06/04/08		65.82	72.88	7.06	3701.87
MW-5	06/24/08		65.99	73.02	7.03	3701.70
MW-5	07/02/08		66.04	73.08	7.04	3701.65
MW-5	07/15/08		66.14	73.18	7.04	3701.55
MW-5	07/22/08		66.21	73.18	6.97	3701.49
MW-5	07/31/08		66.30	73.27	6.97	3701.40
MW-5	08/07/08		66.39	73.34	6.95	3701.31
MW-5	08/29/08		65.79	72.74	6.95	3701.91

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-5	10/07/08		66.26	70.89	4.63	3701.83
MW-5	12/16/08		66.18	72.42	6.24	3701.64
MW-5	01/29/09		66.26	72.67	6.41	3701.53
MW-5	02/04/09		66.38	72.28	5.90	3701.50
MW-5	05/26/09		66.53	73.24	6.71	3701.21
MW-5	08/12/09		66.92	73.05	6.13	3700.92
MW-5	11/19/09		67.35	73.74	6.39	3700.45
MW-6	11/06/07	Installed Well				
MW-6	11/13/07	3769.50	66.27	75.46	9.19	3701.71
MW-6	11/27/07		66.08	75.29	9.21	3701.90
MW-6	12/13/07		66.10	75.36	9.26	3701.87
MW-6	12/17/07		66.16	75.39	9.23	3701.82
MW-6	12/31/07		66.19	75.42	9.23	3701.79
MW-6	01/16/08		66.26	75.48	9.22	3701.72
MW-6	03/05/08		66.40	75.61	9.21	3701.58
MW-6	03/26/08		66.47	75.65	9.18	3701.52
MW-6	04/02/08		66.52	75.71	9.19	3701.46
MW-6	04/04/08		66.51	75.72	9.21	3701.47
MW-6	04/24/08		66.59	75.75	9.16	3701.40
MW-6	05/06/08		66.65	75.83	9.18	3701.34
MW-6	05/27/08		66.76	75.95	9.19	3701.22
MW-6	06/04/08		66.85	76.03	9.18	3701.14
MW-6	06/24/08		66.93	76.11	9.18	3701.06
MW-6	07/02/08		67.02	76.09	9.07	3700.98
MW-6	07/15/08		67.11	76.26	9.15	3700.88
MW-6	07/22/08		67.16	76.30	9.14	3700.83
MW-6	07/31/08		67.28	76.41	9.13	3700.71
MW-6	08/07/08		67.35	76.48	9.13	3700.64
MW-6	08/29/08		66.77	75.88	9.11	3701.23
MW-6	09/16/08		66.83	75.97	9.14	3701.16
MW-6	12/16/08		67.08	75.77	8.69	3700.99
MW-6	01/29/09		67.27	75.61	8.34	3700.85
MW-6	02/04/09		67.30	75.93	8.63	3700.78
MW-6	05/26/09		67.47	76.46	8.99	3700.55
MW-6	08/12/09		67.82	76.34	8.52	3700.27
MW-6	11/19/09		68.73	75.31	6.58	3699.68
MW-7	11/06/07	Installed Well				
MW-7	11/13/07	3770.20	68.16	70.54	2.38	3701.65

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-7	11/27/07		67.51	73.93	6.42	3701.63
MW-7	12/13/07		67.30	75.02	7.72	3701.63
MW-7	12/17/07		67.68	73.56	5.88	3701.55
MW-7	12/31/07		67.37	75.08	7.71	3701.56
MW-7	01/16/08		67.74	75.61	7.87	3701.16
MW-7	03/05/08		67.56	75.39	7.83	3701.35
MW-7	03/26/08		67.79	74.66	6.87	3701.28
MW-7	04/02/08		67.69	75.30	7.61	3701.25
MW-7	04/04/08		67.70	75.31	7.61	3701.24
MW-7	04/24/08		67.77	75.36	7.59	3701.18
MW-7	05/06/08		67.84	75.43	7.59	3701.11
MW-7	05/27/08		67.94	75.69	7.75	3700.98
MW-7	06/04/08		68.00	75.78	7.78	3700.92
MW-7	06/24/08		68.04	75.66	7.62	3700.90
MW-7	07/02/08		68.19	75.88	7.69	3700.74
MW-7	07/15/08		68.47	75.11	6.64	3700.63
MW-7	07/22/08		69.13	72.37	3.24	3700.54
MW-7	07/31/08		68.88	74.13	5.25	3700.45
MW-7	08/07/08		69.25	72.76	3.51	3700.37
MW-7	08/29/08		68.04	75.22	7.18	3700.98
MW-7	09/16/08		68.09	75.37	7.28	3700.91
MW-7	12/16/08		69.38	70.35	0.97	3700.66
MW-7	01/29/09		68.85	73.51	4.66	3700.58
MW-7	02/04/09		69.70	69.93	0.23	3700.46
MW-7	05/26/09		68.68	76.03	7.35	3700.31
MW-7	08/12/09		70.20	70.59	0.39	3699.94
MW-7	08/17/09		70.20	70.82	0.62	3699.90
MW-7	11/19/09		70.79	71.96	1.17	3699.22
MW-8	11/06/07	Installed Well				
MW-8	11/13/07	3768.09	65.52	73.36	7.84	3701.28
MW-8	11/27/07		67.01	72.16	5.15	3700.23
MW-8	12/13/07		63.26	73.17	9.91	3703.19
MW-8	12/17/07		65.29	73.18	7.89	3701.50
MW-8	12/31/07		65.36	73.24	7.88	3701.43
MW-8	01/16/08		65.38	73.27	7.89	3701.41
MW-8	03/05/08		65.53	73.45	7.92	3701.25
MW-8	03/26/08		65.61	73.47	7.86	3701.18
MW-8	04/02/08		65.65	73.54	7.89	3701.14
MW-8	04/04/08		65.67	73.54	7.87	3701.12

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-8	04/24/08		65.71	73.62	7.91	3701.07
MW-8	05/06/08		65.79	73.7	7.91	3700.99
MW-8	05/27/08		65.90	73.83	7.93	3700.88
MW-8	06/04/08		65.94	73.87	7.93	3700.84
MW-8	06/24/08		66.06	73.98	7.92	3700.72
MW-8	07/02/08		66.15	74.09	7.94	3700.63
MW-8	07/15/08		66.24	74.16	7.92	3700.54
MW-8	07/22/08		66.29	74.19	7.90	3700.50
MW-8	07/31/08		66.41	74.31	7.90	3700.38
MW-8	08/07/08		66.48	74.37	7.89	3700.31
MW-8	08/29/08		65.90	73.80	7.90	3700.89
MW-8	09/16/08		66.04	74.68	8.64	3700.62
MW-8	12/16/08		66.15	73.92	7.77	3700.66
MW-8	01/29/09		66.29	73.91	7.62	3700.54
MW-8	02/04/09		66.30	74.13	7.83	3700.50
MW-8	05/26/09		66.58	74.51	7.93	3700.20
MW-8	08/12/09		66.90	74.23	7.33	3699.98
MW-8	11/19/09		67.50	74.52	7.02	3699.43
MW-9	11/07/07	Installed Well				
MW-9	11/13/07	3767.64	64.07	72.74	8.67	3702.14
MW-9	11/27/07		65.72	72.38	6.66	3700.82
MW-9	12/13/07		64.17	73.11	8.94	3701.99
MW-9	12/17/07		64.21	73.06	8.85	3701.97
MW-9	12/31/07		64.23	73.06	8.83	3701.95
MW-9	01/16/08		64.28	73.16	8.88	3701.89
MW-9	03/05/08		64.44	73.30	8.86	3701.74
MW-9	03/26/08		64.49	73.31	8.82	3701.69
MW-9	04/02/08		64.54	73.39	8.85	3701.64
MW-9	04/04/08		64.56	73.40	8.84	3701.62
MW-9	04/24/08		64.59	73.44	8.85	3701.59
MW-9	05/06/08		64.66	73.51	8.85	3701.52
MW-9	05/27/08		64.80	73.63	8.83	3701.38
MW-9	06/04/08		64.82	73.68	8.86	3701.36
MW-9	06/24/08		64.97	73.81	8.84	3701.21
MW-9	07/02/08		65.05	73.89	8.84	3701.13
MW-9	07/15/08		65.14	73.98	8.84	3701.04
MW-9	07/22/08		65.21	74.03	8.82	3700.97
MW-9	07/31/08		65.32	74.12	8.80	3700.87
MW-9	08/07/08		65.41	74.21	8.80	3700.78

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-9	08/29/08		64.78	73.59	8.81	3701.41
MW-9	09/16/08		64.80	73.64	8.84	3701.38
MW-9	12/16/08		65.06	73.48	8.42	3701.19
MW-9	01/29/09		65.21	73.65	8.44	3701.04
MW-9	02/04/09		65.25	73.66	8.41	3701.00
MW-9	05/26/09		65.46	74.18	8.72	3700.74
MW-9	08/12/09		65.89	73.89	8.00	3700.43
MW-9	11/19/09		66.46	74.14	7.68	3699.91
MW-10	11/07/07	Installed Well				
MW-10	11/13/07	3767.51	64.94	66.57	1.63	3702.30
MW-10	11/27/07		64.05	71.04	6.99	3702.31
MW-10	12/13/07		63.92	72.03	8.11	3702.25
MW-10	12/17/07		63.96	72.02	8.06	3702.22
MW-10	12/31/07		63.94	72.09	8.15	3702.23
MW-10	01/16/08		64.03	72.17	8.14	3702.14
MW-10	03/05/08		64.19	72.32	8.13	3701.98
MW-10	03/26/08		64.24	72.35	8.11	3701.93
MW-10	04/02/08		64.29	72.42	8.13	3701.88
MW-10	04/04/08		64.30	72.41	8.11	3701.87
MW-10	04/24/08		64.33	72.47	8.14	3701.84
MW-10	05/06/08		64.41	72.55	8.14	3701.76
MW-10	05/27/08		64.57	72.69	8.12	3701.60
MW-10	06/04/08		64.58	72.73	8.15	3701.59
MW-10	06/24/08		64.73	72.85	8.12	3701.44
MW-10	07/02/08		64.81	72.92	8.11	3701.36
MW-10	07/15/08		64.90	73.02	8.12	3701.27
MW-10	07/22/08		64.97	73.08	8.11	3701.20
MW-10	07/31/08		65.07	73.15	8.08	3701.11
MW-10	08/07/08		65.17	73.22	8.05	3701.01
MW-10	08/29/08		64.53	72.67	8.14	3701.64
MW-10	09/16/08		64.57	72.74	8.17	3701.59
MW-10	12/16/08		65.06	71.39	6.33	3701.41
MW-10	01/29/09		65.00	72.51	7.51	3701.27
MW-10	02/04/09		65.16	72.00	6.84	3701.22
MW-10	05/26/09		65.26	73.03	7.77	3700.97
MW-10	08/12/09		65.64	72.86	7.22	3700.68
MW-10	11/19/09		66.31	72.59	6.28	3700.16
MW-11	11/07/07	Installed Well				

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-11	11/13/07	3769.37	66.58	68.13	1.55	3702.53
MW-11	11/27/07		65.36	72.38	7.02	3702.85
MW-11	12/13/07		65.39	72.82	7.43	3702.75
MW-11	12/17/07		64.46	72.84	8.38	3703.53
MW-11	12/31/07		65.77	72.90	7.13	3702.42
MW-11	01/16/08		65.86	72.99	7.13	3702.33
MW-11	03/05/08		65.98	73.10	7.12	3702.22
MW-11	03/26/08		66.04	73.17	7.13	3702.15
MW-11	04/02/08		66.10	73.24	7.14	3702.09
MW-11	04/04/08		66.10	73.25	7.15	3702.09
MW-11	04/24/08		66.14	73.26	7.12	3702.06
MW-11	05/06/08		66.22	73.33	7.11	3701.98
MW-11	05/27/08		66.37	73.37	7.00	3701.85
MW-11	06/24/08		66.54	73.64	7.10	3701.66
MW-11	07/02/08		66.61	73.69	7.08	3701.59
MW-11	07/15/08		66.72	73.77	7.05	3701.49
MW-11	07/22/08		66.77	73.80	7.03	3701.44
MW-11	07/31/08		66.86	73.89	7.03	3701.35
MW-11	08/07/08		66.97	73.98	7.01	3701.24
MW-11	08/29/08		66.35	73.29	6.94	3701.87
MW-11	09/16/08		66.40	73.28	6.88	3701.83
MW-11	12/16/08		66.67	73.35	6.68	3701.60
MW-11	01/29/09		66.85	73.24	6.39	3701.47
MW-11	02/04/09		67.07	72.40	5.33	3701.42
MW-11	05/26/09		67.16	73.90	6.74	3701.10
MW-11	08/12/09		67.50	73.55	6.05	3700.87
MW-11	11/19/09		68.52	71.42	2.90	3700.37
MW-12	11/07/07	Installed Well				
MW-12	11/13/07	3769.68	67.36	68.13	0.77	3702.19
MW-12	11/27/07		66.41	72.84	6.43	3702.21
MW-12	12/13/08		66.16	73.31	7.15	3702.34
MW-12	12/17/07		66.22	74.29	8.07	3702.13
MW-12	12/31/07		66.23	74.36	8.13	3702.11
MW-12	01/16/08		66.41	74.53	8.12	3701.93
MW-12	03/05/08		66.44	74.58	8.14	3701.90
MW-12	03/26/08		66.49	74.63	8.14	3701.85
MW-12	04/02/08		66.57	74.71	8.14	3701.77
MW-12	04/04/08		66.59	74.7	8.11	3701.75
MW-12	04/24/08		66.61	74.73	8.12	3701.73

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-12	05/06/08		66.68	74.8	8.12	3701.66
MW-12	05/27/08		66.82	74.92	8.10	3701.52
MW-12	06/24/08		67.00	75.09	8.09	3701.35
MW-12	07/02/08		67.07	75.17	8.10	3701.27
MW-12	07/15/08		67.17	75.23	8.06	3701.18
MW-12	07/22/08		67.22	75.24	8.02	3701.14
MW-12	07/31/08		67.33	75.33	8.00	3701.03
MW-12	08/07/08		67.42	75.4	7.98	3700.94
MW-12	08/29/08		66.82	74.78	7.96	3701.55
MW-12	09/16/08		66.88	73.40	6.52	3701.72
MW-12	12/16/08		67.12	74.78	7.66	3701.30
MW-12	01/29/09		67.31	74.75	7.44	3701.14
MW-12	02/04/09		67.27	75.05	7.78	3701.13
MW-12	05/26/09		67.54	75.38	7.84	3700.85
MW-12	08/12/09		67.93	75.09	7.16	3700.57
MW-12	11/19/09		68.85	73.79	4.94	3700.01
MW-13	11/08/07	Installed Well				
MW-13	11/13/07	3771.14		69.50		3701.64
MW-13	11/27/07			69.61		3701.53
MW-13	12/17/07			69.66		3701.48
MW-13	12/19/07			69.65		3701.49
MW-13	03/05/08		69.74	70.88		3700.26
MW-13	03/26/08		69.73	71.22	1.49	3701.16
MW-13	04/02/08		69.45	71.37	1.92	3701.37
MW-13	04/04/08		69.46	71.36	1.90	3701.37
MW-13	04/24/08		69.74	71.81	2.07	3701.06
MW-13	05/06/08		69.79	71.88	2.09	3701.01
MW-13	05/27/08		69.82	72.53	2.71	3700.87
MW-13	06/04/08		69.85	73.73	3.88	3700.65
MW-13	06/24/08		70.25	71.40	1.15	3700.70
MW-13	07/02/08		70.29	72.66	2.37	3700.46
MW-13	07/15/08		70.53	71.11	0.58	3700.51
MW-13	07/22/08		70.60	70.99	0.39	3700.48
MW-13	07/31/08		70.69	71.13	0.44	3700.38
MW-13	08/07/08		70.75	71.31	0.56	3700.30
MW-13	08/29/08		70.13	71.04	0.91	3700.86
MW-13	09/16/08		70.10	71.11	1.01	3700.87
MW-13	12/16/08		70.48	70.70	0.22	3700.62
MW-13	01/29/09		70.38	72.01	1.63	3700.49

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-13	02/04/09		70.68	70.80	0.12	3700.44
MW-13	05/26/09		70.72	72.06	1.34	3700.20
MW-13	08/12/09		71.18	71.38	0.20	3699.93
MW-13	08/17/09		71.23	71.50	0.27	3699.87
MW-13	11/19/10		71.73	71.86	0.13	3699.39
MW-14	11/08/07	Installed Well				
MW-14	11/13/07	3771.62		70.34		3701.28
MW-14	11/27/07			70.44		3701.18
MW-14	12/17/07			70.48		3701.14
MW-14	12/19/07			70.48		3701.14
MW-14	03/05/08			70.78		3700.84
MW-14	03/26/08			70.85		3700.77
MW-14	04/02/08			70.74		3700.88
MW-14	04/24/08			70.81		3700.81
MW-14	05/27/08			70.87		3700.75
MW-14	06/24/08			70.91		3700.71
MW-14	08/29/08			71.12		3700.50
MW-14	09/16/08			71.17		3700.45
MW-14	12/16/08			71.35		3700.27
MW-14	01/29/09			71.52		3700.10
MW-14	02/04/09			71.54		3700.08
MW-14	05/26/09			71.80		3699.82
MW-14	08/12/09			72.03		3699.59
MW-14	11/19/10			72.4		3699.22
MW-15	11/08/07	Installed Well				
MW-15	11/13/07	3771.49		69.94	0.00	3701.55
MW-15	11/27/07		69.70	70.07	0.37	3701.73
MW-15	12/13/07		68.08	69.74	1.66	3703.14
MW-15	12/17/07		69.67	70.59	0.92	3701.67
MW-15	12/31/08		69.68	71.07	1.39	3701.58
MW-15	01/16/08		69.82	71.42	1.60	3701.41
MW-15	03/05/08		68.97	75.52	6.55	3701.44
MW-15	03/26/08		68.85	76.27	7.42	3701.42
MW-15	04/02/08		68.88	76.37	7.49	3701.37
MW-15	04/04/08		68.89	76.36	7.47	3701.37
MW-15	04/24/08		68.92	76.56	7.64	3701.31
MW-15	05/06/08		68.98	76.63	7.65	3701.25
MW-15	05/27/08		69.09	76.82	7.73	3701.12

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-15	06/04/08		69.05	76.92	7.87	3701.14
MW-15	06/24/08		69.31	76.67	7.36	3700.97
MW-15	07/02/08		69.35	77.00	7.65	3700.88
MW-15	07/15/08		69.50	76.85	7.35	3700.78
MW-15	07/22/08		70.00	74.73	4.73	3700.71
MW-15	07/31/08		70.02	75.22	5.20	3700.61
MW-15	08/07/08		70.24	74.63	4.39	3700.53
MW-15	08/29/08		69.15	76.49	7.34	3701.13
MW-15	09/16/08		69.19	76.51	7.32	3701.09
MW-15	12/16/08		70.47	71.82	1.35	3700.80
MW-15	01/29/09		69.55	76.77	7.22	3700.75
MW-15	02/04/09		70.69	71.77	1.08	3700.62
MW-15	05/26/09		69.78	77.37	7.59	3700.46
MW-15	08/12/09		70.88	73.71	2.83	3700.14
MW-15	08/17/09		70.35	76.48	6.13	3700.13
MW-15	11/19/10		71.88	72.28	0.40	3699.54
MW-16	11/09/07	Installed Well				
MW-16	11/13/07	3769.23		68.22	0.00	3701.01
MW-16	11/27/07			68.23	0.00	3701.00
MW-16	12/17/07			68.32	0.00	3700.91
MW-16	12/19/07			68.31	0.00	3700.92
MW-16	03/05/08			68.63	0.00	3700.60
MW-16	03/26/08			66.58	0.00	3702.65
MW-16	04/02/08			68.59	0.00	3700.64
MW-16	04/24/08			68.64	0.00	3700.59
MW-16	05/27/08			68.71	0.00	3700.52
MW-16	06/24/08			68.85	0.00	3700.38
MW-16	08/29/08			68.96	0.00	3700.27
MW-16	09/16/08			69.02	0.00	3700.21
MW-16	12/16/08			69.17	0.00	3700.06
MW-16	01/29/09			69.35	0.00	3699.88
MW-16	02/04/09			69.36	0.00	3699.87
MW-16	05/26/09			69.63	0.00	3699.60
MW-16	08/12/09			69.88	0.00	3699.35
MW-16	11/19/09			70.22	0.00	3699.01
MW-17	11/13/07	Installed Well				
MW-17	11/14/07	3767.45		64.61	0.00	3702.84
MW-17	11/27/07			64.67	0.00	3702.78

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-17	12/17/07			64.41	0.00	3703.04
MW-17	12/20/07			64.40	0.00	3703.05
MW-17	03/05/08			65.02	0.00	3702.43
MW-17	03/26/08			64.97	0.00	3702.48
MW-17	04/02/08			64.99	0.00	3702.46
MW-17	04/24/08			65.04	0.00	3702.41
MW-17	05/27/08			70.87	0.00	3696.58
MW-17	06/10/08			65.18	0.00	3702.27
MW-17	06/24/08			65.19	0.00	3702.26
MW-17	08/29/08			65.46	0.00	3701.99
MW-17	09/16/08			65.41	0.00	3702.04
MW-17	12/16/08			65.59	0.00	3701.86
MW-17	01/29/09			65.75	0.00	3701.70
MW-17	02/04/09			65.77	0.00	3701.68
MW-17	05/26/09			66.06	0.00	3701.39
MW-17	08/12/09			66.30	0.00	3701.15
MW-17	11/19/09			66.59	0.00	3700.86
MW-18	11/13/07	**Installed Well**				
MW-18	11/14/07	3769.79		71.39	0.00	3698.40
MW-18	11/27/07			67.03	0.00	3702.76
MW-18	12/17/07			67.05	0.00	3702.74
MW-18	12/20/07			67.03	0.00	3702.76
MW-18	03/05/08			67.36	0.00	3702.43
MW-18	03/26/08			67.31	0.00	3702.48
MW-18	04/02/08			67.33	0.00	3702.46
MW-18	04/24/08			67.38	0.00	3702.41
MW-18	05/27/08			67.44	0.00	3702.35
MW-18	06/24/08			67.49	0.00	3702.30
MW-18	08/29/08			67.69	0.00	3702.10
MW-18	09/16/08			67.74	0.00	3702.05
MW-18	12/16/08			67.94	0.00	3701.85
MW-18	01/29/09			68.11	0.00	3701.68
MW-18	02/04/09			68.13	0.00	3701.66
MW-18	05/26/09			68.39	0.00	3701.40
MW-18	08/12/09			68.64	0.00	3701.15
MW-18	11/19/09			68.95	0.00	3700.84
MW-19	11/13/07	**Installed Well**				
MW-19	11/14/07	3773.35		71.49	0.00	3701.86

