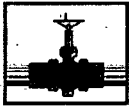


AP - 52

ANNUAL MONITORING REPORT

YEAR(S):

2011



**PLAINS
ALL AMERICAN**

March 29, 2012

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APR - 5 2012

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

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: Plains All American – 2011 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	AP-91 (1R-0380)	Section 16, T17S, R37E, Lea County
8-inch Moore to Jal #2	AP-92 (1R-0381)	Section 16, T17S, R37E, Lea County
C.S. Caylor	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 06, T17S, R36E, 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
Remediation Coordinator
Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM

Enclosures



2011 ANNUAL GROUNDWATER MONITORING REPORT

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NMOCD REF. # AP-52

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APR - 5 2012

Prepared for:

PLAINS PIPELINE, L.P.
333 CLAY STREET, SUITE 1600
HOUSTON, TEXAS

Oil Conservation Division
1220 S. St. Francis Drive
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Prepared by:

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COPY 1 – PLAINS PIPELINE, L.P. – HOUSTON
COPY 2 – PLAINS PIPELINE, L.P. – DENVER CITY
COPY 3 – NMOCD – SANTA FE
COPY 4 – NMOCD – HOBBS
COPY 5 – NMSLO – SANTA FE

March, 2012

Hansen, Edward J., EMNRD

From: Jason Henry <JHenry@paalp.com>
Sent: Wednesday, June 13, 2012 4:46 PM
To: Hansen, Edward J., EMNRD
Cc: Jeffrey P Dann
Subject: Plains Pipeline remediation site - CS Cayler (AP-52)

Ed,

Based on the recommendations presented in the *2011 Annual Groundwater Monitoring Report* for the subject site, Plains respectfully requests NMOCD approval to plug and abandon monitor wells MW-9 and MW-10. These monitor wells are currently dry due to declining groundwater levels at the site. Once monitor wells MW-9 and MW-10 have been properly plugged and abandoned, Plains proposes to install monitor wells MW-9A and MW-10A as replacement wells.

Additionally, Plains also requests NMOCD approval to plug and abandon monitor wells MW-13 and MW-14 at the subject site and install replacement monitor wells MW-13A and MW-14A. As of the January 5, 2012, groundwater gauging event, monitor wells MW-13 and MW-14 were not dry but Plains anticipates that they will be in the near future.

The replacement monitor wells (MW-9A, MW-10A, MW-13A, and MW-14A) will be installed as close as practicable to the original locations of the monitor wells that are being plugged and abandoned.

Please let me know if you have any questions or need additional information.

Thank you,
Jason Henry
575-441-1099

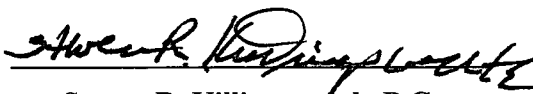
2011 ANNUAL GROUNDWATER MONITORING REPORT

**C.S. CAYLER
LEA COUNTY, NEW MEXICO
SRS #2002 - 10250
NMOCD REF. # AP-052**

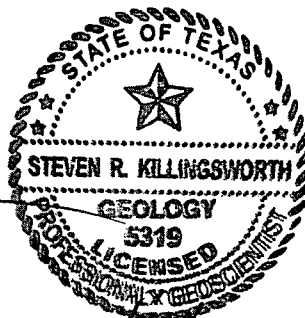
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TALON/LPE PROJECT NO. 700376.049.01

Prepared by:



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3/23/12

Reviewed by:



**Kyle Waggoner, P.G.
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**TALON/LPE
2901 S. State Highway 349
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March, 2012

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NMOCD - New Mexico Oil Conservation Division

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1 INTRODUCTION AND OBJECTIVES

1.1 Objectives and Site Background

The C.S. Cayler (site) is located approximately seven (7) miles southeast of Lovington, Lea County, New Mexico, on property owned by Robert C. Rice. There are no residences, groundwater supply wells, or surface water bodies within a 1,000-foot radius of the site. The initial release occurred from an EOTT Energy (EOTT) steel pipeline on September 19, 2002. Subsequently, EOTT changed its name to Link Energy in October 2003, and Plains Marketing, L.P. (Plains) purchased the assets of Link Energy on April 1, 2004. Initial reports estimated that 70 barrels (bbls) of crude oil were released. During site reconnaissance, it was observed that the ground surface beyond the current spill area had apparently been impacted by a prior spill or spills; however, the source(s) and date(s) of the spill are unknown. Based on available information, no crude oil was initially recovered at the release site.

The site is situated in a physiogeographic 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 3,810-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.

On February 5, 2007, Talon/LPE (Talon) was retained by Plains to assume remediation activities at the site. Remediation activities at the site were previously conducted by Environmental Plus, Inc. (EPI).

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 calcification 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 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 Epoch.

1.3 Previous Environmental Investigations

A total of 20 groundwater monitor wells have been installed in the vicinity of the release (see Figure 1). With New Mexico Oil Conservation Division (NMOCD) approval and landowner concurrence, groundwater monitor well MW-1 was installed in October 2002 and was subsequently plugged in September 2008 due to the well being dry. Groundwater monitor wells MW-2, MW-3, MW-4, and MW-5 were installed from May to June 2004, and MW-6, MW-7, MW-8, MW-9, and MW-10 were installed in October 2004. Groundwater monitor wells MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, and MW-17 were installed in February 2006, and MW-18 was installed in March 2008. Replacement monitor well MW-1A was installed in September 2008.

During 2011, four (4) replacement monitor wells were drilled at the site (MW-2A, MW-7A, MW-8A, and MW-12A). Groundwater levels at the site have declined an average of 11 feet since groundwater measurements were first obtained in 2002. Monitor wells MW-7 had not detected groundwater since the gauging event on 9/21/10 and monitor well MW-8 had not detected groundwater since the gauging event on 6/10/09; therefore, monitor wells MW-7 and MW-8 were plugged and replacement monitor wells MW-7A and MW-8A were installed on April 19 and 20, 2011.

Monitor well MW-2 measured a total depth (TD) of 88 feet below top of casing (btoc) and contained approximately five (5) ft of PSH and groundwater was not detected during the gauging event on 3/23/11. Monitor well MW-12 measured a TD of 90 feet btoc and the gauging event on 3/25/11 indicated approximately five (5) feet of PSH and groundwater at TD. Since the wells did not contain enough fluid column to accommodate pumps, replacement monitor wells MW-2A and MW-12A were drilled on April 28, 2011. Monitor wells MW-2 and MW-12 were not plugged.

Phase-separated hydrocarbon (PSH) recovery operations have been performed at the site since September 2002. A summary of the historical groundwater and PSH gauging is provided in Table 1. Approximately 1,041 bbls of crude oil have been recovered to date from the site.

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

2 SITE ACTIVITIES

The sections that follow summarize groundwater monitoring and PSH recovery activities conducted at the subject site during the year 2011. The primary function of groundwater monitoring activities is to collect depth to fluid measurements and to 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.

A synopsis of analytical results for the four (4) groundwater monitoring events is located in Table 2 in Appendix B, and annotated in map form on Figures 3a through 3d in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C. In addition, cumulative historical analytical data is located in the tables section on the attached CD, which is an adjunct to this report.

2.1 Groundwater Monitoring Activities

A total of three (3) groundwater monitoring events were conducted at the site during the year 2011 and the fourth quarter event occurred early in 2012 due to inclement weather in December, which caused delays in the schedule. The events occurred on March 25, June 27, September 28-29, and January 5, 2012.

2.2 Groundwater Gauging, Purging, and Sampling Procedures

During each groundwater monitoring event, all accessible monitor wells were measured with an oil/water interface probe to determine static water levels and to determine the thickness of PSH accumulation, if present. The data collected from the measurements was used to construct groundwater gradient maps and PSH thickness maps. The gauging results collected during the four (4) events are incorporated in Table 1, Appendix B – Summary of Historical Fluid Level Measurements. In addition, cumulative historical gauging data is located in the tables section on the CD, which is an adjunct to this report.

Subsequent to gauging, all monitor wells that were not impacted with PSH 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 300 gallons of purged groundwater and water used for pump decontamination was generated during the monitoring events of 2011.

Groundwater samples were collected from all monitor wells not impacted with PSH using dedicated disposable polyethylene bailers. The groundwater samples were contained in laboratory supplied sample vials infused with the appropriate preservative required for the requested analysis. The groundwater samples were maintained on ice, in the custody of Talon

personnel, until they were delivered to TraceAnalysis, Inc. in Midland, Texas for testing. The groundwater samples collected during the all four events were quantified for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method SW-846 8021B. In addition, during the January 2012 event groundwater samples were collected from monitor wells MW-8A and 12A for quantification of poly-nuclear aromatic hydrocarbon (PAH).

2.3 Phase Separated Hydrocarbon Recovery

A total of approximately 1,042 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. PSH recovery methods have been employed at the site since 2002, initially by hand bailing followed in March of 2003 with a portable gasoline powered eductor recovery system. Chart 1 in Appendix B depicts the annual and cumulative recovery from 2002 to 2011.

In November 2007, an automated skimmer recovery system was installed at the site. At that time, the system utilized six (6) skimmers with bladder pumps in monitor wells MW-2, MW-3, MW-4, MW-5, MW-7, and MW-12 to recover PSH and to inhibit migration of the PSH plume. The skimmer assembly consists of bladder pumps combined with 24" traveling float specific gravity skimmer attachments. In July of 2009, a pneumatic total fluids pump was added to monitor well MW-1A and in January of 2010 two pneumatic total fluids pumps were added to monitor wells MW-2 and MW-3. Currently, there are five (5) total fluids pumps in operation in monitor wells MW-1A, MW-2A, MW-3, MW-4, and MW-5 and one skimmer package in monitor well MW-12.

The skimmer system and total fluids pumps are powered by a single-phase 230 volt, 7.5 HP two stage reciprocating air compressor. Fluid, recovered by the pumps, was initially retained in 2,500 gallon and 1,225 gallon poly tanks and currently, those tanks have been replaced with a 350 barrel frac tank in February of 2011. The frac tank equipped with a high level shut off switch to prevent overflow and the tank is located within a secondary containment compound that is outfitted with a poly-liner. Recovered groundwater is transported to Rocky Smith State 'E' #23 disposal facility by a four (4) inch HDPE pipeline using a five (5) horsepower transfer pump. The pump is operated automatically from tank level switches. PSH is periodically removed with a vacuum truck and is re-introduced to the Plains' pipeline system at the Plains operated Lea Station.

During 2011 the quarterly PSH and groundwater recovery totals are as follows:

- 1st Quarter – 23 bbls crude oil and 863 bbls of groundwater
- 2nd Quarter - 76 bbls crude oil and 2,058 bbls of groundwater
- 3rd Quarter - 16 bbls crude oil and 3,792 bbls of groundwater
- 4th Quarter - 21 bbls of crude oil and 2,056 bbls of groundwater

3 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 chain of custody documentation are provided in Appendix C. In addition, cumulative historical analytical results are included in the tables section on the attached CD that is an adjunct to this report.

3.1 Groundwater Monitoring Results

The following sections summarize the results from the four groundwater monitoring events at the C. S. Cayler 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 of Miocene to Pliocene age or also known as the High Plains Aquifer. The Southern portion of the Ogallala aquifer underlies an area of about 29,000 square miles (mi²) 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 potentiometric surface generally mirrors the land surface elevation with the regional flow direction from the northwest to the southeast. The mean regional gradient is 15 feet per mile and the typical groundwater velocity averages seven (7) 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 80 to 85 feet below ground surface (bgs) and the groundwater flow direction is to the southeast at an average of five (5) feet per mile. The saturated thickness of the Ogallala formation on the High Plains ranges from 25 feet to 175 feet. The variable thickness is due to the irregularly eroded Triassic surface that underlies it.

The composition of Ogallala groundwater is defined as mixed-cation-HCO₃, 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. The pH of Ogallala water averages 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. The results of the fluid level measurements are summarized in Table 1, Appendix B - Summary of Historical Fluid Level Measurements. 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 average gradient of 0.0017 feet/foot or approximately nine (9) feet per mile. Groundwater levels at the subject site have exhibited a steady decline of an average of 1.88 feet for the year 2011 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 the year 2011 and have exhibited both declines and increases in thickness with no apparent trend or pattern.

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 delineated by the current monitor well geometry.

- During the March 2011 event, PSH was observed in monitor wells MW-1A, MW-2, MW-3, MW-4, MW-5, and MW-12. PSH thickness ranged from 3.05 feet to 7.98 feet.
- During the June 2011 event, PSH was observed in monitor wells MW-1A, MW-2, MW-2A, MW-3, MW-4, MW-5, MW-6, MW-7A, and MW-12. PSH thickness ranged from 0.12 feet to 6.70 feet.
- During the September 2011 event, PSH was observed in monitor wells MW-1A, MW-2, MW-2A, MW-3, MW-4, MW-6, MW-7A and MW-12. The pump was stuck in MW-5 and it could not be measured. PSH thickness ranged from 0.13 feet to 6.00 feet.
- During the January 2012 event, PSH was observed in monitor wells MW-1A, MW-2, MW-2A, MW-3, MW-4, MW-6, MW-7A, and MW-12. PSH thickness ranged from a sheen to 6.23 feet. The pump was stuck in monitor well MW-5, and it could not be gauged.

3.1.4 Groundwater Analytical Results

During the March, event, groundwater samples were collected from ten (10) monitor wells, MW-6, MW-9 MW-10, MW-11, and MW-13 through MW-18. Groundwater samples were not collected from eight (8) monitor wells, MW-1A through MW-5, MW-7, MW-8, and MW-12, due to the presence of PSH.

Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from <0.00100 mg/L to 0.228 mg/L. Benzene

concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-6, MW-9, MW-10, MW-13, and MW-16.

- Toluene concentrations ranged from <0.00100 mg/L to 0.0573 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any collected groundwater sample.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.00830 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any collected groundwater sample.
- Xylene concentrations ranged from <0.00100 mg/L to 0.0447 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the collected groundwater samples.

During the June event, groundwater samples were collected from nine (9) monitor wells, MW-8A, MW-11, MW-12A, and MW-13 through MW-18. Groundwater samples were not collected from nine (9) monitor wells, MW-1A, MW-2, MW-2A, MW-3, MW-4, MW-5, MW-6, MW-7A, and MW-12, due to the presence of PSH. Groundwater samples were not collected from monitor wells MW-9 and MW-10 because they were dry.

Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from <0.00100 mg/L to 31.9 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-8A, MW-12A, MW-13, and MW-16.
- Toluene concentrations ranged from <0.00100 mg/L to 2.11 mg/L. The toluene concentration exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-12A.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 1.32 mg/L. The ethylbenzene concentration exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-12A.
- Xylene concentrations ranged from <0.00100 mg/L to 2.40 mg/L. The total xylenes concentration exceeded the NMWQCC groundwater standard of 0.620 mg/L in the groundwater sample collected from monitor well MW-12A..

During the September event, groundwater samples were collected from seven (7) monitor wells, MW-8A, MW-11, MW-12A, and MW-15 through MW-18. Groundwater samples were not collected from nine (9) monitor wells, MW-1A, MW-2, MW-2A, MW-3, MW-4, MW-5, MW-6, MW-7A, and MW-12, due to the presence of PSH. Groundwater samples were not collected from monitor wells MW-9, MW-10, MW-13 and MW-14 because they were dry.

Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from <0.00100 mg/L to 13.9 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor well MW-8A, MW-12A, and MW-16.

- Toluene concentrations ranged from <0.00100 mg/L to 0.144 mg/L. The toluene concentration did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any collected groundwater sample.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.264 mg/L. The ethylbenzene concentration did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the collected groundwater samples.
- Xylene concentrations ranged from <0.00100 mg/L to 0.265 mg/L. The total xylene concentration did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any collected groundwater sample.

During the January 2012 event, groundwater samples were collected from eight (8) monitor wells, MW-8A, MW-11, MW-12A, and MW-14 through MW-18. Groundwater samples were not collected from nine (9) monitor wells, MW-1A, MW-2, MW-2A, MW-3, MW-4, MW-5, MW-6, MW-7A, and MW-12, due to the presence of PSH. Groundwater samples were not collected from monitor wells MW-9, MW-10, and MW-13 because they were dry.

Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from <0.00100 mg/L to 18.0 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in the groundwater samples collected from monitor wells MW-8A, MW-12A, and MW-16.
- Toluene concentrations ranged from <0.00100 mg/L to 0.807 mg/L. The toluene concentration exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-12A.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.522 mg/L. The ethylbenzene concentration did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any collected sample.
- Xylene concentrations ranged from <0.00100 mg/L to 0.752 mg/L. The total xylene concentration exceeded the NMWQCC groundwater standard of 0.620 mg/L in the groundwater sample collected from monitor well MW-12A.
- Total naphthalene concentrations ranged from <0.00020 mg/L to 0.0744 mg/L. The total naphthalene concentration exceeded the NMWQCC groundwater standard of 0.030 mg/L in the groundwater sample collected from monitor well MW-12A.

4 CONCLUSIONS AND RECOMMENDATIONS

The following section presents a summary of the four groundwater monitoring events conducted at the C. S. Cayler site and Section 4.2 provides recommendations for future corrective action.

4.1 Summary of Findings

- The groundwater flow direction is to the southeast at an average gradient of 0.0017 ft/ft or nine (9) feet per mile.
- Groundwater levels at the subject site have exhibited a steady decline averaging 1.88 feet for the year 2011 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 2011; however, PSH thicknesses have exhibited an overall decline averaging 1.64 feet except for monitor well MW-3, which increased in thickness by 1.71 feet in 2011.
- The dissolved-phase concentrations have remained relatively stable for the year 2011 and have exhibited slight fluctuations with no apparent trend. Currently, the dissolved-phase and PSH plumes are delineated by the current monitor well array.
- BTEX constituents were not detected in groundwater samples collected from down-gradient monitor wells MW-11 and MW-18 during all four 2011 monitoring events indicating that the recovery system is effectively controlling the migration of the dissolved-phase plume.
- The PSH recovery system has removed 137 bbls of crude oil from the groundwater during 2011 indicating that the system is performing its function.
- Monitor wells MW-2A, MW-7A, MW-8A, and MW-12A were installed in April of 2011. Monitor wells MW-7 and MW-8 were plugged and abandoned at that time.
- Monitor wells MW-9 and MW-10 have been consistently dry throughout the last three quarters of the year.

4.2 Recommendations

Based upon the results of the quarterly groundwater monitoring and PSH recovery efforts, Talon proposes the following actions:

- Continue operation and maintenance of the skimmer/bladder pump and total fluids pump 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.
- Remove the stuck pump from MW-5. Possibly reposition the pump to another PSH impacted monitor well depending the gauging results in MW-5
- Plug and abandon monitor wells MW-9 and MW-10 and re-drill the monitor wells (MW-9A and MW-10A) deeper to account for declining groundwater levels.

APPENDIX A

Figures

Figure 1 - Site Plan with Proposed Monitor Well Locations Map

Figure 2a - Groundwater Gradient Map - 03/25/2011

Figure 2b - Groundwater Gradient Map - 06/27/2011

Figure 2c - Groundwater Gradient Map – 09/28/2011

Figure 2d - Groundwater Gradient Map - 01/05/2012

Figure 3a - PSH Thickness & Groundwater Concentration Map - 03/25/2011

Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/27/2011

Figure 3c - PSH Thickness & Groundwater Concentration Map – 09/28-29/2011

Figure 3d - PSH Thickness & Groundwater Concentration Map - 01/05/2012

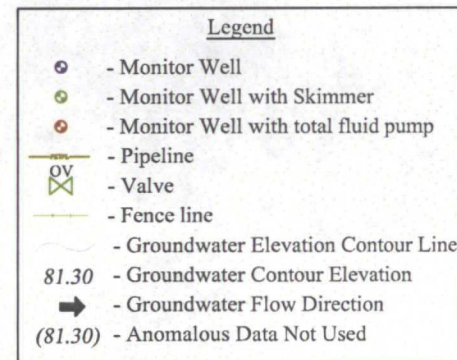
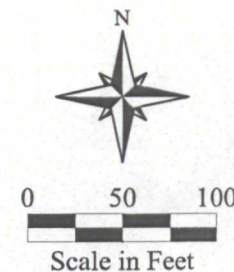
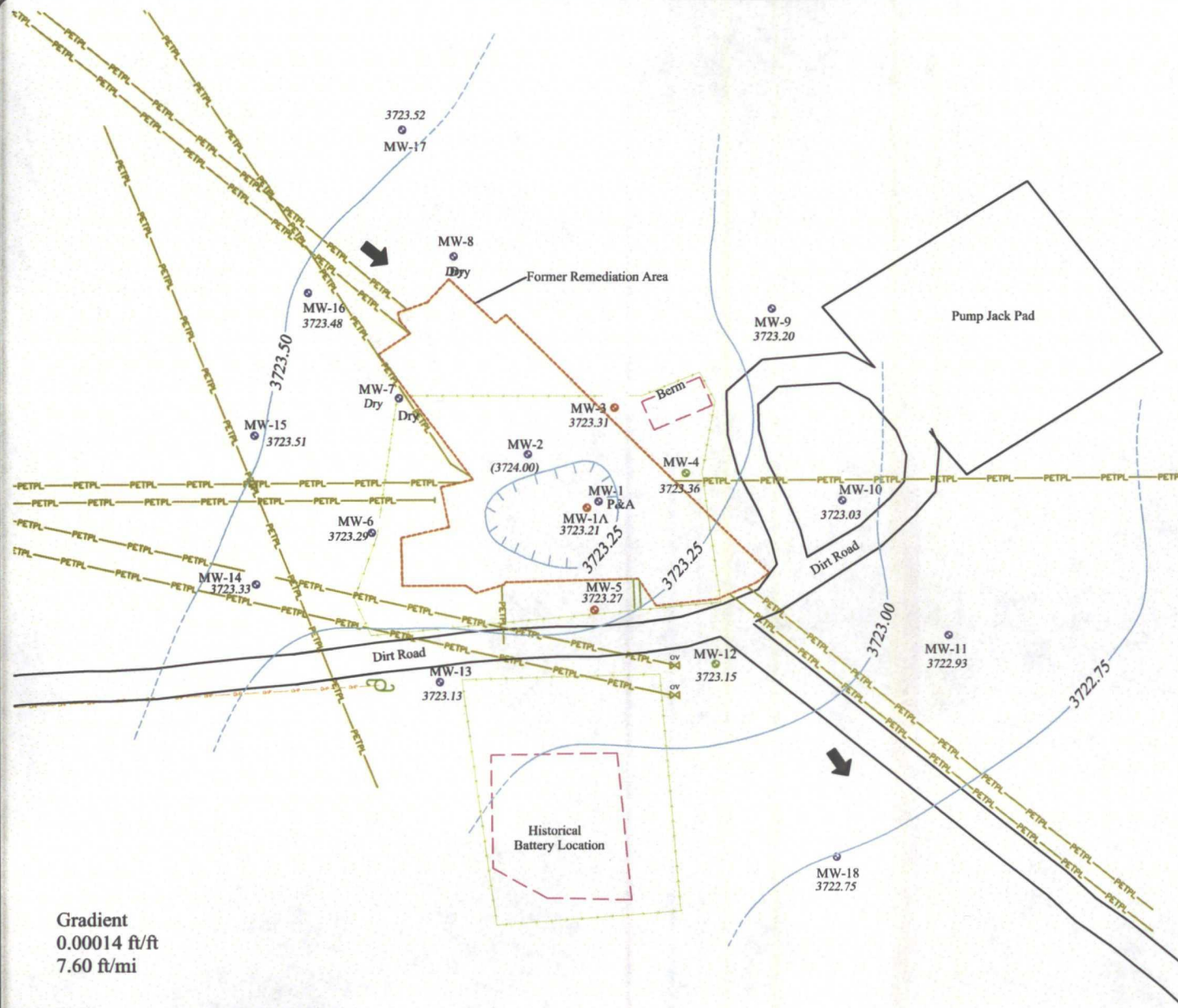