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*
MW-19	11/27/07			71.32	0.00	3702.03
MW-19	12/17/07			71.39	0.00	3701.96
MW-19	12/20/07			71.38	0.00	3701.97
MW-19	03/05/08			71.74	0.00	3701.61
MW-19	03/26/08			71.67	0.00	3701.68
MW-19	04/02/08			71.65	0.00	3701.70
MW-19	04/24/08			71.69	0.00	3701.66
MW-19	05/27/08			71.81	0.00	3701.54
MW-19	06/24/08			71.82	0.00	3701.53
MW-19	08/29/08			72.03	0.00	3701.32
MW-19	09/16/08			72.11	0.00	3701.24
MW-19	12/16/08			70.30	0.00	3703.05
MW-19	12/22/08			72.26	0.00	3701.09
MW-19	01/29/09			72.49	0.00	3700.86
MW-19	02/04/09			72.50	0.00	3700.85
MW-19	05/26/09			72.76	0.00	3700.59
MW-19	08/12/09			72.95	0.00	3700.40
MW-19	11/19/09			73.33	0.00	3700.02
MW-20	11/13/07	Installed Well				
MW-20	11/14/07	3773.11		67.03	0.00	3706.08
MW-20	11/27/07			71.64	0.00	3701.47
MW-20	12/17/07			71.67	0.00	3701.44
MW-20	12/20/07			71.66	0.00	3701.45
MW-20	03/05/08			72.01	0.00	3701.10
MW-20	03/26/08			71.93	0.00	3701.18
MW-20	04/02/08			74.93	0.00	3698.18
MW-20	04/24/08			71.99	0.00	3701.12
MW-20	05/27/08			72.08	0.00	3701.03
MW-20	06/24/08			72.09	0.00	3701.02
MW-20	08/29/08			72.30	0.00	3700.81
MW-20	09/16/08			72.38	0.00	3700.73
MW-20	12/16/08			72.57	0.00	3700.54
MW-20	01/29/09			72.75	0.00	3700.36
MW-20	02/04/09			72.76	0.00	3700.35
MW-20	05/26/09			73.02	0.00	3700.09
MW-20	08/12/09			73.22	0.00	3699.89
MW-20	11/19/09			73.59	0.00	3699.52

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

WELL ID	DATE GAUGED	Top of Casing Elevation (ft amsl)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	PSH Thickness (feet)	Corrected Potentiometric Surface(ft amsl)*

ft asml - feet above mean sea level

Corrected Potentiometric Surface = Top of casing elevation - [depth to water + (PSH thickness x specific gravity of PSH)]

Specific gravity of PSH = 0.835

NM - not measured

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10270
8" MOORE TO JAL #1
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.44.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl-benzene	Xylene
MW-1A	02/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	05/27/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	08/18/09	Not Sampled Due to Not Enough Water			
	11/19/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-2	02/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	05/27/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	08/18/09	14.5	12.1	1.80	4.34
	11/19/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-3	02/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	05/27/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	08/18/09	35.1	8.96	2.44	5.86
	11/19/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-4A	02/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	05/27/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	08/18/09	19.7	16.5	2.52	6.02
	11/19/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-5	02/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	05/27/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	08/18/09	20.3	20.4	4.26	10.3
	11/19/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-6	02/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	05/27/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	08/18/09	31.6	14.7	2.25	4.88
	11/19/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-7	02/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	05/27/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	08/18/09	35.7	18.8	4.03	10.6
	11/19/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10270
8" MOORE TO JAL #1
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.44.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl-benzene	Xylene
MW-8	02/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	05/27/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	08/18/09	**27.6**	**10.1**	**1.84**	**3.63**
	11/19/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-9	02/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	05/27/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	08/18/09	**29.5**	**15.0**	**2.61**	**5.52**
MW-10	02/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	05/27/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	08/18/09	**29.3**	**25.9**	**5.44**	**13.0**
	11/19/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-11	02/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	05/27/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	08/18/09	**5.52**	**5.37**	**1.04**	**2.64**
	11/19/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-12	02/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	05/27/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	08/18/09	**7.67**	**6.80**	**1.28**	**3.40**
	11/19/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-13	02/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	05/27/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	08/13/09	**5.22**	**6.39**	**1.24**	**2.44**
	11/19/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-14	02/04/09	**11.0**	<0.0500	<0.0500	**0.683**
	05/27/09	**8.14**	0.140	0.208	**0.715**
	08/13/09	**1.79**	<0.0200	0.0838	0.174
	11/19/09	**3.46**	**0.783**	0.088	0.213

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10270
8" MOORE TO JAL #1
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.44.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl-benzene	Xylene
MW-15	02/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	05/27/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
	08/13/09	Not Sampled Due to Not Enough Water			
	11/19/09	Not sampled Due to Presence of Phase Separated Hydrocarbons			
MW-16	02/04/09	**18.3**	**2.74**	0.521	**1.02**
	05/27/09	**26.9**	**4.35**	**1.17**	**2.52**
	08/13/09	**22.7**	**3.04**	**1.05**	**1.99**
	11/19/09	**26.5**	**1.28**	0.648	**0.771**
MW-17	02/04/09	0.00120	<0.00100	<0.00100	<0.00100
	05/27/09	<0.00100	<0.00100	<0.00100	<0.00100
	08/13/09	<0.00100	<0.00100	<0.00100	<0.00100
	11/19/09	0.0100	0.00330	<0.00100	<0.00100
MW-18	02/04/09	<0.00100	<0.00100	<0.00100	<0.00100
	05/27/09	<0.00100	<0.00100	<0.00100	<0.00100
	08/13/09	<0.00100	<0.00100	<0.00100	<0.00100
	11/19/09	**0.0123**	0.0037	0.00140	<0.00100
MW-19	02/04/09	<0.00100	<0.00100	<0.00100	<0.00100
	05/27/09	<0.00100	<0.00100	<0.00100	<0.00100
	08/13/09	<0.00100	<0.00100	<0.00100	<0.00100
	11/19/09	0.00570	0.00200	<0.00100	<0.00100
MW-20	02/04/09	<0.00100	<0.00100	<0.00100	<0.00100
	05/27/09	<0.00100	<0.00100	<0.00100	<0.00100
	08/13/09	<0.00100	<0.00100	<0.00100	<0.00100
	11/19/09	0.0049	0.0016	<0.00100	<0.00100
NMWQCC Remedial Limits		0.010	0.750	0.750	0.620

[1] ***Bolded*** *values are in excess of the NMWQCC Remediation Thresholds*
Monitor wells MW-2 through MW-13, and MW-15 were sampled at the request of the NMOCD even though they contain PSH.
BTEX analyzed by EPA Method 8021B

TABLE 3
SUMMARY OF GROUNDWATER POLY-AROMATIC HYDROCARBON (PAH) ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10270
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

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	Dibenzofuran	Fluoranthene	Fluorene	Indeno[1,2,3-cd]-pyrene	2-Methylnaphthalene	1-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
MW-14	08/13/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000773	0.000527	0.000895	<0.000184	<0.000184
MW-16	08/13/09	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	0.00110	<0.000186	<0.000186	<0.000186	0.0171	0.0183	0.0272	0.00110	<0.000186
MW-17	08/13/09	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186
MW-18	08/13/09	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.000246	<0.000185	<0.000185
MW-19	08/13/09	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	0.000205	<0.000188	<0.000188
MW-20	08/13/09	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	0.000362	<0.000186	<0.000186
NMWQCC Remedial Limits						0.007												0.030		

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

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS FROM MONITOR WELLS IMPACTED WITH PSH
BTEX, TPH, POLY-NUCLEAR AROMATIC HYDROCARBON (PAH)
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #1 - SRS# 2002-10720
NMOCD REF. # AP-91
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.044.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	TPH DRO	TPH GRO	Total TPH	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]-anthracene	Benzo[a]-pyrene	Benzo[b]-fluoranthene	Benzo[g,h,i]-perylene	Benzo[k]-fluoranthene	Chrysene	Dibenzo[a,h]-anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno[1,2,3-cd]-pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
MW-2	08/18/09	**14.5**	**12.1**	**1.80**	**4.34**	48.6	98.7	147.3	<0.00467	<0.00467	0.0603	<0.00467	<0.00467	<0.00467	<0.00467	<0.00467	<0.00467	<0.00467	0.392	<0.00467	0.568	<0.00467	5.56	6.70	**2.64**	0.775	<0.00467
MW-3	08/18/09	**35.1**	**8.96**	**2.44**	**5.86**	<5.00	132	132	<0.00184	<0.00184	0.00637	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	0.0589	<0.00184	0.0776	<0.00184	0.757	0.915	**0.400**	0.106	<0.00184
MW-4A	08/18/09	**19.7**	**16.5**	**2.52**	**6.02**	26.0	120	146.0	<0.00467	<0.00467	0.0604	<0.00467	<0.00467	<0.00467	<0.00467	<0.00467	0.106	<0.00467	0.436	<0.00467	0.594	<0.00467	6.50	7.63	**2.90**	0.855	<0.00467
MW-5	08/18/10	**20.3**	**20.4**	**4.26**	**10.30**	165.0	33.8	198.8	<0.00184	<0.00184	0.0143	<0.00184	<0.00184	<0.00184	<0.00184	<0.00184	0.0170	<0.00184	0.0753	<0.00184	0.101	<0.00184	0.95	1.15	**0.426**	0.149	<0.00184
MW-6	08/18/09	**31.6**	**14.7**	**2.25**	**4.88**	7.55	122	129.55	<0.00463	<0.00463	0.0434	<0.00463	<0.00463	<0.00463	<0.00463	<0.00463	0.627	<0.00463	0.290	<0.00463	0.382	<0.00463	3.81	4.55	**1.74**	0.536	<0.00463
MW-7	08/18/09	**35.7**	**18.8**	**4.03**	**10.6**	128	192	320	<0.00461	<0.00461	0.0193	<0.00461	<0.00461	<0.00461	<0.00461	<0.00461	0.0560	<0.00461	0.216	<0.00461	0.323	<0.00461	3.14	3.85	**1.38**	0.445	<0.00461
MW-8	08/18/10	**27.6**	**10.1**	**1.84**	**3.63**	6.72	96.2	102.92	<0.00183	<0.00183	0.378	<0.00183	<0.00183	<0.00183	<0.00183	<0.00183	0.263	<0.00183	0.281	<0.00183	0.408	<0.00183	4.62	5.48	**2.20**	0.541	0.0263
MW-9	08/18/10	**29.5**	**15.0**	**2.61**	**5.52**	21.0	130.0	151.0	<0.00185	<0.00185	0.0689	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	0.950	<0.00185	0.419	<0.00185	0.608	<0.00185	7.33	8.81	**3.61**	0.807	0.5090
MW-10	08/18/10	**29.3**	**25.9**	**5.44**	**13.0**	59.5	247.0	306.5	<0.00185	<0.00185	0.0580	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	0.375	<0.00185	0.548	<0.00185	6.64	7.86	**3.20**	0.717	<0.00185
MW-11	08/18/10	**5.52**	**5.37**	**1.04**	**2.64**	<5.00	49.5	49.5	<0.000191	<0.000191	<0.000191	<0.000191	<0.000191	<0.000191	<0.000191	<0.000191	<0.000191	<0.000191	0.0146	<0.000191	0.0213	<0.000191	0.193	0.229	**0.105**	0.0270	<0.00091
MW-12	08/18/10	**7.67**	**6.80**	**1.28**	**3.40**	<5.00	45.3	45.3	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	0.263	<0.000188	0.0393	<0.000188	0.427	0.513	**0.224**	0.0504	<0.000188
MW-13	08/13/09	**5.22**	**6.39**	**1.24**	**2.44**	74.3	34.2	108.5	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	0.0275	<0.000922	<0.000922	<0.000922	0.306	0.332	**0.114**	0.0500	<0.000922
MW-15	NS	**Not sampled - not enough groundwater in the monitor well**																									
NMWQCC Remedial Limits		0.01	0.75	0.75	0.62								0.0007												0.030		

Bolded *values are in excess of the NMWQCC Remediation Thresholds*
BTEX, TPH and PAH analysis per the NMOCD in monitor wells that contain PSH

APPENDIX C

Laboratory Analytical Data Reports and Chains of Custody Documentation

TRACEANALYSIS, INC.

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

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 **El Paso:** T104704221-08-TX LELAP-02002 **Midland:** T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: February 9, 2009

Work Order: 9020517

Project Location: Hobbs, N.M.
Project Name: Moore to Jal #1
Project Number: PLAINS007SPL
SRS#: 2002-10720

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
186602	MW-14	water	2009-02-04	13:06	2009-02-05
186603	MW-16	water	2009-02-04	13:00	2009-02-05
186604	MW-17	water	2009-02-04	13:17	2009-02-05
186605	MW-18	water	2009-02-04	12:52	2009-02-05
186606	MW-19	water	2009-02-04	12:46	2009-02-05
186607	MW-20	water	2009-02-04	13:11	2009-02-05

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 10 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.

Case Narrative

Samples for project Moore to Jal #1 were received by TraceAnalysis, Inc. on 2009-02-05 and assigned to work order 9020517. Samples for work order 9020517 were received intact without headspace and at a temperature of 4.0 deg.C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	48433	2009-02-06 at 12:00	56684	2009-02-06 at 11:38
BTEX	S 8021B	48433	2009-02-06 at 12:00	56685	2009-02-07 at 02:55

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9020517 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 186602 - MW-14

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	56684	Date Analyzed:	2009-02-06	Analyzed By:	AG
Prep Batch:	48433	Sample Preparation:	2009-02-06	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**11.0**	mg/L	50	0.00100
Toluene		<0.0500	mg/L	50	0.00100
Ethylbenzene		<0.0500	mg/L	50	0.00100
Xylene		**0.683**	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5.24	mg/L	50	5.00	105	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		4.42	mg/L	50	5.00	88	40.1 - 136

Sample: 186603 - MW-16

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	56684	Date Analyzed:	2009-02-06	Analyzed By:	AG
Prep Batch:	48433	Sample Preparation:	2009-02-06	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**18.3**	mg/L	100	0.00100
Toluene		**2.74**	mg/L	100	0.00100
Ethylbenzene		**0.521**	mg/L	100	0.00100
Xylene		**1.02**	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.3	mg/L	100	10.0	103	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		9.02	mg/L	100	10.0	90	40.1 - 136

Sample: 186604 - MW-17

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	56685	Date Analyzed:	2009-02-07	Analyzed By:	AG
Prep Batch:	48433	Sample Preparation:	2009-02-06	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00120**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0931	mg/L	1	0.100	93	40.1 - 136

Sample: 186605 - MW-18

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	56685	Date Analyzed:	2009-02-07	Analyzed By:	AG
Prep Batch:	48433	Sample Preparation:	2009-02-06	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0923	mg/L	1	0.100	92	40.1 - 136

Sample: 186606 - MW-19

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	56685	Date Analyzed:	2009-02-07	Analyzed By:	AG
Prep Batch:	48433	Sample Preparation:	2009-02-06	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0867	mg/L	1	0.100	87	40.1 - 136

Sample: 186607 - MW-20

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	56685	Date Analyzed:	2009-02-07	Analyzed By:	AG
Prep Batch:	48433	Sample Preparation:	2009-02-06	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0838	mg/L	1	0.100	84	40.1 - 136

Method Blank (1) QC Batch: 56684

QC Batch:	56684	Date Analyzed:	2009-02-06	Analyzed By:	AG
Prep Batch:	48433	QC Preparation:	2009-02-06	Prepared By:	AG

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)		0.0995	mg/L	1	0.100	100	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0945	mg/L	1	0.100	94	69.1 - 132.3

Method Blank (1) QC Batch: 56685

QC Batch: 56685 | Date Analyzed: 2009-02-07 | Analyzed By: AG
Prep Batch: 48433 | QC Preparation: 2009-02-06 | Prepared By: AG

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)		0.102	mg/L	1	0.100	102	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0929	mg/L	1	0.100	93	69.1 - 132.3

Laboratory Control Spike (LCS-1)

QC Batch: 56684 | Date Analyzed: 2009-02-06 | Analyzed By: AG
Prep Batch: 48433 | QC Preparation: 2009-02-06 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0982	mg/L	1	0.100	<0.00110	98	84 - 119.7
Toluene	0.100	mg/L	1	0.100	<0.00100	100	84.9 - 118.2
Ethylbenzene	0.0999	mg/L	1	0.100	<0.00100	100	84.4 - 118.6
Xylene	0.299	mg/L	1	0.300	<0.00290	100	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	0.0978	mg/L	1	0.100	<0.00110	98	84 - 119.7	0	20
Toluene	0.101	mg/L	1	0.100	<0.00100	101	84.9 - 118.2	1	20
Ethylbenzene	0.102	mg/L	1	0.100	<0.00100	102	84.4 - 118.6	2	20
Xylene	0.306	mg/L	1	0.300	<0.00290	102	84.8 - 117.8	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.101	0.100	mg/L	1	0.100	101	100	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0959	0.0960	mg/L	1	0.100	96	96	59.7 - 136.3

Laboratory Control Spike (LCS-1)

QC Batch: 56685 | Date Analyzed: 2009-02-07 | Analyzed By: AG
Prep Batch: 48433 | QC Preparation: 2009-02-06 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0978	mg/L	1	0.100	<0.00110	98	84 - 119.7
Toluene	0.100	mg/L	1	0.100	<0.00100	100	84.9 - 118.2
Ethylbenzene	0.0990	mg/L	1	0.100	<0.00100	99	84.4 - 118.6
Xylene	0.297	mg/L	1	0.300	<0.00290	99	84.8 - 117.8

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0978	mg/L	1	0.100	<0.00110	98	84 - 119.7	0	20
Toluene	0.100	mg/L	1	0.100	<0.00100	100	84.9 - 118.2	0	20
Ethylbenzene	0.101	mg/L	1	0.100	<0.00100	101	84.4 - 118.6	2	20
Xylene	0.303	mg/L	1	0.300	<0.00290	101	84.8 - 117.8	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.102	0.103	mg/L	1	0.100	102	103	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0943	0.0946	mg/L	1	0.100	94	95	59.7 - 136.3

Matrix Spike (MS-1) Spiked Sample: 186648

QC Batch: 56684 | Date Analyzed: 2009-02-06 | Analyzed By: AG
Prep Batch: 48433 | QC Preparation: 2009-02-06 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	3.94	mg/L	20	2.00	2.0552	94	77.5 - 121.1
Toluene	2.20	mg/L	20	2.00	0.2546	97	78.8 - 119.6
Ethylbenzene	2.08	mg/L	20	2.00	0.1772	95	77.9 - 120.5
Xylene	6.87	mg/L	20	6.00	1.1906	95	78 - 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	3.92	mg/L	20	2.00	2.0552	93	77.5 - 121.1	0	20
Toluene	2.18	mg/L	20	2.00	0.2546	96	78.8 - 119.6	1	20
Ethylbenzene	2.09	mg/L	20	2.00	0.1772	96	77.9 - 120.5	0	20
Xylene	6.90	mg/L	20	6.00	1.1906	95	78 - 119.4	0	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)	1.95	2.10	mg/L	20	2	98	105	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	1.91	1.92	mg/L	20	2	96	96	59.4 - 127.3

Matrix Spike (MS-1) Spiked Sample: 186677

QC Batch: 56685 | Date Analyzed: 2009-02-07 | Analyzed By: AG
Prep Batch: 48433 | QC Preparation: 2009-02-06 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.16	mg/L	10	1.00	0.1404	102	77.5 - 121.1
Toluene	0.986	mg/L	10	1.00	<0.0100	98	78.8 - 119.6
Ethylbenzene	1.10	mg/L	10	1.00	0.1735	93	77.9 - 120.5
Xylene	4.28	mg/L	10	3.00	1.8668	80	78 - 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	1.17	mg/L	10	1.00	0.1404	103	77.5 - 121.1	1	20
Toluene	0.975	mg/L	10	1.00	<0.0100	96	78.8 - 119.6	1	20
Ethylbenzene	1.12	mg/L	10	1.00	0.1735	95	77.9 - 120.5	2	20
Xylene	4.56	mg/L	10	3.00	1.8668	90	78 - 119.4	6	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)	1.03	1.02	mg/L	10	1	103	102	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	0.742	0.760	mg/L	10	1	74	76	59.4 - 127.3

Standard (CCV-1)

QC Batch: 56684 | Date Analyzed: 2009-02-06 | Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0961	96	85 - 115	2009-02-06
Toluene		mg/L	0.100	0.0981	98	85 - 115	2009-02-06
Ethylbenzene		mg/L	0.100	0.0974	97	85 - 115	2009-02-06
Xylene		mg/L	0.300	0.292	97	85 - 115	2009-02-06

Standard (CCV-2)

QC Batch: 56684 Date Analyzed: 2009-02-06 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.101	101	85 - 115	2009-02-06
Toluene		mg/L	0.100	0.102	102	85 - 115	2009-02-06
Ethylbenzene		mg/L	0.100	0.101	101	85 - 115	2009-02-06
Xylene		mg/L	0.300	0.302	101	85 - 115	2009-02-06

Standard (ICV-1)

QC Batch: 56685 Date Analyzed: 2009-02-07 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0953	95	85 - 115	2009-02-07
Toluene		mg/L	0.100	0.0982	98	85 - 115	2009-02-07
Ethylbenzene		mg/L	0.100	0.0989	99	85 - 115	2009-02-07
Xylene		mg/L	0.300	0.297	99	85 - 115	2009-02-07

Standard (CCV-1)

QC Batch: 56685 Date Analyzed: 2009-02-07 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0911	91	85 - 115	2009-02-07
Toluene		mg/L	0.100	0.0945	94	85 - 115	2009-02-07
Ethylbenzene		mg/L	0.100	0.0942	94	85 - 115	2009-02-07
Xylene		mg/L	0.300	0.274	91	85 - 115	2009-02-07

LAB Order # 9020517 Page 1 of

TraceAnalysis, Inc.

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Company Name: Talon/LPE
Phone #: (432) 522-2133
Address: (Street, City, Zip) 2901 Rankin Hwy.
Fax #:
Contact Person: Shana Smith
E-mail: SSmith@talonlpe.com
Invoice to: (If different from above) PLAINS Jason Henry
SRS# 2002-10270
Project #: PLAINS00 FSPL
Project Name: Moore to Jal #7
Project Location (including state): Lovington, N.M.
Sampler Signature: Carl Vessels

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	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
86602	MW-14	3	VOA	X				X				X		2/4/09	1306		X																						
603	MW-16	3		X				X				X			1300		X																						
604	MW-17	3		X				X				X			1317		X																						
605	MW-18	3		X				X				X			1252		X																						
606	MW-19	3		X				X				X			1246		X																						
607	MW-20	3		X				X				X			1311		X																						

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°C:
	Talon/LPE	2/5/09	0800		TALON/LPE	2/5/09	0810	
	TALON/LPE	2/5/09	9:55		Trace Anal	2.5.09	855	

LAB USE ONLY
Trace ID: Y N
Headspace: Y N NA
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.