Date: 07/07/2011

Scale: 1" = 100'

Drawn By: TJS

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



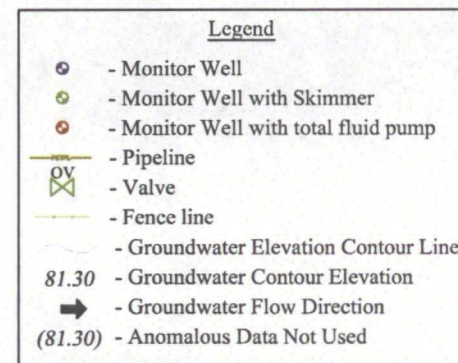
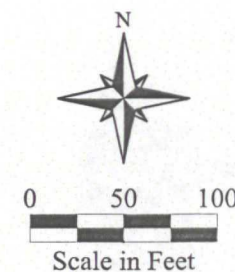
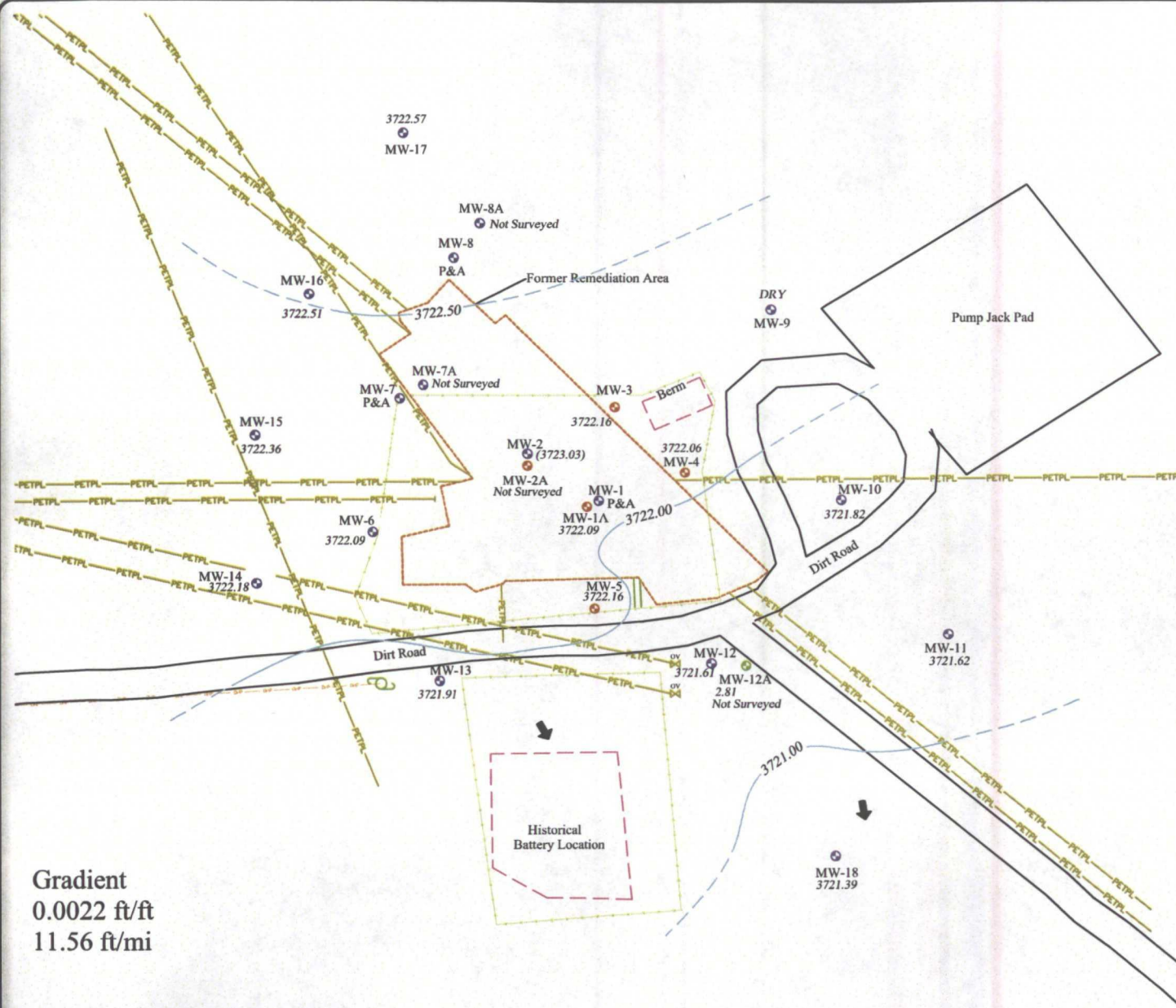
Gradient
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7.60 ft/mi

Talon/LPE # : 700376.049.01



Date: 04/08/2011
Scale: 1" = 100'
Drawn By: TJS

C.S. Cayler
SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, New Mexico
Figure 2a - Groundwater Gradient Map, (03/25/2011)



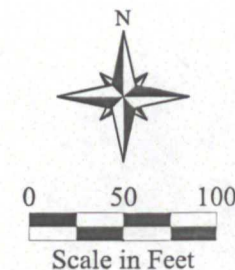
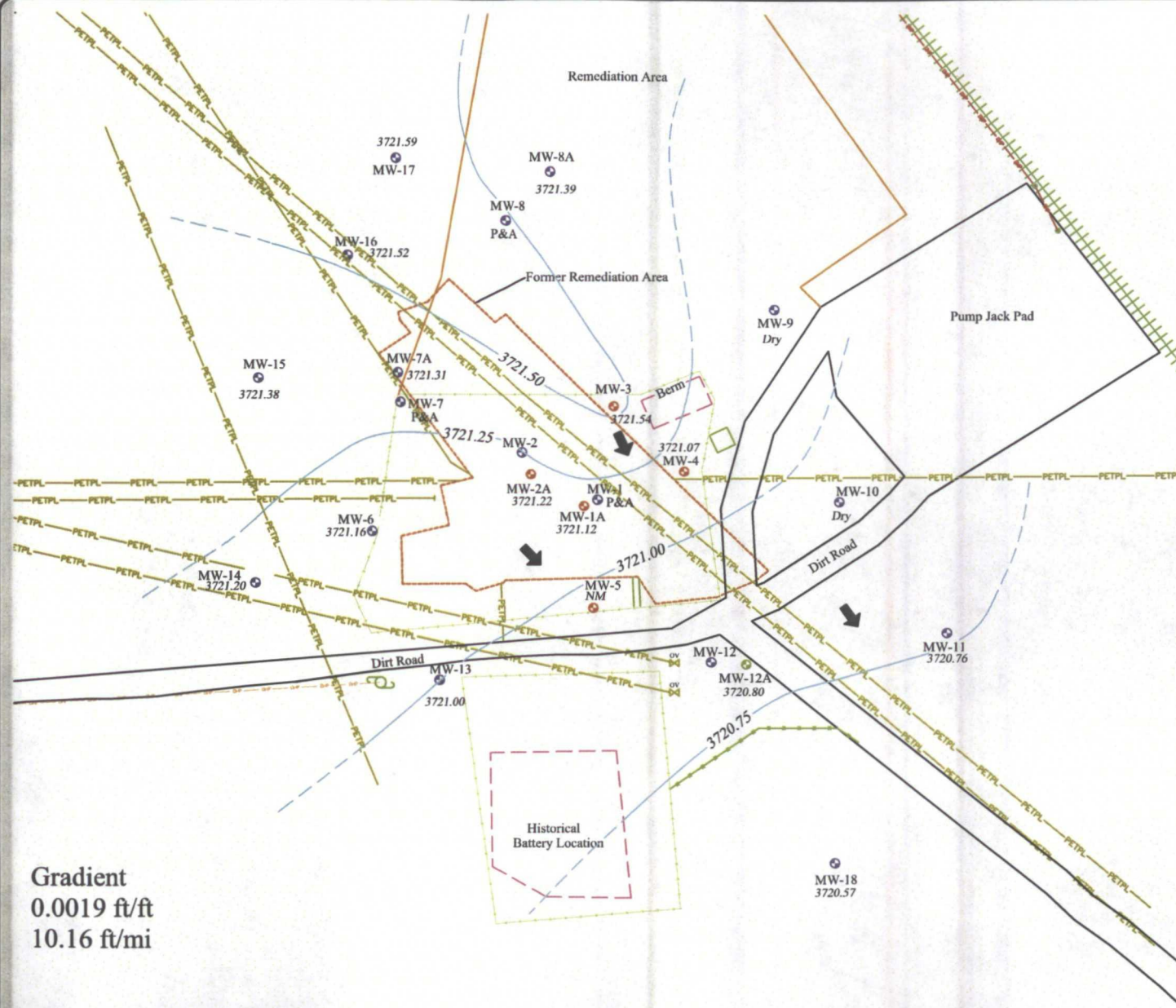
Gradient
0.0022 ft/ft
11.56 ft/mi

Talon/LPE #: 700376.049.01



Date: 07/07/2011
Scale: 1" = 100'
Drawn By: TJS

C.S. Cayler
SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, New Mexico
Figure 2b - Groundwater Gradient Map, (06/27/2011)



- Legend**
- - Monitor Well
 - - Monitor Well with Skimmer
 - - Monitor Well with total fluid pump
 - PETPL — Pipeline
 - OV Valve
 - Fence line
 - Groundwater Elevation Contour Line
 - 81.30 - Groundwater Contour Elevation
 - ➔ - Groundwater Flow Direction
 - (81.30) - Anomalous Data Not Used

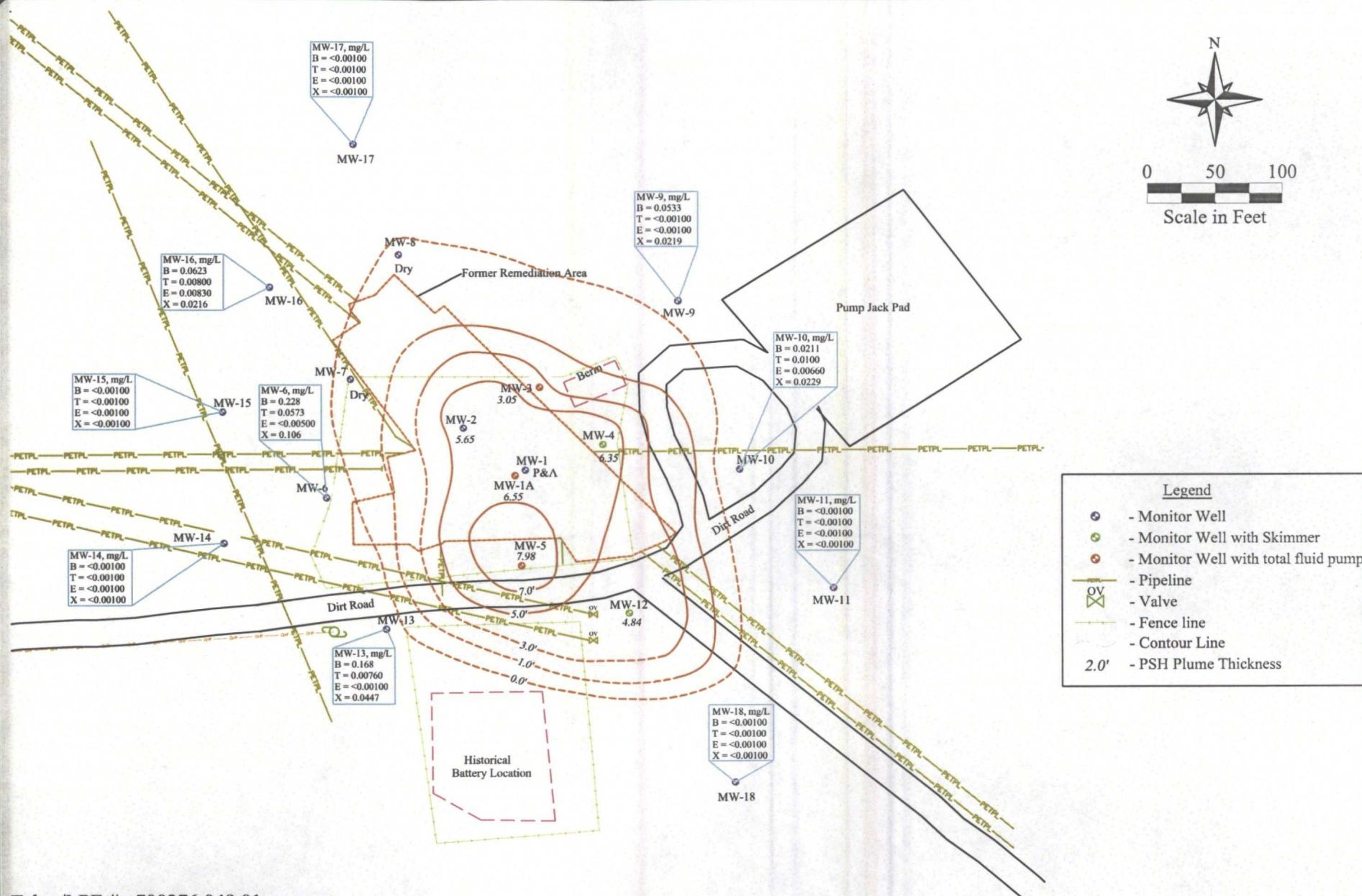
Gradient
0.0019 ft/ft
10.16 ft/mi

Talon/LPE # : 700376.049.01



Date: 10/13/2011
Scale: 1" = 100'
Drawn By: TJS

C.S. Cayler
SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, New Mexico
Figure 2c - Groundwater Gradient Map, (09/28/2011)



Talon/LPE #: 700376.049.01



Date: 04/08/2011

Scale: 1" = 100'

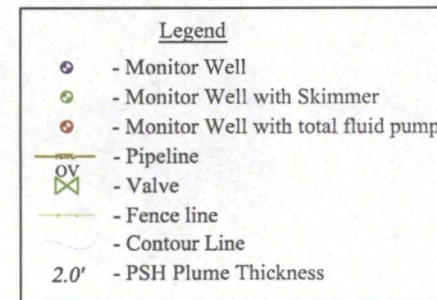
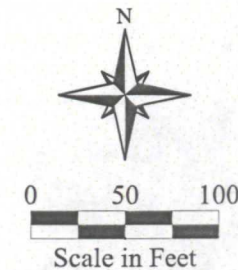
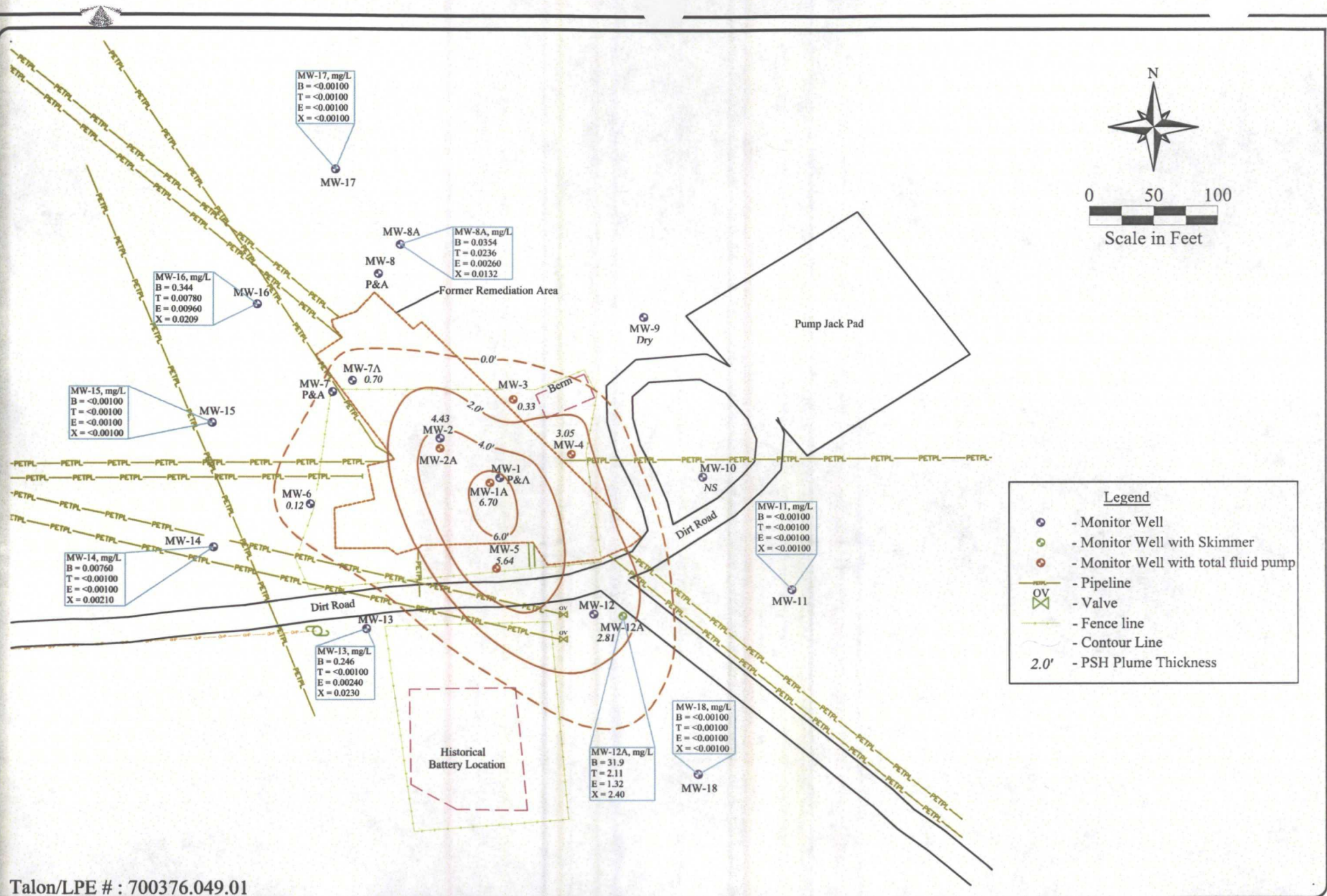
Drawn By: TJS

C.S. Cayler

SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)

Lea County, New Mexico

Figure 3a - PSH Thickness & Groundwater Concentration Map, (03/25/2011)



Talon/LPE #: 700376.049.01



Date: 07/07/2011

Scale: 1" = 100'

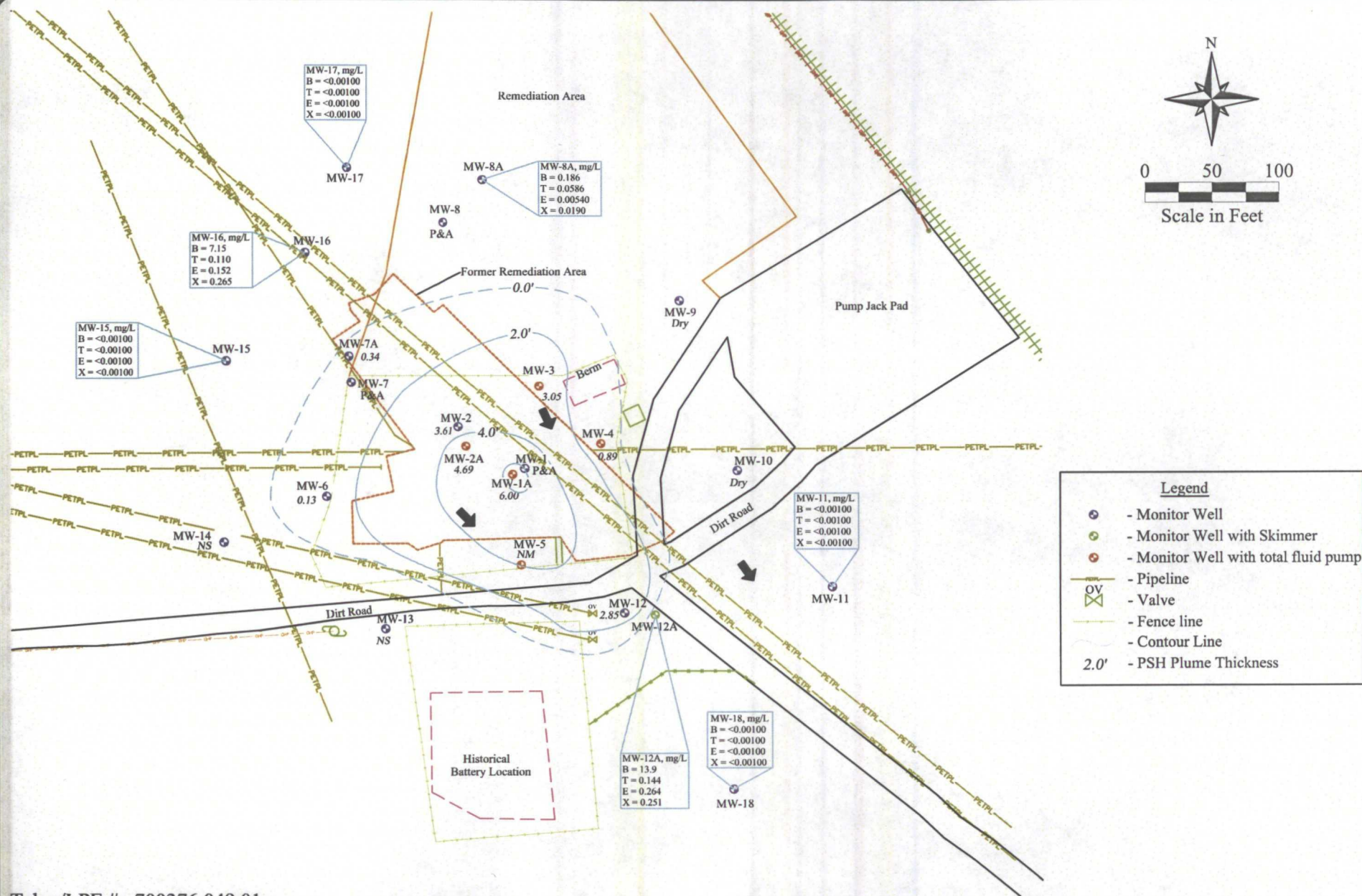
Drawn By: TJS

C.S. Caylor

SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)

Lea County, New Mexico

Figure 3b - PSH Thickness & Groundwater Concentration Map, (06/27/2011)



Talon/LPE #: 700376.049.01



Date: 10/13/2011

Scale: 1" = 100'

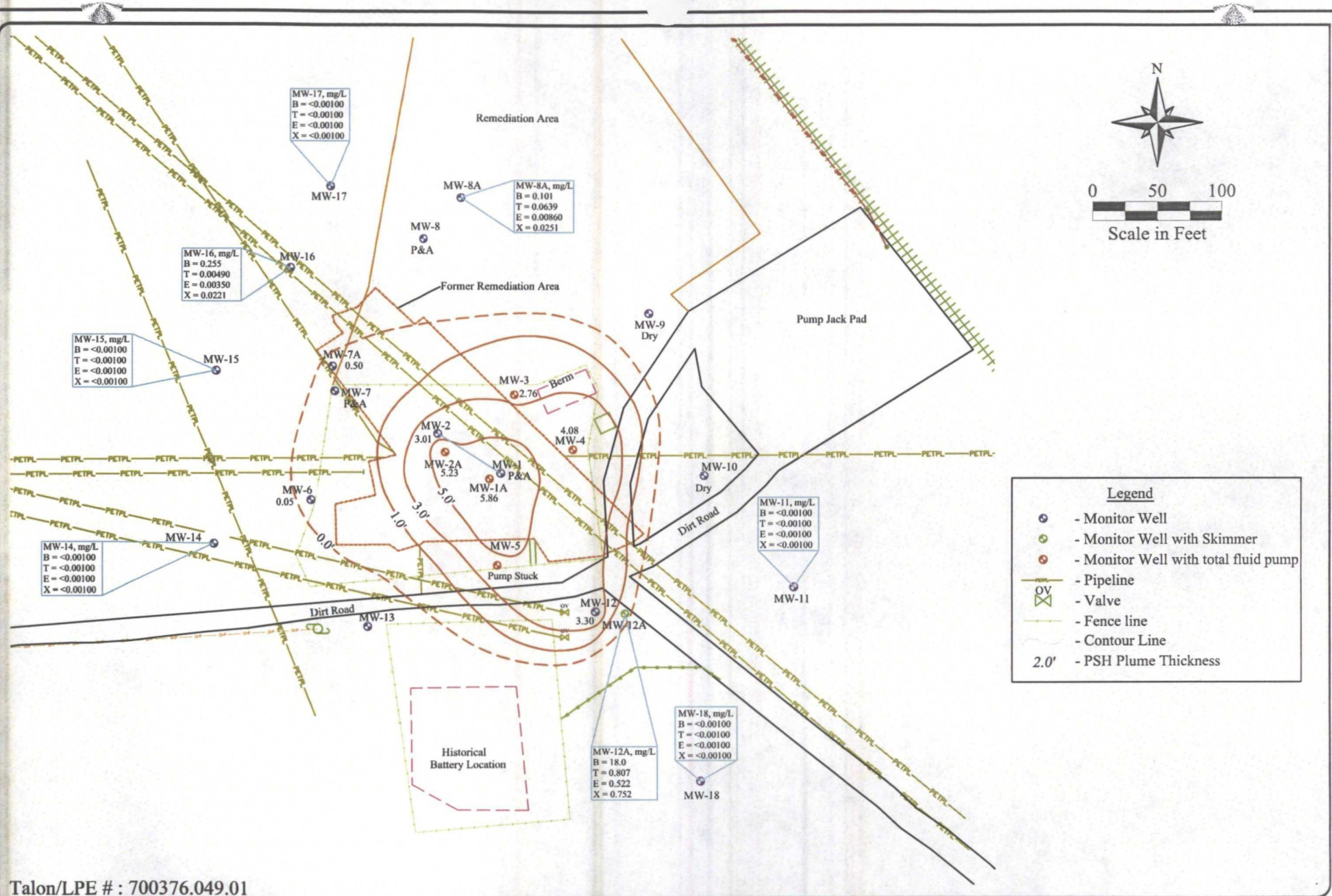
Drawn By: TJS

C.S. Cayler

SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)

Lea County, New Mexico

Figure 3c - PSH Thickness & Groundwater Concentration Map, (09/28-29/2011)



Talon/LPE #: 700376.049.01



Date: 01/18/2012

Scale: 1" = 100'

Drawn By: TJS

C.S. Cayler

SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)

Lea County, New Mexico

Figure 3d - PSH Thickness & Groundwater Concentration Map, (01/05/2012)

APPENDIX B

Tables

Table 1 – Summary of Historical Fluid Level Measurements

Table 2 – Summary of Groundwater Analytical Results - BTEX

Table 3 - Summary of Groundwater Analytical Results – PAH

Chart 1 – Product Recovery Chart



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-1	10/17/02	WELL INSTALLED 17-Oct-02				
MW-1	03/07/03	3,803.97	72.28	84.20	11.92	3,729.72
MW-1	03/11/03		72.30	84.19	11.89	3,729.71
MW-1	03/17/03		72.33	84.25	11.92	3,729.67
MW-1	03/22/03		72.35	84.24	11.89	3,729.66
MW-1	05/06/03		71.55	83.11	11.56	3,730.51
MW-1	05/07/03		71.58	83.05	11.47	3,730.50
MW-1	05/08/03		71.55	83.03	11.48	3,730.53
MW-1	05/09/03		71.53	83.00	11.47	3,730.55
MW-1	05/15/03		71.57	83.01	11.44	3,730.51
MW-1	05/16/03		71.59	82.90	11.31	3,730.51
MW-1	05/28/03		71.65	82.50	10.85	3,730.53
MW-1	06/11/03		71.75	82.57	10.82	3,730.43
MW-1	08/14/03		63.45	73.41	9.96	3,738.88
MW-1	01/02/04		64.31	73.63	9.32	3,738.12
MW-1	04/12/04		64.74	73.74	9.00	3,737.75
MW-1	06/01/04		64.87	73.52	8.65	3,737.67
MW-1	06/21/04		65.04	73.49	8.45	3,737.54
MW-1	07/14/04		67.52	75.92	8.40	3,735.06
MW-1	10/17/04		68.38	73.28	4.90	3,734.78
MW-1	10/29/04		68.53	73.45	4.92	3,734.63
MW-1	03/31/05		68.23	73.00	4.77	3,734.95
MW-1	04/25/05		68.56	72.68	4.12	3,734.73
MW-1	05/31/05		68.57	72.61	4.04	3,734.73
MW-1	06/29/05		68.88	73.72	4.84	3,734.29
MW-1	09/15/05		69.79	73.63	3.84	3,733.55
MW-1	11/14/05		70.44	73.26	2.82	3,733.06
MW-1	01/23/06		70.72	73.80	3.08	3,732.74
MW-1	03/01/06		70.41	73.59	3.18	3,733.04
MW-1	05/25/06		71.05	73.20	2.15	3,732.57
MW-1	08/14/06		72.46	73.76	1.30	3,731.30
MW-1	11/29/06		73.31	73.69	0.38	3,730.60



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-1	01/11/07		73.31	73.69	0.38	3,730.60
MW-1	02/08/07		73.38	73.73	0.35	3,730.53
MW-1	04/03/07		73.86	82.21	8.35	3,728.73
MW-1	04/11/07		74.06	82.27	8.21	3,728.56
MW-1	04/17/07		74.21	82.63	8.42	3,728.37
MW-1	05/14/07		74.06	82.00	7.94	3,728.60
MW-1	06/26/07		73.80	NA		NA
MW-1	06/28/07		DRY			
MW-1	09/14/07		DRY			
MW-1	09/26/07		DRY			
MW-1	10/05/07		DRY			
MW-1	10/09/07		DRY			
MW-1	10/19/07		DRY			
MW-1	10/24/07		DRY			
MW-1	10/31/07		DRY			
MW-1	11/28/07		DRY			
MW-1	12/03/07		DRY			
MW-1	01/03/08		DRY			
MW-1	01/08/08		DRY			
MW-1	01/14/08		DRY			
MW-1	01/23/08		DRY			
MW-1	01/28/08		DRY			
MW-1	02/11/08		DRY			
MW-1	03/12/08		DRY			
MW-1	03/26/08		DRY			
MW-1	04/01/08		DRY			
MW-1	08/13/08		DRY			
MW-1	09/18/08	WELL PLUGGED 9/18/08				
MW-1A	09/18/08	WELL INSTALLED 9/18/08 TD=96.20				
MW-1A	09/23/08	3,810.02	82.40	89.71	7.31	3,726.41
MW-1A	12/04/08		82.50	89.55	7.05	3,726.36



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-1A	01/21/09		82.11	89.61	7.50	3,726.67
MW-1A	02/18/09	3,810.14	82.34	89.70	7.36	3,726.59
MW-1A	04/06/09		82.76	90.26	7.50	3,726.14
MW-1A	06/10/09		83.22	90.54	7.32	3,725.71
MW-1A	08/25/09	Well Not Gauged Due to Total Fluid Pump				
MW-1A	12/10/09		84.68	91.52	6.84	3,724.33
MW-1A	01/08/10		84.65	90.80	6.15	3,724.48
MW-1A	02/18/10		85.29	87.95	2.66	3,724.41
MW-1A	06/09/10		84.95	93.02	8.07	3,723.86
MW-1A	09/21/10		86.04	93.13	7.09	3,722.93
MW-1A	12/17/10		88.92	91.52	2.60	3,720.79
MW-1A	03/25/11		85.85	92.40	6.55	3,723.21
MW-1A	06/22/11		86.94	93.64	6.70	3,722.09
MW-1A	09/28/11		88.03	94.03	6.00	3,721.12
MW-1A	01/05/12		87.74	93.60	5.86	3,721.43
WELL INSTALLED 5/28/04 TD=88.10						
MW-2	05/28/04					
MW-2	06/01/04	3,803.93	67.17	77.76	10.59	3,735.01
MW-2	06/21/04		67.27	77.93	10.66	3,734.90
MW-2	07/14/04		67.38	78.09	10.71	3,734.78
MW-2	10/16/04		68.79	74.04	5.25	3,734.27
MW-2	10/29/04		67.97	77.70	9.73	3,734.35
MW-2	03/31/05		68.23	78.50	10.27	3,734.01
MW-2	04/25/05		68.37	77.03	8.66	3,734.13
MW-2	05/31/05		68.46	76.97	8.51	3,734.07
MW-2	06/29/05		69.09	76.12	7.03	3,733.68
MW-2	09/15/05		69.75	79.14	9.39	3,732.63
MW-2	11/14/05		70.66	78.44	7.78	3,731.99
MW-2	01/23/06		70.95	78.27	7.32	3,731.77
MW-2	03/01/06		70.53	77.41	6.88	3,732.26
MW-2	05/25/06		72.19	75.49	3.30	3,731.20
MW-2	08/14/06		73.08	78.31	5.23	3,729.99



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-2	11/29/06		74.09	78.20	4.11	3,729.16
MW-2	12/12/06		74.53	77.57	3.04	3,728.90
MW-2	01/11/07		74.22	78.81	4.59	3,728.95
MW-2	02/08/07		75.11	75.18	0.07	3,728.81
MW-2	04/03/07		73.95	82.11	8.16	3,728.63
MW-2	04/11/07		74.02	82.30	8.28	3,728.54
MW-2	04/17/07		74.02	82.41	8.39	3,728.53
MW-2	05/14/07		74.03	82.55	8.52	3,728.49
MW-2	06/26/07		74.20	82.64	8.44	3,728.34
MW-2	06/28/07		74.36	82.48	8.12	3,728.23
MW-2	08/13/07		74.71	81.91	7.20	3,728.03
MW-2	08/17/07		75.66	79.30	3.64	3,727.67
MW-2	08/21/07		NA	76.19		3,727.74
MW-2	08/28/07		75.84	78.91	3.07	3,727.58
MW-2	09/14/07		75.63	79.29	3.66	3,727.70
MW-2	09/26/07		74.88	82.41	7.53	3,727.81
MW-2	10/05/07		74.85	82.70	7.85	3,727.78
MW-2	10/08/07		74.87	82.71	7.84	3,727.77
MW-2	10/19/07		74.87	82.96	8.09	3,727.73
MW-2	10/24/07		74.87	83.04	8.17	3,727.71
MW-2	10/31/07		74.88	83.11	8.23	3,727.69
MW-2	11/12/07		74.82	83.19	8.37	3,727.73
MW-2	11/28/07		74.89	83.27	8.38	3,727.66
MW-2	12/03/07		74.83	83.20	8.37	3,727.72
MW-2	01/03/08		75.32	83.50	8.18	3,727.26
MW-2	01/08/08		74.76	82.25	7.49	3,727.93
MW-2	01/14/08		75.49	83.23	7.74	3,727.16
MW-2	01/23/08		75.45	83.43	7.98	3,727.16
MW-2	01/28/08		75.38	83.47	8.09	3,727.22
MW-2	02/11/08		74.94	83.02	8.08	3,727.66
MW-2	03/12/08		75.40	83.54	8.14	3,727.19
MW-2	03/26/08		75.14	83.99	8.85	3,727.33



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-2	04/01/08		76.19	83.34	7.15	3,726.56
MW-2	04/11/08		76.73	80.62	3.89	3,726.56
MW-2	04/15/08		76.33	79.08	2.75	3,727.15
MW-2	04/22/08		75.66	79.07	3.41	3,727.71
MW-2	04/28/08		76.00	83.17	7.17	3,726.75
MW-2	05/06/08		75.68	79.12	3.44	3,727.68
MW-2	05/16/08		75.40	83.02	7.62	3,727.27
MW-2	05/22/08		75.61	82.32	6.71	3,727.21
MW-2	07/25/08		79.90	87.72	7.82	3,722.74
MW-2	08/13/08		80.21	88.82	8.61	3,722.30
MW-2	09/23/08	3,807.67	79.34	85.88	6.54	3,727.25
MW-2	10/15/08			79.89	79.89	3,794.49
MW-2	12/04/08		79.68	84.90	5.22	3,727.13
MW-2	01/21/09		74.92	79.30	4.38	3,732.03
MW-2	02/18/09	3,807.38	79.99	86.26	6.27	3,726.36
MW-2	04/06/09		80.46	86.28	5.82	3,725.96
MW-2	06/10/09		81.05	85.86	4.81	3,725.54
MW-2	08/25/09		82.45	85.30	2.85	3,724.46
MW-2	12/10/09		82.74	86.22	3.48	3,724.07
MW-2	01/08/10		81.79	86.25	4.46	3,724.85
MW-2	02/18/10		81.50	87.12	5.62	3,724.95
MW-2	06/09/10		88.21	ND		
MW-2	09/21/10		NM - Pump Stuck			
MW-2	12/17/10		NM - Pump Stuck			
MW-2	03/25/11		82.45	88.10	5.65	3,724.00
MW-2	06/22/11		83.62	88.05	4.43	3,723.03
MW-2	09/28/11		84.47	88.08	3.61	3,722.31
MW-2	01/05/12		84.47	88.06	3.59	3,722.32
MW-2A	04/28/11	WELL INSTALLED 28-April-11 TD=109.32'				
MW-2A	05/10/11			87.44		NS
MW-2A	06/22/11		88.00	88.26	0.26	3,722.10



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-2A	07/06/11	3,810.14				
MW-2A	09/28/11		88.15	92.84	4.69	3,721.22
MW-2A	01/05/12		87.64	93.87	6.23	3,721.47
MW-3	05/31/04	WELL INSTALLED 31-May-04 TD=93.53				
MW-3	06/21/04	3,810.20	75.51	75.51	0.00	3,734.69
MW-3	07/14/04		74.39	81.31	6.92	3,734.67
MW-3	08/26/04		74.75	84.31	9.56	3,733.87
MW-3	10/16/04		75.53	77.55	2.02	3,734.34
MW-3	10/29/04		75.45	79.00	3.55	3,734.16
MW-3	03/31/05		74.65	83.60	8.95	3,734.07
MW-3	04/25/05		74.81	82.74	7.93	3,734.08
MW-3	05/31/05		75.00	82.16	7.16	3,734.02
MW-3	06/29/05		75.83	80.44	4.61	3,733.61
MW-3	09/15/05		76.09	85.47	9.38	3,732.56
MW-3	11/14/05		77.81	81.11	3.30	3,731.85
MW-3	01/23/06		77.78	81.74	3.96	3,731.77
MW-3	03/01/06		77.43	81.49	4.06	3,732.10
MW-3	05/25/06		78.49	81.15	2.66	3,731.27
MW-3	08/14/06		79.51	84.36	4.85	3,729.89
MW-3	01/11/07		80.78	84.05	3.27	3,728.88
MW-3	02/08/07		83.65	83.66	0.01	3,726.55
MW-3	04/03/07		80.25	88.51	8.26	3,728.59
MW-3	04/11/07		80.69	88.97	8.28	3,728.14
MW-3	04/17/07		80.38	88.78	8.40	3,728.43
MW-3	05/14/07		80.43	89.56	9.13	3,728.26
MW-3	06/26/07		81.74	89.12	7.38	3,727.24
MW-3	06/28/07		80.69	89.05	8.36	3,728.13
MW-3	08/13/07		81.08	89.43	8.35	3,727.74
MW-3	08/17/07		82.05	83.50	1.45	3,727.91
MW-3	08/21/07		82.65	82.68	0.03	3,727.55
MW-3	08/28/07		81.51	88.44	6.93	3,727.55



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-3	09/14/07		81.42	86.89	5.47	3,727.88
MW-3	09/26/07		81.22	88.92	7.70	3,727.71
MW-3	10/05/07		81.14	88.99	7.85	3,727.76
MW-3	10/08/07		81.14	89.00	7.86	3,727.76
MW-3	10/19/07		81.23	89.39	8.16	3,727.62
MW-3	10/24/07		81.24	89.35	8.11	3,727.62
MW-3	10/31/07		81.24	89.47	8.23	3,727.60
MW-3	11/12/07		81.25	89.39	8.14	3,727.61
MW-3	11/28/07		81.26	89.44	8.18	3,727.59
MW-3	12/03/07		81.26	89.36	8.10	3,727.60
MW-3	01/03/08		81.17	89.41	8.24	3,727.67
MW-3	01/08/08		81.11	89.05	7.94	3,727.78
MW-3	01/14/08		81.62	88.39	6.77	3,727.46
MW-3	01/23/08		80.84	87.89	7.05	3,728.20
MW-3	01/28/08		80.31	88.20	7.89	3,728.59
MW-3	02/11/08		81.92	88.49	6.57	3,727.20
MW-3	03/12/08		81.43	87.43	6.00	3,727.78
MW-3	03/26/08		80.57	88.54	7.97	3,728.31
MW-3	04/01/08		82.06	87.81	5.75	3,727.19
MW-3	04/11/08		81.90	87.81	5.91	3,727.32
MW-3	04/15/08		82.04	87.85	5.81	3,727.20
MW-3	04/22/08		82.01	87.90	5.89	3,727.22
MW-3	04/28/08		82.11	87.24	5.13	3,727.24
MW-3	05/06/08		82.00	87.94	5.94	3,727.22
MW-3	05/16/08		82.24	88.07	5.83	3,727.00
MW-3	05/22/08		82.94	89.22	6.28	3,726.22
MW-3	06/19/08		83.09	85.71	2.62	3,726.68
MW-3	07/25/08		83.35	88.33	4.98	3,726.03
MW-3	08/13/08		83.21	89.65	6.44	3,725.93
MW-3	09/23/08	3,810.35	83.28	86.97	3.69	3,726.46
MW-3	10/15/08		84.04	84.22	0.18	3,726.28
MW-3	12/04/08		83.61	85.01	1.40	3,726.51



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-3	01/21/09		82.68	87.80	5.12	3,726.83
MW-3	02/18/09	3,810.36	84.82	88.49	3.67	3,724.93
MW-3	04/06/09		83.33	89.47	6.14	3,726.02
MW-3	06/10/09		83.58	89.41	5.83	3,725.82
MW-3	08/25/09		84.35	90.90	6.55	3,724.93
MW-3	12/10/09		85.04	92.01	6.97	3,724.17
MW-3	01/08/10		84.83	91.51	6.68	3,724.43
MW-3	02/18/10		84.81	91.41	6.60	3,724.46
MW-3	06/09/10		85.22	91.78	6.56	3,724.06
MW-3	09/21/10		NM - Pump Stuck			
MW-3	12/17/10		86.56	89.21	2.65	3,723.36
MW-3	03/25/11		86.55	89.60	3.05	3,723.31
MW-3	06/22/11		88.15	88.48	0.33	3,722.16
MW-3	09/28/11		88.32	91.37	3.05	3,721.54
MW-3	01/05/12		88.73	93.49	4.76	3,720.84
MW-4	06/01/04	WELL INSTALLED 01-Jun-04 TD=93.16				
MW-4	06/21/04	3,810.70	76.04	76.04		3,734.66
MW-4	07/14/04		74.51	83.91	9.40	3,734.64
MW-4	08/26/04		74.21	83.61	9.40	3,734.94
MW-4	10/16/04		75.77	80.56	4.79	3,734.14
MW-4	10/17/04		75.76	80.96	5.20	3,734.08
MW-4	10/29/04		75.56	81.42	5.86	3,734.17
MW-4	03/31/05		73.51	81.95	8.44	3,735.80
MW-4	04/25/05		75.53	82.62	7.09	3,734.00
MW-4	05/31/05		75.55	82.86	7.31	3,733.94
MW-4	06/29/05		75.96	83.51	7.55	3,733.49
MW-4	09/15/05		76.71	86.23	9.52	3,732.42
MW-4	11/14/05		77.64	85.38	7.74	3,731.78
MW-4	01/23/06		77.79	84.93	7.14	3,731.73
MW-4	03/01/06		77.48	84.12	6.64	3,732.12
MW-4	05/25/06		78.28	85.22	6.94	3,731.27



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-4	08/14/06		79.78	86.67	6.89	3,729.78
MW-4	11/29/06		80.29	85.15	4.86	3,729.61
MW-4	12/12/06		81.71	86.01	4.30	3,728.28
MW-4	01/11/07		80.03	82.77	2.74	3,730.22
MW-4	02/08/07		81.28	82.70	1.42	3,729.19
MW-4	04/03/07		80.78	89.44	8.66	3,728.49
MW-4	04/11/07		80.85	89.55	8.70	3,728.41
MW-4	04/17/07		80.92	89.05	8.13	3,728.44
MW-4	05/14/07		80.96	89.68	8.72	3,728.30
MW-4	06/26/07		81.41	89.82	8.41	3,727.90
MW-4	06/28/07		81.28	89.71	8.43	3,728.03
MW-4	08/13/07		81.76	89.92	8.16	3,727.59
MW-4	08/17/07		80.36	87.55	7.19	3,729.15
MW-4	08/21/07		82.01	89.41	7.40	3,727.47
MW-4	08/28/07		NA	79.50		3,731.20
MW-4	09/14/07		81.76	89.85	8.09	3,727.61
MW-4	09/26/07		81.73	88.89	7.16	3,727.79
MW-4	10/05/07		81.66	89.80	8.14	3,727.70
MW-4	10/08/07		81.65	89.78	8.13	3,727.71
MW-4	10/19/07		81.80	90.05	8.25	3,727.54
MW-4	10/24/07		81.80	89.99	8.19	3,727.55
MW-4	10/31/07		81.82	90.07	8.25	3,727.52
MW-4	11/12/07		82.02	89.84	7.82	3,727.39
MW-4	11/28/07		81.93	89.82	7.89	3,727.47
MW-4	12/03/07		81.91	89.72	7.81	3,727.50
MW-4	01/03/08		81.66	89.19	7.53	3,727.80
MW-4	01/08/08		81.70	89.31	7.61	3,727.74
MW-4	01/14/08		81.98	88.87	6.89	3,727.58
MW-4	01/23/08		82.17	87.76	5.59	3,727.61
MW-4	01/28/08		81.77	89.17	7.40	3,727.71
MW-4	02/11/08		81.29	88.75	7.46	3,728.18
MW-4	03/12/08		81.86	88.79	6.93	3,727.70