Carrier # Carry In

ORIGINAL COPY

TRACEANALYSIS, INC.

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Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 **El Paso:** T104704221-08-TX LELAP-02002 **Midland:** T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: June 1, 2009

Work Order: 9052805

Project Location: Hobbs, N.M.
Project Name: Moore to Jal #1
Project Number: PLAINS007SPL
SRS#: 2002-10720

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
197003	MW-14	water	2009-05-27	16:05	2009-05-28
197004	MW-16	water	2009-05-27	16:00	2009-05-28
197005	MW-17	water	2009-05-27	16:45	2009-05-28
197006	MW-18	water	2009-05-27	16:35	2009-05-28
197007	MW-19	water	2009-05-27	16:20	2009-05-28
197008	MW-20	water	2009-05-27	16:10	2009-05-28

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 10 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.

Case Narrative

Samples for project Moore to Jal #1 were received by TraceAnalysis, Inc. on 2009-05-28 and assigned to work order 9052805. Samples for work order 9052805 were received intact without headspace and at a temperature of 3.1 deg. C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	51133	2009-05-28 at 12:52	59907	2009-05-28 at 12:52
BTEX	S 8021B	51181	2009-05-29 at 14:54	59964	2009-05-29 at 14:54

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9052805 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 197003 - MW-14

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	59907	Date Analyzed:	2009-05-28	Analyzed By:	ME
Prep Batch:	51133	Sample Preparation:	2009-05-28	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**8.14**	mg/L	20	0.00100
Toluene		**0.140**	mg/L	20	0.00100
Ethylbenzene		**0.208**	mg/L	20	0.00100
Xylene		**0.715**	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.84	mg/L	20	2.00	92	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		1.59	mg/L	20	2.00	80	40.1 - 136

Sample: 197004 - MW-16

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	59964	Date Analyzed:	2009-05-29	Analyzed By:	ME
Prep Batch:	51181	Sample Preparation:	2009-05-29	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**26.9**	mg/L	100	0.00100
Toluene		**4.35**	mg/L	100	0.00100
Ethylbenzene		**1.17**	mg/L	100	0.00100
Xylene		**2.52**	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.56	mg/L	100	10.0	96	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		7.68	mg/L	100	10.0	77	40.1 - 136

Sample: 197005 - MW-17

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	59964	Date Analyzed:	2009-05-29	Analyzed By:	ME
Prep Batch:	51181	Sample Preparation:	2009-05-29	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0930	mg/L	1	0.100	93	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0821	mg/L	1	0.100	82	40.1 - 136

Sample: 197006 - MW-18

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	59964	Date Analyzed:	2009-05-29	Analyzed By:	ME
Prep Batch:	51181	Sample Preparation:	2009-05-29	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0943	mg/L	1	0.100	94	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0826	mg/L	1	0.100	83	40.1 - 136

Sample: 197007 - MW-19

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	59964	Date Analyzed:	2009-05-29	Analyzed By:	ME
Prep Batch:	51181	Sample Preparation:	2009-05-29	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0928	mg/L	1	0.100	93	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0774	mg/L	1	0.100	77	40.1 - 136

Sample: 197008 - MW-20

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	59964	Date Analyzed:	2009-05-29	Analyzed By:	ME
Prep Batch:	51181	Sample Preparation:	2009-05-29	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0938	mg/L	1	0.100	94	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0806	mg/L	1	0.100	81	40.1 - 136

Method Blank (1) QC Batch: 59907

QC Batch:	59907	Date Analyzed:	2009-05-28	Analyzed By:	ME
Prep Batch:	51133	QC Preparation:	2009-05-28	Prepared By:	ME

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)		0.0918	mg/L	1	0.100	92	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0778	mg/L	1	0.100	78	69.1 - 132.3

Method Blank (1) QC Batch: 59964

QC Batch: 59964 | Date Analyzed: 2009-05-29 | Analyzed By: ME
Prep Batch: 51181 | QC Preparation: 2009-05-29 | Prepared By: ME

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)		0.0979	mg/L	1	0.100	98	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0859	mg/L	1	0.100	86	69.1 - 132.3

Laboratory Control Spike (LCS-1)

QC Batch: 59907 | Date Analyzed: 2009-05-28 | Analyzed By: ME
Prep Batch: 51133 | QC Preparation: 2009-05-28 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0920	mg/L	1	0.100	<0.00110	92	84 - 119.7
Toluene	0.0895	mg/L	1	0.100	<0.00100	90	84.9 - 118.2
Ethylbenzene	0.0878	mg/L	1	0.100	<0.00100	88	84.4 - 118.6
Xylene	0.256	mg/L	1	0.300	<0.00290	85	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	0.0915	mg/L	1	0.100	<0.00110	92	84 - 119.7	0	20
Toluene	0.0906	mg/L	1	0.100	<0.00100	91	84.9 - 118.2	1	20
Ethylbenzene	0.0893	mg/L	1	0.100	<0.00100	89	84.4 - 118.6	2	20
Xylene	0.264	mg/L	1	0.300	<0.00290	88	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)	0.0921	0.0941	mg/L	1	0.100	92	94	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0809	0.0809	mg/L	1	0.100	81	81	59.7 - 136.3

Laboratory Control Spike (LCS-1)

QC Batch: 59964 | Date Analyzed: 2009-05-29 | Analyzed By: ME
Prep Batch: 51181 | QC Preparation: 2009-05-29 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0942	mg/L	1	0.100	<0.00110	94	84 - 119.7
Toluene	0.0895	mg/L	1	0.100	<0.00100	90	84.9 - 118.2
Ethylbenzene	0.0871	mg/L	1	0.100	<0.00100	87	84.4 - 118.6
Xylene	0.257	mg/L	1	0.300	<0.00290	86	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	0.0933	mg/L	1	0.100	<0.00110	93	84 - 119.7	1	20
Toluene	0.0912	mg/L	1	0.100	<0.00100	91	84.9 - 118.2	2	20
Ethylbenzene	0.0903	mg/L	1	0.100	<0.00100	90	84.4 - 118.6	4	20
Xylene	0.269	mg/L	1	0.300	<0.00290	90	84.8 - 117.8	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)	0.0938	0.0975	mg/L	1	0.100	94	98	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0827	0.0883	mg/L	1	0.100	83	88	59.7 - 136.3

Matrix Spike (MS-1) Spiked Sample: 196893

QC Batch: 59907 | Date Analyzed: 2009-05-28 | Analyzed By: ME
Prep Batch: 51133 | QC Preparation: 2009-05-28 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.558	mg/L	5	0.500	0.1264	86	77.5 - 121.1
Toluene	0.563	mg/L	5	0.500	0.1427	84	78.8 - 119.6
Ethylbenzene	0.660	mg/L	5	0.500	0.2507	82	77.9 - 120.5
Xylene	1.87	mg/L	5	1.50	0.6612	80	78 - 119.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.565	mg/L	5	0.500	0.1264	88	77.5 - 121.1	1	20
Toluene	0.565	mg/L	5	0.500	0.1427	84	78.8 - 119.6	0	20
Ethylbenzene	0.675	mg/L	5	0.500	0.2507	85	77.9 - 120.5	2	20
Xylene	1.92	mg/L	5	1.50	0.6612	84	78 - 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)	0.471	0.460	mg/L	5	0.5	94	92	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	0.427	0.447	mg/L	5	0.5	85	89	59.4 - 127.3

Matrix Spike (MS-1) Spiked Sample: 197004

QC Batch: 59964 | Date Analyzed: 2009-05-29 | Analyzed By: ME
Prep Batch: 51181 | QC Preparation: 2009-05-29 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	36.5	mg/L	100	10.0	26.9213	96	77.5 - 121.1
Toluene	13.1	mg/L	100	10.0	4.3488	88	78.8 - 119.6
Ethylbenzene	9.60	mg/L	100	10.0	1.1738	84	77.9 - 120.5
Xylene	27.1	mg/L	100	30.0	2.5156	82	78 - 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]	32.6	mg/L	100	10.0	26.9213	57	77.5 - 121.1	11	20
Toluene	12.6	mg/L	100	10.0	4.3488	82	78.8 - 119.6	4	20
Ethylbenzene	9.64	mg/L	100	10.0	1.1738	85	77.9 - 120.5	0	20
Xylene	27.6	mg/L	100	30.0	2.5156	84	78 - 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)	9.76	9.53	mg/L	100	10	98	95	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	8.16	8.17	mg/L	100	10	82	82	59.4 - 127.3

Standard (CCV-2)

QC Batch: 59907 | Date Analyzed: 2009-05-28 | Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0956	96	80 - 120	2009-05-28
Toluene		mg/L	0.100	0.0932	93	80 - 120	2009-05-28
Ethylbenzene		mg/L	0.100	0.0920	92	80 - 120	2009-05-28
Xylene		mg/L	0.300	0.273	91	80 - 120	2009-05-28

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

Standard (CCV-3)

QC Batch: 59907 Date Analyzed: 2009-05-28 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0903	90	80 - 120	2009-05-28
Toluene		mg/L	0.100	0.0892	89	80 - 120	2009-05-28
Ethylbenzene		mg/L	0.100	0.0892	89	80 - 120	2009-05-28
Xylene		mg/L	0.300	0.261	87	80 - 120	2009-05-28

Standard (CCV-1)

QC Batch: 59964 Date Analyzed: 2009-05-29 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0996	100	80 - 120	2009-05-29
Toluene		mg/L	0.100	0.0965	96	80 - 120	2009-05-29
Ethylbenzene		mg/L	0.100	0.0970	97	80 - 120	2009-05-29
Xylene		mg/L	0.300	0.287	96	80 - 120	2009-05-29

Standard (CCV-2)

QC Batch: 59964 Date Analyzed: 2009-05-29 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0926	93	80 - 120	2009-05-29
Toluene		mg/L	0.100	0.0892	89	80 - 120	2009-05-29
Ethylbenzene		mg/L	0.100	0.0885	88	80 - 120	2009-05-29
Xylene		mg/L	0.300	0.261	87	80 - 120	2009-05-29

LAB Order # 9052805 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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8808 Camp Bowie Blvd. West, Suite 180, Ft. Worth, Texas 76116, Tel (817) 201-5260, Fax (817) 560-4336

Company Name: Talon LPE
Phone #: (432) 522-2133
Address: (Street, City, Zip) 2901 Rankin Hwy, Midland, TX
Fax #: (432) 522-2180
Contact Person: Shanna Smith
E-mail:
Invoice to: (If different from above)
Project #: PLAINS0075PL 5R52002-10270
Project Name: Moore total #1
Project Location (including state): Hobbs, New Mexico
Sampler Signature: Bill D. Linick

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
197003	MW-14	3	40 VOA	✓				✓				✓		5-27-09	1605
004	MW-16	3	40 VOA	✓				✓				✓		5-27-09	1000
005	MW-17	3	40 VOA	✓				✓				✓		5-27-09	1645
006	MW-18	3	40 VOA	✓				✓				✓		5-27-09	1635
007	MW-19	3	40 VOA	✓				✓				✓		5-27-09	1620
008	MW-20	3	40 VOA	✓				✓				✓		5-27-09	1010

	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	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
197003		✓																	
004		✓																	
005		✓																	
006		✓																	
007		✓																	
008		✓																	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Bill D. Linick	Talon LPE	5-28-09	0800		Trace	5/28/09	8:25	3.1°C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:

LAB USE ONLY
Intact Y N
Headspace Y N NA
pH
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.

Carrier #

ORIGINAL COPY

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 **El Paso:** T104704221-08-TX LELAP-02002 **Midland:** T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: August 31, 2009

Work Order: 9081901

Project Location: Hobbs, N.M.
Project Name: Moore to Jal #1
Project Number: 700376.005.01
SRS#: 2002-10720

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
206445	MW-2	water	2009-08-18	14:36	2009-08-19
206446	MW-3	water	2009-08-18	15:34	2009-08-19
206447	MW-4A	water	2009-08-18	13:26	2009-08-19
206448	MW-5	water	2009-08-18	14:56	2009-08-19
206449	MW-6	water	2009-08-18	14:02	2009-08-19
206450	MW-7	water	2009-08-18	13:40	2009-08-19
206451	MW-8	water	2009-08-18	13:52	2009-08-19
206452	MW-9	water	2009-08-18	14:15	2009-08-19
206453	MW-10	water	2009-08-18	14:26	2009-08-19

APPENDIX D

NMOCD C-141

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
206454	MW-11	water	2009-08-18	15:10	2009-08-19
206455	MW-12	water	2009-08-18	15:23	2009-08-19

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.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

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

Case Narrative

Samples for project Moore to Jal #1 were received by TraceAnalysis, Inc. on 2009-08-19 and assigned to work order 9081901. Samples for work order 9081901 were received intact without headspace and at a temperature of 6.7 deg. C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	53498	2009-08-19 at 16:06	62691	2009-08-19 at 16:06
BTEX	S 8021B	53520	2009-08-20 at 10:02	62720	2009-08-20 at 11:32
BTEX	S 8021B	53658	2009-08-25 at 09:13	62869	2009-08-25 at 09:13
BTEX	S 8021B	53711	2009-08-26 at 08:45	62932	2009-08-26 at 08:25
PAH	S 8270C	53688	2009-08-19 at 15:00	62896	2009-08-26 at 10:25
PAH	S 8270C	53804	2009-08-25 at 15:00	63034	2009-08-28 at 16:36
TPH DRO	Mod. 8015B	53479	2009-08-19 at 09:45	62673	2009-08-19 at 09:45
TPH GRO	S 8015B	53498	2009-08-19 at 16:06	62692	2009-08-19 at 16:06
TPH GRO	S 8015B	53520	2009-08-20 at 10:02	62721	2009-08-20 at 11:32
TPH GRO	S 8015B	53711	2009-08-26 at 08:45	62933	2009-08-26 at 08:25

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9081901 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 206445 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62691	Date Analyzed:	2009-08-19	Analyzed By:	ME
Prep Batch:	53498	Sample Preparation:	2009-08-19	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**14.5**	mg/L	50	0.00100
Toluene		**12.1**	mg/L	50	0.00100
Ethylbenzene		**1.80**	mg/L	50	0.00100
Xylene		**4.34**	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.90	mg/L	50	5.00	98	87 - 105.2
4-Bromofluorobenzene (4-BFB)		5.47	mg/L	50	5.00	109	49.8 - 130.8

Sample: 206445 - MW-2

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	62896	Date Analyzed:	2009-08-26	Analyzed By:	MN
Prep Batch:	53688	Sample Preparation:	2009-08-19	Prepared By:	MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene	[1]	**2.64**	mg/L	23.364	0.000200
2-Methylnaphthalene	[2]	**6.70**	mg/L	23.364	0.000200
1-Methylnaphthalene	[3]	**5.56**	mg/L	23.364	0.000200
Acenaphthylene		<0.00467	mg/L	23.364	0.000200
Acenaphthene		<0.00467	mg/L	23.364	0.000200
Dibenzofuran		**0.392**	mg/L	23.364	0.000200
Fluorene		**0.568**	mg/L	23.364	0.000200
Anthracene		**0.0603**	mg/L	23.364	0.000200
Phenanthrene		**0.775**	mg/L	23.364	0.000200
Fluoranthene		<0.00467	mg/L	23.364	0.000200
Pyrene		<0.00467	mg/L	23.364	0.000200
Benzo(a)anthracene		<0.00467	mg/L	23.364	0.000200
Chrysene		<0.00467	mg/L	23.364	0.000200

continued ...

[1]Estimated concentration value greater than standard range.
[2]Estimated concentration value greater than standard range.
[3]Estimated concentration value greater than standard range.

sample 206445 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(b)fluoranthene		<0.00467	mg/L	23.364	0.000200
Benzo(k)fluoranthene		<0.00467	mg/L	23.364	0.000200
Benzo(a)pyrene		<0.00467	mg/L	23.364	0.000200
Indeno(1,2,3-cd)pyrene		<0.00467	mg/L	23.364	0.000200
Dibenzo(a,h)anthracene		<0.00467	mg/L	23.364	0.000200
Benzo(g,h,i)perylene		<0.00467	mg/L	23.364	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	[4]	0.126	mg/L	23.364	0.0800	158	25.9 - 97.5
2-Fluorobiphenyl		0.0633	mg/L	23.364	0.0800	79	13.9 - 100
Terphenyl-d14		0.0655	mg/L	23.364	0.0800	82	37.7 - 114

Sample: 206445 - MW-2

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62673	Date Analyzed:	2009-08-19	Analyzed By:	kg
Prep Batch:	53479	Sample Preparation:	2009-08-19	Prepared By:	kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**48.6**	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		11.9	mg/L	1	10.0	119	70 - 130

Sample: 206445 - MW-2

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	62692	Date Analyzed:	2009-08-19	Analyzed By:	ME
Prep Batch:	53498	Sample Preparation:	2009-08-19	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**98.7**	mg/L	50	0.100

[4] 8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.79	mg/L	50	5.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)		6.52	mg/L	50	5.00	130	70 - 130

Sample: 206446 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62691	Date Analyzed:	2009-08-19	Analyzed By:	ME
Prep Batch:	53498	Sample Preparation:	2009-08-19	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**35.1**	mg/L	100	0.00100
Toluene		**8.96**	mg/L	100	0.00100
Ethylbenzene		**2.44**	mg/L	100	0.00100
Xylene		**5.86**	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.81	mg/L	100	10.0	98	87 - 105.2
4-Bromofluorobenzene (4-BFB)		10.2	mg/L	100	10.0	102	49.8 - 130.8

Sample: 206446 - MW-3

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	62896	Date Analyzed:	2009-08-26	Analyzed By:	MN
Prep Batch:	53688	Sample Preparation:	2009-08-19	Prepared By:	MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		**0.400**	mg/L	9.217	0.000200
2-Methylnaphthalene		**0.915**	mg/L	9.217	0.000200
1-Methylnaphthalene		**0.757**	mg/L	9.217	0.000200
Acenaphthylene		<0.00184	mg/L	9.217	0.000200
Acenaphthene		<0.00184	mg/L	9.217	0.000200
Dibenzofuran		**0.0589**	mg/L	9.217	0.000200
Fluorene		**0.0776**	mg/L	9.217	0.000200
Anthracene		**0.00637**	mg/L	9.217	0.000200
Phenanthrene		**0.106**	mg/L	9.217	0.000200
Fluoranthene		<0.00184	mg/L	9.217	0.000200
Pyrene		<0.00184	mg/L	9.217	0.000200
Benzo(a)anthracene		<0.00184	mg/L	9.217	0.000200

continued ...

sample 206446 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Chrysene		<0.00184		mg/L	9.217	0.000200
Benzo(b)fluoranthene		<0.00184		mg/L	9.217	0.000200
Benzo(k)fluoranthene		<0.00184		mg/L	9.217	0.000200
Benzo(a)pyrene		<0.00184		mg/L	9.217	0.000200
Indeno(1,2,3-cd)pyrene		<0.00184		mg/L	9.217	0.000200
Dibenzo(a,h)anthracene		<0.00184		mg/L	9.217	0.000200
Benzo(g,h,i)perylene		<0.00184		mg/L	9.217	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0511	mg/L	9.217	0.0800	64	25.9 - 97.5
2-Fluorobiphenyl		0.0575	mg/L	9.217	0.0800	72	13.9 - 100
Terphenyl-d14		0.0566	mg/L	9.217	0.0800	71	37.7 - 114

Sample: 206446 - MW-3

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62673	Date Analyzed:	2009-08-19	Analyzed By:	kg
Prep Batch:	53479	Sample Preparation:	2009-08-19	Prepared By:	kg

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		<5.00		mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		11.4	mg/L	1	10.0	114	70 - 130

Sample: 206446 - MW-3

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	62692	Date Analyzed:	2009-08-19	Analyzed By:	ME
Prep Batch:	53498	Sample Preparation:	2009-08-19	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**132**		mg/L	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.58	mg/L	100	10.0	96	70 - 130
4-Bromofluorobenzene (4-BFB)		11.3	mg/L	1011.78	10.0	113	70 - 130

Sample: 206447 - MW-4A

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62869	Date Analyzed:	2009-08-25	Analyzed By:	ME
Prep Batch:	53658	Sample Preparation:	2009-08-25	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**19.7**	mg/L	200	0.00100
Toluene		**16.5**	mg/L	200	0.00100
Ethylbenzene		**2.52**	mg/L	200	0.00100
Xylene		**6.02**	mg/L	200	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		19.8	mg/L	200	20.0	99	87 - 105.2
4-Bromofluorobenzene (4-BFB)		19.6	mg/L	200	20.0	98	49.8 - 130.8

Sample: 206447 - MW-4A

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	62896	Date Analyzed:	2009-08-26	Analyzed By:	MN
Prep Batch:	53688	Sample Preparation:	2009-08-19	Prepared By:	MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene	[5]	**2.90**	mg/L	23.364	0.000200
2-Methylnaphthalene	[6]	**7.63**	mg/L	23.364	0.000200
1-Methylnaphthalene	[7]	**6.50**	mg/L	23.364	0.000200
Acenaphthylene		<0.00467	mg/L	23.364	0.000200
Acenaphthene		<0.00467	mg/L	23.364	0.000200
Dibenzofuran		**0.436**	mg/L	23.364	0.000200
Fluorene		**0.594**	mg/L	23.364	0.000200
Anthracene		**0.0604**	mg/L	23.364	0.000200
Phenanthrene		**0.855**	mg/L	23.364	0.000200

continued ...

[5]Estimated concentration value greater than standard range.
[6]Estimated concentration value greater than standard range.
[7]Estimated concentration value greater than standard range.

sample 206447 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoranthene		<0.00467	mg/L	23.364	0.000200
Pyrene		<0.00467	mg/L	23.364	0.000200
Benzo(a)anthracene		<0.00467	mg/L	23.364	0.000200
Chrysene		**0.106**	mg/L	23.364	0.000200
Benzo(b)fluoranthene		<0.00467	mg/L	23.364	0.000200
Benzo(k)fluoranthene		<0.00467	mg/L	23.364	0.000200
Benzo(a)pyrene		<0.00467	mg/L	23.364	0.000200
Indeno(1,2,3-cd)pyrene		<0.00467	mg/L	23.364	0.000200
Dibenzo(a,h)anthracene		<0.00467	mg/L	23.364	0.000200
Benzo(g,h,i)perylene		<0.00467	mg/L	23.364	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	[8]	0.149	mg/L	23.364	0.0800	186	25.9 - 97.5
2-Fluorobiphenyl		0.0653	mg/L	23.364	0.0800	82	13.9 - 100
Terphenyl-d14		0.0643	mg/L	23.364	0.0800	80	37.7 - 114

Sample: 206447 - MW-4A

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62673	Date Analyzed:	2009-08-19	Analyzed By:	kg
Prep Batch:	53479	Sample Preparation:	2009-08-19	Prepared By:	kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**26.0**	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		11.0	mg/L	1	10.0	110	70 - 130

Sample: 206447 - MW-4A

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	62721	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

continued ...