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-4	03/26/08		82.67	86.36	3.69	3,727.42
MW-4	04/01/08		82.56	88.83	6.27	3,727.11
MW-4	04/11/08		82.49	88.94	6.45	3,727.15
MW-4	04/15/08		82.31	89.90	7.59	3,727.14
MW-4	04/22/08		82.36	89.26	6.90	3,727.20
MW-4	05/06/08		83.98	90.27	6.29	3,725.68
MW-4	05/16/08		82.89	90.01	7.12	3,726.64
MW-4	05/22/08		82.39	90.19	7.80	3,727.02
MW-4	06/19/08		82.78	90.45	7.67	3,726.65
MW-4	07/25/08		83.71	91.11	7.40	3,725.77
MW-4	08/13/08		83.60	91.07	7.47	3,725.87
MW-4	09/23/08	3,810.82	83.36	90.47	7.11	3,726.29
MW-4	10/15/08		83.78	88.43	4.65	3,726.27
MW-4	12/04/08		83.32	89.40	6.08	3,726.50
MW-4	01/21/09		82.79	90.31	7.52	3,726.79
MW-4	02/18/09	3,810.81	83.05	90.35	7.30	3,726.56
MW-4	04/06/09		84.24	91.58	7.34	3,725.36
MW-4	06/10/09		83.88	91.42	7.54	3,725.69
MW-4	08/25/09		84.90	92.00	7.10	3,724.74
MW-4	12/10/09		85.30	92.34	7.04	3,724.35
MW-4	01/08/10		85.47	92.15	6.68	3,724.24
MW-4	02/18/10		92.31	95.42	3.11	3,717.99
MW-4	06/09/10		86.38	90.06	3.68	3,723.82
MW-4	09/21/10		87.13	92.72	5.59	3,722.76
MW-4	12/17/10		87.32	89.22	1.90	3,723.18
MW-4	03/25/11		86.40	92.75	6.35	3,723.36
MW-4	06/22/11		88.25	91.30	3.05	3,722.06
MW-4	09/28/11		89.59	90.48	0.89	3,721.07
MW-4	01/05/12		88.92	93.00	4.08	3,721.22
MW-5	06/05/04	WELL INSTALLED 05-Jun-04 TD=93.41				
MW-5	06/21/04	3,809.05	--	74.42		3,734.63



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-5	07/14/04		--	74.53		3,734.52
MW-5	10/29/04		--	75.00		3,734.05
MW-5	11/19/04		--	75.10		3,733.95
MW-5	03/31/05		--	75.18		3,733.87
MW-5	04/25/05		--	75.19		3,733.86
MW-5	05/12/05		--	75.22		3,733.83
MW-5	05/31/05		--	75.25		3,733.80
MW-5	06/29/05		--	75.67		3,733.38
MW-5	08/22/05		--	76.64		3,732.41
MW-5	09/15/05		--	76.75		3,732.30
MW-5	11/14/05		--	77.39		3,731.66
MW-5	01/23/06		77.21	79.19	1.98	3,732.48
MW-5	03/01/06		76.59	79.18	2.59	3,733.00
MW-5	05/25/06		77.41	79.93	2.52	3,732.19
MW-5	08/14/06		78.99	80.63	1.64	3,730.76
MW-5	11/29/06		78.91	85.95	7.04	3,729.95
MW-5	01/11/07		78.85	86.30	7.45	3,729.94
MW-5	02/08/07		78.82	86.29	7.47	3,729.97
MW-5	02/20/07		79.22	85.66	6.44	3,729.74
MW-5	03/06/07		79.15	86.07	6.92	3,729.73
MW-5	03/14/07		78.68	85.60	6.92	3,730.20
MW-5	03/27/07		79.64	86.03	6.39	3,729.33
MW-5	03/29/07		79.36	86.25	6.89	3,729.52
MW-5	04/03/07		79.38	86.71	7.33	3,729.43
MW-5	04/11/07		79.91	87.02	7.11	3,728.94
MW-5	04/17/07		79.52	88.90	9.38	3,728.95
MW-5	05/24/07		79.54	86.90	7.36	3,729.27
MW-5	06/26/07		79.94	87.32	7.38	3,728.86
MW-5	06/28/07		79.84	87.25	7.41	3,728.96
MW-5	08/13/07		80.26	81.66	1.40	3,729.53
MW-5	08/21/07		80.39	87.63	7.24	3,728.44
MW-5	08/28/07		80.49	87.64	7.15	3,728.35



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-5	09/14/07		80.32	87.59	7.27	3,728.50
MW-5	09/26/07		81.72	87.66	5.94	3,727.32
MW-5	10/05/07		80.22	87.51	7.29	3,728.60
MW-5	10/08/07		80.20	87.52	7.32	3,728.61
MW-5	10/19/07		80.44	87.66	7.22	3,728.39
MW-5	10/24/07		80.36	87.73	7.37	3,728.44
MW-5	10/31/07		80.37	87.85	7.48	3,728.42
MW-5	11/12/07		80.36	87.51	7.15	3,728.48
MW-5	12/28/07		80.83	87.61	6.78	3,728.07
MW-5	12/03/07		80.34	87.35	7.01	3,728.52
MW-5	01/03/08		80.17	86.72	6.55	3,728.77
MW-5	01/08/08		80.17	86.85	6.68	3,728.75
MW-5	01/14/08		80.32	86.74	6.42	3,728.64
MW-5	01/23/08		82.34	85.78	3.44	3,727.11
MW-5	01/28/08		80.25	87.03	6.78	3,728.65
MW-5	02/11/08		80.26	86.34	6.08	3,728.76
MW-5	03/12/08		80.28	86.93	6.65	3,728.64
MW-5	03/26/08		81.23	84.33	3.10	3,728.28
MW-5	04/01/08		81.38	84.40	3.02	3,728.14
MW-5	04/11/08		81.79	83.35	1.56	3,727.97
MW-5	04/15/08		81.77	83.38	1.61	3,727.98
MW-5	04/22/08		81.50	82.54	1.04	3,728.35
MW-5	04/28/08		81.87	82.13	0.26	3,728.11
MW-5	05/06/08		81.51	82.56	1.05	3,728.34
MW-5	05/16/08		82.15	82.56	0.41	3,727.80
MW-5	05/22/08		81.92	83.49	1.57	3,727.84
MW-5	06/19/08		81.24	88.59	7.35	3,727.57
MW-5	07/25/08		81.76	88.92	7.16	3,727.08
MW-5	08/13/08		82.07	89.27	7.20	3,726.76
MW-5	09/23/08	3,809.21	82.61	83.73	1.12	3,726.42
MW-5	10/15/08		82.98	83.20	0.22	3,726.19
MW-5	12/04/08		82.77	83.31	0.54	3,726.35



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-5	01/21/09		81.48	87.40	5.92	3,726.75
MW-5	02/18/09	3,809.29	81.90	86.67	4.77	3,726.60
MW-5	04/06/09		82.40	86.98	4.58	3,726.13
MW-5	06/10/09		83.41	84.72	1.31	3,725.66
MW-5	08/25/09		84.03	87.40	3.37	3,724.70
MW-5	12/10/09		83.75	90.78	7.03	3,724.38
MW-5	01/08/10		83.69	90.13	6.44	3,724.54
MW-5	02/18/10		83.69	90.15	6.46	3,724.53
MW-5	06/09/10		85.02	87.17	2.15	3,723.92
MW-5	09/21/10		84.95	92.82	7.87	3,723.04
MW-5	12/17/10		85.42	87.87	2.45	3,723.47
MW-5	03/25/11		84.70	92.68	7.98	3,723.27
MW-5	06/22/11		86.25	91.89	5.64	3,722.11
MW-5	09/28/11		Not gauged - pump stuck			
MW-5	01/05/12		Not gauged - pump stuck			
MW-6	10/21/04	WELL INSTALLED 21-Oct-04 (TD-88.31)				
MW-6	10/27/04	3,809.17		75.13		3,734.04
MW-6	10/29/04			75.13		3,734.04
MW-6	11/19/04			75.23		3,733.94
MW-6	03/31/05			75.33		3,733.84
MW-6	04/25/05			75.27		3,733.90
MW-6	05/12/05			75.30		3,733.87
MW-6	05/31/05			75.33		3,733.84
MW-6	06/29/05			75.68		3,733.49
MW-6	08/22/05			76.63		3,732.54
MW-6	09/15/05			76.80		3,732.37
MW-6	11/14/05			77.41		3,731.76
MW-6	01/23/06			77.60		3,731.57
MW-6	03/01/06			77.01		3,732.16
MW-6	05/25/06			77.92		3,731.25
MW-6	08/14/06			79.18		3,729.99



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-6	11/29/06			80.12		3,729.05
MW-6	12/12/06			80.19		3,728.98
MW-6	01/11/07			80.20		3,728.97
MW-6	02/08/07			79.99		3,729.18
MW-6	02/20/07			80.36		3,728.81
MW-6	03/06/07			80.40		3,728.77
MW-6	03/14/07			79.92		3,729.25
MW-6	03/27/07			80.62		3,728.55
MW-6	03/29/07			80.34		3,728.83
MW-6	04/03/07			80.68		3,728.49
MW-6	04/11/07			81.03		3,728.14
MW-6	04/17/07			80.82		3,728.35
MW-6	06/13/07			80.88		3,728.29
MW-6	06/26/07			81.04		3,728.13
MW-6	09/14/07			81.62		3,727.55
MW-6	10/19/07			81.64		3,727.53
MW-6	12/03/07			81.56		3,727.61
MW-6	01/08/08			81.78		3,727.39
MW-6	01/28/08			81.39		3,727.78
MW-6	03/12/08			81.39		3,727.78
MW-6	04/22/08			84.48		3,724.69
MW-6	06/19/08			82.10		3,727.07
MW-6	08/13/08			82.67		3,726.50
MW-6	10/15/08			82.99		3,726.18
MW-6	12/04/08			82.88		3,726.29
MW-6	01/21/09			82.59		3,726.58
MW-6	02/18/09	3,809.33		82.78		3,726.55
MW-6	04/06/09			83.17		3,726.16
MW-6	06/10/09			83.64		3,725.69
MW-6	08/25/09			84.51		3,724.82
MW-6	12/10/09			84.77		3,724.56
MW-6	01/08/10			84.59		3,724.74



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-6	02/18/10			84.49		3,724.84
MW-6	06/09/10			84.98		3,724.35
MW-6	09/21/10			86.25		3,723.08
MW-6	12/17/10			85.92		3,723.41
MW-6	03/25/11			86.04		3,723.29
MW-6	06/22/11		87.22	87.34	0.12	3,722.09
MW-6	09/28/11		88.15	88.28	0.13	3,721.16
MW-6	01/05/12		87.99	88.04	0.05	3,721.33
MW-7	10/21/04	WELL INSTALLED 21-Oct-04 (TD-84.71)				
MW-7	10/27/04	3,809.95	75.82	76.05	0.23	3,734.09
MW-7	10/29/04		75.82	76.05	0.23	3,734.09
MW-7	11/19/04		75.21	79.14	3.93	3,734.09
MW-7	03/31/05		75.22	79.18	3.96	3,734.08
MW-7	04/25/05		74.37	82.84	8.47	3,734.18
MW-7	05/31/05		75.41	78.75	3.34	3,733.99
MW-7	06/29/05		74.86	83.31	8.45	3,733.70
MW-7	09/15/05		75.92	83.58	7.66	3,732.77
MW-7	11/14/05		76.75	83.17	6.42	3,732.14
MW-7	01/23/06		77.16	83.54	6.38	3,731.74
MW-7	03/01/06		76.71	82.60	5.89	3,732.27
MW-7	05/25/06		77.71	79.37	1.66	3,731.97
MW-7	08/14/06		78.61	83.34	4.73	3,730.56
MW-7	11/29/06		79.51	83.15	3.64	3,729.84
MW-7	12/12/06		79.95	83.00	3.05	3,729.50
MW-7	01/11/07		79.77	84.41	4.64	3,729.41
MW-7	02/08/07		79.63	84.15	4.52	3,729.57
MW-7	04/03/07		80.09	84.18	4.09	3,729.19
MW-7	04/11/07		80.73	84.91	4.18	3,728.53
MW-7	04/17/07		80.74	84.96	4.22	3,728.51
MW-7	05/14/07		80.30	84.42	4.12	3,728.97
MW-7	06/26/07		80.70	82.68	1.98	3,728.92



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-7	06/28/07		80.52	83.66	3.14	3,728.91
MW-7	08/13/07		81.22	83.66	2.44	3,728.33
MW-7	08/21/07		81.37	83.44	2.07	3,728.24
MW-7	09/14/07		81.01	84.25	3.24	3,728.41
MW-7	09/26/07		80.97	84.30	3.33	3,728.43
MW-7	10/05/07		80.92	84.33	3.41	3,728.47
MW-7	10/08/07		80.92	84.32	3.40	3,728.47
MW-7	10/19/07		81.04	84.30	3.26	3,728.37
MW-7	10/24/07		81.05	84.30	3.25	3,728.36
MW-7	10/31/07		81.08	84.34	3.26	3,728.33
MW-7	11/12/07		81.02	84.35	3.33	3,728.45
MW-7	11/28/07		80.89	NA		
MW-7	12/03/07		80.98	NA		
MW-7	01/03/08		79.83	NA		
MW-7	01/08/08		80.92	84.40*		
MW-7	01/14/08		81.34	84.37*		
MW-7	03/12/08		81.20	84.39*		
MW-7	03/26/08		81.54	84.45*		
MW-7	04/11/07		81.40	84.49	3.09	3,728.04
MW-7	04/15/07		82.67	83.16	0.49	3,727.20
MW-7	04/22/07		82.66	82.81	0.15	3,727.27
MW-7	04/28/07		82.75	83.14	0.39	3,727.14
MW-7	05/06/07		82.39	83.29	0.90	3,727.41
MW-7	05/16/07		83.03	83.26	0.23	3,726.88
MW-7	05/22/08		81.76	83.84	2.08	3,727.85
MW-7	06/19/08		81.91	84.64	2.73	3,727.59
MW-7	07/25/08		82.67	84.87	2.20	3,726.92
MW-7	08/13/08		82.76	84.95*		
MW-7	09/23/08		82.54	84.29*		
MW-7	10/15/08		83.48	84.29	0.81	3,726.34
MW-7	12/04/08		82.77	84.29	1.52	3,726.93
MW-7	01/21/09		82.59	84.27	1.68	3,727.08



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-7	02/18/09	3,810.08	82.41	84.29	1.88	3,727.36
MW-7	04/06/09		82.92	84.29	1.37	3,726.93
MW-7	06/10/09		83.00	*84.15		
MW-7	08/25/09		83.83	86.70	2.87	3,725.78
MW-7	12/10/09		84.53	84.58	0.05	3,725.54
MW-7	01/08/10		84.25	84.60	0.35	3,725.77
MW-7	02/18/10		84.28	84.71	0.43	3,725.73
MW-7	06/09/10		ND	84.71	0.00	3,725.37
MW-7	09/21/10		ND	DRY		
MW-7	12/17/10		ND	DRY		
MW-7	03/25/11		ND	DRY		
MW-7	03/26/11	WELL Plugged & Abandoned 26-March-11				
MW-7A	04/19/11	WELL INSTALLED 19-April-11 (TD-101.21')				
MW-7A	05/13/11		87.67	88.27	0.60	3,722.86
MW-7A	06/22/11		88.20	88.90	0.70	3,722.31
MW-7A	07/06/11	3,810.63				
MW-7A	09/28/11		89.26	89.60	0.34	3,721.31
MW-7A	01/05/12		88.99	89.49	0.50	3,721.56
MW-8	10/20/04	WELL INSTALLED 20-Oct-04 (TD-84.55)				
MW-8	10/27/04	3,810.29	--	76.20		3,734.09
MW-8	10/29/04		--	76.20		3,734.09
MW-8	11/19/04		--	76.26		3,734.03
MW-8	03/31/05		--	76.30		3,733.99
MW-8	04/25/05		--	76.29		3,734.00
MW-8	05/12/05		--	76.32		3,733.97
MW-8	05/31/05		--	76.34		3,733.95
MW-8	06/29/05		--	76.62		3,733.67
MW-8	08/22/05		77.42	78.08	0.66	3,732.76
MW-8	11/14/05		78.16	79.40	1.24	3,731.93
MW-8	01/23/06		78.25	80.13	1.88	3,731.73



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-8	03/01/06		77.60	80.55	2.95	3,732.20
MW-8	05/25/06		78.43	81.31	2.88	3,731.38
MW-8	08/14/06		79.63	82.84	3.21	3,730.13
MW-8	11/29/06		80.50	83.79	3.29	3,729.25
MW-8	12/12/06		80.59	83.90	3.31	3,729.15
MW-8	01/11/07		80.63	83.88	3.25	3,729.12
MW-8	02/08/07		80.66	83.94	3.28	3,729.09
MW-8	02/20/07		80.81	84.07	3.26	3,728.94
MW-8	03/06/07		80.88	84.11	3.23	3,728.88
MW-8	03/14/07		80.09	83.26	3.17	3,729.68
MW-8	03/27/07		80.13	83.24	3.11	3,729.65
MW-8	04/03/07		81.10	83.04	1.94	3,728.87
MW-8	04/11/07		81.59	83.49	1.90	3,728.39
MW-8	04/17/07		81.61	83.51	1.90	3,728.37
MW-8	05/24/07		81.33	NA		
MW-8	06/26/07		81.62	NA		
MW-8	06/28/07		81.52	NA		
MW-8	08/13/07		81.86	NA		
MW-8	08/21/07		81.96	NA		
MW-8	08/28/07		82.02	NA		
MW-8	09/14/07		82.35	82.36	0.01	3,727.94
MW-8	09/26/07		81.99	83.03	1.04	3,728.13
MW-8	10/05/07		81.97	84.33	2.36	3,727.93
MW-8	10/08/07		81.96	83.63	1.67	3,728.05
MW-8	10/19/07		82.04	82.41	0.37	3,728.19
MW-8	11/12/07		82.04	82.43	0.39	3,728.19
MW-8	11/28/07		82.04	NA		
MW-8	12/03/07		82.11	NA		
MW-8	01/03/08		81.84	NA		
MW-8	01/08/08		81.85	82.56	0.71	
MW-8	01/14/08		82.13	83.33	1.20	3,727.96
MW-8	01/23/08		82.12	83.09	0.97	3,728.01



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-8	01/28/08		82.04	83.30	1.26	3,728.04
MW-8	02/11/08		81.97	83.34	1.37	3,728.09
MW-8	03/12/08		81.93	83.34	1.41	3,728.13
MW-8	04/01/08		81.95	83.34	1.39	3,728.11
MW-8	04/11/08		82.37	83.94	1.57	3,727.66
MW-8	04/15/08		82.36	83.45	1.09	3,727.75
MW-8	04/22/08		82.33	83.48	1.15	3,727.77
MW-8	04/28/08		82.32	83.46	1.14	3,727.78
MW-8	05/06/08		82.67	82.82	0.15	3,727.60
MW-8	05/16/08		82.47	83.46	0.99	3,727.66
MW-8	06/19/08		82.61	NA		
MW-8	08/13/08		83.32	84.96*		
MW-8	09/23/08		82.89	83.29*		
MW-8	10/15/08			DRY		
MW-8	12/04/08		82.95	83.21*		
MW-8	01/21/09		82.66	83.21*		
MW-8	02/18/09	3,810.41	82.76	83.28	0.52	3,727.56
MW-8	04/06/09		83.09	83.25	0.16	3,727.29
MW-8	06/10/09		ND	DRY		
MW-8	08/25/09		ND	DRY		
MW-8	12/10/09		ND	DRY		
MW-8	01/08/10		ND	DRY		
MW-8	02/18/10		ND	DRY		
MW-8	06/09/10		ND	DRY		
MW-8	09/21/10		ND	DRY		
MW-8	12/17/10		ND	DRY		
MW-8	03/25/11		ND	DRY		
MW-8	03/26/11	WELL Plugged & Abandoned 26-April-11				
MW-8A	04/20/11	WELL INSTALLED 20-April-11 (TD-102.67')				
MW-8A	05/13/11			87.29		3,723.44
MW-8A	06/22/11			88.33		3,722.40



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-8A	07/06/11	3,810.73				
MW-8A	09/28/11			89.34		3,721.39
MW-8A	01/05/12			90.16		3,720.57
MW-9	10/19/04	WELL INSTALLED 19-Oct-04 (TD-86.80)				
MW-9	10/27/04	3,809.81		75.85		3,733.96
MW-9	10/29/04			75.85		3,733.96
MW-9	11/19/04			75.91		3,733.90
MW-9	03/31/05			76.97		3,732.84
MW-9	04/25/05			75.91		3,733.90
MW-9	05/12/05			75.96		3,733.85
MW-9	05/31/05			75.99		3,733.82
MW-9	06/29/05			76.34		3,733.47
MW-9	08/22/05			77.31		3,732.50
MW-9	09/15/05			77.48		3,732.33
MW-9	11/14/05			78.15		3,731.66
MW-9	01/23/06			78.33		3,731.48
MW-9	03/01/06			77.78		3,732.03
MW-9	05/25/06			78.67		3,731.14
MW-9	08/14/06			79.90		3,729.91
MW-9	11/29/06			80.87		3,728.94
MW-9	12/12/06			80.93		3,728.88
MW-9	01/11/07			90.94		3,718.87
MW-9	02/08/07			80.70		3,729.11
MW-9	02/20/07			81.09		3,728.72
MW-9	03/06/07			81.15		3,728.66
MW-9	03/14/07			80.65		3,729.16
MW-9	03/27/07			81.34		3,728.47
MW-9	03/29/07			81.11		3,728.70
MW-9	04/03/07			81.12		3,728.69
MW-9	04/11/07			81.50		3,728.31
MW-9	04/17/07			81.60		3,728.21



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-9	05/21/07			81.61		3,728.20
MW-9	06/13/07			81.65		3,728.16
MW-9	06/26/07			81.78		3,728.03
MW-9	09/14/07			82.33		3,727.48
MW-9	10/19/07			82.37		3,727.44
MW-9	12/03/07			82.30		3,727.51
MW-9	01/08/08			82.10		3,727.71
MW-9	01/28/08			82.12		3,727.69
MW-9	03/12/08			82.11		3,727.70
MW-9	04/22/08			82.54		3,727.27
MW-9	05/16/08			82.66		3,727.15
MW-9	06/19/08			82.87		3,726.94
MW-9	08/13/08			83.41		3,726.40
MW-9	10/15/08			83.72		3,726.09
MW-9	12/04/08			83.59		3,726.22
MW-9	01/21/09			83.29		3,726.52
MW-9	02/18/09	3,809.98		86.94		3,723.04
MW-9	04/06/09			83.88		3,726.10
MW-9	06/10/09			85.35		3,724.63
MW-9	08/25/09			85.25		3,724.73
MW-9	12/10/09			85.47		3,724.51
MW-9	01/08/10			85.27		3,724.71
MW-9	02/18/10			85.18		3,724.80
MW-9	06/09/10			85.09		3,724.89
MW-9	09/21/10			86.86		3,723.12
MW-9	12/17/10			86.64		3,723.34
MW-9	03/25/11			86.78		3,723.20
MW-9	06/22/11			DRY		NA
MW-9	09/28/11			DRY		NA
MW-9	01/05/12			DRY		NA
MW-10	10/20/04	WELL INSTALLED 20-Oct-04 (TD-86.98)				



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-10	10/27/04	3,809.64		75.76		3,733.88
MW-10	10/29/04			75.76		3,733.88
MW-10	11/19/04			75.84		3,733.80
MW-10	03/31/05			75.87		3,733.77
MW-10	04/25/05			75.85		3,733.79
MW-10	05/12/05			75.96		3,733.68
MW-10	05/31/05			75.91		3,733.73
MW-10	06/29/05			76.30		3,733.34
MW-10	08/22/05			77.32		3,732.32
MW-10	09/15/05			77.46		3,732.18
MW-10	11/14/05			78.08		3,731.56
MW-10	01/23/06			78.22		3,731.42
MW-10	03/01/06			77.58		3,732.06
MW-10	05/25/06			78.66		3,730.98
MW-10	08/14/06			79.96		3,729.68
MW-10	11/29/06			80.84		3,728.80
MW-10	12/12/06			80.91		3,728.73
MW-10	01/11/07			80.84		3,728.80
MW-10	02/08/07			80.59		3,729.05
MW-10	02/20/07			81.00		3,728.64
MW-10	03/06/07			81.08		3,728.56
MW-10	03/14/07			80.52		3,729.12
MW-10	03/27/07			81.33		3,728.31
MW-10	03/29/07			81.07		3,728.57
MW-10	04/03/07			81.37		3,728.27
MW-10	04/11/07			81.46		3,728.18
MW-10	04/17/07			81.53		3,728.11
MW-10	05/24/07			81.54		3,728.10
MW-10	06/13/07			81.59		3,728.05
MW-10	06/26/07			81.78		3,727.86
MW-10	09/14/07			82.30		3,727.34
MW-10	10/19/07			82.33		3,727.31



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-10	12/03/07			85.26		3,724.38
MW-10	01/08/08			82.01		3,727.63
MW-10	01/28/08			82.02		3,727.62
MW-10	03/12/08			82.04		3,727.60
MW-10	04/22/08			82.51		3,727.13
MW-10	05/16/08			82.64		3,727.00
MW-10	06/19/08			82.88		3,726.76
MW-10	08/13/08			83.42		3,726.22
MW-10	10/15/08			83.73		3,725.91
MW-10	12/04/08			83.51		3,726.13
MW-10	01/21/09			83.19		3,726.45
MW-10	02/18/09	3809.79		86.72		3,723.07
MW-10	04/06/09			83.87		3,725.92
MW-10	06/10/09			84.23		3,725.56
MW-10	08/25/09			85.29		3,724.50
MW-10	12/10/09			85.42		3,724.37
MW-10	01/08/10			85.20		3,724.59
MW-10	02/18/10			85.09		3,724.70
MW-10	06/09/10			85.67		3,724.12
MW-10	09/21/10			DRY		
MW-10	12/17/10			86.54		3,723.25
MW-10	03/25/11			86.76		3,723.03
MW-10	06/22/11			87.97		3,721.82
MW-10	09/28/11			DRY		NA
MW-10	01/05/12			DRY		NA
MW-11	02/21/06	WELL INSTALLED 2/21/06 (TD-89.10)				
MW-11	03/01/06	3,808.95		76.95		3,732.00
MW-11	05/25/06			78.06		3,730.89
MW-11	08/14/06			79.57		3,729.38
MW-11	11/29/06			80.26		3,728.69
MW-11	12/12/06			80.27		3,728.68



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-11	01/11/07			80.19		3,728.76
MW-11	02/08/07			79.91		3,729.04
MW-11	02/20/07			80.35		3,728.60
MW-11	03/06/07			80.42		3,728.53
MW-11	03/14/07			80.01		3,728.94
MW-11	03/27/09			80.43		3,728.52
MW-11	03/29/09			80.46		3,728.49
MW-11	04/03/07			80.96		3,727.99
MW-11	04/11/07			80.86		3,728.09
MW-11	04/17/07			80.94		3,728.01
MW-11	05/24/07			80.89		3,728.06
MW-11	06/13/07			81.08		3,727.87
MW-11	06/26/07			81.19		3,727.76
MW-11	09/14/07			81.68		3,727.27
MW-11	10/19/07			81.76		3,727.19
MW-11	12/03/07			81.60		3,727.35
MW-11	01/08/08			81.35		3,727.60
MW-11	01/28/08			81.36		3,727.59
MW-11	03/12/08			81.43		3,727.52
MW-11	04/22/08			81.91		3,727.04
MW-11	05/16/08			82.07		3,726.88
MW-11	06/19/08			82.31		3,726.64
MW-11	08/13/08			82.88		3,726.07
MW-11	10/15/08			83.15		3,725.80
MW-11	12/04/08			82.88		3,726.07
MW-11	01/21/09			82.53		3,726.42
MW-11	02/18/09	3,809.12		82.77		3,726.35
MW-11	04/06/09			83.28		3,725.84
MW-11	06/10/09			83.76		3,725.36
MW-11	08/25/09			84.81		3,724.31
MW-11	12/10/09			84.08		3,725.04
MW-11	01/08/10			84.55		3,724.57



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-11	02/18/10			84.43		3,724.69
MW-11	06/09/10			85.08		3,724.04
MW-11	09/21/10			86.30		3,722.82
MW-11	12/17/10			85.94		3,723.18
MW-11	03/25/11			86.19		3,722.93
MW-11	06/22/11			87.50		3,721.62
MW-11	09/28/11			88.36		3,720.76
MW-11	01/05/12			87.99		3,721.13
MW-12	02/23/06	WELL INSTALLED 2/23/06 TD=90.83				
MW-12	03/01/06	3,809.63		77.60		3,732.03
MW-12	05/25/06			78.68		3,730.95
MW-12	08/14/06			79.99		3,729.64
MW-12	11/29/06			80.86		3,728.77
MW-12	12/12/06			80.90		3,728.73
MW-12	01/11/07			80.81		3,728.82
MW-12	02/08/07			80.55		3,729.08
MW-12	02/20/07			80.96		3,728.67
MW-12	03/06/07			81.04		3,728.59
MW-12	03/14/07			81.15		3,728.48
MW-12	03/27/07			81.31		3,728.32
MW-12	03/29/07			81.15		3,728.48
MW-12	04/03/07			81.35		3,728.28
MW-12	04/11/07			81.87		3,727.76
MW-12	04/17/07			81.50		3,728.13
MW-12	05/24/07			81.45		3,728.18
MW-12	06/26/07			81.79		3,727.84
MW-12	09/14/07			82.29		3,727.34
MW-12	10/19/07			82.36		3,727.27
MW-12	12/03/07			82.20		3,727.43
MW-12	01/08/08			81.99		3,727.64
MW-12	01/28/08			81.98		3,727.65



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-12	03/12/08			82.07		3,727.56
MW-12	04/22/08			82.52		3,727.11
MW-12	05/16/08			82.07		3,727.56
MW-12	06/19/08			82.91		3,726.72
MW-12	08/13/08			83.46		3,726.17
MW-12	10/15/08			83.74		3,725.89
MW-12	12/04/08		83.38	84.10	0.72	#REF!
MW-12	01/21/09		83.08	83.71	0.63	3,726.45
MW-12	02/18/09	3809.81	83.20	84.42	1.22	3,726.41
MW-12	04/06/09		83.51	85.66	2.15	3,725.95
MW-12	06/10/09		83.62	87.94	4.32	3,725.48
MW-12	08/25/09		84.44	89.90	5.46	3,724.47
MW-12	12/10/09		85.09	88.60	3.51	3,724.14
MW-12	01/08/10		84.93	88.26	3.33	3,724.33
MW-12	02/18/10		84.90	88.25	3.35	3,724.36
MW-12	06/09/10		86.05	86.26	0.21	3,723.73
MW-12	09/21/10		86.08	90.90	4.82	3,722.93
MW-12	12/17/10		86.15	88.25	2.10	3,723.31
MW-12	03/25/11		85.86	90.70	4.84	3,723.15
MW-12	06/22/11		87.73	90.59	2.86	3,721.61
MW-12	09/28/11		88.00	90.85	2.85	3,721.34
MW-12	01/05/12		87.61	90.91	3.30	3,721.66
MW-12A	04/28/11	WELL INSTALLED 4/28/11 (TD-108.60')				
MW-12A	05/10/11			86.60		3,722.38
MW-12A	06/22/11			87.32		3,721.66
MW-12A	07/06/11	3,808.98				
MW-12A	09/28/11			88.18		3,720.80
MW-12A	01/05/12			87.81		3,721.17
MW-13	02/22/06	WELL INSTALLED 2/22/06 (TD-88.86)				
MW-13	03/01/06	3,809.42		77.33		3,732.09



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-13	05/25/06			78.35		3,731.07
MW-13	08/14/06			79.59		3,729.83
MW-13	11/29/06			80.51		3,728.91
MW-13	12/12/06			80.68		3,728.74
MW-13	01/11/07			80.48		3,728.94
MW-13	02/08/07			80.25		3,729.17
MW-13	02/20/07			80.86		3,728.56
MW-13	03/06/07			80.71		3,728.71
MW-13	03/14/07			80.82		3,728.60
MW-13	03/27/07			79.97		3,729.45
MW-13	03/29/07			80.70		3,728.72
MW-13	04/03/07			81.02		3,728.40
MW-13	04/11/07			81.62		3,727.80
MW-13	04/17/07			81.17		3,728.25
MW-13	05/24/07			81.19		3,728.23
MW-13	06/26/07			81.42		3,728.00
MW-13	09/14/07			81.99		3,727.43
MW-13	10/19/07			82.02		3,727.40
MW-13	12/03/07			81.91		3,727.51
MW-13	01/08/08			81.71		3,727.71
MW-13	01/28/08			81.71		3,727.71
MW-13	03/12/08			81.74		3,727.68
MW-13	04/22/08			82.17		3,727.25
MW-13	05/16/08			82.31		3,727.11
MW-13	06/19/08			82.54		3,726.88
MW-13	08/13/08			83.06		3,726.36
MW-13	10/15/08			83.37		3,726.05
MW-13	12/04/08			83.21		3,726.21
MW-13	01/21/09			82.91		3,726.51
MW-13	02/18/09	3,809.59		83.10		3,726.49
MW-13	04/06/09			83.54		3,726.05
MW-13	06/10/09			84.02		3,725.57



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-13	08/25/09			84.95		3,724.64
MW-13	12/10/09			85.13		3,724.46
MW-13	01/08/10			84.92		3,724.67
MW-13	02/18/10			84.80		3,724.79
MW-13	06/09/10			85.36		3,724.23
MW-13	09/21/10			86.64		3,722.95
MW-13	12/17/10			86.27		3,723.32
MW-13	03/25/11			86.46		3,723.13
MW-13	06/22/11			87.68		3,721.91
MW-13	09/28/11			88.59		3,721.00
MW-13	01/05/12			88.34		3,721.25
MW-14	02/21/06	WELL INSTALLED 2/21/06 (TD-87.95)				
MW-14	03/01/06	3,809.46		77.31		3,732.15
MW-14	05/25/06			78.29		3,731.17
MW-14	08/14/06			79.41		3,730.05
MW-14	11/29/06			80.37		3,729.09
MW-14	12/12/06			80.51		3,728.95
MW-14	01/11/07			80.53		3,728.93
MW-14	02/08/07			80.20		3,729.26
MW-14	02/20/07			80.61		3,728.85
MW-14	03/06/07			80.65		3,728.81
MW-14	03/14/07			80.02		3,729.44
MW-14	03/27/07			80.85		3,728.61
MW-14	03/29/07			80.59		3,728.87
MW-14	04/03/07			80.91		3,728.55
MW-14	04/11/07			80.59		3,728.87
MW-14	04/17/07			81.04		3,728.42
MW-14	05/24/07			81.10		3,728.36
MW-14	06/26/07			81.28		3,728.18
MW-14	09/14/07			81.88		3,727.58
MW-14	10/19/07			81.89		3,727.57



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-14	12/03/07			81.78		3,727.68
MW-14	01/08/08			81.66		3,727.80
MW-14	01/28/08			81.68		3,727.78
MW-14	03/12/08			81.68		3,727.78
MW-14	04/22/08			82.11		3,727.35
MW-14	05/16/08			82.19		3,727.27
MW-14	06/19/08			82.41		3,727.05
MW-14	08/13/08			82.91		3,726.55
MW-14	10/15/08			83.23		3,726.23
MW-14	12/04/08			83.15		3,726.31
MW-14	01/21/09			82.08		3,727.38
MW-14	02/18/09	3,809.63		83.05		3,726.58
MW-14	04/06/09			83.43		3,726.20
MW-14	06/10/09			83.91		3,725.72
MW-14	08/25/09			84.75		3,724.88
MW-14	12/10/09			85.04		3,724.59
MW-14	01/08/10			84.85		3,724.78
MW-14	02/18/10			84.74		3,724.89
MW-14	06/09/10			85.23		3,724.40
MW-14	09/21/10			86.47		3,723.16
MW-14	12/17/10			86.27		3,723.36
MW-14	03/25/11			86.30		3,723.33
MW-14	06/22/11			87.45		3,722.18
MW-14	09/28/11			88.43		3,721.20
MW-14	01/05/12			88.21		3,721.42
MW-15	02/22/06	WELL INSTALLED 2/22/06 (TD-92.21)				
MW-15	03/01/06	3,810.77		78.50		3,732.27
MW-15	05/25/06			79.41		3,731.36
MW-15	08/14/06			80.54		3,730.23
MW-15	11/29/06			81.54		3,729.23
MW-15	12/12/06			81.63		3,729.14



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-15	01/11/07			81.67		3,729.10
MW-15	02/08/07			81.43		3,729.34
MW-15	02/20/07			81.81		3,728.96
MW-15	03/06/07			81.85		3,728.92
MW-15	03/14/07			81.16		3,729.61
MW-15	03/27/07			82.07		3,728.70
MW-15	03/29/07			81.40		3,729.37
MW-15	04/03/07			82.11		3,728.66
MW-15	04/11/07			82.70		3,728.07
MW-15	04/17/07			82.24		3,728.53
MW-15	05/24/07			82.30		3,728.47
MW-15	06/26/07			82.48		3,728.29
MW-15	09/14/07			83.05		3,727.72
MW-15	10/19/07			83.06		3,727.71
MW-15	12/03/07			83.02		3,727.75
MW-15	01/08/08			82.89		3,727.88
MW-15	01/28/08			82.81		3,727.96
MW-15	03/12/08			82.86		3,727.91
MW-15	04/22/08			83.23		3,727.54
MW-15	05/16/08			83.31		3,727.46
MW-15	06/19/08			83.57		3,727.20
MW-15	08/13/08			84.07		3,726.70
MW-15	10/15/08			84.41		3,726.36
MW-15	12/04/08			84.34		3,726.43
MW-15	01/21/09			84.07		3,726.70
MW-15	02/18/09	3,810.93		84.26		3,726.67
MW-15	04/06/09			84.61		3,726.32
MW-15	06/10/09			85.07		3,725.86
MW-15	08/25/09			85.89		3,725.04
MW-15	12/10/09			86.22		3,724.71
MW-15	01/08/10			86.04		3,724.89
MW-15	02/18/10			85.95		3,724.98



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-15	06/09/10			86.41		3,724.52
MW-15	09/21/10			86.60		3,724.33
MW-15	12/17/10			87.41		3,723.52
MW-15	03/25/11			87.42		3,723.51
MW-15	06/22/11			88.57		3,722.36
MW-15	09/28/11			89.55		3,721.38
MW-15	01/05/12			89.37		3,721.56
MW-16	02/23/06	WELL INSTALLED 2/23/06 (TD-91.23)				
MW-16	03/01/06	3,812.02		79.72		3,732.30
MW-16	05/25/06			80.58		3,731.44
MW-16	08/14/06			81.71		3,730.31
MW-16	11/29/06			82.74		3,729.28
MW-16	12/12/06			82.84		3,729.18
MW-16	01/11/07			82.90		3,729.12
MW-16	02/08/07			82.66		3,729.36
MW-16	02/20/07			83.06		3,728.96
MW-16	03/06/07			83.07		3,728.95
MW-16	03/14/07			82.69		3,729.33
MW-16	03/27/07			83.27		3,728.75
MW-16	03/29/07			83.01		3,729.01
MW-16	04/03/07			83.33		3,728.69
MW-16	04/11/07			84.02		3,728.00
MW-16	04/17/07			83.44		3,728.58
MW-16	05/24/07			83.55		3,728.47
MW-16	06/26/07			83.69		3,728.33
MW-16	09/14/07			84.25		3,727.77
MW-16	10/19/07			84.28		3,727.74
MW-16	12/03/07			84.24		3,727.78
MW-16	01/08/08			84.10		3,727.92
MW-16	01/28/08			84.09		3,727.93
MW-16	03/12/08			84.07		3,727.95



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-16	04/22/08			80.09		3,731.93
MW-16	05/16/08			85.55		3,726.47
MW-16	06/19/08			84.76		3,727.26
MW-16	08/13/08			85.25		3,726.77
MW-16	10/15/08			85.63		3,726.39
MW-16	12/04/08			85.58		3,726.44
MW-16	01/21/09			85.32		3,726.70
MW-16	02/18/09	3,812.23		85.53		3,726.70
MW-16	04/06/09			85.80		3,726.43
MW-16	06/10/09			86.26		3,725.97
MW-16	08/25/09			87.08		3,725.15
MW-16	12/10/09			85.30		3,726.93
MW-16	01/08/10			87.24		3,724.99
MW-16	02/18/10			87.17		3,725.06
MW-16	06/09/10			87.60		3,724.63
MW-16	09/21/10			88.78		3,723.45
MW-16	12/17/10			88.61		3,723.62
MW-16	03/25/11			88.75		3,723.48
MW-16	06/22/11			89.72		3,722.51
MW-16	09/28/11			90.71		3,721.52
MW-16	01/05/12			90.60		3,721.63
MW-17	02/23/06	WELL INSTALLED 2/23/06 (TD-91.00)				
MW-17	03/01/06	3,810.40		78.07		3,732.33
MW-17	05/25/06			78.92		3,731.48
MW-17	08/14/06			80.02		3,730.38
MW-17	11/29/06			81.10		3,729.30
MW-17	12/12/06			81.20		3,729.20
MW-17	01/11/07			81.25		3,729.15
MW-17	02/08/07			81.06		3,729.34
MW-17	02/20/07			81.45		3,728.95
MW-17	03/06/07			81.48		3,728.92



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-17	03/14/07			80.89		3,729.51
MW-17	03/27/07			81.65		3,728.75
MW-17	03/29/07			81.40		3,729.00
MW-17	04/03/07			81.70		3,728.70
MW-17	04/11/07			82.11		3,728.29
MW-17	04/17/07			81.83		3,728.57
MW-17	05/22/07			81.92		3,728.48
MW-17	06/26/07			82.06		3,728.34
MW-17	09/14/07			82.59		3,727.81
MW-17	10/19/07			82.60		3,727.80
MW-17	12/03/07			82.56		3,727.84
MW-17	01/08/08			82.48		3,727.92
MW-17	01/28/08			82.47		3,727.93
MW-17	03/12/08			82.41		3,727.99
MW-17	04/22/08			80.42		3,729.98
MW-17	05/16/08			82.89		3,727.51
MW-17	06/19/08			83.10		3,727.30
MW-17	08/13/08			83.68		3,726.72
MW-17	10/15/08			83.98		3,726.42
MW-17	12/04/08			83.92		3,726.48
MW-17	01/21/09			83.66		3,726.74
MW-17	02/18/09	3,810.57		83.85		3,726.72
MW-17	04/06/09			84.17		3,726.40
MW-17	06/10/09			84.59		3,725.98
MW-17	08/25/09			85.37		3,725.20
MW-17	12/10/09			85.71		3,724.86
MW-17	01/08/10			85.60		3,724.97
MW-17	02/18/10			85.52		3,725.05
MW-17	06/09/10			85.92		3,724.65
MW-17	09/21/10			87.13		3,723.44
MW-17	12/17/10			86.95		3,723.62
MW-17	03/25/11			87.05		3,723.52



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-17	06/22/11			88.00		3,722.57
MW-17	09/28/11			88.98		3,721.59
MW-17	01/05/12			88.88		3,721.69
MW-18	03/18/08	WELL INSTALLED 3/18/08 (TD-90.05)				
MW-18	03/25/08	3,809.09		82.07		3,727.02
MW-18	04/22/08			82.19		3,726.90
MW-18	05/16/08			82.36		3,726.73
MW-18	06/19/08			82.61		3,726.48
MW-18	08/13/08			83.19		3,725.90
MW-18	10/15/08			83.45		3,725.64
MW-18	12/04/08			83.11		3,725.98
MW-18	01/21/09			82.78		3,726.31
MW-18	02/18/09	3,809.28		83.01		3,726.27
MW-18	04/06/09			83.60		3,725.68
MW-18	06/10/09			84.06		3,725.22
MW-18	08/25/09			85.13		3,724.15
MW-18	12/10/09			85.09		3,724.19
MW-18	01/08/10			84.82		3,724.46
MW-18	02/18/10			84.67		3,724.61
MW-18	06/09/10			85.36		3,723.92
MW-18	09/21/10			86.60		3,722.68
MW-18	12/17/10			86.18		3,723.10
MW-18	03/25/11			86.53		3,722.75
MW-18	06/22/11			87.89		3,721.39
MW-18	09/28/11			88.71		3,720.57
MW-18	01/05/12			88.28		3,721.00

Corrected Groundwater Elevation = Top of Casing Elevation - (Depth to Water Below Top of Casing - (SG)(PSH Thickness)) SG=0.835

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

ND = Not Detected

NS = Not Surveyed



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
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btoc = Below Top of Casing

amsl = Above Mean Sea Level



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-1	09/22/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	11/19/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	03/31/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	05/12/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	08/22/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	11/14/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	03/01/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	05/25/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	08/14/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	11/29/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	03/29/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	06/13/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	09/14/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	12/03/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	03/12/08	Not sampled Due to Dry Well				
MW-1	06/19/08	Not sampled Due to Dry Well				
MW-1	08/13/08	Not sampled Due to Dry Well				
MW-1	09/18/08	Well Plugged				
MW-1A	09/18/08	Well Installed				
MW-1A	09/23/08	20.1	13.9	2.03	4.58	40.61
MW-1A	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	06/10/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	08/25/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	12/11/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	02/18/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	06/09/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	09/22/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	12/17/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	03/25/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	06/22/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	09/28/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	01/05/12	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	09/22/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	11/19/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-2	03/31/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	05/12/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	08/22/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	11/14/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	03/01/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	05/25/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	08/14/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	11/29/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	03/29/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/13/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	09/14/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	12/03/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	03/12/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/19/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	08/13/08	Not sampled Due to Not Enough Water				
MW-2	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/10/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	08/26/09	29.2	15.0	3.49	9.26	56.95
MW-2	12/11/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	02/18/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/09/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	09/22/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	12/17/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	03/25/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/22/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	09/28/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	01/05/12	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2A	04/28/11	Well Installed				
MW-2A	06/22/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2A	09/28/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
	01/05/12	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	09/22/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	11/19/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-3	03/31/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	05/12/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	08/22/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	11/14/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	03/01/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	05/25/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	08/14/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	11/29/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	03/29/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	06/13/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	09/14/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	12/03/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	03/12/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	06/19/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	09/23/08	18.2	7.71	1.81	4.15	31.9
MW-3	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	06/10/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	08/26/09	26.7	26.4	7.80	18.0	26.1
MW-3	12/11/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	02/18/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	06/09/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	09/22/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	12/17/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	03/25/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	06/22/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	09/28/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	01/05/12	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	09/22/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	11/19/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	03/31/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	05/12/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	08/22/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	11/14/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	03/01/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-4	05/25/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	08/14/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	11/29/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	03/29/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	06/13/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	09/14/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	12/03/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	03/12/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	06/19/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	09/23/08	31.2	31.1	8.39	18.9	89.6
MW-4	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	06/10/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	8/25/209	Not Sampled Due to Insufficient Water				
MW-4	12/11/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	02/18/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	06/09/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	09/22/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	12/17/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	03/25/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	06/22/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	09/28/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	01/05/12	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	09/22/04	<0.00100	<0.00100	<0.00100	<0.00300	179.2
MW-5	03/31/05	3.14	0.0498	0.142	0.133	3.46
MW-5	05/12/05	4.25	0.0089	0.313	0.184	4.76
MW-5	08/22/05	20.3	2.240	1.420	1.140	25.1
MW-5	11/14/05	19.5	0.847	0.904	0.478	21.7
MW-5	03/01/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	05/25/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	08/14/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	11/29/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	03/29/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	06/13/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	09/14/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L.