[8] 8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

sample 206447 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**120**	mg/L	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.94	mg/L	50	5.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)	[9]	7.66	mg/L	50	5.00	153	70 - 130

Sample: 206448 - MW-5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62720	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**20.3**	mg/L	200	0.00100
Toluene		**20.4**	mg/L	200	0.00100
Ethylbenzene		**4.26**	mg/L	200	0.00100
Xylene		**10.3**	mg/L	200	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		20.8	mg/L	200	20.0	104	87 - 105.2
4-Bromofluorobenzene (4-BFB)		25.9	mg/L	200	20.0	130	49.8 - 130.8

Sample: 206448 - MW-5

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	62896	Date Analyzed:	2009-08-26	Analyzed By:	MN
Prep Batch:	53688	Sample Preparation:	2009-08-19	Prepared By:	MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		**0.426**	mg/L	9.217	0.000200
2-Methylnaphthalene	[10]	**1.15**	mg/L	9.217	0.000200

continued ...

[9]High surrogate recovery due to peak interference.
[10]Estimated concentration value greater than standard range.

sample 206448 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
1-Methylnaphthalene	[11]	**0.945**	mg/L	9.217	0.000200
Acenaphthylene		<0.00184	mg/L	9.217	0.000200
Acenaphthene		<0.00184	mg/L	9.217	0.000200
Dibenzofuran		**0.0753**	mg/L	9.217	0.000200
Fluorene		**0.101**	mg/L	9.217	0.000200
Anthracene		**0.0143**	mg/L	9.217	0.000200
Phenanthrene		**0.149**	mg/L	9.217	0.000200
Fluoranthene		<0.00184	mg/L	9.217	0.000200
Pyrene		<0.00184	mg/L	9.217	0.000200
Benzo(a)anthracene		<0.00184	mg/L	9.217	0.000200
Chrysene		**0.0179**	mg/L	9.217	0.000200
Benzo(b)fluoranthene		<0.00184	mg/L	9.217	0.000200
Benzo(k)fluoranthene		<0.00184	mg/L	9.217	0.000200
Benzo(a)pyrene		<0.00184	mg/L	9.217	0.000200
Indeno(1,2,3-cd)pyrene		<0.00184	mg/L	9.217	0.000200
Dibenzo(a,h)anthracene		<0.00184	mg/L	9.217	0.000200
Benzo(g,h,i)perylene		<0.00184	mg/L	9.217	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0455	mg/L	9.217	0.0800	57	25.9 - 97.5
2-Fluorobiphenyl		0.0385	mg/L	9.217	0.0800	48	13.9 - 100
Terphenyl-d14		0.0405	mg/L	9.217	0.0800	51	37.7 - 114

Sample: 206448 - MW-5

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62673	Date Analyzed:	2009-08-19	Analyzed By:	kg
Prep Batch:	53479	Sample Preparation:	2009-08-19	Prepared By:	kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**33.8**	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		11.7	mg/L	1	10.0	117	70 - 130

[11] Estimated concentration value greater than standard range.

Sample: 206448 - MW-5

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	62721	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**165**	mg/L	200	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		20.1	mg/L	200	20.0	100	70 - 130
4-Bromofluorobenzene (4-BFB)	[12]	29.5	mg/L	200	20.0	148	70 - 130

Sample: 206449 - MW-6

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62720	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**31.6**	mg/L	100	0.00100
Toluene		**14.7**	mg/L	100	0.00100
Ethylbenzene		**2.25**	mg/L	100	0.00100
Xylene		**4.88**	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.2	mg/L	100	10.0	102	87 - 105.2
4-Bromofluorobenzene (4-BFB)		12.3	mg/L	100	10.0	123	49.8 - 130.8

Sample: 206449 - MW-6

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	62896	Date Analyzed:	2009-08-26	Analyzed By:	MN
Prep Batch:	53688	Sample Preparation:	2009-08-19	Prepared By:	MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		**1.74**	mg/L	23.148	0.000200

continued ...

[12]High surrogate recovery due to peak interference.

sample 206449 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
2-Methylnaphthalene	[13]	**4.55**	mg/L	23.148	0.000200
1-Methylnaphthalene	[14]	**3.81**	mg/L	23.148	0.000200
Acenaphthylene		<0.00463	mg/L	23.148	0.000200
Acenaphthene		<0.00463	mg/L	23.148	0.000200
Dibenzofuran		**0.290**	mg/L	23.148	0.000200
Fluorene		**0.382**	mg/L	23.148	0.000200
Anthracene		**0.0434**	mg/L	23.148	0.000200
Phenanthrene		**0.536**	mg/L	23.148	0.000200
Fluoranthene		<0.00463	mg/L	23.148	0.000200
Pyrene		<0.00463	mg/L	23.148	0.000200
Benzo(a)anthracene		<0.00463	mg/L	23.148	0.000200
Chrysene		**0.0627**	mg/L	23.148	0.000200
Benzo(b)fluoranthene		<0.00463	mg/L	23.148	0.000200
Benzo(k)fluoranthene		<0.00463	mg/L	23.148	0.000200
Benzo(a)pyrene		<0.00463	mg/L	23.148	0.000200
Indeno(1,2,3-cd)pyrene		<0.00463	mg/L	23.148	0.000200
Dibenzo(a,h)anthracene		<0.00463	mg/L	23.148	0.000200
Benzo(g,h,i)perylene		<0.00463	mg/L	23.148	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	[15]	0.0862	mg/L	23.148	0.0800	108	25.9 - 97.5
2-Fluorobiphenyl		0.0653	mg/L	23.148	0.0800	82	13.9 - 100
Terphenyl-d14		0.0654	mg/L	23.148	0.0800	82	37.7 - 114

Sample: 206449 - MW-6

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62673	Date Analyzed:	2009-08-19	Analyzed By:	kg
Prep Batch:	53479	Sample Preparation:	2009-08-19	Prepared By:	kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**7.55**	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		11.2	mg/L	1	10.0	112	70 - 130

[13]Estimated concentration value greater than standard range.
[14]Estimated concentration value greater than standard range.
[15]8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

Sample: 206449 - MW-6

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	62721	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**122**	mg/L	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.92	mg/L	100	10.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)	[16]	13.6	mg/L	100	10.0	136	70 - 130

Sample: 206450 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62932	Date Analyzed:	2009-08-26	Analyzed By:	ME
Prep Batch:	53711	Sample Preparation:	2009-08-26	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**35.7**	mg/L	200	0.00100
Toluene		**18.8**	mg/L	200	0.00100
Ethylbenzene		**4.03**	mg/L	200	0.00100
Xylene		**10.6**	mg/L	200	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		20.1	mg/L	200	20.0	100	87 - 105.2
4-Bromofluorobenzene (4-BFB)		21.3	mg/L	200	20.0	106	49.8 - 130.8

Sample: 206450 - MW-7

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	62896	Date Analyzed:	2009-08-26	Analyzed By:	MN
Prep Batch:	53688	Sample Preparation:	2009-08-19	Prepared By:	MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		**1.38**	mg/L	23.041	0.000200

continued ...

[16] High surrogate recovery due to peak interference.

sample 206450 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
2-Methylnaphthalene	[17]	**3.85**	mg/L	23.041	0.000200
1-Methylnaphthalene	[18]	**3.14**	mg/L	23.041	0.000200
Acenaphthylene		<0.00461	mg/L	23.041	0.000200
Acenaphthene		<0.00461	mg/L	23.041	0.000200
Dibenzofuran		**0.216**	mg/L	23.041	0.000200
Fluorene		**0.323**	mg/L	23.041	0.000200
Anthracene		**0.0193**	mg/L	23.041	0.000200
Phenanthrene		**0.445**	mg/L	23.041	0.000200
Fluoranthene		<0.00461	mg/L	23.041	0.000200
Pyrene		<0.00461	mg/L	23.041	0.000200
Benzo(a)anthracene		<0.00461	mg/L	23.041	0.000200
Chrysene		**0.0560**	mg/L	23.041	0.000200
Benzo(b)fluoranthene		<0.00461	mg/L	23.041	0.000200
Benzo(k)fluoranthene		<0.00461	mg/L	23.041	0.000200
Benzo(a)pyrene		<0.00461	mg/L	23.041	0.000200
Indeno(1,2,3-cd)pyrene		<0.00461	mg/L	23.041	0.000200
Dibenzo(a,h)anthracene		<0.00461	mg/L	23.041	0.000200
Benzo(g,h,i)perylene		<0.00461	mg/L	23.041	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0516	mg/L	23.041	0.0800	64	25.9 - 97.5
2-Fluorobiphenyl		0.0437	mg/L	23.041	0.0800	55	13.9 - 100
Terphenyl-d14		0.0495	mg/L	23.041	0.0800	62	37.7 - 114

Sample: 206450 - MW-7

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62673	Date Analyzed:	2009-08-19	Analyzed By:	kg
Prep Batch:	53479	Sample Preparation:	2009-08-19	Prepared By:	kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**128**	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[19]	14.9	mg/L	1	10.0	149	70 - 130

[17]Estimated concentration value greater than standard range.
[18]Estimated concentration value greater than standard range.
[19]High surrogate recovery due to peak interference.

Sample: 206450 - MW-7

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	62933	Date Analyzed:	2009-08-26	Analyzed By:	ME
Prep Batch:	53711	Sample Preparation:	2009-08-26	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**192**	mg/L	200	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		19.3	mg/L	200	20.0	96	70 - 130
4-Bromofluorobenzene (4-BFB)		23.8	mg/L	200	20.0	119	70 - 130

Sample: 206451 - MW-8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62720	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**27.6**	mg/L	100	0.00100
Toluene		**10.1**	mg/L	100	0.00100
Ethylbenzene		**1.84**	mg/L	100	0.00100
Xylene		**3.63**	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.0	mg/L	100	10.0	100	87 - 105.2
4-Bromofluorobenzene (4-BFB)		12.3	mg/L	100	10.0	123	49.8 - 130.8

Sample: 206451 - MW-8

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	63034	Date Analyzed:	2009-08-28	Analyzed By:	MN
Prep Batch:	53804	Sample Preparation:	2009-08-25	Prepared By:	MN

continued ...

sample 206451 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene	[20]	**2.20**	mg/L	9.132	0.000200
2-Methylnaphthalene	[21]	**5.48**	mg/L	9.132	0.000200
1-Methylnaphthalene	[22]	**4.62**	mg/L	9.132	0.000200
Acenaphthylene		<0.00183	mg/L	9.132	0.000200
Acenaphthene		<0.00183	mg/L	9.132	0.000200
Dibenzofuran		**0.281**	mg/L	9.132	0.000200
Fluorene		**0.408**	mg/L	9.132	0.000200
Anthracene		**0.0378**	mg/L	9.132	0.000200
Phenanthrene		**0.541**	mg/L	9.132	0.000200
Fluoranthene		<0.00183	mg/L	9.132	0.000200
Pyrene		**0.0263**	mg/L	9.132	0.000200
Benzo(a)anthracene		<0.00183	mg/L	9.132	0.000200
Chrysene		**0.0698**	mg/L	9.132	0.000200
Benzo(b)fluoranthene		<0.00183	mg/L	9.132	0.000200
Benzo(k)fluoranthene		<0.00183	mg/L	9.132	0.000200
Benzo(a)pyrene		<0.00183	mg/L	9.132	0.000200
Indeno(1,2,3-cd)pyrene		<0.00183	mg/L	9.132	0.000200
Dibenzo(a,h)anthracene		<0.00183	mg/L	9.132	0.000200
Benzo(g,h,i)perylene		<0.00183	mg/L	9.132	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	[23]	0.116	mg/L	9.132	0.0800	145	25.9 - 97.5
2-Fluorobiphenyl		0.0542	mg/L	9.132	0.0800	68	13.9 - 100
Terphenyl-d14		0.0623	mg/L	9.132	0.0800	78	37.7 - 114

Sample: 206451 - MW-8

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62673	Date Analyzed:	2009-08-19	Analyzed By:	kg
Prep Batch:	53479	Sample Preparation:	2009-08-19	Prepared By:	kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**6.72**	mg/L	1	5.00

[20]Estimated concentration value greater than standard range.
[21]Estimated concentration value greater than standard range.
[22]Estimated concentration value greater than standard range.
[23]8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		11.2	mg/L	1	10.0	112	70 - 130

Sample: 206451 - MW-8

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	62721	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**96.2**	mg/L	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.99	mg/L	100	10.0	100	70 - 130
4-Bromofluorobenzene (4-BFB)	[24]	13.7	mg/L	100	10.0	137	70 - 130

Sample: 206452 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62720	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**29.5**	mg/L	100	0.00100
Toluene		**15.0**	mg/L	100	0.00100
Ethylbenzene		**2.61**	mg/L	100	0.00100
Xylene		**5.52**	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.2	mg/L	100	10.0	102	87 - 105.2
4-Bromofluorobenzene (4-BFB)		12.6	mg/L	100	10.0	126	49.8 - 130.8

Sample: 206452 - MW-9

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	63034	Date Analyzed:	2009-08-28	Analyzed By:	MN
Prep Batch:	53804	Sample Preparation:	2009-08-25	Prepared By:	MN

[24] High surrogate recovery due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene	[25]	**3.61**	mg/L	9.259	0.000200
2-Methylnaphthalene	[26]	**8.81**	mg/L	9.259	0.000200
1-Methylnaphthalene	[27]	**7.32**	mg/L	9.259	0.000200
Acenaphthylene		<0.00185	mg/L	9.259	0.000200
Acenaphthene		<0.00185	mg/L	9.259	0.000200
Dibenzofuran		**0.419**	mg/L	9.259	0.000200
Fluorene		**0.608**	mg/L	9.259	0.000200
Anthracene		**0.0689**	mg/L	9.259	0.000200
Phenanthrene		**0.807**	mg/L	9.259	0.000200
Fluoranthene		<0.00185	mg/L	9.259	0.000200
Pyrene		**0.0509**	mg/L	9.259	0.000200
Benzo(a)anthracene		<0.00185	mg/L	9.259	0.000200
Chrysene		**0.0950**	mg/L	9.259	0.000200
Benzo(b)fluoranthene		<0.00185	mg/L	9.259	0.000200
Benzo(k)fluoranthene		<0.00185	mg/L	9.259	0.000200
Benzo(a)pyrene		<0.00185	mg/L	9.259	0.000200
Indeno(1,2,3-cd)pyrene		<0.00185	mg/L	9.259	0.000200
Dibenzo(a,h)anthracene		<0.00185	mg/L	9.259	0.000200
Benzo(g,h,i)perylene		<0.00185	mg/L	9.259	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	[28]	0.428	mg/L	9.259	0.0800	535	25.9 - 97.5
2-Fluorobiphenyl		0.0632	mg/L	9.259	0.0800	79	13.9 - 100
Terphenyl-d14		0.0782	mg/L	9.259	0.0800	98	37.7 - 114

Sample: 206452 - MW-9

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62673	Date Analyzed:	2009-08-19	Analyzed By:	kg
Prep Batch:	53479	Sample Preparation:	2009-08-19	Prepared By:	kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**21.0**	mg/L	1	5.00

[25]Estimated concentration value greater than standard range.
[26]Estimated concentration value greater than standard range.
[27]Estimated concentration value greater than standard range.
[28]8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		11.3	mg/L	1	10.0	113	70 - 130

Sample: 206452 - MW-9

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	62721	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**139**	mg/L	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.90	mg/L	100	10.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)	[29]	13.5	mg/L	100	10.0	135	70 - 130

Sample: 206453 - MW-10

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62720	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**29.3**	mg/L	200	0.00100
Toluene		**25.9**	mg/L	200	0.00100
Ethylbenzene		**5.44**	mg/L	200	0.00100
Xylene		**13.0**	mg/L	200	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		20.4	mg/L	200	20.0	102	87 - 105.2
4-Bromofluorobenzene (4-BFB)		24.6	mg/L	200	20.0	123	49.8 - 130.8

Sample: 206453 - MW-10

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	63034	Date Analyzed:	2009-08-28	Analyzed By:	MN
Prep Batch:	53804	Sample Preparation:	2009-08-25	Prepared By:	MN

[29] High surrogate recovery due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene	[30]	**3.20**	mg/L	9.259	0.000200
2-Methylnaphthalene	[31]	**7.86**	mg/L	9.259	0.000200
1-Methylnaphthalene	[32]	**6.64**	mg/L	9.259	0.000200
Acenaphthylene		<0.00185	mg/L	9.259	0.000200
Acenaphthene		<0.00185	mg/L	9.259	0.000200
Dibenzofuran		**0.375**	mg/L	9.259	0.000200
Fluorene		**0.548**	mg/L	9.259	0.000200
Anthracene		**0.0580**	mg/L	9.259	0.000200
Phenanthrene		**0.717**	mg/L	9.259	0.000200
Fluoranthene		<0.00185	mg/L	9.259	0.000200
Pyrene		<0.00185	mg/L	9.259	0.000200
Benzo(a)anthracene		<0.00185	mg/L	9.259	0.000200
Chrysene		<0.00185	mg/L	9.259	0.000200
Benzo(b)fluoranthene		<0.00185	mg/L	9.259	0.000200
Benzo(k)fluoranthene		<0.00185	mg/L	9.259	0.000200
Benzo(a)pyrene		<0.00185	mg/L	9.259	0.000200
Indeno(1,2,3-cd)pyrene		<0.00185	mg/L	9.259	0.000200
Dibenzo(a,h)anthracene		<0.00185	mg/L	9.259	0.000200
Benzo(g,h,i)perylene		<0.00185	mg/L	9.259	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	[33]	0.390	mg/L	9.259	0.0800	488	25.9 - 97.5
2-Fluorobiphenyl		0.0544	mg/L	9.259	0.0800	68	13.9 - 100
Terphenyl-d14		0.0621	mg/L	9.259	0.0800	78	37.7 - 114

Sample: 206453 - MW-10

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62673	Date Analyzed:	2009-08-19	Analyzed By:	kg
Prep Batch:	53479	Sample Preparation:	2009-08-19	Prepared By:	kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**59.5**	mg/L	1	5.00

[30]Estimated concentration value greater than standard range.
[31]Estimated concentration value greater than standard range.
[32]Estimated concentration value greater than standard range.
[33]8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		12.1	mg/L	1	10.0	121	70 - 130

Sample: 206453 - MW-10

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	62721	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**247**	mg/L	200	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		19.9	mg/L	200	20.0	100	70 - 130
4-Bromofluorobenzene (4-BFB)	[34]	27.5	mg/L	200	20.0	138	70 - 130

Sample: 206454 - MW-11

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62720	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**5.52**	mg/L	20	0.00100
Toluene		**5.37**	mg/L	20	0.00100
Ethylbenzene		**1.04**	mg/L	20	0.00100
Xylene		**2.64**	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.03	mg/L	20	2.00	102	87 - 105.2
4-Bromofluorobenzene (4-BFB)	[35]	2.63	mg/L	20	2.00	132	49.8 - 130.8

Sample: 206454 - MW-11

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	63034	Date Analyzed:	2009-08-28	Analyzed By:	MN
Prep Batch:	53804	Sample Preparation:	2009-08-25	Prepared By:	MN

[34] High surrogate recovery due to peak interference.
[35] High surrogate recovery due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene	[36]	**0.105**	mg/L	0.957	0.000200
2-Methylnaphthalene	[37]	**0.229**	mg/L	0.957	0.000200
1-Methylnaphthalene	[38]	**0.193**	mg/L	0.957	0.000200
Acenaphthylene		<0.000191	mg/L	0.957	0.000200
Acenaphthene		<0.000191	mg/L	0.957	0.000200
Dibenzofuran		**0.0146**	mg/L	0.957	0.000200
Fluorene		**0.0213**	mg/L	0.957	0.000200
Anthracene		<0.000191	mg/L	0.957	0.000200
Phenanthrene		**0.0270**	mg/L	0.957	0.000200
Fluoranthene		<0.000191	mg/L	0.957	0.000200
Pyrene		<0.000191	mg/L	0.957	0.000200
Benzo(a)anthracene		<0.000191	mg/L	0.957	0.000200
Chrysene		<0.000191	mg/L	0.957	0.000200
Benzo(b)fluoranthene		<0.000191	mg/L	0.957	0.000200
Benzo(k)fluoranthene		<0.000191	mg/L	0.957	0.000200
Benzo(a)pyrene		<0.000191	mg/L	0.957	0.000200
Indeno(1,2,3-cd)pyrene		<0.000191	mg/L	0.957	0.000200
Dibenzo(a,h)anthracene		<0.000191	mg/L	0.957	0.000200
Benzo(g,h,i)perylene		<0.000191	mg/L	0.957	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0396	mg/L	0.957	0.0800	50	25.9 - 97.5
2-Fluorobiphenyl		0.0422	mg/L	0.957	0.0800	53	13.9 - 100
Terphenyl-d14		0.0439	mg/L	0.957	0.0800	55	37.7 - 114

Sample: 206454 - MW-11

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62673	Date Analyzed:	2009-08-19	Analyzed By:	kg
Prep Batch:	53479	Sample Preparation:	2009-08-19	Prepared By:	kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		11.5	mg/L	1	10.0	115	70 - 130

[36]Estimated concentration value greater than standard range.
[37]Estimated concentration value greater than standard range.
[38]Estimated concentration value greater than standard range.

Sample: 206454 - MW-11

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	62721	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**49.5**	mg/L	20	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.99	mg/L	20	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)	[39]	3.06	mg/L	20	2.00	153	70 - 130

Sample: 206455 - MW-12

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62720	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**7.67**	mg/L	50	0.00100
Toluene		**6.80**	mg/L	50	0.00100
Ethylbenzene		**1.28**	mg/L	50	0.00100
Xylene		**3.40**	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5.11	mg/L	50	5.00	102	87 - 105.2
4-Bromofluorobenzene (4-BFB)		5.97	mg/L	50	5.00	119	49.8 - 130.8

Sample: 206455 - MW-12

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	63034	Date Analyzed:	2009-08-28	Analyzed By:	MN
Prep Batch:	53804	Sample Preparation:	2009-08-25	Prepared By:	MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene	[40]	**0.224**	mg/L	0.939	0.000200

[39]High surrogate recovery due to peak interference.

continued ...