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-5	12/03/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	03/12/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	06/19/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	09/23/08	11.9	5.8	1.08	1.92	20.7
MW-5	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	06/10/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	08/26/09	15.9	9.17	2.05	4.87	32.0
MW-5	12/11/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	02/18/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	06/09/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	09/22/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	12/17/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	03/25/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	06/22/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	09/28/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	01/05/12	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-6	11/19/04	0.635	0.00105	<0.00100	0.00981	0.646
MW-6	03/31/05	0.702	<0.00100	<0.00100	0.0107	0.713
MW-6	05/12/05	0.468	0.00139	<0.00100	0.00823	0.48
MW-6	08/22/05	0.158	<0.00100	1.3	0.00406	1.462
MW-6	11/14/05	0.231	0.00574	1.97	0.00896	2.216
MW-6	03/01/06	0.0909	0.00382	<0.00100	0.0035	0.0982
MW-6	05/25/06	<0.00100	<0.00100	<0.00100	<0.00300	<0.00300
MW-6	08/14/06	0.863	<0.100	<0.100	<0.300	0.863
MW-6	11/29/06	1.360	0.0366	<5	0.03624	1.433
MW-6	03/29/07	0.112	0.0220	0.00184	0.01143	0.147
MW-6	06/13/07	0.101	0.0206	<0.00100	0.00919	0.131
MW-6	09/14/07	0.0968	0.0104	0.0013	0.008	0.1165
MW-6	12/03/07	0.1491	0.0209	0.0011	0.0132	0.1843
MW-6	03/12/08	0.138	0.03010	<0.00100	0.01880	0.187
MW-6	06/19/08	0.198	0.0293	0.00120	0.01390	0.242
MW-6	08/13/08	0.454	0.0383	<0.0100	<0.0100	0.4923
MW-6	12/04/08	0.200	0.0162	0.00230	0.0115	0.230
MW-6	02/19/09	0.116	0.00910	<0.00100	0.00250	0.128



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-6	06/10/09	0.229	0.0242	<0.00100	0.0172	0.270
MW-6	08/25/09	0.269	0.0270	<0.00100	0.0320	0.328
MW-6	12/11/09	0.410	0.0395	0.00200	0.0271	0.479
MW-6	02/18/10	1.360	0.0375	0.04560	0.0733	1.516
MW-6	06/09/10	0.09530	0.00890	<0.00500	<0.00500	0.104
MW-6	09/22/10	0.157	0.01800	<0.00500	<0.00500	0.175
MW-6	12/17/10	0.0814	<0.00500	<0.00500	<0.00500	0.0814
MW-6	03/25/11	0.2280	0.0573	<0.00500	0.1060	0.3913
MW-6	06/22/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-6	09/28/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-6	01/05/12	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	11/19/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	03/31/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	05/12/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	08/22/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	11/14/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	03/01/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	05/25/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	08/14/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	11/29/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	03/29/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	06/13/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	09/14/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	12/03/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	03/12/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	06/19/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	08/13/08	Not sampled Due to Not Enough Water				
MW-7	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	06/10/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	08/25/09	Not Sampled Due to Insufficient Water				
MW-7	12/11/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	02/18/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	06/09/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	09/22/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-7	12/17/10	Not Sampled Due to Insufficient Water				
MW-7	03/25/11	Not Sampled Due to Insufficient Water				
MW-7	03/26/11	Well Plugged				
MW-7A	04/19/11	Well Installed				
MW-7A	06/22/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7A	09/28/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7A	01/05/12	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	11/19/04	1.440	0.141	0.0298	0.0782	1.689
MW-8	03/31/05	0.915	0.0596	0.00408	0.0317	1.010
MW-8	05/12/05	0.737	0.0878	0.00588	0.0315	0.862
MW-8	08/22/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	11/14/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	03/01/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	05/25/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	08/14/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	11/29/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	03/29/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	06/13/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	09/14/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	12/03/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	03/12/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	06/19/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	08/13/08	Not sampled Due to Not Enough Water				
MW-8	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	06/10/09	Not Sampled Due to Insufficient Water				
MW-8	08/25/09	Not Sampled Due to Insufficient Water				
MW-8	12/11/09	Not Sampled Due to Insufficient Water				
MW-8	02/18/10	Not Sampled Due to Insufficient Water				
MW-8	06/09/10	Not Sampled Due to Insufficient Water				
MW-8	09/22/10	Not Sampled Due to Insufficient Water				
MW-8	12/17/10	Not Sampled Due to Insufficient Water				
MW-8	03/25/11	Not Sampled Due to Insufficient Water				
MW-8	03/26/11	Well Plugged				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-8A	04/19/11	Well Installed				
MW-8A	06/23/11	0.0354	0.0236	0.00260	0.0132	0.075
MW-8A	09/29/11	0.1860	0.0586	0.00540	0.019	0.269
MW-8A	01/05/12	0.1010	0.0639	0.00860	0.0251	0.199
MW-9	11/19/04	0.042	<0.00100	<0.00100	<0.00100	0.042
MW-9	03/31/05	0.024	<0.00100	<0.00100	0.00302	0.027
MW-9	05/12/05	0.0115	<0.00100	<0.00100	0.00201	0.014
MW-9	08/22/05	0.0108	<0.00100	<0.00100	0.00701	0.018
MW-9	11/14/05	0.00855	<0.00100	<0.00100	<0.00300	0.009
MW-9	03/01/06	0.00537	<0.00100	<0.00100	<0.00300	0.005
MW-9	05/25/06	0.0289	<0.00100	<0.00100	<0.00300	0.029
MW-9	08/14/06	0.0152	<0.00100	<0.00100	<0.00300	0.015
MW-9	11/29/06	0.0238	<0.00100	<0.00100	<0.00300	0.024
MW-9	03/29/07	0.0186	0.000482	0.000281	0.00157	0.021
MW-9	06/13/07	0.00910	<0.001	<0.001	0.00504	0.014
MW-9	09/14/07	0.0081	<0.001	<0.001	0.0045	0.013
MW-9	12/03/07	0.0049	<0.002	<0.001	0.0100	0.015
MW-9	03/12/08	0.0070	<0.00100	<0.00100	0.0102	0.017
MW-9	06/19/08	0.01240	<0.00100	<0.00100	0.00150	0.014
MW-9	08/13/08	0.130	<0.00100	<0.00100	<0.00100	0.130
MW-9	12/04/08	0.166	<0.00100	0.0151	0.0195	0.201
MW-9	02/19/09	0.00290	<0.00100	<0.00100	<0.00100	0.003
MW-9	06/10/09	0.0125	<0.00100	<0.00100	0.00550	0.018
MW-9	08/25/09	0.019	<0.00100	<0.00100	0.0203	0.039
MW-9	12/11/09	0.00280	<0.00100	<0.00100	<0.00100	0.003
MW-9	02/18/10	0.04940	<0.00100	0.00300	0.00480	0.057
MW-9	06/09/10	0.01450	<0.00100	<0.00100	<0.00100	0.015
MW-9	09/22/10	0.03850	<0.00100	<0.00100	<0.00100	0.03850
MW-9	12/17/10	0.00700	<0.00100	<0.00100	<0.00100	0.00700
MW-9	03/25/11	0.05330	<0.00100	<0.00100	0.0219	0.07520
MW-9	06/22/11	Not Sampled Due to Insufficient Water				
MW-9	09/28/11	Not Sampled Due to Insufficient Water				
MW-9	01/05/12	Dry				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-10	11/19/04	0.00725	0.00126	<0.00100	0.0367	0.04521
MW-10	03/31/05	0.00128	<0.00100	<0.00100	0.0247	0.02598
MW-10	05/12/05	0.00316	<0.00100	<0.00100	0.00793	0.01109
MW-10	08/22/05	0.00276	<0.00100	<0.00100	<0.00300	0.00276
MW-10	11/14/05	0.00809	<0.00100	<0.00100	<0.00300	0.00809
MW-10	03/01/06	0.00378	<0.00100	<0.00100	<0.002	0.00378
MW-10	05/25/06	0.00663	<0.00100	<0.00100	<0.002	0.00663
MW-10	08/14/06	0.0071	<0.00100	<0.00100	<0.002	0.00710
MW-10	11/29/06	0.0107	<0.00100	<0.00100	<0.002	0.01070
MW-10	03/29/07	0.00696	0.00140	<0.00100	0.00151	0.00987
MW-10	06/13/07	0.00362	0.00137	<0.00100	0.00237	0.00736
MW-10	09/14/07	0.0056	<0.00100	<0.00100	0.0023	0.00790
MW-10	12/03/07	0.0046	<0.002	<0.00100	<0.002	0.00460
MW-10	03/12/08	0.17900	0.030	0.00890	0.0389	0.25680
MW-10	06/19/08	0.00470	<0.00100	<0.00100	0.00210	0.00680
MW-10	08/13/08	<0.00500	<0.00500	<0.00500	<0.00500	0.00000
MW-10	12/04/08	0.00550	<0.00100	<0.00100	0.0150	0.02050
MW-10	02/19/09	0.00310	<0.00100	<0.00100	<0.00100	0.00310
MW-10	06/10/09	0.0114	0.00470	<0.00100	0.00900	0.02510
MW-10	08/25/09	0.0302	0.0129	<0.00100	0.0258	0.06890
MW-10	12/11/09	0.00240	<0.00100	<0.00100	<0.00100	0.00240
MW-10	06/09/10	0.00300	<0.00100	<0.00100	<0.00100	0.00300
MW-10	09/22/10	Not Sampled Due to Insufficient Water				
MW-10	12/17/10	0.01920	<0.00100	<0.00100	<0.00100	0.01920
MW-10	03/25/11	0.02110	0.0100	0.00660	0.0229	0.06060
MW-10	06/22/11	Not Sampled Due to Insufficient Water				
MW-10	09/28/11	Not Sampled Due to Insufficient Water				
MW-10	01/05/12	Dry				
MW-11	03/01/06	<0.00100	<0.00100	<0.00100	<0.00300	<0.00300
MW-11	05/25/06	<0.00100	<0.00100	<0.00100	<0.00300	<0.00300
MW-11	08/14/06	0.00181	<0.00100	<0.00100	<0.00300	0.00181
MW-11	11/29/06	0.00389	0.00198	<0.00100	<0.00300	0.00587
MW-11	03/29/07	<0.00100	<0.00100	<0.00100	<0.00300	<0.00300
MW-11	06/13/07	<0.00100	<0.00100	<0.00100	<0.00300	<0.00300
MW-11	09/14/07	0.0013	<0.00100	<0.00100	<0.00300	0.0013



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-11	12/03/07	0.0010	<0.00100	<0.00100	<0.00300	0.001
MW-11	03/12/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	06/19/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	08/13/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	12/04/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	02/19/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	06/10/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	08/25/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	12/11/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	02/18/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	06/09/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	09/22/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	12/17/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	03/25/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	06/22/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	09/28/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	01/05/12	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-12	03/01/06	0.00448	<0.001	0.00738	0.0119	0.02376
MW-12	05/25/06	0.75	0.00532	0.0553	0.10683	0.91745
MW-12	08/14/06	10.7	0.116	0.567	0.646	12.029
MW-12	11/29/06	28.4	8.69	1.59	3.08	41.76
MW-12	03/29/07	18.4	4.65	1.46	2.46	26.97
MW-12	06/13/07	27.6	4.87	1.16	1.05	34.68
MW-12	09/14/07	18.66	1.490	0.7570	1.14	22.047
MW-12	12/03/07	24.91	1.080	0.6060	0.910	27.506
MW-12	03/12/08	31.5	1.12	0.874	1.09	34.584
MW-12	06/19/08	30.7	4.95	1.27	1.99	38.91
MW-12	08/13/08	30.2	8.44	1.25	2.22	42.11
MW-12	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	06/10/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	08/26/09	43.00	48.40	17.20	39.80	148.40
MW-12	12/11/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	02/18/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	06/09/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-12	09/22/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	12/17/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	03/25/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	06/22/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	09/28/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	01/05/12	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12A	04/28/11	Well Installed				
MW-12A	06/23/11	31.9	2.11	1.32	2.40	37.73
MW-12A	09/29/11	13.9	0.14	0.26	0.25	14.559
MW-12A	01/05/12	18.0	0.807	0.522	0.752	20.081
MW-13	03/01/06	<0.001	<0.001	<0.001	<0.003	<0.003
MW-13	05/25/06	<0.001	<0.001	<0.001	<0.003	<0.003
MW-13	08/14/06	<0.001	<0.001	<0.001	<0.003	<0.003
MW-13	11/29/06	0.00631	0.0121	0.00264	0.0139	0.03495
MW-13	03/29/07	0.0313	0.00911	0.00508	0.00367	0.04916
MW-13	06/13/07	0.0122	0.00427	0.00207	0.00357	0.02211
MW-13	09/14/07	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-13	12/03/07	0.0021	<0.002	<0.001	<0.003	0.0021
MW-13	03/12/08	0.0210	<0.00100	<0.00100	0.00310	0.0241
MW-13	06/19/08	0.0179	<0.00100	<0.00100	0.00200	0.0199
MW-13	08/13/08	0.0231	<0.00100	<0.00100	0.00140	0.0245
MW-13	12/04/08	0.0240	<0.00100	<0.00100	0.0161	0.0401
MW-13	02/19/09	0.0634	<0.00100	<0.00100	0.00400	0.0674
MW-13	06/10/09	0.0621	<0.00100	<0.00100	0.0282	0.0903
MW-13	08/25/09	0.1200	<0.00100	<0.00100	0.05280	0.1728
MW-13	12/11/09	0.00770	<0.00100	<0.00100	<0.00100	0.0077
MW-13	02/18/10	0.01100	<0.00100	<0.00100	0.00530	0.0163
MW-13	06/09/10	0.0320	<0.00100	<0.00100	0.00480	0.0368
MW-13	09/22/10	0.0507	<0.00100	<0.00100	0.00410	0.0548
MW-13	12/17/10	0.0908	<0.00100	<0.00100	0.03020	0.1210
MW-13	03/25/11	0.1680	0.00760	<0.00100	0.04470	0.2203
MW-13	06/22/11	0.2460	<0.00100	0.00240	0.0230	0.2714
MW-13	09/28/11	Not Sampled Due to Insufficient Water				
MW-13	01/05/12	Not Sampled Due to Insufficient Water				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-14	03/01/06	<0.001	<0.001	<0.001	<0.002	<0.002
MW-14	05/25/06	<0.001	0.00202	<0.001	<0.002	<0.002
MW-14	08/14/06	<0.001	<0.001	<0.001	<0.002	<0.002
MW-14	11/29/06	<0.001	<0.001	<0.001	<0.002	<0.002
MW-14	03/29/07	0.00402	0.00139	<0.001	<0.001	0.00541
MW-14	06/13/07	0.00794	0.00235	<0.001	0.00122	0.01151
MW-14	09/14/07	0.0016	<0.001	<0.001	<0.002	0.0016
MW-14	12/03/07	<0.001	<0.002	<0.001	<0.002	<0.002
MW-14	03/12/08	0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	06/19/08	0.00650	0.0015	<0.00100	0.00140	0.00940
MW-14	08/13/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	12/04/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	02/19/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	06/10/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	08/25/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	12/11/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	02/18/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	06/09/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	09/22/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	12/17/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	03/25/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	06/22/11	0.00760	<0.00100	<0.00100	0.0021	0.00970
MW-14	09/28/11	Not Sampled Due to Insufficient Water				
MW-14	01/05/12	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	03/01/06	<0.001	0.00115	<0.001	<0.00300	0.00115
MW-15	05/25/06	<0.001	0.002	<0.001	<0.00300	0.002
MW-15	08/14/06	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-15	11/29/06	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-15	03/29/07	0.00291	<0.001	<0.001	<0.00300	0.00291
MW-15	06/13/07	0.00171	<0.001	<0.001	<0.00300	0.00171
MW-15	09/14/07	0.0123	0.0012	<0.001	<0.00300	0.0135
MW-15	12/03/07	0.0013	<0.002	<0.001	<0.00300	0.0013
MW-15	03/12/08	0.00260	<0.00100	<0.00100	<0.00100	0.0026
MW-15	06/19/08	0.00850	<0.00100	<0.00100	<0.00100	0.0085



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-15	08/13/08	0.00350	<0.00100	<0.00100	<0.00100	0.0035
MW-15	12/04/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	02/19/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	06/10/09	0.00680	<0.00100	<0.00100	<0.00100	0.0068
MW-15	08/25/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	12/11/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	02/18/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	06/09/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	09/22/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	12/17/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	03/25/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	06/22/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	09/28/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	01/05/12	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-16	03/01/06	0.00691	0.011	0.00574	0.01589	0.03954
MW-16	05/25/06	0.118	0.0248	0.00278	0.00616	0.15174
MW-16	08/14/06	<0.001	<0.001	<0.001	<0.002	<0.002
MW-16	11/29/06	0.00362	<0.001	<0.001	<0.002	0.00362
MW-16	03/29/07	0.0665	0.0132	0.00154	0.00636	0.0876
MW-16	06/13/07	0.0198	0.00494	<0.001	0.00290	0.02764
MW-16	09/14/07	0.0240	0.0032	<0.001	<0.002	0.0272
MW-16	12/03/07	0.2048	0.0040	0.0015	0.0060	0.2163
MW-16	03/12/08	0.165	0.0113	0.00270	0.0174	0.1964
MW-16	06/19/08	0.129	0.00710	0.00220	0.00850	0.1468
MW-16	08/13/08	0.117	<0.00100	<0.00100	0.00440	0.1214
MW-16	12/04/08	0.0147	0.00930	<0.00100	0.0165	0.0405
MW-16	02/19/09	0.00280	<0.00100	<0.00100	<0.00100	0.0028
MW-16	06/10/09	0.0156	<0.00100	<0.00100	<0.00100	0.0156
MW-16	08/25/09	0.147	<0.00100	<0.00100	0.02350	0.1705
MW-16	12/11/09	0.0368	<0.00100	<0.00100	<0.00100	0.0368
MW-16	02/18/10	0.0352	<0.00100	<0.00100	0.00440	0.0396
MW-16	06/09/10	0.0385	<0.00100	<0.00100	0.00340	0.0419
MW-16	09/22/10	0.0937	<0.00100	<0.00100	0.00250	0.0962
MW-16	12/17/10	0.0127	<0.00100	<0.00100	0.00810	0.0208
MW-16	03/25/11	0.0623	0.00800	0.00830	0.02160	0.1002



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-16	06/22/11	0.3440	0.00780	0.00960	0.02090	0.3823
MW-16	09/28/11	7.15	0.110	0.152	0.265	7.6770
MW-16	01/05/12	0.255	0.00490	0.00350	0.02210	0.2855
MW-17	05/25/06	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-17	08/14/06	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-17	11/29/06	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-17	03/29/07	0.00177	<0.001	<0.001	<0.00300	0.00177
MW-17	06/13/07	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-17	09/14/07	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-17	12/03/07	0.0022	<0.002	<0.001	<0.00300	0.0022
MW-17	03/12/08	0.00310	<0.00100	<0.00100	<0.00100	0.0031
MW-17	06/19/08	0.00950	<0.00100	<0.00100	0.00150	0.01100
MW-17	08/13/08	0.00500	<0.00100	<0.00100	<0.00100	0.005
MW-17	12/04/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	02/19/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	06/10/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	08/25/09	0.00790	<0.00100	<0.00100	<0.00100	0.0079
MW-17	12/11/09	0.00790	<0.00100	<0.00100	<0.00100	0.0079
MW-17	02/18/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	06/09/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	09/22/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	12/17/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	03/25/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	06/22/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	09/28/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	01/05/12	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	03/28/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	06/19/08	0.00240	0.00190	<0.00100	0.00450	0.00880
MW-18	08/13/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	12/04/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	02/19/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	06/10/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	08/25/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	12/11/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-18	02/18/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	06/09/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	09/22/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	12/17/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	03/25/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	06/22/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	09/28/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	01/05/12	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
NMWQCC Remedial Limits		0.010	0.750	0.750	0.620	NA

¹ **Bolded** values are in excess of the NMWQCC Remediation Thresholds
 BTEX analyzed by EPA Method 8021B



TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
TOTAL PETROLEUM HYDROCARBONS (TPH)
POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)
PLAINS PIPELINE, L.P.
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO - SRS# 2002-10250
Talon/LPE Project Number 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	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	Dibenz[a,h]-anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno[1,2,3-cd]-pyrene	2-Methylnaphthalene	1-Methylnaphthalene	Naphthalene	Total Naphthalenes	Phenanthrene	Pyrene
MW-6	05/12/05	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005
	03/01/06	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005
	03/29/07	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005
	08/14/08	NA	NA	NA	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	08/25/09	<5.00	1.14	1.14	<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	<0.000186
MW-8A	01/05/12	NA	NA	NA	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201
MW-9	05/12/05	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005
	03/01/06	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005
	04/03/07	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005
	08/13/08	NA	NA	NA	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	08/25/09	<5.00	0.156	0.156	<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	<0.000185	<0.000185	<0.000185	<0.000185
MW-10	05/12/05	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	0.000068	<0.00005
	03/01/06	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005
	03/29/07	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005
	08/13/08	NA	NA	NA	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000406	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	08/25/09	<5.00	0.234	0.234	<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	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-11	03/01/06	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005
	03/29/07	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005
	08/13/08	NA	NA	NA	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	08/25/09	<5.00	<0.100	<5.00	<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	<0.000186



TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
TOTAL PETROLEUM HYDROCARBONS (TPH)
POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)
PLAINS PIPELINE, L.P.
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO - SRS# 2002-10250
Talon/LPE Project Number 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	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	Dibenz[a,h]-anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno[1,2,3-cd]-pyrene	2-Methylnaphthalene	1-Methylnaphthalene	Naphthalene	Total Naphthalenes	Phenanthrene	Pyrene
MW-12	03/01/06	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005
	03/29/07	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	0.091	0.091	<0.005	<0.005
	08/14/08	NA	NA	NA	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00264	<0.000200	0.00190	<0.000200	0.0421	0.0378	0.0698	0.1497	0.00158	<0.000200
MW-12A	01/05/12	NA	NA	NA	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00208	<0.000200	0.00065	<0.000200	0.0237	0.0218	0.0289	<0.000200	<0.000200	<0.000200
MW-13	03/01/06	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005
	03/29/07	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005
	08/14/08	NA	NA	NA	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	08/25/09	<5.00	0.608	0.608	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
MW-14	03/01/06	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005
	03/29/07	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005
	08/13/08	NA	NA	NA	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	08/25/09	<5.00	<0.100	<5.00	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926
MW-15	03/01/06	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005
	03/29/07	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005
	08/13/08	NA	NA	NA	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	08/25/09	<5.00	<0.100	<5.00	<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	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-16	03/01/06	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005
	03/29/07	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005
	08/13/08	NA	NA	NA	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	08/25/09	<5.00	0.428	0.428	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922



TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
TOTAL PETROLEUM HYDROCARBONS (TPH)
POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)
PLAINS PIPELINE, L.P.
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO - SRS# 2002-10250
Talon/LPE Project Number 700376.049.01

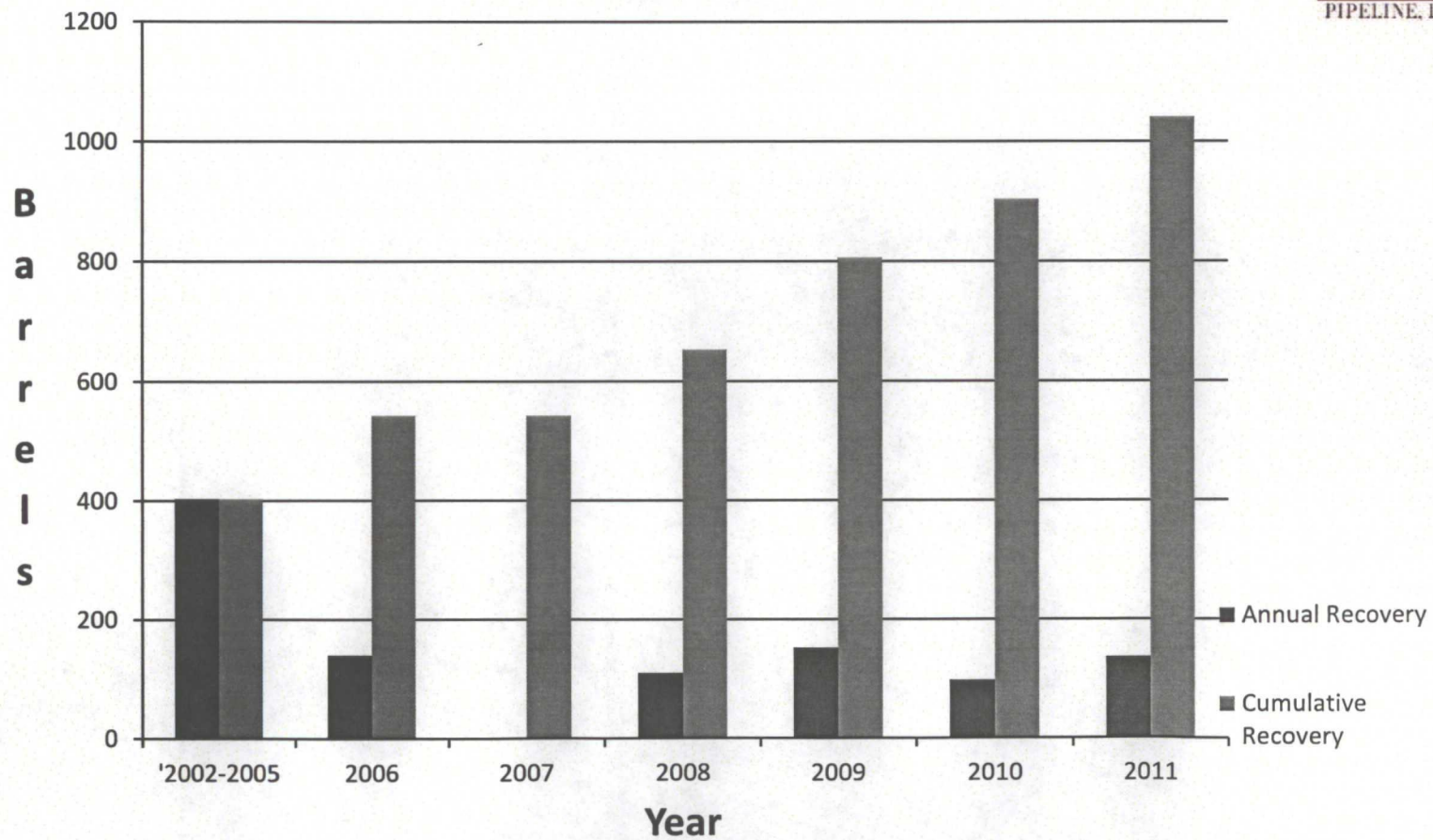
All concentrations are in mg/L

Sample Location	Sample Date	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	Dibenz[a,h]-anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno[1,2,3-cd]-pyrene	2-Methylnaphthalene	1-Methylnaphthalene	Naphthalene	Total Naphthalenes	Phenanthrene	Pyrene
MW-17	03/01/06	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005
	03/29/07	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005
	08/13/08	NA	NA	NA	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	08/25/09	<5.00	<0.100	<5.00	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
MW-18	03/01/06	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005
	03/29/07	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005
	08/13/08	NA	NA	NA	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	08/25/09	<5.00	<0.100	<5.00	<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	<0.000184	<0.000184	0.000212	0.000212	<0.000184	<0.000184
NMWQCC Remedial Limits									0.007													0.030		

¹ **Bolded** values are in excess of the NMWQCC Remediation Thresholds
Analyzed by EPA Method 8270C
NA - Not analyzed



CHART 1 - PRODUCT RECOVERY
PLAINS PIPELINE, LP - SRS #2002-10250
C.S. CAYLER
NMOCD Ref: #AP-052
LEA COUNTY, NEW MEXICO



APPENDIX C

Laboratory Analytical Data Reports and Chains of Custody Documentation

Summary Report

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

Report Date: April 4, 2011

Work Order: 11032528



Project Location: Hobbs, NM
Project Name: C.S. Cayler
Project Number: 700376.049.01
SRS #: 2002-10250

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
261805	MW-6	water	2011-03-25	13:37	2011-03-25
261806	MW-9	water	2011-03-25	11:46	2011-03-25
261807	MW-10	water	2011-03-25	11:55	2011-03-25
261808	MW-11	water	2011-03-25	12:07	2011-03-25
261809	MW-13	water	2011-03-25	13:25	2011-03-25
261810	MW-14	water	2011-03-25	10:47	2011-03-25
261811	MW-15	water	2011-03-25	10:38	2011-03-25
261812	MW-16	water	2011-03-25	10:27	2011-03-25
261813	MW-17	water	2011-03-25	10:09	2011-03-25
261814	MW-18	water	2011-03-25	13:15	2011-03-25

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
261805 - MW-6	0.228	0.0573	<0.00500	0.106
261806 - MW-9	0.0533	<0.00100	<0.00100	0.0219
261807 - MW-10	0.0211	0.0100	0.00660	0.0229
261808 - MW-11	<0.00100	<0.00100	<0.00100	<0.00100
261809 - MW-13	0.168	0.00760	<0.00100	0.0447
261810 - MW-14	<0.00100	<0.00100	<0.00100	<0.00100
261811 - MW-15	<0.00100	<0.00100	<0.00100	<0.00100
261812 - MW-16	0.0623	0.00800	0.00830	0.0216
261813 - MW-17	<0.00100	<0.00100	<0.00100	<0.00100
261814 - MW-18	<0.00100	<0.00100	<0.00100	<0.00100



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
NCTRCA WFWB38444Y0909

DBE: VN 20657

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: April 4, 2011

Work Order: 11032528



Project Location: Hobbs, NM
Project Name: C.S. Cayler
Project Number: 700376.049.01
SRS #: 2002-10250

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
261805	MW-6	water	2011-03-25	13:37	2011-03-25
261806	MW-9	water	2011-03-25	11:46	2011-03-25
261807	MW-10	water	2011-03-25	11:55	2011-03-25
261808	MW-11	water	2011-03-25	12:07	2011-03-25
261809	MW-13	water	2011-03-25	13:25	2011-03-25
261810	MW-14	water	2011-03-25	10:47	2011-03-25
261811	MW-15	water	2011-03-25	10:38	2011-03-25
261812	MW-16	water	2011-03-25	10:27	2011-03-25
261813	MW-17	water	2011-03-25	10:09	2011-03-25
261814	MW-18	water	2011-03-25	13:15	2011-03-25

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

This report consists of a total of 10 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 C.S. Cayler were received by TraceAnalysis, Inc. on 2011-03-25 and assigned to work order 11032528. Samples for work order 11032528 were received intact without headspace and at a temperature of 2.8 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	67884	2011-04-01 at 08:56	80013	2011-04-01 at 09:19

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 11032528 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.

Report Date: April 4, 2011
700376.049.01

Work Order: 11032528
C.S. Cayler

Page Number: 4 of 10
Hobbs, NM

Analytical Report

Sample: 261805 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 80013
Prep Batch: 67884

Analytical Method: S 8021B
Date Analyzed: 2011-04-01
Sample Preparation: 2011-04-01

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.228	mg/L	5	0.00100
Toluene		0.0573	mg/L	5	0.00100
Ethylbenzene		<0.00500	mg/L	5	0.00100
Xylene		0.106	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.487	mg/L	5	0.500	97	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.487	mg/L	5	0.500	97	51.1 - 128

Sample: 261806 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 80013
Prep Batch: 67884

Analytical Method: S 8021B
Date Analyzed: 2011-04-01
Sample Preparation: 2011-04-01

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0533	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.0219	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0971	mg/L	1	0.100	97	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	51.1 - 128

Sample: 261807 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 80013
Prep Batch: 67884

Analytical Method: S 8021B
Date Analyzed: 2011-04-01
Sample Preparation: 2011-04-01

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

Report Date: April 4, 2011
700376.049.01

Work Order: 11032528
C.S. Cayler

Page Number: 5 of 10
Hobbs, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0211	mg/L	1	0.00100
Toluene		0.0100	mg/L	1	0.00100
Ethylbenzene		0.00660	mg/L	1	0.00100
Xylene		0.0229	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0857	mg/L	1	0.100	86	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.0878	mg/L	1	0.100	88	51.1 - 128

Sample: 261808 - MW-11

Laboratory: Midland
Analysis: BTEX
QC Batch: 80013
Prep Batch: 67884

Analytical Method: S 8021B
Date Analyzed: 2011-04-01
Sample Preparation: 2011-04-01

Prep Method: S 5030B
Analyzed By: ME
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)		0.101	mg/L	1	0.100	101	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	51.1 - 128

Sample: 261809 - MW-13

Laboratory: Midland
Analysis: BTEX
QC Batch: 80013
Prep Batch: 67884

Analytical Method: S 8021B
Date Analyzed: 2011-04-01
Sample Preparation: 2011-04-01

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.168	mg/L	1	0.00100
Toluene		0.00760	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.0447	mg/L	1	0.00100

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Hobbs, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	51.1 - 128

Sample: 261810 - MW-14

Laboratory: Midland

Analysis: BTEX

QC Batch: 80013

Prep Batch: 67884

Analytical Method: S 8021B

Date Analyzed: 2011-04-01

Sample Preparation: 2011-04-01

Prep Method: S 5030B

Analyzed By: ME

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)		0.107	mg/L	1	0.100	107	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	51.1 - 128

Sample: 261811 - MW-15

Laboratory: Midland

Analysis: BTEX

QC Batch: 80013

Prep Batch: 67884

Analytical Method: S 8021B

Date Analyzed: 2011-04-01

Sample Preparation: 2011-04-01

Prep Method: S 5030B

Analyzed By: ME

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)		0.102	mg/L	1	0.100	102	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	51.1 - 128

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C.S. Cayler

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Sample: 261812 - MW-16

Laboratory: Midland
Analysis: BTEX
QC Batch: 80013
Prep Batch: 67884

Analytical Method: S 8021B
Date Analyzed: 2011-04-01
Sample Preparation: 2011-04-01

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0623	mg/L	1	0.00100
Toluene		0.00800	mg/L	1	0.00100
Ethylbenzene		0.00830	mg/L	1	0.00100
Xylene		0.0216	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0990	mg/L	1	0.100	99	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.0988	mg/L	1	0.100	99	51.1 - 128

Sample: 261813 - MW-17

Laboratory: Midland
Analysis: BTEX
QC Batch: 80013
Prep Batch: 67884

Analytical Method: S 8021B
Date Analyzed: 2011-04-01
Sample Preparation: 2011-04-01

Prep Method: S 5030B
Analyzed By: ME
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)		0.104	mg/L	1	0.100	104	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	51.1 - 128

Sample: 261814 - MW-18

Laboratory: Midland
Analysis: BTEX
QC Batch: 80013
Prep Batch: 67884

Analytical Method: S 8021B
Date Analyzed: 2011-04-01
Sample Preparation: 2011-04-01

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

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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	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.0980	mg/L	1	0.100	98	51.1 - 128

Method Blank (1) QC Batch: 80013

QC Batch: 80013
Prep Batch: 67884

Date Analyzed: 2011-04-01
QC Preparation: 2011-04-01

Analyzed By: ME
Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000400	mg/L	0.001
Toluene		<0.000300	mg/L	0.001
Ethylbenzene		<0.000300	mg/L	0.001
Xylene		<0.000333	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0900	mg/L	1	0.100	90	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.0881	mg/L	1	0.100	88	47.3 - 116

Laboratory Control Spike (LCS-1)

QC Batch: 80013
Prep Batch: 67884

Date Analyzed: 2011-04-01
QC Preparation: 2011-04-01

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0901	mg/L	1	0.100	<0.000400	90	76.8 - 110
Toluene	0.0917	mg/L	1	0.100	<0.000300	92	81 - 108
Ethylbenzene	0.0993	mg/L	1	0.100	<0.000300	99	78.8 - 118
Xylene	0.298	mg/L	1	0.300	<0.000333	99	80.3 - 119

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

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0941	mg/L	1	0.100	<0.000400	94	76.8 - 110	4	20
Toluene	0.0961	mg/L	1	0.100	<0.000300	96	81 - 108	5	20
Ethylbenzene	0.104	mg/L	1	0.100	<0.000300	104	78.8 - 118	5	20
Xylene	0.313	mg/L	1	0.300	<0.000333	104	80.3 - 119	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)	0.0945	0.0943	mg/L	1	0.100	94	94	66.6 - 114
4-Bromofluorobenzene (4-BFB)	0.0993	0.0997	mg/L	1	0.100	99	100	68.2 - 124

Matrix Spike (MS-1) Spiked Sample: 261805

QC Batch: 80013
Prep Batch: 67884

Date Analyzed: 2011-04-01
QC Preparation: 2011-04-01

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.698	mg/L	5	0.500	0.2279	94	77.9 - 114
Toluene	0.507	mg/L	5	0.500	0.0573	90	78.3 - 111
Ethylbenzene	0.504	mg/L	5	0.500	<0.00150	101	75.3 - 110
Xylene	1.54	mg/L	5	1.50	0.1065	96	75.7 - 109

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	0.708	mg/L	5	0.500	0.2279	96	77.9 - 114	1	20
Toluene	0.518	mg/L	5	0.500	0.0573	92	78.3 - 111	2	20
Ethylbenzene	0.524	mg/L	5	0.500	<0.00150	105	75.3 - 110	4	20
Xylene	1.62	mg/L	5	1.50	0.1065	101	75.7 - 109	5	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.508	0.499	mg/L	5	0.5	102	100	68.3 - 107
4-Bromofluorobenzene (4-BFB)	0.538	0.544	mg/L	5	0.5	108	109	60.1 - 135

Standard (CCV-1)

QC Batch: 80013

Date Analyzed: 2011-04-01

Analyzed By: ME

Report Date: April 4, 2011
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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0892	89	80 - 120	2011-04-01
Toluene		mg/L	0.100	0.0924	92	80 - 120	2011-04-01
Ethylbenzene		mg/L	0.100	0.0998	100	80 - 120	2011-04-01
Xylene		mg/L	0.300	0.300	100	80 - 120	2011-04-01

Standard (CCV-2)

QC Batch: 80013

Date Analyzed: 2011-04-01

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	0.0943	94	80 - 120	2011-04-01
Toluene		mg/L	0.100	0.0964	96	80 - 120	2011-04-01
Ethylbenzene		mg/L	0.100	0.104	104	80 - 120	2011-04-01
Xylene		mg/L	0.300	0.314	105	80 - 120	2011-04-01

Standard (CCV-3)

QC Batch: 80013

Date Analyzed: 2011-04-01

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	0.0944	94	80 - 120	2011-04-01
Toluene		mg/L	0.100	0.0957	96	80 - 120	2011-04-01
Ethylbenzene		mg/L	0.100	0.104	104	80 - 120	2011-04-01
Xylene		mg/L	0.300	0.312	104	80 - 120	2011-04-01

11032528

1.1

TraceAnalysis, Inc.

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Company Name: <u>Talon LPE</u>		Phone #:	
Address: (Street, City, Zip) <u>2901 St Hwy 349 79706</u>		Fax #:	
Contact Person: <u>Steve Killingsworth</u>		E-mail: <u>SKillingsworth@talonlpe.com</u>	
Invoice to: (If different from above) <u>2002-10250</u>			
Project #: <u>700376.049.01</u>		Project Name: <u>CS Caylor</u>	
Project Location (including state): <u>Hbbs, NM</u>		Sampler Signature: <u>[Signature]</u>	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		MTBE 8021 / 602	BTEX 8021 / 602 / 8260 / 625	TPH 418.1 / TX1005	TPH 8015 GRO / DD	PAH 8270 / 625	Total Metals Ag As Ba C	TCLP Metals Ag As	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 625	GC/MS Semi. Vol. 8	PCB's 8082 / 608	Pesticides 8081 / 60	BOD, TSS, pH	Moisture Content	Cl, F, S04, NO3, N	Na, Ca, Mg, K, TDS						Turn Around Time if	Hold																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO3	H2SO4	NaOH	ICE	NONE	DATE																											TIME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
261805	MW6	3	40ml	X				X					X	3/25/11	1337	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											</

Relinquished by: <u>[Signature]</u>	Company: <u>Talon</u>	Date: <u>3/25/11</u>	Time: <u>1545</u>	Received by: <u>[Signature]</u>	Company: <u>Trace</u>	Date: <u>3/25/11</u>	Time: <u>1545</u>	INST <u>28</u>	OBS <u>28</u>	COR <u>28</u>	LAB USE ONLY Intact ☒ N Headspace ☒ N / NA Log-In-Review ☐	REMARKS: <u>All tests-Midland</u> ☐ Dry Weight Basis Required ☐ TRRP Report Required ☐ Check If Special Reporting Limits Are Needed
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR		
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR		

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

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Carrier #

Camp

Report Date: July 6, 2011
700376.049.01

Work Order: 11062407
C.S. Cayler

Page Number: 1 of 3
Hobbs, NM

Summary Report

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

Report Date: July 6, 2011

Work Order: 11062407

Project Location: Hobbs, NM
Project Name: C.S. Cayler
Project Number: 700376.049.01
SRS #: 2002-10250

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
270346	MW 8A	water	2011-06-23	11:50	2011-06-24
270347	MW 11	water	2011-06-22	12:45	2011-06-24
270348	MW 12A	water	2011-06-23	12:10	2011-06-24
270349	MW 13	water	2011-06-22	13:40	2011-06-24
270350	MW 14	water	2011-06-22	13:05	2011-06-24
270351	MW 15	water	2011-06-22	13:00	2011-06-24
270352	MW 16	water	2011-06-22	13:45	2011-06-24
270353	MW 17	water	2011-06-22	13:43	2011-06-24
270354	MW 18	water	2011-06-22	12:50	2011-06-24

Sample: 270346 - MW 8A

Param	Flag	Dry Weight	Dry Weight (%)
Benzene		0.0354 mg/L	0.00000354 %
Toluene		0.0236 mg/L	0.00000236 %
Ethylbenzene		0.00260 mg/L	0.000000260 %
Xylene		0.0132 mg/L	0.00000132 %

Sample: 270347 - MW 11

Param	Flag	Dry Weight	Dry Weight (%)
Benzene		<0.00100 mg/L	0.00 %
Toluene		<0.00100 mg/L	0.00 %
Ethylbenzene		<0.00100 mg/L	0.00 %

continued ...

Report Date: July 6, 2011
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Work Order: 11062407
C.S. Cayler

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Hobbs, NM

sample 270347 continued ...

Param	Flag	Dry Weight	Dry Weight (%)
Xylene		<0.00100 mg/L	0.00 %

Sample: 270348 - MW 12A

Param	Flag	Dry Weight	Dry Weight (%)
Benzene		31.9 mg/L	0.00319 %
Toluene		2.11 mg/L	0.000211 %
Ethylbenzene		1.32 mg/L	0.000132 %
Xylene		2.40 mg/L	0.000240 %

Sample: 270349 - MW 13

Param	Flag	Dry Weight	Dry Weight (%)
Benzene		0.246 mg/L	0.0000246 %
Toluene		<0.00100 mg/L	0.00 %
Ethylbenzene		0.00240 mg/L	0.000000240 %
Xylene		0.0230 mg/L	0.00000230 %

Sample: 270350 - MW 14

Param	Flag	Dry Weight	Dry Weight (%)
Benzene		0.00760 mg/L	0.000000760 %
Toluene		<0.00100 mg/L	0.00 %
Ethylbenzene		<0.00100 mg/L	0.00 %
Xylene		0.00210 mg/L	0.000000210 %

Sample: 270351 - MW 15

Param	Flag	Dry Weight	Dry Weight (%)
Benzene		<0.00100 mg/L	0.00 %
Toluene		<0.00100 mg/L	0.00 %
Ethylbenzene		<0.00100 mg/L	0.00 %
Xylene		<0.00100 mg/L	0.00 %

Sample: 270352 - MW 16

Param	Flag	Dry Weight	Dry Weight (%)
Benzene		0.344 mg/L	0.0000344 %
Toluene		0.00780 mg/L	0.000000780 %

continued ...

Report Date: July 6, 2011
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sample 270352 continued ...

Param	Flag	Dry Weight	Dry Weight (%)
Ethylbenzene		0.00960 mg/L	0.000000960 %
Xylene		0.0209 mg/L	0.00000209 %

Sample: 270353 - MW 17

Param	Flag	Dry Weight	Dry Weight (%)
Benzene		<0.00100 mg/L	0.00 %
Toluene		<0.00100 mg/L	0.00 %
Ethylbenzene		<0.00100 mg/L	0.00 %
Xylene		<0.00100 mg/L	0.00 %

Sample: 270354 - MW 18

Param	Flag	Dry Weight	Dry Weight (%)
Benzene		<0.00100 mg/L	0.00 %
Toluene		<0.00100 mg/L	0.00 %
Ethylbenzene		<0.00100 mg/L	0.00 %
Xylene		<0.00100 mg/L	0.00 %



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E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: July 5, 2011

Work Order: 11062407



Project Location: Hobbs, NM
Project Name: C.S. Cayler
Project Number: 700376.049.01
SRS #: 2002-10250

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
270346	MW 8A	water	2011-06-23	11:50	2011-06-24
270347	MW 11	water	2011-06-22	12:45	2011-06-24
270348	MW 12A	water	2011-06-23	12:10	2011-06-24
270349	MW 13	water	2011-06-22	13:40	2011-06-24
270350	MW 14	water	2011-06-22	13:05	2011-06-24
270351	MW 15	water	2011-06-22	13:00	2011-06-24
270352	MW 16	water	2011-06-22	13:45	2011-06-24
270353	MW 17	water	2011-06-22	13:43	2011-06-24
270354	MW 18	water	2011-06-22	12:50	2011-06-24

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

This report consists of a total of 18 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive style with a large, stylized 'M' and 'A'.