[40]Estimated concentration value greater than standard range.

sample 206455 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
2-Methylnaphthalene	[41]	**0.513**	mg/L	0.939	0.000200
1-Methylnaphthalene	[42]	**0.427**	mg/L	0.939	0.000200
Acenaphthylene		<0.000188	mg/L	0.939	0.000200
Acenaphthene		<0.000188	mg/L	0.939	0.000200
Dibenzofuran		**0.0263**	mg/L	0.939	0.000200
Fluorene		**0.0393**	mg/L	0.939	0.000200
Anthracene		<0.000188	mg/L	0.939	0.000200
Phenanthrene		**0.0504**	mg/L	0.939	0.000200
Fluoranthene		<0.000188	mg/L	0.939	0.000200
Pyrene		<0.000188	mg/L	0.939	0.000200
Benzo(a)anthracene		<0.000188	mg/L	0.939	0.000200
Chrysene		<0.000188	mg/L	0.939	0.000200
Benzo(b)fluoranthene		<0.000188	mg/L	0.939	0.000200
Benzo(k)fluoranthene		<0.000188	mg/L	0.939	0.000200
Benzo(a)pyrene		<0.000188	mg/L	0.939	0.000200
Indeno(1,2,3-cd)pyrene		<0.000188	mg/L	0.939	0.000200
Dibenzo(a,h)anthracene		<0.000188	mg/L	0.939	0.000200
Benzo(g,h,i)perylene		<0.000188	mg/L	0.939	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0432	mg/L	0.939	0.0800	54	25.9 - 97.5
2-Fluorobiphenyl		0.0292	mg/L	0.939	0.0800	36	13.9 - 100
Terphenyl-d14		0.0322	mg/L	0.939	0.0800	40	37.7 - 114

Sample: 206455 - MW-12

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62673	Date Analyzed:	2009-08-19	Analyzed By:	kg
Prep Batch:	53479	Sample Preparation:	2009-08-19	Prepared By:	kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		11.6	mg/L	1	10.0	116	70 - 130

[41]Estimated concentration value greater than standard range.
[42]Estimated concentration value greater than standard range.

Sample: 206455 - MW-12

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	62721	Date Analyzed:	2009-08-20	Analyzed By:	ME
Prep Batch:	53520	Sample Preparation:	2009-08-20	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**45.3**	mg/L	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.94	mg/L	50	5.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)	[43]	6.60	mg/L	50	5.00	132	70 - 130

Method Blank (1) QC Batch: 62673

QC Batch:	62673	Date Analyzed:	2009-08-19	Analyzed By:	kg
Prep Batch:	53479	QC Preparation:	2009-08-19	Prepared By:	kg

Parameter	Flag	MDL Result	Units	RL
DRO		<0.801	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		11.6	mg/L	1	10.0	116	70 - 160

Method Blank (1) QC Batch: 62691

QC Batch:	62691	Date Analyzed:	2009-08-19	Analyzed By:	ME
Prep Batch:	53498	QC Preparation:	2009-08-19	Prepared By:	ME

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)		0.0992	mg/L	1	0.100	99	85.4 - 105.2

continued ...

[43] High surrogate recovery due to peak interference.

method blank continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	52.8 - 124.2

Method Blank (1) QC Batch: 62692

QC Batch: 62692 Date Analyzed: 2009-08-19 Analyzed By: ME
Prep Batch: 53498 QC Preparation: 2009-08-19 Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
GRO		<0.0351	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0962	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)		0.111	mg/L	1	0.100	111	70 - 130

Method Blank (1) QC Batch: 62720

QC Batch: 62720 Date Analyzed: 2009-08-20 Analyzed By: ME
Prep Batch: 53520 QC Preparation: 2009-08-20 Prepared By: ME

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)		0.101	mg/L	1	0.100	101	85.4 - 105.2
4-Bromofluorobenzene (4-BFB)		0.109	mg/L	1	0.100	109	52.8 - 124.2

Method Blank (1) QC Batch: 62721

QC Batch: 62721 Date Analyzed: 2009-08-20 Analyzed By: ME
Prep Batch: 53520 QC Preparation: 2009-08-20 Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
GRO		<0.0351	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0995	mg/L	1	0.100	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.119	mg/L	1	0.100	119	70 - 130

Method Blank (1) QC Batch: 62869

QC Batch: 62869 Date Analyzed: 2009-08-25 Analyzed By: ME
Prep Batch: 53658 QC Preparation: 2009-08-25 Prepared By: ME

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)		0.0972	mg/L	1	0.100	97	85.4 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0991	mg/L	1	0.100	99	52.8 - 124.2

Method Blank (1) QC Batch: 62896

QC Batch: 62896 Date Analyzed: 2009-08-26 Analyzed By: MN
Prep Batch: 53688 QC Preparation: 2009-08-19 Prepared By: MN

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000784	mg/L	0.0002
2-Methylnaphthalene		<0.0000747	mg/L	0.0002
1-Methylnaphthalene		<0.0000575	mg/L	0.0002
Acenaphthylene		<0.0000963	mg/L	0.0002
Acenaphthene		<0.0000617	mg/L	0.0002
Dibenzofuran		<0.0000952	mg/L	0.0002
Fluorene		<0.000134	mg/L	0.0002
Anthracene		<0.000441	mg/L	0.0002
Phenanthrene		<0.000435	mg/L	0.0002
Fluoranthene		<0.000476	mg/L	0.0002
Pyrene		<0.000590	mg/L	0.0002

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Benzo(a)anthracene		<0.000118	mg/L	0.0002
Chrysene		<0.0000766	mg/L	0.0002
Benzo(b)fluoranthene		<0.000146	mg/L	0.0002
Benzo(k)fluoranthene		<0.000141	mg/L	0.0002
Benzo(a)pyrene		<0.000132	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000702	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000534	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000473	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0685	mg/L	1	0.0800	86	25.9 - 97.5
2-Fluorobiphenyl		0.0649	mg/L	1	0.0800	81	13.9 - 100
Terphenyl-d14		0.0595	mg/L	1	0.0800	74	37.7 - 114

Method Blank (1) QC Batch: 62932

QC Batch: 62932 | Date Analyzed: 2009-08-26 | Analyzed By: ME
Prep Batch: 53711 | QC Preparation: 2009-08-26 | Prepared By: ME

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)		0.102	mg/L	1	0.100	102	85.4 - 105.2
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	52.8 - 124.2

Method Blank (1) QC Batch: 62933

QC Batch: 62933 | Date Analyzed: 2009-08-26 | Analyzed By: ME
Prep Batch: 53711 | QC Preparation: 2009-08-26 | Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
GRO		<0.0351	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0972	mg/L	1	0.100	97	70 - 130
4-Bromofluorobenzene (4-BFB)		0.117	mg/L	1	0.100	117	70 - 130

Method Blank (1) QC Batch: 63034

QC Batch: 63034 | Date Analyzed: 2009-08-28 | Analyzed By: MN
Prep Batch: 53804 | QC Preparation: 2009-08-25 | Prepared By: MN

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000784	mg/L	0.0002
2-Methylnaphthalene		<0.0000747	mg/L	0.0002
1-Methylnaphthalene		<0.0000575	mg/L	0.0002
Acenaphthylene		<0.0000963	mg/L	0.0002
Acenaphthene		<0.0000617	mg/L	0.0002
Dibenzofuran		<0.0000952	mg/L	0.0002
Fluorene		<0.000134	mg/L	0.0002
Anthracene		<0.000441	mg/L	0.0002
Phenanthrene		<0.000435	mg/L	0.0002
Fluoranthene		<0.000476	mg/L	0.0002
Pyrene		<0.000590	mg/L	0.0002
Benzo(a)anthracene		<0.000118	mg/L	0.0002
Chrysene		<0.0000766	mg/L	0.0002
Benzo(b)fluoranthene		<0.000146	mg/L	0.0002
Benzo(k)fluoranthene		<0.000141	mg/L	0.0002
Benzo(a)pyrene		<0.000132	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000702	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000534	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000473	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0248	mg/L	1	0.0800	31	25.9 - 97.5
2-Fluorobiphenyl		0.0237	mg/L	1	0.0800	30	13.9 - 100
Terphenyl-d14		0.0409	mg/L	1	0.0800	51	37.7 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 62673 | Date Analyzed: 2009-08-19 | Analyzed By: kg
Prep Batch: 53479 | QC Preparation: 2009-08-19 | Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	21.3	mg/L	1	25.0	<0.801	85	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	21.4	mg/L	1	25.0	<0.801	86	70 - 130	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
n-Triacontane	11.3	11.5	mg/L	1	10.0	113	115	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 62691 | Date Analyzed: 2009-08-19 | Analyzed By: ME
Prep Batch: 53498 | QC Preparation: 2009-08-19 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.103	mg/L	1	0.100	<0.00110	103	74.3 - 123.4
Toluene	0.101	mg/L	1	0.100	<0.00100	101	70.1 - 126.2
Ethylbenzene	0.0976	mg/L	1	0.100	<0.00100	98	68.6 - 124.7
Xylene	0.292	mg/L	1	0.300	<0.00290	97	64.8 - 127.2

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	0.103	mg/L	1	0.100	<0.00110	103	74.3 - 123.4	0	20
Toluene	0.103	mg/L	1	0.100	<0.00100	103	70.1 - 126.2	2	20
Ethylbenzene	0.103	mg/L	1	0.100	<0.00100	103	68.6 - 124.7	5	20
Xylene	0.310	mg/L	1	0.300	<0.00290	103	64.8 - 127.2	6	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)	0.100	0.0985	mg/L	1	0.100	100	98	84.8 - 110.8
4-Bromofluorobenzene (4-BFB)	0.101	0.105	mg/L	1	0.100	101	105	51.7 - 134.7

Laboratory Control Spike (LCS-1)

QC Batch: 62692 | Date Analyzed: 2009-08-19 | Analyzed By: ME
Prep Batch: 53498 | QC Preparation: 2009-08-19 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	0.799	mg/L	1	1.00	<0.0351	80	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	0.822	mg/L	1	1.00	<0.0351	82	70 - 130	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)	0.101	0.0976	mg/L	1	0.100	101	98	70 - 130
4-Bromofluorobenzene (4-BFB)	0.117	0.112	mg/L	1	0.100	117	112	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 62720 | Date Analyzed: 2009-08-20 | Analyzed By: ME
Prep Batch: 53520 | QC Preparation: 2009-08-20 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.108	mg/L	1	0.100	<0.00110	108	74.3 - 123.4
Toluene	0.107	mg/L	1	0.100	<0.00100	107	70.1 - 126.2
Ethylbenzene	0.105	mg/L	1	0.100	<0.00100	105	68.6 - 124.7
Xylene	0.319	mg/L	1	0.300	<0.00290	106	64.8 - 127.2

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	0.110	mg/L	1	0.100	<0.00110	110	74.3 - 123.4	2	20
Toluene	0.110	mg/L	1	0.100	<0.00100	110	70.1 - 126.2	3	20
Ethylbenzene	0.110	mg/L	1	0.100	<0.00100	110	68.6 - 124.7	5	20
Xylene	0.337	mg/L	1	0.300	<0.00290	112	64.8 - 127.2	6	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)	0.101	0.102	mg/L	1	0.100	101	102	84.8 - 110.8
4-Bromofluorobenzene (4-BFB)	0.118	0.116	mg/L	1	0.100	118	116	51.7 - 134.7

Laboratory Control Spike (LCS-1)

QC Batch: 62721 | Date Analyzed: 2009-08-20 | Analyzed By: ME
Prep Batch: 53520 | QC Preparation: 2009-08-20 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	0.888	mg/L	1	1.00	<0.0351	89	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	0.902	mg/L	1	1.00	<0.0351	90	70 - 130	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.101	0.100	mg/L	1	0.100	101	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.127	0.130	mg/L	1	0.100	127	130	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 62869 | Date Analyzed: 2009-08-25 | Analyzed By: ME
Prep Batch: 53658 | QC Preparation: 2009-08-25 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0906	mg/L	1	0.100	<0.00110	91	74.3 - 123.4
Toluene	0.0902	mg/L	1	0.100	<0.00100	90	70.1 - 126.2
Ethylbenzene	0.0907	mg/L	1	0.100	<0.00100	91	68.6 - 124.7
Xylene	0.272	mg/L	1	0.300	<0.00290	91	64.8 - 127.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.102	mg/L	1	0.100	<0.00110	102	74.3 - 123.4	12	20
Toluene	0.103	mg/L	1	0.100	<0.00100	103	70.1 - 126.2	13	20
Ethylbenzene	0.105	mg/L	1	0.100	<0.00100	105	68.6 - 124.7	15	20
Xylene	0.315	mg/L	1	0.300	<0.00290	105	64.8 - 127.2	15	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)	0.0981	0.0994	mg/L	1	0.100	98	99	84.8 - 110.8
4-Bromofluorobenzene (4-BFB)	0.103	0.103	mg/L	1	0.100	103	103	51.7 - 134.7

Laboratory Control Spike (LCS-1)

QC Batch: 62896 | Date Analyzed: 2009-08-26 | Analyzed By: MN
Prep Batch: 53688 | QC Preparation: 2009-08-19 | Prepared By: MN

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0361	mg/L	1	0.0800	<0.0000784	45	22.2 - 87.9
2-Methylnaphthalene	0.0380	mg/L	1	0.0800	<0.0000747	48	23.3 - 86.1
1-Methylnaphthalene	0.0383	mg/L	1	0.0800	<0.0000575	48	24.6 - 87.8
Acenaphthylene	0.0455	mg/L	1	0.0800	<0.0000963	57	27.4 - 114
Acenaphthene	0.0452	mg/L	1	0.0800	<0.0000617	56	27.2 - 111
Dibenzofuran	0.0427	mg/L	1	0.0800	<0.0000952	53	27.3 - 100
Fluorene	0.0522	mg/L	1	0.0800	<0.000134	65	31.5 - 122
Anthracene	0.0474	mg/L	1	0.0800	<0.000441	59	32.4 - 115
Phenanthrene	0.0516	mg/L	1	0.0800	<0.000435	64	34.2 - 111
Fluoranthene	0.0567	mg/L	1	0.0800	<0.000476	71	40.1 - 114
Pyrene	0.0543	mg/L	1	0.0800	<0.000590	68	39.2 - 124
Benzo(a)anthracene	0.0500	mg/L	1	0.0800	<0.000118	62	39.4 - 114
Chrysene	0.0530	mg/L	1	0.0800	<0.0000766	66	38.2 - 116
Benzo(b)fluoranthene	0.0627	mg/L	1	0.0800	<0.000146	78	34.5 - 118
Benzo(k)fluoranthene	0.0632	mg/L	1	0.0800	<0.000141	79	38.7 - 133
Benzo(a)pyrene	0.0706	mg/L	1	0.0800	<0.000132	88	38 - 134
Indeno(1,2,3-cd)pyrene	0.0579	mg/L	1	0.0800	<0.0000702	72	34.6 - 124
Dibenzo(a,h)anthracene	0.0592	mg/L	1	0.0800	<0.0000534	74	33.9 - 120
Benzo(g,h,i)perylene	0.0572	mg/L	1	0.0800	<0.0000473	72	33.8 - 138

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
Naphthalene	0.0367	mg/L	1	0.0800	<0.0000784	46	22.2 - 87.9	2	20
2-Methylnaphthalene	0.0385	mg/L	1	0.0800	<0.0000747	48	23.3 - 86.1	1	20
1-Methylnaphthalene	0.0396	mg/L	1	0.0800	<0.0000575	50	24.6 - 87.8	3	20
Acenaphthylene	0.0448	mg/L	1	0.0800	<0.0000963	56	27.4 - 114	2	20
Acenaphthene	0.0446	mg/L	1	0.0800	<0.0000617	56	27.2 - 111	1	20
Dibenzofuran	0.0418	mg/L	1	0.0800	<0.0000952	52	27.3 - 100	2	20
Fluorene	0.0514	mg/L	1	0.0800	<0.000134	64	31.5 - 122	2	20
Anthracene	0.0453	mg/L	1	0.0800	<0.000441	57	32.4 - 115	4	20
Phenanthrene	0.0505	mg/L	1	0.0800	<0.000435	63	34.2 - 111	2	20
Fluoranthene	0.0560	mg/L	1	0.0800	<0.000476	70	40.1 - 114	1	20
Pyrene	0.0535	mg/L	1	0.0800	<0.000590	67	39.2 - 124	2	20
Benzo(a)anthracene	0.0503	mg/L	1	0.0800	<0.000118	63	39.4 - 114	1	20
Chrysene	0.0523	mg/L	1	0.0800	<0.0000766	65	38.2 - 116	1	20
Benzo(b)fluoranthene	0.0543	mg/L	1	0.0800	<0.000146	68	34.5 - 118	14	20
Benzo(k)fluoranthene	0.0609	mg/L	1	0.0800	<0.000141	76	38.7 - 133	4	20
Benzo(a)pyrene	0.0707	mg/L	1	0.0800	<0.000132	88	38 - 134	0	20
Indeno(1,2,3-cd)pyrene	0.0577	mg/L	1	0.0800	<0.0000702	72	34.6 - 124	0	20
Dibenzo(a,h)anthracene	0.0584	mg/L	1	0.0800	<0.0000534	73	33.9 - 120	1	20
Benzo(g,h,i)perylene	0.0581	mg/L	1	0.0800	<0.0000473	73	33.8 - 138	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
Nitrobenzene-d5	0.0405	0.0392	mg/L	1	0.0800	51	49	25.9 - 97.5
2-Fluorobiphenyl	0.0378	0.0377	mg/L	1	0.0800	47	47	13.9 - 100
Terphenyl-d14	0.0520	0.0508	mg/L	1	0.0800	65	64	37.7 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 62932 | Date Analyzed: 2009-08-26 | Analyzed By: ME
Prep Batch: 53711 | QC Preparation: 2009-08-26 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.113	mg/L	1	0.100	<0.00110	113	74.3 - 123.4
Toluene	0.113	mg/L	1	0.100	<0.00100	113	70.1 - 126.2
Ethylbenzene	0.112	mg/L	1	0.100	<0.00100	112	68.6 - 124.7
Xylene	0.340	mg/L	1	0.300	<0.00290	113	64.8 - 127.2

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	0.110	mg/L	1	0.100	<0.00110	110	74.3 - 123.4	3	20
Toluene	0.111	mg/L	1	0.100	<0.00100	111	70.1 - 126.2	2	20
Ethylbenzene	0.113	mg/L	1	0.100	<0.00100	113	68.6 - 124.7	1	20
Xylene	0.342	mg/L	1	0.300	<0.00290	114	64.8 - 127.2	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)	0.104	0.103	mg/L	1	0.100	104	103	84.8 - 110.8
4-Bromofluorobenzene (4-BFB)	0.116	0.113	mg/L	1	0.100	116	113	51.7 - 134.7

Laboratory Control Spike (LCS-1)

QC Batch: 62933 | Date Analyzed: 2009-08-26 | Analyzed By: ME
Prep Batch: 53711 | QC Preparation: 2009-08-26 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	0.887	mg/L	1	1.00	<0.0351	89	70 - 130

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
GRO	0.925	mg/L	1	1.00	<0.0351	92	70 - 130	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0981	0.101	mg/L	1	0.100	98	101	70 - 130
4-Bromofluorobenzene (4-BFB)	0.129	0.128	mg/L	1	0.100	129	128	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 63034 | Date Analyzed: 2009-08-28 | Analyzed By: MN
Prep Batch: 53804 | QC Preparation: 2009-08-25 | Prepared By: MN

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0272	mg/L	1	0.0800	<0.0000784	34	22.2 - 87.9
2-Methylnaphthalene	0.0313	mg/L	1	0.0800	<0.0000747	39	23.3 - 86.1
1-Methylnaphthalene	0.0321	mg/L	1	0.0800	<0.0000575	40	24.6 - 87.8
Acenaphthylene	0.0408	mg/L	1	0.0800	<0.0000963	51	27.4 - 114
Acenaphthene	0.0403	mg/L	1	0.0800	<0.0000617	50	27.2 - 111
Dibenzofuran	0.0388	mg/L	1	0.0800	<0.0000952	48	27.3 - 100
Fluorene	0.0480	mg/L	1	0.0800	<0.000134	60	31.5 - 122
Anthracene	0.0512	mg/L	1	0.0800	<0.000441	64	32.4 - 115
Phenanthrene	0.0491	mg/L	1	0.0800	<0.000435	61	34.2 - 111
Fluoranthene	0.0561	mg/L	1	0.0800	<0.000476	70	40.1 - 114
Pyrene	0.0503	mg/L	1	0.0800	<0.000590	63	39.2 - 124
Benzo(a)anthracene	0.0497	mg/L	1	0.0800	<0.000118	62	39.4 - 114
Chrysene	0.0506	mg/L	1	0.0800	<0.0000766	63	38.2 - 116
Benzo(b)fluoranthene	0.0556	mg/L	1	0.0800	<0.000146	70	34.5 - 118
Benzo(k)fluoranthene	0.0631	mg/L	1	0.0800	<0.000141	79	38.7 - 133
Benzo(a)pyrene	0.0668	mg/L	1	0.0800	<0.000132	84	38 - 134
Indeno(1,2,3-cd)pyrene	0.0567	mg/L	1	0.0800	<0.0000702	71	34.6 - 124
Dibenzo(a,h)anthracene	0.0555	mg/L	1	0.0800	<0.0000534	69	33.9 - 120
Benzo(g,h,i)perylene	0.0562	mg/L	1	0.0800	<0.0000473	70	33.8 - 138

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
Naphthalene	0.0265	mg/L	1	0.0800	<0.0000784	33	22.2 - 87.9	3	20
2-Methylnaphthalene	0.0303	mg/L	1	0.0800	<0.0000747	38	23.3 - 86.1	3	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1-Methylnaphthalene	0.0312	mg/L	1	0.0800	<0.0000575	39	24.6 - 87.8	3	20
Acenaphthylene	0.0396	mg/L	1	0.0800	<0.0000963	50	27.4 - 114	3	20
Acenaphthene	0.0387	mg/L	1	0.0800	<0.0000617	48	27.2 - 111	4	20
Dibenzofuran	0.0378	mg/L	1	0.0800	<0.0000952	47	27.3 - 100	3	20
Fluorene	0.0460	mg/L	1	0.0800	<0.000134	58	31.5 - 122	4	20
Anthracene	0.0507	mg/L	1	0.0800	<0.000441	63	32.4 - 115	1	20
Phenanthrene	0.0484	mg/L	1	0.0800	<0.000435	60	34.2 - 111	1	20
Fluoranthene	0.0548	mg/L	1	0.0800	<0.000476	68	40.1 - 114	2	20
Pyrene	0.0501	mg/L	1	0.0800	<0.000590	63	39.2 - 124	0	20
Benzo(a)anthracene	0.0493	mg/L	1	0.0800	<0.000118	62	39.4 - 114	1	20
Chrysene	0.0504	mg/L	1	0.0800	<0.0000766	63	38.2 - 116	0	20
Benzo(b)fluoranthene	0.0540	mg/L	1	0.0800	<0.000146	68	34.5 - 118	3	20
Benzo(k)fluoranthene	0.0692	mg/L	1	0.0800	<0.000141	86	38.7 - 133	9	20
Benzo(a)pyrene	0.0659	mg/L	1	0.0800	<0.000132	82	38 - 134	1	20
Indeno(1,2,3-cd)pyrene	0.0560	mg/L	1	0.0800	<0.0000702	70	34.6 - 124	1	20
Dibenzo(a,h)anthracene	0.0553	mg/L	1	0.0800	<0.0000534	69	33.9 - 120	0	20
Benzo(g,h,i)perylene	0.0556	mg/L	1	0.0800	<0.0000473	70	33.8 - 138	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
Nitrobenzene-d5	0.0325	0.0319	mg/L	1	0.0800	41	40	25.9 - 97.5
2-Fluorobiphenyl	0.0322	0.0311	mg/L	1	0.0800	40	39	13.9 - 100
Terphenyl-d14	0.0506	0.0505	mg/L	1	0.0800	63	63	37.7 - 114

Matrix Spike (MS-1) Spiked Sample: 206454

QC Batch: 62673 | Date Analyzed: 2009-08-19 | Analyzed By: kg
Prep Batch: 53479 | QC Preparation: 2009-08-19 | Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	30.4	mg/L	1	25.0	<0.801	122	70 - 130

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO [44]	23.8	mg/L	1	25.0	<0.801	95	70 - 130	24	20

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

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	11.2	11.0	mg/L	1	10	112	110	70 - 130

Matrix Spike (MS-1) Spiked Sample: 206445

QC Batch: 62691 | Date Analyzed: 2009-08-19 | Analyzed By: ME
Prep Batch: 53498 | QC Preparation: 2009-08-19 | Prepared By: ME

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		20.1	mg/L	50	5.00	14.5233	112	61 - 130
Toluene	[45]	18.7	mg/L	50	5.00	12.1245	132	69.2 - 121.4
Ethylbenzene		7.43	mg/L	50	5.00	1.8043	112	56.3 - 124.9
Xylene		20.8	mg/L	50	15.0	4.3404	110	60.2 - 122.9

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		20.3	mg/L	50	5.00	14.5233	116	61 - 130	1	20
Toluene	[46]	18.8	mg/L	50	5.00	12.1245	134	69.2 - 121.4	0	20
Ethylbenzene		8.00	mg/L	50	5.00	1.8043	124	56.3 - 124.9	7	20
Xylene		22.6	mg/L	50	15.0	4.3404	122	60.2 - 122.9	8	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	4.86	4.88	mg/L	50	5	97	98	85.6 - 108.1
4-Bromofluorobenzene (4-BFB)	5.67	5.82	mg/L	50	5	113	116	53.7 - 127.3

Matrix Spike (MS-1) Spiked Sample: 206454

QC Batch: 62720 | Date Analyzed: 2009-08-20 | Analyzed By: ME
Prep Batch: 53520 | QC Preparation: 2009-08-20 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	7.39	mg/L	20	2.00	5.5202	93	61 - 130
Toluene	7.00	mg/L	20	2.00	5.3749	81	69.2 - 121.4
Ethylbenzene	3.01	mg/L	20	2.00	1.0375	99	56.3 - 124.9
Xylene	8.68	mg/L	20	6.00	2.6409	101	60.2 - 122.9

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

[45] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[46] MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	7.43	mg/L	20	2.00	5.5202	95	61 - 130	0	20
Toluene	7.12	mg/L	20	2.00	5.3749	72	69.2 - 121.4	2	20
Ethylbenzene	3.16	mg/L	20	2.00	1.0375	106	56.3 - 124.9	5	20
Xylene	9.17	mg/L	20	6.00	2.6409	109	60.2 - 122.9	6	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.03	2.00	mg/L	20	2	102	100	85.6 - 108.1
4-Bromofluorobenzene (4-BFB)	2.48	2.53	mg/L	20	2	124	126	53.7 - 127.3

Matrix Spike (MS-1) Spiked Sample: 206707

QC Batch: 62869 | Date Analyzed: 2009-08-25 | Analyzed By: ME
Prep Batch: 53658 | QC Preparation: 2009-08-25 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	11.9	mg/L	50	5.00	7.99	78	61 - 130
Toluene	5.14	mg/L	50	5.00	0.971	83	69.2 - 121.4
Ethylbenzene	4.72	mg/L	50	5.00	0.6066	82	56.3 - 124.9
Xylene	12.2	mg/L	50	15.0	0.6562	77	60.2 - 122.9

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	12.3	mg/L	50	5.00	7.99	86	61 - 130	3	20
Toluene	5.18	mg/L	50	5.00	0.971	84	69.2 - 121.4	1	20
Ethylbenzene	4.84	mg/L	50	5.00	0.6066	85	56.3 - 124.9	2	20
Xylene	12.6	mg/L	50	15.0	0.6562	80	60.2 - 122.9	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)	4.82	4.72	mg/L	50	5	96	94	85.6 - 108.1
4-Bromofluorobenzene (4-BFB)	3.34	3.36	mg/L	50	5	67	67	53.7 - 127.3

Matrix Spike (MS-1) Spiked Sample: 206721

QC Batch: 62932 | Date Analyzed: 2009-08-26 | Analyzed By: ME
Prep Batch: 53711 | QC Preparation: 2009-08-26 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene [47]	16.3	mg/L	50	5.00	13.5107	56	61 - 130
Toluene	14.9	mg/L	50	5.00	10.5172	88	69.2 - 121.4
Ethylbenzene	5.12	mg/L	50	5.00	1.3774	75	56.3 - 124.9
Xylene	15.4	mg/L	50	15.0	3.9157	76	60.2 - 122.9

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	16.9	mg/L	50	5.00	13.5107	68	61 - 130	4	20
Toluene	14.3	mg/L	50	5.00	10.5172	76	69.2 - 121.4	4	20
Ethylbenzene	5.30	mg/L	50	5.00	1.3774	78	56.3 - 124.9	3	20
Xylene	15.7	mg/L	50	15.0	3.9157	78	60.2 - 122.9	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)	5.02	5.01	mg/L	50	5	100	100	85.6 - 108.1
4-Bromofluorobenzene (4-BFB)	5.03	4.81	mg/L	50	5	101	96	53.7 - 127.3

Standard (CCV-1)

QC Batch: 62673 Date Analyzed: 2009-08-19 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	222	89	80 - 120	2009-08-19

Standard (CCV-2)

QC Batch: 62673 Date Analyzed: 2009-08-19 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	217	87	80 - 120	2009-08-19

Standard (CCV-3)

QC Batch: 62673 Date Analyzed: 2009-08-19 Analyzed By: kg

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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	209	84	80 - 120	2009-08-19

Standard (CCV-1)

QC Batch: 62691 Date Analyzed: 2009-08-19 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.101	101	80 - 120	2009-08-19
Toluene		mg/L	0.100	0.101	101	80 - 120	2009-08-19
Ethylbenzene		mg/L	0.100	0.102	102	80 - 120	2009-08-19
Xylene		mg/L	0.300	0.308	103	80 - 120	2009-08-19

Standard (CCV-2)

QC Batch: 62691 Date Analyzed: 2009-08-19 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.103	103	80 - 120	2009-08-19
Toluene		mg/L	0.100	0.103	103	80 - 120	2009-08-19
Ethylbenzene		mg/L	0.100	0.0993	99	80 - 120	2009-08-19
Xylene		mg/L	0.300	0.302	101	80 - 120	2009-08-19

Standard (CCV-1)

QC Batch: 62692 Date Analyzed: 2009-08-19 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.03	103	80 - 120	2009-08-19

Standard (CCV-2)

QC Batch: 62692 Date Analyzed: 2009-08-19 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.03	103	80 - 120	2009-08-19

Standard (CCV-1)

QC Batch: 62720 Date Analyzed: 2009-08-20 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.110	110	80 - 120	2009-08-20
Toluene		mg/L	0.100	0.111	111	80 - 120	2009-08-20
Ethylbenzene		mg/L	0.100	0.110	110	80 - 120	2009-08-20
Xylene		mg/L	0.300	0.338	113	80 - 120	2009-08-20

Standard (CCV-2)

QC Batch: 62720 Date Analyzed: 2009-08-20 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.109	109	80 - 120	2009-08-20
Toluene		mg/L	0.100	0.110	110	80 - 120	2009-08-20
Ethylbenzene		mg/L	0.100	0.107	107	80 - 120	2009-08-20
Xylene		mg/L	0.300	0.328	109	80 - 120	2009-08-20

Standard (CCV-1)

QC Batch: 62721 Date Analyzed: 2009-08-20 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.08	108	80 - 120	2009-08-20

Standard (CCV-2)

QC Batch: 62721 Date Analyzed: 2009-08-20 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.12	112	80 - 120	2009-08-20

Standard (CCV-1)

QC Batch: 62869 Date Analyzed: 2009-08-25 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0854	85	80 - 120	2009-08-25
Toluene		mg/L	0.100	0.0858	86	80 - 120	2009-08-25
Ethylbenzene		mg/L	0.100	0.0878	88	80 - 120	2009-08-25
Xylene		mg/L	0.300	0.263	88	80 - 120	2009-08-25

Standard (CCV-2)

QC Batch: 62869 Date Analyzed: 2009-08-25 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0979	98	80 - 120	2009-08-25
Toluene		mg/L	0.100	0.0976	98	80 - 120	2009-08-25
Ethylbenzene		mg/L	0.100	0.0973	97	80 - 120	2009-08-25
Xylene		mg/L	0.300	0.283	94	80 - 120	2009-08-25

Standard (CCV-2)

QC Batch: 62896 Date Analyzed: 2009-08-26 Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	58.0	97	80 - 120	2009-08-26
2-Methylnaphthalene		mg/L	60.0	61.7	103	80 - 120	2009-08-26
1-Methylnaphthalene		mg/L	60.0	61.3	102	80 - 120	2009-08-26
Acenaphthylene		mg/L	60.0	59.1	98	80 - 120	2009-08-26
Acenaphthene		mg/L	60.0	58.6	98	80 - 120	2009-08-26
Dibenzofuran		mg/L	60.0	61.0	102	80 - 120	2009-08-26
Fluorene		mg/L	60.0	64.0	107	80 - 120	2009-08-26
Anthracene		mg/L	60.0	59.8	100	80 - 120	2009-08-26
Phenanthrene		mg/L	60.0	57.3	96	80 - 120	2009-08-26

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoranthene		mg/L	60.0	56.9	95	80 - 120	2009-08-26
Pyrene		mg/L	60.0	58.6	98	80 - 120	2009-08-26
Benzo(a)anthracene		mg/L	60.0	56.7	94	80 - 120	2009-08-26
Chrysene		mg/L	60.0	56.4	94	80 - 120	2009-08-26
Benzo(b)fluoranthene		mg/L	60.0	55.5	92	80 - 120	2009-08-26
Benzo(k)fluoranthene		mg/L	60.0	70.9	118	80 - 120	2009-08-26
Benzo(a)pyrene		mg/L	60.0	69.9	116	80 - 120	2009-08-26
Indeno(1,2,3-cd)pyrene		mg/L	60.0	58.4	97	80 - 120	2009-08-26
Dibenzo(a,h)anthracene		mg/L	60.0	59.7	100	80 - 120	2009-08-26
Benzo(g,h,i)perylene		mg/L	60.0	57.8	96	80 - 120	2009-08-26

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		61.8	mg/L	1	60.0	103	80 - 120
2-Fluorobiphenyl		55.6	mg/L	1	60.0	93	80 - 120
Terphenyl-d14		55.7	mg/L	1	60.0	93	80 - 120

Standard (CCV-1)

QC Batch: 62932 Date Analyzed: 2009-08-26 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.108	108	80 - 120	2009-08-26
Toluene		mg/L	0.100	0.108	108	80 - 120	2009-08-26
Ethylbenzene		mg/L	0.100	0.109	109	80 - 120	2009-08-26
Xylene		mg/L	0.300	0.333	111	80 - 120	2009-08-26

Standard (CCV-2)

QC Batch: 62932 Date Analyzed: 2009-08-26 Analyzed By: ME

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	80 - 120	2009-08-26
Toluene		mg/L	0.100	0.102	102	80 - 120	2009-08-26
Ethylbenzene		mg/L	0.100	0.100	100	80 - 120	2009-08-26
Xylene		mg/L	0.300	0.299	100	80 - 120	2009-08-26

Standard (CCV-1)

QC Batch: 62933 Date Analyzed: 2009-08-26 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.06	106	80 - 120	2009-08-26

Standard (CCV-2)

QC Batch: 62933 Date Analyzed: 2009-08-26 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.990	99	80 - 120	2009-08-26

Standard (CCV-1)

QC Batch: 63034 Date Analyzed: 2009-08-28 Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	56.9	95	80 - 120	2009-08-28
2-Methylnaphthalene		mg/L	60.0	62.5	104	80 - 120	2009-08-28
1-Methylnaphthalene		mg/L	60.0	61.8	103	80 - 120	2009-08-28
Acenaphthylene		mg/L	60.0	58.5	98	80 - 120	2009-08-28
Acenaphthene		mg/L	60.0	58.6	98	80 - 120	2009-08-28
Dibenzofuran		mg/L	60.0	60.6	101	80 - 120	2009-08-28
Fluorene		mg/L	60.0	64.0	107	80 - 120	2009-08-28
Anthracene		mg/L	60.0	58.7	98	80 - 120	2009-08-28
Phenanthrene		mg/L	60.0	57.1	95	80 - 120	2009-08-28
Fluoranthene		mg/L	60.0	57.2	95	80 - 120	2009-08-28
Pyrene		mg/L	60.0	57.9	96	80 - 120	2009-08-28
Benzo(a)anthracene		mg/L	60.0	56.1	94	80 - 120	2009-08-28
Chrysene		mg/L	60.0	55.6	93	80 - 120	2009-08-28
Benzo(b)fluoranthene		mg/L	60.0	58.8	98	80 - 120	2009-08-28
Benzo(k)fluoranthene		mg/L	60.0	59.8	100	80 - 120	2009-08-28
Benzo(a)pyrene		mg/L	60.0	70.3	117	80 - 120	2009-08-28
Indeno(1,2,3-cd)pyrene		mg/L	60.0	59.4	99	80 - 120	2009-08-28
Dibenzo(a,h)anthracene		mg/L	60.0	59.5	99	80 - 120	2009-08-28
Benzo(g,h,i)perylene		mg/L	60.0	58.0	97	80 - 120	2009-08-28

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		61.4	mg/L	1	60.0	102	80 - 120
2-Fluorobiphenyl		56.3	mg/L	1	60.0	94	80 - 120
Terphenyl-d14		54.6	mg/L	1	60.0	91	80 - 120

Standard (CCV-2)

QC Batch: 63034 Date Analyzed: 2009-08-28 Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	58.8	98	80 - 120	2009-08-28
2-Methylnaphthalene		mg/L	60.0	71.0	118	80 - 120	2009-08-28
1-Methylnaphthalene		mg/L	60.0	71.3	119	80 - 120	2009-08-28
Acenaphthylene		mg/L	60.0	60.4	101	80 - 120	2009-08-28
Acenaphthene		mg/L	60.0	60.1	100	80 - 120	2009-08-28
Dibenzofuran		mg/L	60.0	61.4	102	80 - 120	2009-08-28
Fluorene		mg/L	60.0	64.8	108	80 - 120	2009-08-28
Anthracene		mg/L	60.0	59.9	100	80 - 120	2009-08-28
Phenanthrene		mg/L	60.0	57.1	95	80 - 120	2009-08-28
Fluoranthene		mg/L	60.0	55.5	92	80 - 120	2009-08-28
Pyrene		mg/L	60.0	60.7	101	80 - 120	2009-08-28
Benzo(a)anthracene		mg/L	60.0	55.3	92	80 - 120	2009-08-28
Chrysene		mg/L	60.0	56.2	94	80 - 120	2009-08-28
Benzo(b)fluoranthene		mg/L	60.0	56.6	94	80 - 120	2009-08-28
Benzo(k)fluoranthene		mg/L	60.0	69.3	116	80 - 120	2009-08-28
Benzo(a)pyrene		mg/L	60.0	67.5	112	80 - 120	2009-08-28
Indeno(1,2,3-cd)pyrene		mg/L	60.0	55.7	93	80 - 120	2009-08-28
Dibenzo(a,h)anthracene		mg/L	60.0	56.6	94	80 - 120	2009-08-28
Benzo(g,h,i)perylene		mg/L	60.0	55.0	92	80 - 120	2009-08-28

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		61.6	mg/L	1	60.0	103	80 - 120
2-Fluorobiphenyl		58.8	mg/L	1	60.0	98	80 - 120
Terphenyl-d14		57.0	mg/L	1	60.0	95	80 - 120

LAB Order # 9081901 Page 1 of 1

TraceAnalysis, Inc.

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Company Name: TALON LPE | Phone #: 432-522-2122

Address: (Street, City, Zip) RANKIN HWY MIDLAND TX | Fax #:

Contact Person: SHANNA Smith | E-mail: SSmith@TALONLPE.com

Invoice to: (If different from above) PLAINS JASON HENRY | MOVE TO JAL #1

Project #: 700376.605.01 SR# 2002-10270 | Project Name:

Project Location (including state): HOBBS, NM | Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 624	BTEX 8021B / 602 / 8260B / 624	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
445	MW-2	7		X				X				X		8/18/09	1436		X		X	X														
446	MW-3														1534																			
447	MW-4A														1326																			
448	MW-5														1456																			
449	MW-6														1402																			
450	MW-7														1340																			
451	MW-8														1352																			
452	MW-9														1415																			
453	MW-10														1426																			
454	MW-11														1510																			
455	MW-12														1523																			

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°C:
	TALON LPE	8/18/09	2000	Johnny Manquetion		8/19/09	8:00	
Johnny Manquetion		8/19/09	8:00		Trace	8/19/09	8:00	6.7°C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°C:

LAB USE ONLY: Intact (Y) N, Headspace (Y) N/A, Log-In Review

REMARKS: BTEX & TPH - Midland; PAH - Lubbock

- [ ] 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.

Carrier # Carry-in

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TRACEANALYSIS, INC.

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Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 **El Paso:** T104704221-08-TX LELAP-02002 **Midland:** T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: August 27, 2009

Work Order: 9081411

Project Location: Hobbs, N.M.
Project Name: Moore to Jal #1
Project Number: 700376.005.01
SRS#: 2002-10720

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
205966	MW-13	water	2009-08-13	14:22	2009-08-14
205967	MW-14	water	2009-08-13	13:42	2009-08-14
205968	MW-16	water	2009-08-13	13:34	2009-08-14
205969	MW-17	water	2009-08-13	14:08	2009-08-14
205970	MW-18	water	2009-08-13	14:01	2009-08-14
205971	MW-19	water	2009-08-13	13:55	2009-08-14
205972	MW-20	water	2009-08-13	13:20	2009-08-14

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 22 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

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

Case Narrative

Samples for project Moore to Jal #1 were received by TraceAnalysis, Inc. on 2009-08-14 and assigned to work order 9081411. Samples for work order 9081411 were received intact without headspace and at a temperature of 4.0 deg. C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	53460	2009-08-18 at 09:11	62649	2009-08-18 at 09:11
PAH	S 8270C	53688	2009-08-19 at 15:00	62896	2009-08-26 at 10:25
TPH DRO	Mod. 8015B	53426	2009-08-17 at 14:31	62607	2009-08-17 at 14:31
TPH GRO	S 8015B	53460	2009-08-18 at 09:11	62650	2009-08-18 at 09:11

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9081411 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 205966 - MW-13

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62649	Date Analyzed:	2009-08-18	Analyzed By:	ME
Prep Batch:	53460	Sample Preparation:	2009-08-18	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**5.22**		mg/L	50	0.00100
Toluene		**6.39**		mg/L	50	0.00100
Ethylbenzene		**1.24**		mg/L	50	0.00100
Xylene		**2.44**		mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.99	mg/L	50	5.00	100	87 - 105.2
4-Bromofluorobenzene (4-BFB)		5.81	mg/L	50	5.00	116	49.8 - 130.8

Sample: 205966 - MW-13

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	62896	Date Analyzed:	2009-08-26	Analyzed By:	MN
Prep Batch:	53688	Sample Preparation:	2009-08-19	Prepared By:	MN

Parameter	Flag	Result	RL	Units	Dilution	RL
Naphthalene		**0.114**		mg/L	4.608	0.000200
2-Methylnaphthalene		**0.332**		mg/L	4.608	0.000200
1-Methylnaphthalene		**0.306**		mg/L	4.608	0.000200
Acenaphthylene		<0.000922		mg/L	4.608	0.000200
Acenaphthene		<0.000922		mg/L	4.608	0.000200
Dibenzofuran		**0.0275**		mg/L	4.608	0.000200
Fluorene		<0.000922		mg/L	4.608	0.000200
Anthracene		<0.000922		mg/L	4.608	0.000200
Phenanthrene		**0.0500**		mg/L	4.608	0.000200
Fluoranthene		<0.000922		mg/L	4.608	0.000200
Pyrene		<0.000922		mg/L	4.608	0.000200
Benzo(a)anthracene		<0.000922		mg/L	4.608	0.000200
Chrysene		<0.000922		mg/L	4.608	0.000200
Benzo(b)fluoranthene		<0.000922		mg/L	4.608	0.000200
Benzo(k)fluoranthene		<0.000922		mg/L	4.608	0.000200
Benzo(a)pyrene		<0.000922		mg/L	4.608	0.000200

continued ...

sample 205966 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Indeno(1,2,3-cd)pyrene		<0.000922	mg/L	4.608	0.000200
Dibenzo(a,h)anthracene		<0.000922	mg/L	4.608	0.000200
Benzo(g,h,i)perylene		<0.000922	mg/L	4.608	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0465	mg/L	4.608	0.0800	58	25.9 - 97.5
2-Fluorobiphenyl		0.0396	mg/L	4.608	0.0800	50	13.9 - 100
Terphenyl-d14		0.0383	mg/L	4.608	0.0800	48	37.7 - 114

Sample: 205966 - MW-13

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62607	Date Analyzed:	2009-08-17	Analyzed By:	kg
Prep Batch:	53426	Sample Preparation:	2009-08-17	Prepared By:	kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**74.3**	mg/L	5	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[1]	16.1	mg/L	5	10.0	161	70 - 130

Sample: 205966 - MW-13

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	62650	Date Analyzed:	2009-08-18	Analyzed By:	ME
Prep Batch:	53460	Sample Preparation:	2009-08-18	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**34.2**	mg/L	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.92	mg/L	50	5.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)		6.49	mg/L	50	5.00	130	70 - 130

[1]High surrogate recovery due to peak interference.

Sample: 205967 - MW-14

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62649	Date Analyzed:	2009-08-18	Analyzed By:	ME
Prep Batch:	53460	Sample Preparation:	2009-08-18	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**1.79**	mg/L	20	0.00100
Toluene		<0.0200	mg/L	20	0.00100
Ethylbenzene		**0.0838**	mg/L	20	0.00100
Xylene		**0.174**	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.03	mg/L	20	2.00	102	87 - 105.2
4-Bromofluorobenzene (4-BFB)		2.22	mg/L	20	2.00	111	49.8 - 130.8

Sample: 205967 - MW-14

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	62896	Date Analyzed:	2009-08-26	Analyzed By:	MN
Prep Batch:	53688	Sample Preparation:	2009-08-19	Prepared By:	MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		**0.000895**	mg/L	0.922	0.000200
2-Methylnaphthalene		**0.000527**	mg/L	0.922	0.000200
1-Methylnaphthalene		**0.000773**	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0285	mg/L	0.922	0.0800	36	25.9 - 97.5
2-Fluorobiphenyl		0.0264	mg/L	0.922	0.0800	33	13.9 - 100
Terphenyl-d14		0.0408	mg/L	0.922	0.0800	51	37.7 - 114

Sample: 205968 - MW-16

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62649	Date Analyzed:	2009-08-18	Analyzed By:	ME
Prep Batch:	53460	Sample Preparation:	2009-08-18	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**22.7**	mg/L	100	0.00100
Toluene		**3.04**	mg/L	100	0.00100
Ethylbenzene		**1.05**	mg/L	100	0.00100
Xylene		**1.99**	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.88	mg/L	100	10.0	99	87 - 105.2
4-Bromofluorobenzene (4-BFB)		10.4	mg/L	100	10.0	104	49.8 - 130.8

Sample: 205968 - MW-16

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	62896	Date Analyzed:	2009-08-26	Analyzed By:	MN
Prep Batch:	53688	Sample Preparation:	2009-08-19	Prepared By:	MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		**0.0272**	mg/L	0.93	0.000200
2-Methylnaphthalene		**0.0183**	mg/L	0.93	0.000200
1-Methylnaphthalene		**0.0171**	mg/L	0.93	0.000200
Acenaphthylene		<0.000186	mg/L	0.93	0.000200
Acenaphthene		<0.000186	mg/L	0.93	0.000200
Dibenzofuran		**0.00110**	mg/L	0.93	0.000200
Fluorene		<0.000186	mg/L	0.93	0.000200
Anthracene		<0.000186	mg/L	0.93	0.000200
Phenanthrene		**0.00110**	mg/L	0.93	0.000200
Fluoranthene		<0.000186	mg/L	0.93	0.000200
Pyrene		<0.000186	mg/L	0.93	0.000200

continued ...

sample 205968 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(a)anthracene		<0.000186	mg/L	0.93	0.000200
Chrysene		<0.000186	mg/L	0.93	0.000200
Benzo(b)fluoranthene		<0.000186	mg/L	0.93	0.000200
Benzo(k)fluoranthene		<0.000186	mg/L	0.93	0.000200
Benzo(a)pyrene		<0.000186	mg/L	0.93	0.000200
Indeno(1,2,3-cd)pyrene		<0.000186	mg/L	0.93	0.000200
Dibenzo(a,h)anthracene		<0.000186	mg/L	0.93	0.000200
Benzo(g,h,i)perylene		<0.000186	mg/L	0.93	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0320	mg/L	0.93	0.0800	40	25.9 - 97.5
2-Fluorobiphenyl		0.0323	mg/L	0.93	0.0800	40	13.9 - 100
Terphenyl-d14		0.0502	mg/L	0.93	0.0800	63	37.7 - 114

Sample: 205969 - MW-17

Laboratory: Midland
Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5030B
QC Batch: 62649 | Date Analyzed: 2009-08-18 | Analyzed By: ME
Prep Batch: 53460 | Sample Preparation: 2009-08-18 | Prepared By: ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.112	mg/L	1	0.100	112	49.8 - 130.8

Sample: 205969 - MW-17

Laboratory: Lubbock
Analysis: PAH | Analytical Method: S 8270C | Prep Method: S 3510C
QC Batch: 62896 | Date Analyzed: 2009-08-26 | Analyzed By: MN
Prep Batch: 53688 | Sample Preparation: 2009-08-19 | Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000186	mg/L	0.93	0.000200
2-Methylnaphthalene		<0.000186	mg/L	0.93	0.000200
1-Methylnaphthalene		<0.000186	mg/L	0.93	0.000200
Acenaphthylene		<0.000186	mg/L	0.93	0.000200
Acenaphthene		<0.000186	mg/L	0.93	0.000200
Dibenzofuran		<0.000186	mg/L	0.93	0.000200
Fluorene		<0.000186	mg/L	0.93	0.000200
Anthracene		<0.000186	mg/L	0.93	0.000200
Phenanthrene		<0.000186	mg/L	0.93	0.000200
Fluoranthene		<0.000186	mg/L	0.93	0.000200
Pyrene		<0.000186	mg/L	0.93	0.000200
Benzo(a)anthracene		<0.000186	mg/L	0.93	0.000200
Chrysene		<0.000186	mg/L	0.93	0.000200
Benzo(b)fluoranthene		<0.000186	mg/L	0.93	0.000200
Benzo(k)fluoranthene		<0.000186	mg/L	0.93	0.000200
Benzo(a)pyrene		<0.000186	mg/L	0.93	0.000200
Indeno(1,2,3-cd)pyrene		<0.000186	mg/L	0.93	0.000200
Dibenzo(a,h)anthracene		<0.000186	mg/L	0.93	0.000200
Benzo(g,h,i)perylene		<0.000186	mg/L	0.93	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0244	mg/L	0.93	0.0800	30	25.9 - 97.5
2-Fluorobiphenyl		0.0233	mg/L	0.93	0.0800	29	13.9 - 100
Terphenyl-d14		0.0314	mg/L	0.93	0.0800	39	37.7 - 114

Sample: 205970 - MW-18

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62649	Date Analyzed:	2009-08-18	Analyzed By:	ME
Prep Batch:	53460	Sample Preparation:	2009-08-18	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	49.8 - 130.8

Sample: 205970 - MW-18

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	62896	Date Analyzed:	2009-08-26	Analyzed By:	MN
Prep Batch:	53688	Sample Preparation:	2009-08-19	Prepared By:	MN

Parameter	Flag	Result	RL	Units	Dilution	RL
Naphthalene		**0.000246**		mg/L	0.926	0.000200
2-Methylnaphthalene		<0.000185		mg/L	0.926	0.000200
1-Methylnaphthalene		<0.000185		mg/L	0.926	0.000200
Acenaphthylene		<0.000185		mg/L	0.926	0.000200
Acenaphthene		<0.000185		mg/L	0.926	0.000200
Dibenzofuran		<0.000185		mg/L	0.926	0.000200
Fluorene		<0.000185		mg/L	0.926	0.000200
Anthracene		<0.000185		mg/L	0.926	0.000200
Phenanthrene		<0.000185		mg/L	0.926	0.000200
Fluoranthene		<0.000185		mg/L	0.926	0.000200
Pyrene		<0.000185		mg/L	0.926	0.000200
Benzo(a)anthracene		<0.000185		mg/L	0.926	0.000200
Chrysene		<0.000185		mg/L	0.926	0.000200
Benzo(b)fluoranthene		<0.000185		mg/L	0.926	0.000200
Benzo(k)fluoranthene		<0.000185		mg/L	0.926	0.000200
Benzo(a)pyrene		<0.000185		mg/L	0.926	0.000200
Indeno(1,2,3-cd)pyrene		<0.000185		mg/L	0.926	0.000200
Dibenzo(a,h)anthracene		<0.000185		mg/L	0.926	0.000200
Benzo(g,h,i)perylene		<0.000185		mg/L	0.926	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0414	mg/L	0.926	0.0800	52	25.9 - 97.5
2-Fluorobiphenyl		0.0412	mg/L	0.926	0.0800	52	13.9 - 100
Terphenyl-d14		0.0490	mg/L	0.926	0.0800	61	37.7 - 114

Sample: 205971 - MW-19

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62649	Date Analyzed:	2009-08-18	Analyzed By:	ME
Prep Batch:	53460	Sample Preparation:	2009-08-18	Prepared By:	ME

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

continued ...

sample 205971 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0993	mg/L	1	0.100	99	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.107	mg/L	1	0.100	107	49.8 - 130.8

Sample: 205971 - MW-19

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	62896	Date Analyzed:	2009-08-26	Analyzed By:	MN
Prep Batch:	53688	Sample Preparation:	2009-08-19	Prepared By:	MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		**0.000205**	mg/L	0.939	0.000200
2-Methylnaphthalene		<0.000188	mg/L	0.939	0.000200
1-Methylnaphthalene		<0.000188	mg/L	0.939	0.000200
Acenaphthylene		<0.000188	mg/L	0.939	0.000200
Acenaphthene		<0.000188	mg/L	0.939	0.000200
Dibenzofuran		<0.000188	mg/L	0.939	0.000200
Fluorene		<0.000188	mg/L	0.939	0.000200
Anthracene		<0.000188	mg/L	0.939	0.000200
Phenanthrene		<0.000188	mg/L	0.939	0.000200
Fluoranthene		<0.000188	mg/L	0.939	0.000200
Pyrene		<0.000188	mg/L	0.939	0.000200
Benzo(a)anthracene		<0.000188	mg/L	0.939	0.000200
Chrysene		<0.000188	mg/L	0.939	0.000200
Benzo(b)fluoranthene		<0.000188	mg/L	0.939	0.000200
Benzo(k)fluoranthene		<0.000188	mg/L	0.939	0.000200
Benzo(a)pyrene		<0.000188	mg/L	0.939	0.000200
Indeno(1,2,3-cd)pyrene		<0.000188	mg/L	0.939	0.000200
Dibenzo(a,h)anthracene		<0.000188	mg/L	0.939	0.000200
Benzo(g,h,i)perylene		<0.000188	mg/L	0.939	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0424	mg/L	0.939	0.0800	53	25.9 - 97.5
2-Fluorobiphenyl		0.0413	mg/L	0.939	0.0800	52	13.9 - 100
Terphenyl-d14		0.0452	mg/L	0.939	0.0800	56	37.7 - 114

Sample: 205972 - MW-20

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62649	Date Analyzed:	2009-08-18	Analyzed By:	ME
Prep Batch:	53460	Sample Preparation:	2009-08-18	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0992	mg/L	1	0.100	99	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	49.8 - 130.8

Sample: 205972 - MW-20

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	62896	Date Analyzed:	2009-08-26	Analyzed By:	MN
Prep Batch:	53688	Sample Preparation:	2009-08-19	Prepared By:	MN

Parameter	Flag	Result	RL	Units	Dilution	RL
Naphthalene		**0.000362**		mg/L	0.93	0.000200
2-Methylnaphthalene		<0.000186		mg/L	0.93	0.000200
1-Methylnaphthalene		<0.000186		mg/L	0.93	0.000200
Acenaphthylene		<0.000186		mg/L	0.93	0.000200
Acenaphthene		<0.000186		mg/L	0.93	0.000200
Dibenzofuran		<0.000186		mg/L	0.93	0.000200
Fluorene		<0.000186		mg/L	0.93	0.000200
Anthracene		<0.000186		mg/L	0.93	0.000200
Phenanthrene		<0.000186		mg/L	0.93	0.000200
Fluoranthene		<0.000186		mg/L	0.93	0.000200
Pyrene		<0.000186		mg/L	0.93	0.000200
Benzo(a)anthracene		<0.000186		mg/L	0.93	0.000200
Chrysene		<0.000186		mg/L	0.93	0.000200
Benzo(b)fluoranthene		<0.000186		mg/L	0.93	0.000200
Benzo(k)fluoranthene		<0.000186		mg/L	0.93	0.000200
Benzo(a)pyrene		<0.000186		mg/L	0.93	0.000200
Indeno(1,2,3-cd)pyrene		<0.000186		mg/L	0.93	0.000200
Dibenzo(a,h)anthracene		<0.000186		mg/L	0.93	0.000200

continued ...

sample 205972 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000186	mg/L	0.93	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0357	mg/L	0.93	0.0800	45	25.9 - 97.5
2-Fluorobiphenyl		0.0373	mg/L	0.93	0.0800	47	13.9 - 100
Terphenyl-d14		0.0440	mg/L	0.93	0.0800	55	37.7 - 114

Method Blank (1) QC Batch: 62607

QC Batch: 62607 | Date Analyzed: 2009-08-17 | Analyzed By: kg
Prep Batch: 53426 | QC Preparation: 2009-08-17 | Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<0.801	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		12.0	mg/L	1	10.0	120	70 - 160

Method Blank (1) QC Batch: 62649

QC Batch: 62649 | Date Analyzed: 2009-08-18 | Analyzed By: ME
Prep Batch: 53460 | QC Preparation: 2009-08-18 | Prepared By: ME

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)		0.0975	mg/L	1	0.100	98	85.4 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0910	mg/L	1	0.100	91	52.8 - 124.2

Method Blank (1) QC Batch: 62650

QC Batch:	62650	Date Analyzed:	2009-08-18	Analyzed By:	ME
Prep Batch:	53460	QC Preparation:	2009-08-18	Prepared By:	ME

Parameter	Flag	MDL Result	Units	RL
GRO		<0.0351	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0969	mg/L	1	0.100	97	70 - 130
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	70 - 130

Method Blank (1) QC Batch: 62896

QC Batch:	62896	Date Analyzed:	2009-08-26	Analyzed By:	MN
Prep Batch:	53688	QC Preparation:	2009-08-19	Prepared By:	MN

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000784	mg/L	0.0002
2-Methylnaphthalene		<0.0000747	mg/L	0.0002
1-Methylnaphthalene		<0.0000575	mg/L	0.0002
Acenaphthylene		<0.0000963	mg/L	0.0002
Acenaphthene		<0.0000617	mg/L	0.0002
Dibenzofuran		<0.0000952	mg/L	0.0002
Fluorene		<0.000134	mg/L	0.0002
Anthracene		<0.000441	mg/L	0.0002
Phenanthrene		<0.000435	mg/L	0.0002
Fluoranthene		<0.000476	mg/L	0.0002
Pyrene		<0.000590	mg/L	0.0002
Benzo(a)anthracene		<0.000118	mg/L	0.0002
Chrysene		<0.0000766	mg/L	0.0002
Benzo(b)fluoranthene		<0.000146	mg/L	0.0002
Benzo(k)fluoranthene		<0.000141	mg/L	0.0002
Benzo(a)pyrene		<0.000132	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000702	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000534	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000473	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0685	mg/L	1	0.0800	86	25.9 - 97.5
2-Fluorobiphenyl		0.0649	mg/L	1	0.0800	81	13.9 - 100
Terphenyl-d14		0.0595	mg/L	1	0.0800	74	37.7 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 62607 | Date Analyzed: 2009-08-17 | Analyzed By: kg
Prep Batch: 53426 | QC Preparation: 2009-08-17 | Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	23.8	mg/L	1	25.0	<0.801	95	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	23.9	mg/L	1	25.0	<0.801	96	70 - 130	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
n-Triacontane	12.4	12.5	mg/L	1	10.0	124	125	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 62649 | Date Analyzed: 2009-08-18 | Analyzed By: ME
Prep Batch: 53460 | QC Preparation: 2009-08-18 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0996	mg/L	1	0.100	<0.00110	100	74.3 - 123.4
Toluene	0.0977	mg/L	1	0.100	<0.00100	98	70.1 - 126.2
Ethylbenzene	0.0924	mg/L	1	0.100	<0.00100	92	68.6 - 124.7
Xylene	0.273	mg/L	1	0.300	<0.00290	91	64.8 - 127.2

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	74.3 - 123.4	4	20
Toluene	0.103	mg/L	1	0.100	<0.00100	103	70.1 - 126.2	5	20
Ethylbenzene	0.101	mg/L	1	0.100	<0.00100	101	68.6 - 124.7	9	20
Xylene	0.301	mg/L	1	0.300	<0.00290	100	64.8 - 127.2	10	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0974	0.0979	mg/L	1	0.100	97	98	84.8 - 110.8
4-Bromofluorobenzene (4-BFB)	0.0906	0.0957	mg/L	1	0.100	91	96	51.7 - 134.7

Laboratory Control Spike (LCS-1)

QC Batch: 62650 | Date Analyzed: 2009-08-18 | Analyzed By: ME
Prep Batch: 53460 | QC Preparation: 2009-08-18 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	0.737	mg/L	1	1.00	<0.0351	74	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	0.709	mg/L	1	1.00	<0.0351	71	70 - 130	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0991	0.0996	mg/L	1	0.100	99	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.108	0.107	mg/L	1	0.100	108	107	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 62896 | Date Analyzed: 2009-08-26 | Analyzed By: MN
Prep Batch: 53688 | QC Preparation: 2009-08-19 | Prepared By: MN

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0361	mg/L	1	0.0800	<0.0000784	45	22.2 - 87.9
2-Methylnaphthalene	0.0380	mg/L	1	0.0800	<0.0000747	48	23.3 - 86.1
1-Methylnaphthalene	0.0383	mg/L	1	0.0800	<0.0000575	48	24.6 - 87.8
Acenaphthylene	0.0455	mg/L	1	0.0800	<0.0000963	57	27.4 - 114
Acenaphthene	0.0452	mg/L	1	0.0800	<0.0000617	56	27.2 - 111
Dibenzofuran	0.0427	mg/L	1	0.0800	<0.0000952	53	27.3 - 100
Fluorene	0.0522	mg/L	1	0.0800	<0.000134	65	31.5 - 122
Anthracene	0.0474	mg/L	1	0.0800	<0.000441	59	32.4 - 115
Phenanthrene	0.0516	mg/L	1	0.0800	<0.000435	64	34.2 - 111
Fluoranthene	0.0567	mg/L	1	0.0800	<0.000476	71	40.1 - 114
Pyrene	0.0543	mg/L	1	0.0800	<0.000590	68	39.2 - 124
Benzo(a)anthracene	0.0500	mg/L	1	0.0800	<0.000118	62	39.4 - 114
Chrysene	0.0530	mg/L	1	0.0800	<0.0000766	66	38.2 - 116
Benzo(b)fluoranthene	0.0627	mg/L	1	0.0800	<0.000146	78	34.5 - 118
Benzo(k)fluoranthene	0.0632	mg/L	1	0.0800	<0.000141	79	38.7 - 133
Benzo(a)pyrene	0.0706	mg/L	1	0.0800	<0.000132	88	38 - 134
Indeno(1,2,3-cd)pyrene	0.0579	mg/L	1	0.0800	<0.0000702	72	34.6 - 124
Dibenzo(a,h)anthracene	0.0592	mg/L	1	0.0800	<0.0000534	74	33.9 - 120

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzo(g,h,i)perylene	0.0572	mg/L	1	0.0800	<0.0000473	72	33.8 - 138

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
Naphthalene	0.0367	mg/L	1	0.0800	<0.0000784	46	22.2 - 87.9	2	20
2-Methylnaphthalene	0.0385	mg/L	1	0.0800	<0.0000747	48	23.3 - 86.1	1	20
1-Methylnaphthalene	0.0396	mg/L	1	0.0800	<0.0000575	50	24.6 - 87.8	3	20
Acenaphthylene	0.0448	mg/L	1	0.0800	<0.0000963	56	27.4 - 114	2	20
Acenaphthene	0.0446	mg/L	1	0.0800	<0.0000617	56	27.2 - 111	1	20
Dibenzofuran	0.0418	mg/L	1	0.0800	<0.0000952	52	27.3 - 100	2	20
Fluorene	0.0514	mg/L	1	0.0800	<0.000134	64	31.5 - 122	2	20
Anthracene	0.0453	mg/L	1	0.0800	<0.000441	57	32.4 - 115	4	20
Phenanthrene	0.0505	mg/L	1	0.0800	<0.000435	63	34.2 - 111	2	20
Fluoranthene	0.0560	mg/L	1	0.0800	<0.000476	70	40.1 - 114	1	20
Pyrene	0.0535	mg/L	1	0.0800	<0.000590	67	39.2 - 124	2	20
Benzo(a)anthracene	0.0503	mg/L	1	0.0800	<0.000118	63	39.4 - 114	1	20
Chrysene	0.0523	mg/L	1	0.0800	<0.0000766	65	38.2 - 116	1	20
Benzo(b)fluoranthene	0.0543	mg/L	1	0.0800	<0.000146	68	34.5 - 118	14	20
Benzo(k)fluoranthene	0.0609	mg/L	1	0.0800	<0.000141	76	38.7 - 133	4	20
Benzo(a)pyrene	0.0707	mg/L	1	0.0800	<0.000132	88	38 - 134	0	20
Indeno(1,2,3-cd)pyrene	0.0577	mg/L	1	0.0800	<0.0000702	72	34.6 - 124	0	20
Dibenzo(a,h)anthracene	0.0584	mg/L	1	0.0800	<0.0000534	73	33.9 - 120	1	20
Benzo(g,h,i)perylene	0.0581	mg/L	1	0.0800	<0.0000473	73	33.8 - 138	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
Nitrobenzene-d5	0.0405	0.0392	mg/L	1	0.0800	51	49	25.9 - 97.5
2-Fluorobiphenyl	0.0378	0.0377	mg/L	1	0.0800	47	47	13.9 - 100
Terphenyl-d14	0.0520	0.0508	mg/L	1	0.0800	65	64	37.7 - 114

Matrix Spike (MS-1) Spiked Sample: 205620

QC Batch: 62607 | Date Analyzed: 2009-08-17 | Analyzed By: kg
Prep Batch: 53426 | QC Preparation: 2009-08-17 | Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO [2]	235	mg/L	5	25.0	185	200	70 - 130

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

[2]Matrix spike recovery out of control limits due to peak 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	[3]	140	mg/L	5	25.0	185	0	70 - 130	51	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	[4 5]	20.8	15.2	mg/L	5	10	208	152	70 - 130

Matrix Spike (MS-1) Spiked Sample: 205968

QC Batch: 62649 | Date Analyzed: 2009-08-18 | Analyzed By: ME
Prep Batch: 53460 | QC Preparation: 2009-08-18 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	34.0	mg/L	100	10.0	22.7152	113	61 - 130
Toluene	13.7	mg/L	100	10.0	3.0366	107	69.2 - 121.4
Ethylbenzene	10.9	mg/L	100	10.0	1.0524	98	56.3 - 124.9
Xylene	32.1	mg/L	100	30.0	1.987	100	60.2 - 122.9

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	33.0	mg/L	100	10.0	22.7152	103	61 - 130	3	20
Toluene	13.1	mg/L	100	10.0	3.0366	101	69.2 - 121.4	4	20
Ethylbenzene	10.8	mg/L	100	10.0	1.0524	97	56.3 - 124.9	1	20
Xylene	31.7	mg/L	100	30.0	1.987	99	60.2 - 122.9	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	10.2	10.1	mg/L	100	10	102	101	85.6 - 108.1
4-Bromofluorobenzene (4-BFB)	10.7	10.2	mg/L	100	10	107	102	53.7 - 127.3

Standard (CCV-2)

QC Batch: 62607 | Date Analyzed: 2009-08-17 | Analyzed By: kg

[3]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[4]High surrogate recovery due to peak interference.
[5]High surrogate recovery due to peak interference.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	236	94	80 - 120	2009-08-17

Standard (CCV-3)

QC Batch: 62607 Date Analyzed: 2009-08-17 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	236	94	80 - 120	2009-08-17

Standard (CCV-1)

QC Batch: 62649 Date Analyzed: 2009-08-18 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0977	98	80 - 120	2009-08-18
Toluene		mg/L	0.100	0.0969	97	80 - 120	2009-08-18
Ethylbenzene		mg/L	0.100	0.0909	91	80 - 120	2009-08-18
Xylene		mg/L	0.300	0.273	91	80 - 120	2009-08-18

Standard (CCV-2)

QC Batch: 62649 Date Analyzed: 2009-08-18 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.110	110	80 - 120	2009-08-18
Toluene		mg/L	0.100	0.112	112	80 - 120	2009-08-18
Ethylbenzene		mg/L	0.100	0.107	107	80 - 120	2009-08-18
Xylene		mg/L	0.300	0.325	108	80 - 120	2009-08-18

Standard (CCV-3)

QC Batch: 62649 Date Analyzed: 2009-08-18 Analyzed By: ME

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	80 - 120	2009-08-18
Toluene		mg/L	0.100	0.102	102	80 - 120	2009-08-18
Ethylbenzene		mg/L	0.100	0.104	104	80 - 120	2009-08-18
Xylene		mg/L	0.300	0.313	104	80 - 120	2009-08-18

Standard (CCV-1)

QC Batch: 62650 Date Analyzed: 2009-08-18 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.03	103	80 - 120	2009-08-18

Standard (CCV-2)

QC Batch: 62650 Date Analyzed: 2009-08-18 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.01	101	80 - 120	2009-08-18

Standard (CCV-1)

QC Batch: 62896 Date Analyzed: 2009-08-26 Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	58.1	97	80 - 120	2009-08-26
2-Methylnaphthalene		mg/L	60.0	66.2	110	80 - 120	2009-08-26
1-Methylnaphthalene		mg/L	60.0	66.7	111	80 - 120	2009-08-26
Acenaphthylene		mg/L	60.0	57.8	96	80 - 120	2009-08-26
Acenaphthene		mg/L	60.0	58.4	97	80 - 120	2009-08-26
Dibenzofuran		mg/L	60.0	60.3	100	80 - 120	2009-08-26
Fluorene		mg/L	60.0	63.8	106	80 - 120	2009-08-26
Anthracene		mg/L	60.0	59.2	99	80 - 120	2009-08-26
Phenanthrene		mg/L	60.0	57.2	95	80 - 120	2009-08-26
Fluoranthene		mg/L	60.0	54.8	91	80 - 120	2009-08-26
Pyrene		mg/L	60.0	59.0	98	80 - 120	2009-08-26
Benzo(a)anthracene		mg/L	60.0	56.2	94	80 - 120	2009-08-26

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chrysene		mg/L	60.0	56.9	95	80 - 120	2009-08-26
Benzo(b)fluoranthene		mg/L	60.0	55.8	93	80 - 120	2009-08-26
Benzo(k)fluoranthene		mg/L	60.0	63.6	106	80 - 120	2009-08-26
Benzo(a)pyrene		mg/L	60.0	67.5	112	80 - 120	2009-08-26
Indeno(1,2,3-cd)pyrene		mg/L	60.0	56.4	94	80 - 120	2009-08-26
Dibenzo(a,h)anthracene		mg/L	60.0	58.0	97	80 - 120	2009-08-26
Benzo(g,h,i)perylene		mg/L	60.0	55.0	92	80 - 120	2009-08-26

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		60.5	mg/L	1	60.0	101	80 - 120
2-Fluorobiphenyl		55.1	mg/L	1	60.0	92	80 - 120
Terphenyl-d14		56.0	mg/L	1	60.0	93	80 - 120

Standard (CCV-2)

QC Batch: 62896 | Date Analyzed: 2009-08-26 | Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	58.0	97	80 - 120	2009-08-26
2-Methylnaphthalene		mg/L	60.0	61.7	103	80 - 120	2009-08-26
1-Methylnaphthalene		mg/L	60.0	61.3	102	80 - 120	2009-08-26
Acenaphthylene		mg/L	60.0	59.1	98	80 - 120	2009-08-26
Acenaphthene		mg/L	60.0	58.6	98	80 - 120	2009-08-26
Dibenzofuran		mg/L	60.0	61.0	102	80 - 120	2009-08-26
Fluorene		mg/L	60.0	64.0	107	80 - 120	2009-08-26
Anthracene		mg/L	60.0	59.8	100	80 - 120	2009-08-26
Phenanthrene		mg/L	60.0	57.3	96	80 - 120	2009-08-26
Fluoranthene		mg/L	60.0	56.9	95	80 - 120	2009-08-26
Pyrene		mg/L	60.0	58.6	98	80 - 120	2009-08-26
Benzo(a)anthracene		mg/L	60.0	56.7	94	80 - 120	2009-08-26
Chrysene		mg/L	60.0	56.4	94	80 - 120	2009-08-26
Benzo(b)fluoranthene		mg/L	60.0	55.5	92	80 - 120	2009-08-26
Benzo(k)fluoranthene		mg/L	60.0	70.9	118	80 - 120	2009-08-26
Benzo(a)pyrene		mg/L	60.0	69.9	116	80 - 120	2009-08-26
Indeno(1,2,3-cd)pyrene		mg/L	60.0	58.4	97	80 - 120	2009-08-26
Dibenzo(a,h)anthracene		mg/L	60.0	59.7	100	80 - 120	2009-08-26
Benzo(g,h,i)perylene		mg/L	60.0	57.8	96	80 - 120	2009-08-26

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		61.8	mg/L	1	60.0	103	80 - 120
2-Fluorobiphenyl		55.6	mg/L	1	60.0	93	80 - 120
Terphenyl-d14		55.7	mg/L	1	60.0	93	80 - 120

LAB Order ID: 9081411

Page 1 of

TraceAnalysis, Inc.

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Company Name: TALON LPE
Phone #: 432-522-2122
Address: (Street, City, Zip) 2901 RANKIN MIDLAND TX
Fax #:
Contact Person: SHANNA SMITH
E-mail: SSmith@TALONLPE.com
Invoice to: (If different from above) PLAINS JASON HENRY
Moore to JA1 #1
Project #: 700376.005.01
Project Name:
Project Location (including state): HOBBS, NM
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
205966	MW-13	5		X				X				X		8/13/09	1422
967	MW-14	3													1342
968	MW-16														1334
969	MW-17														1408
970	MW-18														1401
971	MW-19														1355
972	MW-20														1320
	MW-														
	MW-														
	MW-														
	MW-														

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
X	X	X	X	X														
	X																	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	TALON LPE	8/14/09	0840		TALON LPE	8/14/09	0900	INST ___ OBS ___ °C COR ___ °C
	TALON LPE	8/14/09	9:05		TRACE	8/14/09	9:15	INST ___ OBS 4.0 °C COR 4.0 °C
								INST ___ OBS ___ °C COR ___ °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-in-Review

REMARKS:
PAH - Lubbock

- 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

Carrier #

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E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 **El Paso:** T104704221-08-TX LELAP-02002 **Midland:** T104704392-08-TX

Analytical and Quality Control Report

Steve Killingsworth
Talon LPE-Midland
2901 State Highway 349
Midland, TX, 79706

Report Date: December 1, 2009

Work Order: 9112002

Project Location: Hobbs, N.M.
Project Name: Moore to Jal #1
Project Number: 700376.005.01
SRS#: 2002-10720

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
215339	MW-14	water	2009-11-19	16:25	2009-11-20
215340	MW-16	water	2009-11-19	16:43	2009-11-20
215341	MW-17	water	2009-11-19	14:50	2009-11-20
215342	MW-18	water	2009-11-19	15:08	2009-11-20
215343	MW-19	water	2009-11-19	15:18	2009-11-20
215344	MW-20	water	2009-11-19	15:34	2009-11-20

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

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

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

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

Case Narrative

Samples for project Moore to Jal #1 were received by TraceAnalysis, Inc. on 2009-11-20 and assigned to work order 9112002. Samples for work order 9112002 were received intact without headspace and at a temperature of 6.0 deg. C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	56110	2009-11-30 at 03:52	65657	2009-11-30 at 03:52

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9112002 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 215339 - MW-14

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	65657	Date Analyzed:	2009-11-30	Analyzed By:	tn
Prep Batch:	56110	Sample Preparation:	2009-11-30	Prepared By:	tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**3.46**	mg/L	20	0.00100
Toluene		**0.783**	mg/L	20	0.00100
Ethylbenzene		**0.0880**	mg/L	20	0.00100
Xylene		**0.213**	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.15	mg/L	20	2.00	108	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		1.88	mg/L	20	2.00	94	68.1 - 118.8

Sample: 215340 - MW-16

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	65657	Date Analyzed:	2009-11-30	Analyzed By:	tn
Prep Batch:	56110	Sample Preparation:	2009-11-30	Prepared By:	tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**26.5**	mg/L	100	0.00100
Toluene		**1.28**	mg/L	100	0.00100
Ethylbenzene		**0.648**	mg/L	100	0.00100
Xylene		**0.771**	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.8	mg/L	100	10.0	108	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		9.43	mg/L	100	10.0	94	68.1 - 118.8

Sample: 215341 - MW-17

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	65657	Date Analyzed:	2009-11-30	Analyzed By:	tn
Prep Batch:	56110	Sample Preparation:	2009-11-30	Prepared By:	tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0100**	mg/L	1	0.00100
Toluene		**0.00330**	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.112	mg/L	1	0.100	112	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0971	mg/L	1	0.100	97	68.1 - 118.8

Sample: 215342 - MW-18

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	65657	Date Analyzed:	2009-11-30	Analyzed By:	tn
Prep Batch:	56110	Sample Preparation:	2009-11-30	Prepared By:	tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0123**	mg/L	1	0.00100
Toluene		**0.00370**	mg/L	1	0.00100
Ethylbenzene		**0.00140**	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.113	mg/L	1	0.100	113	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0992	mg/L	1	0.100	99	68.1 - 118.8

Sample: 215343 - MW-19

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	65657	Date Analyzed:	2009-11-30	Analyzed By:	tn
Prep Batch:	56110	Sample Preparation:	2009-11-30	Prepared By:	tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00570**	mg/L	1	0.00100
Toluene		**0.00200**	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.111	mg/L	1	0.100	111	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0974	mg/L	1	0.100	97	68.1 - 118.8

Sample: 215344 - MW-20

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	65657	Date Analyzed:	2009-11-30	Analyzed By:	tn
Prep Batch:	56110	Sample Preparation:	2009-11-30	Prepared By:	tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00490**	mg/L	1	0.00100
Toluene		**0.00160**	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0941	mg/L	1	0.100	94	68.1 - 118.8

Method Blank (1) QC Batch: 65657

QC Batch:	65657	Date Analyzed:	2009-11-30	Analyzed By:	tn
Prep Batch:	56110	QC Preparation:	2009-11-30	Prepared By:	tn

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.116	mg/L	1	0.100	116	73.6 - 116.6
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	70.6 - 107.5

Laboratory Control Spike (LCS-1)

QC Batch: 65657 | Date Analyzed: 2009-11-30 | Analyzed By: tn
Prep Batch: 56110 | QC Preparation: 2009-11-30 | Prepared By: tn

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0855	mg/L	1	0.100	<0.000300	86	79.4 - 111.8
Toluene	0.0855	mg/L	1	0.100	<0.000200	86	79.3 - 110
Ethylbenzene	0.0845	mg/L	1	0.100	<0.000200	84	73.8 - 113.1
Xylene	0.253	mg/L	1	0.300	<0.000900	84	73.9 - 113.6

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	0.0829	mg/L	1	0.100	<0.000300	83	79.4 - 111.8	3	20
Toluene	0.0828	mg/L	1	0.100	<0.000200	83	79.3 - 110	3	20
Ethylbenzene	0.0818	mg/L	1	0.100	<0.000200	82	73.8 - 113.1	3	20
Xylene	0.244	mg/L	1	0.300	<0.000900	81	73.9 - 113.6	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.118	0.115	mg/L	1	0.100	118	115	76.2 - 119.6
4-Bromofluorobenzene (4-BFB)	0.106	0.103	mg/L	1	0.100	106	103	77.9 - 109.8

Matrix Spike (MS-1) Spiked Sample: 215340

QC Batch: 65657 | Date Analyzed: 2009-11-30 | Analyzed By: tn
Prep Batch: 56110 | QC Preparation: 2009-11-30 | Prepared By: tn

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	[1]	34.0	mg/L	100	10.0	26.4753	75	77.3 - 117.4
Toluene		8.81	mg/L	100	10.0	1.2815	75	75 - 111.8
Ethylbenzene	[2]	8.07	mg/L	100	10.0	0.6479	74	78.8 - 106.6
Xylene		22.9	mg/L	100	30.0	0.7706	74	68.9 - 114

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	36.5	mg/L	100	10.0	26.4753	100	77.3 - 117.4	7	20
Toluene	10.6	mg/L	100	10.0	1.2815	93	75 - 111.8	18	20

continued ...

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

matrix spikes continued ...

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene	[3]	9.92	mg/L	100	10.0	0.6479	93	78.8 - 106.6	21	20
Xylene	[4]	28.3	mg/L	100	30.0	0.7706	92	68.9 - 114	21	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)	10.4	10.5	mg/L	100	10	104	105	76.3 - 109.8
4-Bromofluorobenzene (4-BFB)	9.37	9.49	mg/L	100	10	94	95	75.2 - 112.8

Standard (CCV-1)

QC Batch: 65657 Date Analyzed: 2009-11-30 Analyzed By: tn

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0834	83	80 - 120	2009-11-30
Toluene		mg/L	0.100	0.0817	82	80 - 120	2009-11-30
Ethylbenzene		mg/L	0.100	0.0811	81	80 - 120	2009-11-30
Xylene		mg/L	0.300	0.242	81	80 - 120	2009-11-30

Standard (CCV-2)

QC Batch: 65657 Date Analyzed: 2009-11-30 Analyzed By: tn

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0971	97	80 - 120	2009-11-30
Toluene		mg/L	0.100	0.0964	96	80 - 120	2009-11-30
Ethylbenzene		mg/L	0.100	0.0949	95	80 - 120	2009-11-30
Xylene		mg/L	0.300	0.284	95	80 - 120	2009-11-30

Standard (CCV-3)

QC Batch: 65657 Date Analyzed: 2009-11-30 Analyzed By: tn

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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0880	88	80 - 120	2009-11-30
Toluene		mg/L	0.100	0.0876	88	80 - 120	2009-11-30
Ethylbenzene		mg/L	0.100	0.0867	87	80 - 120	2009-11-30
Xylene		mg/L	0.300	0.259	86	80 - 120	2009-11-30

LAB Order 9112002

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Company Name: Talon/LPE

Phone #: 432-522-2133

Address: (Street, City, Zip) 2901 Rankin Hwy

Fax #:

Contact Person: Steve Killingsworth

E-mail: skillingsworth@talonlpe.com

Invoice to: (If different from above) PLAINS Jason Henry

SRS # 2002-10270

Project #: 700376.005.01

Project Name: Moore to Jal #1

Project Location (including state): Lovington, N.M.

Sampler Signature: [signature]

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
215339	MW-14	3	VOA	X				X				X		11/19/09	1625
340	MW-16	3	↓	↓				↓				↓		↓	1443
341	MW-17	3													1450
342	MW-18	3													1508
343	MW-19	3													1518
344	MW-20	3													1534

LAB #	MTBE 8021 / 602 / 8260 / 624	BTEX (8021) / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
215339		X																	
340		X																	
341		X																	
342		X																	
343		X																	
344		X																	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp
[signature]	Talon/LPE	11/20/09		S Killingsworth	Talon/LPE	11/20/09	0800	INST ___ °C, OBS ___ °C, COR ___ °C
S Killingsworth	Talon/LPE	11/20/09	0930	[signature]	Trace	11/20/09	09:30	INST ___ °C, OBS 6.0 °C, COR ___ °C
								INST ___ °C, OBS ___ °C, COR ___ °C

LAB USE ONLY: Intact (Y) / N; Headspace Y / (N) / NA; Log-in-Review

REMARKS: X All tests Midland

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

Carrier # Carry-In

ORIGINAL COPY

APPENDIX D

NMOCD C-141

EOTT Site Information and Metrics	Incident Date: **10-18-02 @ 10:00 AM**	NMOCD Notified: 10-18-02 @ 11:00 AM Pat McCasland EPI left message with Paul Sheeley and sent page to the "ON-CALL" representative

SITE: 8" Moore to Jal #1	Assigned Site Reference #: 2002-10270
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): 200 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 #1	
Source of contamination: 8" Steel Pipeline	
Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico	
LSP Dimensions ~200' x 40'	
LSP Area: 8,000 sqft ft^2	
Location of Reference Point (RP)	
Location distance and direction from RP	
Latitude: 32° 50' 12.36"N	
Longitude: 103° 15' 26.234"W.	
Elevation above mean sea level:	
Feet from South Section Line	
Feet from West Section Line	
Location- Unit or ¼¼: SE¼ of the NW¼	Unit Letter: F
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) - ?	

1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 feet: *20 points*	If <1000' from water source, or;<200' from private domestic water source: *20 points*	<200 horizontal feet: *20 points*
If Depth to GW 50 to 99 feet: *10 points*		200-100 horizontal feet: *10 points*
If Depth to GW >100 feet: *0 points*	If >1000' from water source, or; >200' from private domestic water source: *0 points*	>1000 horizontal feet: *0 points*
Ground water Score = 10	*Wellhead Protection Area Score= 0*	*Surface Water Score= 0*
Site Rank (1+2+3) = 10		

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

[1]100 ppm field VOC headspace measurement may be substituted for lab analysis

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	Contact
EOTT	**Frank Hernandez**
Address PO Box 1660 5805 East Highway 80 Midland, Texas 79702	Telephone No. 915.638.3799
Facility Name 8" Moore to Jal #1	Facility Type 8" Steel Pipeline

Surface Owner	Mineral Owner	Lease No.
State of New Mexico		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea Lat. 32° 50' 12.36"N Lon. 103° 15' 26.234"W.
16	16	T17S	R37E					

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 200 bbls barrels	Volume Recovered 0 bbls barrels
Source of Release 8" Steel Pipeline	Date and Hour of Occurrence EOTT	Date and Hour of Discovery 10-18-02 @ 8:00 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Paul Sheeley	
By Whom? Pat McCasland, EPI	Date and Hour 10-18-02 @ 11:00 AM Pat McCasland EPI left message with Paul Sheeley and sent page to the "ON-CALL" representative	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

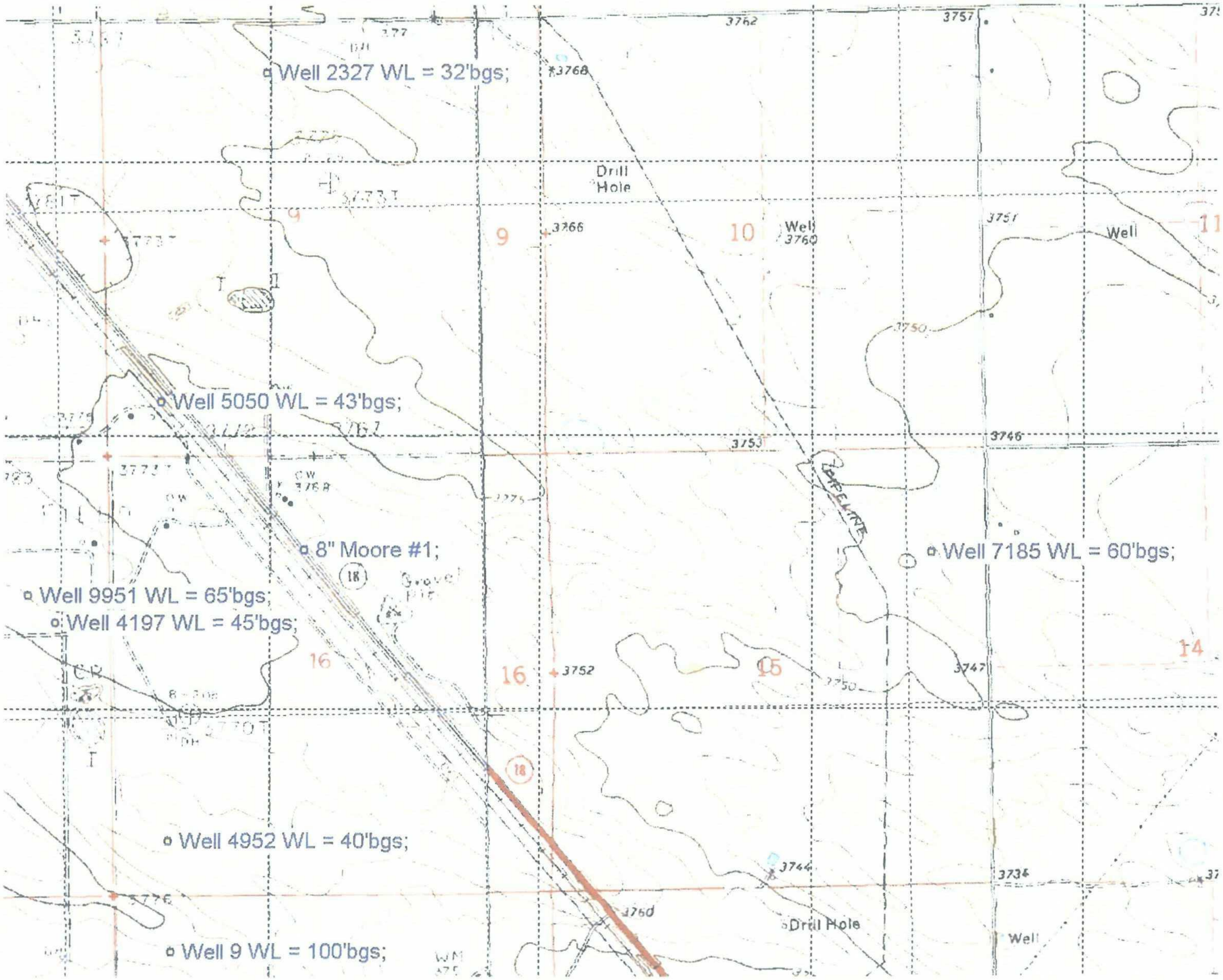
Describe Cause of Problem and Remedial Action Taken.*
8" Steel Pipeline Site will be delineated to determine the vertical and horizontal extents of contamination. Contaminated soil will be blended on site or disposed of.

Describe Area Affected and Cleanup Action Taken.*
8,000 sqft ~200' x 40' Site will be delineated to determine the vertical and horizontal extents of contamination. Contaminated soil will be blended on site or disposed of. Remedial Goals: TPH 8015m = 1000 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.

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

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


Well 2327 WL = 32'bgs;
Well 5050 WL = 43'bgs;
8" Moore #1;
Well 9951 WL = 65'bgs;
Well 4197 WL = 45'bgs;
Well 4952 WL = 40'bgs;
Well 9 WL = 100'bgs;
Well 7185 WL = 60'bgs;
Drill Hole
Well 3760
Well
PIPELINE
Drill Hole
9
10
11
14
15
16
3762
3757
3768
3766
3751
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