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

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Case Narrative

Samples for project C.S. Cayler were received by TraceAnalysis, Inc. on 2011-06-24 and assigned to work order 11062407. Samples for work order 11062407 were received intact without headspace and at a temperature of 3.8 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	70199	2011-06-29 at 15:12	82649	2011-06-29 at 15:12
BTEX	S 8021B	70202	2011-06-29 at 15:31	82652	2011-06-29 at 15:31
BTEX	S 8021B	70249	2011-06-30 at 13:54	82701	2011-06-30 at 13:54

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 11062407 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.

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Analytical Report

Sample: 270346 - MW 8A

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 82649
Prep Batch: 70199

Analytical Method: S 8021B
Date Analyzed: 2011-06-29
Sample Preparation: 2011-06-29

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.0354	mg/L	1	0.00100
Toluene		1	0.0236	mg/L	1	0.00100
Ethylbenzene		1	0.00260	mg/L	1	0.00100
Xylene		1	0.0132	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0979	mg/L	1	0.100	98	73 - 123
4-Bromofluorobenzene (4-BFB)			0.108	mg/L	1	0.100	108	75.9 - 129

Sample: 270347 - MW 11

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 82649
Prep Batch: 70199

Analytical Method: S 8021B
Date Analyzed: 2011-06-29
Sample Preparation: 2011-06-29

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

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0998	mg/L	1	0.100	100	73 - 123
4-Bromofluorobenzene (4-BFB)			0.113	mg/L	1	0.100	113	75.9 - 129

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Sample: 270348 - MW 12A

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 82701
Prep Batch: 70249

Analytical Method: S 8021B
Date Analyzed: 2011-06-30
Sample Preparation: 2011-06-30

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	31.9	mg/L	100	0.00100
Toluene		1	2.11	mg/L	100	0.00100
Ethylbenzene		1	1.32	mg/L	100	0.00100
Xylene		1	2.40	mg/L	100	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			8.79	mg/L	100	10.0	88	73 - 123
4-Bromofluorobenzene (4-BFB)			10.6	mg/L	100	10.0	106	75.9 - 129

Sample: 270349 - MW 13

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 82701
Prep Batch: 70249

Analytical Method: S 8021B
Date Analyzed: 2011-06-30
Sample Preparation: 2011-06-30

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.246	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	0.00240	mg/L	1	0.00100
Xylene		1	0.0230	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0903	mg/L	1	0.100	90	73 - 123
4-Bromofluorobenzene (4-BFB)			0.112	mg/L	1	0.100	112	75.9 - 129

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Sample: 270350 - MW 14

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 82649
Prep Batch: 70199

Analytical Method: S 8021B
Date Analyzed: 2011-06-29
Sample Preparation: 2011-06-29

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.00760	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	0.00210	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0968	mg/L	1	0.100	97	73 - 123
4-Bromofluorobenzene (4-BFB)			0.106	mg/L	1	0.100	106	75.9 - 129

Sample: 270351 - MW 15

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 82652
Prep Batch: 70202

Analytical Method: S 8021B
Date Analyzed: 2011-06-29
Sample Preparation: 2011-06-29

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

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0892	mg/L	1	0.100	89	73 - 113
4-Bromofluorobenzene (4-BFB)			0.0914	mg/L	1	0.100	91	73.7 - 114

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Sample: 270352 - MW 16

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 82652
Prep Batch: 70202

Analytical Method: S 8021B
Date Analyzed: 2011-06-29
Sample Preparation: 2011-06-29

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.344	mg/L	1	0.00100
Toluene		1	0.00780	mg/L	1	0.00100
Ethylbenzene		1	0.00960	mg/L	1	0.00100
Xylene		1	0.0209	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.103	mg/L	1	0.100	103	73 - 113
4-Bromofluorobenzene (4-BFB)			0.0946	mg/L	1	0.100	95	73.7 - 114

Sample: 270353 - MW 17

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 82652
Prep Batch: 70202

Analytical Method: S 8021B
Date Analyzed: 2011-06-29
Sample Preparation: 2011-06-29

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

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0868	mg/L	1	0.100	87	73 - 113
4-Bromofluorobenzene (4-BFB)			0.0890	mg/L	1	0.100	89	73.7 - 114

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Sample: 270354 - MW 18

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 82652

Prep Batch: 70202

Analytical Method: S 8021B

Date Analyzed: 2011-06-29

Sample Preparation: 2011-06-29

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0881	mg/L	1	0.100	88	73 - 113
4-Bromofluorobenzene (4-BFB)			0.0829	mg/L	1	0.100	83	73.7 - 114

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Method Blanks

Method Blank (1) QC Batch: 82649

QC Batch: 82649
Prep Batch: 70199

Date Analyzed: 2011-06-29
QC Preparation: 2011-06-29

Analyzed By: MT
Prepared By: MT

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000765	mg/L	0.001
Toluene		1	<0.000719	mg/L	0.001
Ethylbenzene		1	<0.000860	mg/L	0.001
Xylene		1	<0.000942	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.103	mg/L	1	0.100	103	73 - 123
4-Bromofluorobenzene (4-BFB)			0.116	mg/L	1	0.100	116	75.9 - 129

Method Blank (1) QC Batch: 82652

QC Batch: 82652
Prep Batch: 70202

Date Analyzed: 2011-06-29
QC Preparation: 2011-06-29

Analyzed By: MT
Prepared By: MT

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000743	mg/L	0.001
Toluene		1	<0.000671	mg/L	0.001
Ethylbenzene		1	<0.000923	mg/L	0.001
Xylene		1	<0.000838	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0808	mg/L	1	0.100	81	73 - 113
4-Bromofluorobenzene (4-BFB)			0.0839	mg/L	1	0.100	84	73.7 - 114

Method Blank (1) QC Batch: 82701

QC Batch: 82701
Prep Batch: 70249

Date Analyzed: 2011-06-30
QC Preparation: 2011-06-30

Analyzed By: MT
Prepared By: MT

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Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000765	mg/L	0.001
Toluene		1	<0.000719	mg/L	0.001
Ethylbenzene		1	<0.000860	mg/L	0.001
Xylene		1	<0.000942	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0975	mg/L	1	0.100	98	73 - 123
4-Bromofluorobenzene (4-BFB)			0.109	mg/L	1	0.100	109	75.9 - 129

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 82649
Prep Batch: 70199

Date Analyzed: 2011-06-29
QC Preparation: 2011-06-29

Analyzed By: MT
Prepared By: MT

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.105	mg/L	1	0.100	<0.000765	105	80.5 - 112
Toluene		1	0.103	mg/L	1	0.100	<0.000719	103	79.6 - 114
Ethylbenzene		1	0.104	mg/L	1	0.100	<0.000860	104	78.4 - 115
Xylene		1	0.315	mg/L	1	0.300	<0.000942	105	77 - 114

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.101	mg/L	1	0.100	<0.000765	101	80.5 - 112	4	20
Toluene		1	0.0994	mg/L	1	0.100	<0.000719	99	79.6 - 114	4	20
Ethylbenzene		1	0.0991	mg/L	1	0.100	<0.000860	99	78.4 - 115	5	20
Xylene		1	0.303	mg/L	1	0.300	<0.000942	101	77 - 114	4	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0967	0.0967	mg/L	1	0.100	97	97	68.9 - 116
4-Bromofluorobenzene (4-BFB)	0.0994	0.103	mg/L	1	0.100	99	103	68.5 - 116

Laboratory Control Spike (LCS-1)

QC Batch: 82652
Prep Batch: 70202

Date Analyzed: 2011-06-29
QC Preparation: 2011-06-29

Analyzed By: MT
Prepared By: MT

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0952	mg/L	1	0.100	<0.000743	95	75.2 - 116
Toluene		1	0.0939	mg/L	1	0.100	<0.000671	94	72.3 - 118
Ethylbenzene		1	0.0933	mg/L	1	0.100	<0.000923	93	76.5 - 112
Xylene		1	0.281	mg/L	1	0.300	<0.000838	94	77 - 113

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

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0969	mg/L	1	0.100	<0.000743	97	75.2 - 116	2	20
Toluene		1	0.0939	mg/L	1	0.100	<0.000671	94	72.3 - 118	0	20
Ethylbenzene		1	0.0957	mg/L	1	0.100	<0.000923	96	76.5 - 112	2	20
Xylene		1	0.281	mg/L	1	0.300	<0.000838	94	77 - 113	0	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0879	0.0818	mg/L	1	0.100	88	82	73.4 - 114
4-Bromofluorobenzene (4-BFB)	0.0901	0.0837	mg/L	1	0.100	90	84	75.1 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 82701
Prep Batch: 70249

Date Analyzed: 2011-06-30
QC Preparation: 2011-06-30

Analyzed By: MT
Prepared By: MT

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0974	mg/L	1	0.100	<0.000765	97	80.5 - 112
Toluene		1	0.0981	mg/L	1	0.100	<0.000719	98	79.6 - 114
Ethylbenzene		1	0.0971	mg/L	1	0.100	<0.000860	97	78.4 - 115
Xylene		1	0.296	mg/L	1	0.300	<0.000942	99	77 - 114

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.104	mg/L	1	0.100	<0.000765	104	80.5 - 112	7	20
Toluene		1	0.104	mg/L	1	0.100	<0.000719	104	79.6 - 114	6	20
Ethylbenzene		1	0.105	mg/L	1	0.100	<0.000860	105	78.4 - 115	8	20
Xylene		1	0.319	mg/L	1	0.300	<0.000942	106	77 - 114	8	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0948	0.0961	mg/L	1	0.100	95	96	68.9 - 116
4-Bromofluorobenzene (4-BFB)	0.101	0.0997	mg/L	1	0.100	101	100	68.5 - 116

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Matrix Spike (MS-1) Spiked Sample: 270625

QC Batch: 82649
Prep Batch: 70199

Date Analyzed: 2011-06-29
QC Preparation: 2011-06-29

Analyzed By: MT
Prepared By: MT

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.147	mg/L	1	0.100	0.0574	90	39.9 - 132
Toluene		1	0.0813	mg/L	1	0.100	<0.000719	81	36.3 - 136
Ethylbenzene		1	0.453	mg/L	1	0.100	0.325	128	38.4 - 135
Xylene		1	0.346	mg/L	1	0.300	0.0959	83	35.2 - 134

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.153	mg/L	1	0.100	0.0574	96	39.9 - 132	4	20
Toluene		1	0.0941	mg/L	1	0.100	<0.000719	94	36.3 - 136	15	20
Ethylbenzene		1	0.424	mg/L	1	0.100	0.325	99	38.4 - 135	7	20
Xylene		1	0.379	mg/L	1	0.300	0.0959	94	35.2 - 134	9	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0964	0.0986	mg/L	1	0.1	96	99	64.2 - 125
4-Bromofluorobenzene (4-BFB)	0.109	0.110	mg/L	1	0.1	109	110	67.8 - 122

Matrix Spike (MS-1) Spiked Sample: 270627

QC Batch: 82652
Prep Batch: 70202

Date Analyzed: 2011-06-29
QC Preparation: 2011-06-29

Analyzed By: MT
Prepared By: MT

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0878	mg/L	1	0.100	<0.000743	88	44 - 133
Toluene		1	0.0900	mg/L	1	0.100	<0.000671	90	43.4 - 133
Ethylbenzene		1	0.0948	mg/L	1	0.100	<0.000923	95	66.8 - 115
Xylene		1	0.270	mg/L	1	0.300	<0.000838	90	63.7 - 118

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0897	mg/L	1	0.100	<0.000743	90	44 - 133	2	20
Toluene		1	0.0889	mg/L	1	0.100	<0.000671	89	43.4 - 133	1	20

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matrix spikes continued ...

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene		1	0.102	mg/L	1	0.100	<0.000923	102	66.8 - 115	8	20
Xylene		1	0.262	mg/L	1	0.300	<0.000838	88	63.7 - 118	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)	0.0872	0.0789	mg/L	1	0.1	87	79	73.2 - 116
4-Bromofluorobenzene (4-BFB)	0.0935	0.0875	mg/L	1	0.1	94	88	73.9 - 118

Matrix Spike (MS-1) Spiked Sample: 270348

QC Batch: 82701
Prep Batch: 70249

Date Analyzed: 2011-06-30
QC Preparation: 2011-06-30

Analyzed By: MT
Prepared By: MT

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	43.6	mg/L	100	10.0	31.9	117	39.9 - 132
Toluene		1	12.1	mg/L	100	10.0	2.11	100	36.3 - 136
Ethylbenzene		1	11.5	mg/L	100	10.0	1.32	102	38.4 - 135
Xylene		1	33.2	mg/L	100	30.0	2.4	103	35.2 - 134

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	41.6	mg/L	100	10.0	31.9	97	39.9 - 132	5	20
Toluene		1	12.0	mg/L	100	10.0	2.11	99	36.3 - 136	1	20
Ethylbenzene		1	11.5	mg/L	100	10.0	1.32	102	38.4 - 135	0	20
Xylene		1	33.2	mg/L	100	30.0	2.4	103	35.2 - 134	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)	9.14	9.38	mg/L	100	10	91	94	64.2 - 125
4-Bromofluorobenzene (4-BFB)	9.86	9.94	mg/L	100	10	99	99	67.8 - 122

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C.S. Cayler

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Calibration Standards

Standard (CCV-2)

QC Batch: 82649

Date Analyzed: 2011-06-29

Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.101	101	80 - 120	2011-06-29
Toluene		1	mg/L	0.100	0.0996	100	80 - 120	2011-06-29
Ethylbenzene		1	mg/L	0.100	0.0999	100	80 - 120	2011-06-29
Xylene		1	mg/L	0.300	0.304	101	80 - 120	2011-06-29

Standard (CCV-3)

QC Batch: 82649

Date Analyzed: 2011-06-29

Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.102	102	80 - 120	2011-06-29
Toluene		1	mg/L	0.100	0.0983	98	80 - 120	2011-06-29
Ethylbenzene		1	mg/L	0.100	0.0995	100	80 - 120	2011-06-29
Xylene		1	mg/L	0.300	0.302	101	80 - 120	2011-06-29

Standard (CCV-1)

QC Batch: 82652

Date Analyzed: 2011-06-29

Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0965	96	80 - 120	2011-06-29
Toluene		1	mg/L	0.100	0.0949	95	80 - 120	2011-06-29
Ethylbenzene		1	mg/L	0.100	0.0948	95	80 - 120	2011-06-29
Xylene		1	mg/L	0.300	0.288	96	80 - 120	2011-06-29

Report Date: July 5, 2011
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C.S. Cayler

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Standard (CCV-2)

QC Batch: 82652

Date Analyzed: 2011-06-29

Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0974	97	80 - 120	2011-06-29
Toluene		1	mg/L	0.100	0.0955	96	80 - 120	2011-06-29
Ethylbenzene		1	mg/L	0.100	0.0949	95	80 - 120	2011-06-29
Xylene		1	mg/L	0.300	0.285	95	80 - 120	2011-06-29

Standard (CCV-1)

QC Batch: 82701

Date Analyzed: 2011-06-30

Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.102	102	80 - 120	2011-06-30
Toluene		1	mg/L	0.100	0.102	102	80 - 120	2011-06-30
Ethylbenzene		1	mg/L	0.100	0.103	103	80 - 120	2011-06-30
Xylene		1	mg/L	0.300	0.311	104	80 - 120	2011-06-30

Standard (CCV-2)

QC Batch: 82701

Date Analyzed: 2011-06-30

Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.101	101	80 - 120	2011-06-30
Toluene		1	mg/L	0.100	0.0982	98	80 - 120	2011-06-30
Ethylbenzene		1	mg/L	0.100	0.0994	99	80 - 120	2011-06-30
Xylene		1	mg/L	0.300	0.302	101	80 - 120	2011-06-30

Appendix

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-11-TX	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

TraceAnalysis, Inc.

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2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: <u>Talon</u>	Phone #:
Address: (Street, City, Zip) <u>2901 State Hwy 349</u>	Fax #:
Contact Person: <u>Steve Killingsworth</u>	E-mail: <u>SKillingsworth@talonpe.com</u>
Invoice to: (If different from above) <u>2002-10250</u>	
Project #: <u>200376, 049.01</u>	Project Name: <u>CS. Caylor</u>
Project Location (including state): <u>Holmes NM</u>	Sampler Signature: <u>[Signature]</u>

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		MTBE 8021 / 602	BTX 8021 / 602 / 114	TPH 418.1 / TX1005	TPH 8015 GRO / DD	PAH 8270 / 625	Total Metals Ag As Ba Cd	TCLP Metals Ag As	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 625	GC/MS Semi. Vol. 8	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS	Turn Around Time if different from standard	Hold	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO3	H2SO4	NaOH	ICE	NONE	DATE																						TIME
270346	MW 8A	3	400	X				X				X		6/23/11	11:50	X																				
347	MW 11											X		6/23/11	12:45																					
348	MW 12A													6/23/11	12:10																					
349	MW 13													6/23/11	13:40																					
350	MW 14														13:05																					
351	MW 15														13:00																					
352	MW 16														13:45																					
353	MW 17														13:45																					
354	MW 18														12:50																					

Relinquished by: <u>[Signature]</u>	Company: <u>TalonPE</u>	Date: <u>6/24/11</u>	Time: <u>9:35</u>	Received by: <u>[Signature]</u>	Company: <u>T/A</u>	Date: <u>6/24/11</u>	Time: <u>9:35</u>	INST <u>3.8</u>	OBS <u>3.8</u>	COR <u>3.8</u>	LAB USE ONLY ☐ Intact ☐ Headspace ☐ Log-In Review	REMARKS: <u>* All tests Midland</u>
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR		
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR		

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

ORIGINAL COPY

Carrier # [Signature]

Summary Report

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

Report Date: September 30, 2011

Work Order: 11092906



Project Location: Cayler, NM
Project Number: 700376.049.01
SRS #: 2002-10250

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
278577	MW-11	water	2011-09-28	14:45	2011-09-28
278578	MW-15	water	2011-09-28	14:00	2011-09-28
278579	MW-16	water	2011-09-28	13:42	2011-09-28
278580	MW-17	water	2011-09-28	13:40	2011-09-28
278581	MW-18	water	2011-09-28	14:20	2011-09-28

Sample - Field Code	BTEX				Total BTEX Total BTEX (mg/L)
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	
278577 - MW-11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
278578 - MW-15	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
278579 - MW-16	7.15	0.110	0.152	0.265	7.68
278580 - MW-17	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
278581 - MW-18	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600



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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: September 30, 2011

Work Order: 11092906



Project Location: Cayler, NM
Project Number: 700376.049.01
SRS #: 2002-10250

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
278577	MW-11	water	2011-09-28	14:45	2011-09-28
278578	MW-15	water	2011-09-28	14:00	2011-09-28
278579	MW-16	water	2011-09-28	13:42	2011-09-28
278580	MW-17	water	2011-09-28	13:40	2011-09-28
278581	MW-18	water	2011-09-28	14:20	2011-09-28

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

Michael Abel

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

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Case Narrative

Samples for project were received by TraceAnalysis, Inc. on 2011-09-28 and assigned to work order 11092906. Samples for work order 11092906 were received intact without headspace and at a temperature of 5.5 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	72276	2011-09-29 at 13:23	85129	2011-09-29 at 13:23
Total BTEX	S 8021B	72276	2011-09-29 at 13:23	85129	2011-09-29 at 13:23

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 11092906 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.

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700376.049.01

Work Order: 11092906

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Cayler, NM

Analytical Report

Sample: 278577 - MW-11

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 85129

Prep Batch: 72276

Analytical Method: S 8021B

Date Analyzed: 2011-09-29

Sample Preparation: 2011-09-29

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100
Total BTEX			<0.00600	mg/L	1	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0832	mg/L	1	0.100	83	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0953	mg/L	1	0.100	95	70 - 130

Sample: 278578 - MW-15

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 85129

Prep Batch: 72276

Analytical Method: S 8021B

Date Analyzed: 2011-09-29

Sample Preparation: 2011-09-29

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100
Total BTEX			<0.00600	mg/L	1	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0815	mg/L	1	0.100	82	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0892	mg/L	1	0.100	89	70 - 130

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Sample: 278579 - MW-16

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 85129

Prep Batch: 72276

Analytical Method: S 8021B

Date Analyzed: 2011-09-29

Sample Preparation: 2011-09-29

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	7.15	mg/L	50	0.00100
Toluene		1	0.110	mg/L	50	0.00100
Ethylbenzene		1	0.152	mg/L	50	0.00100
Xylene		1	0.265	mg/L	50	0.00100
Total BTEX			7.68	mg/L	1	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.73	mg/L	50	5.00	95	70 - 130
4-Bromofluorobenzene (4-BFB)			4.86	mg/L	50	5.00	97	70 - 130

Sample: 278580 - MW-17

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 85129

Prep Batch: 72276

Analytical Method: S 8021B

Date Analyzed: 2011-09-29

Sample Preparation: 2011-09-29

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100
Total BTEX			<0.00600	mg/L	1	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0877	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0974	mg/L	1	0.100	97	70 - 130

Report Date: September 30, 2011
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Sample: 278581 - MW-18

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 85129

Prep Batch: 72276

Analytical Method: S 8021B

Date Analyzed: 2011-09-29

Sample Preparation: 2011-09-29

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100
Total BTEX			<0.00600	mg/L	1	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0882	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.101	mg/L	1	0.100	101	70 - 130

Method Blanks

Method Blank (1) QC Batch: 85129

QC Batch: 85129
Prep Batch: 72276

Date Analyzed: 2011-09-29
QC Preparation: 2011-09-29

Analyzed By: ZLM
Prepared By: ZLM

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000743	mg/L	0.001
Toluene		1	<0.000671	mg/L	0.001
Ethylbenzene		1	<0.000923	mg/L	0.001
Xylene		1	<0.000838	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0949	mg/L	1	0.100	95	70 - 130
4-Bromofluorobenzene (4-BFB)			0.105	mg/L	1	0.100	105	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 85129
Prep Batch: 72276

Date Analyzed: 2011-09-29
QC Preparation: 2011-09-29

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0907	mg/L	1	0.100	<0.000743	91	70 - 130
Toluene		1	0.0945	mg/L	1	0.100	<0.000671	94	70 - 130
Ethylbenzene		1	0.102	mg/L	1	0.100	<0.000923	102	70 - 130
Xylene		1	0.309	mg/L	1	0.300	<0.000838	103	70 - 130

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0949	mg/L	1	0.100	<0.000743	95	70 - 130	4	20
Toluene		1	0.0939	mg/L	1	0.100	<0.000671	94	70 - 130	1	20
Ethylbenzene		1	0.0977	mg/L	1	0.100	<0.000923	98	70 - 130	4	20
Xylene		1	0.291	mg/L	1	0.300	<0.000838	97	70 - 130	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)	0.0795	0.0884	mg/L	1	0.100	80	88	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0955	0.101	mg/L	1	0.100	96	101	70 - 130

Matrix Spike (MS-1) Spiked Sample: 278534

QC Batch: 85129
Prep Batch: 72276

Date Analyzed: 2011-09-29
QC Preparation: 2011-09-29

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0961	mg/L	1	0.100	<0.000743	96	70 - 130
Toluene		1	0.0958	mg/L	1	0.100	<0.000671	96	70 - 130
Ethylbenzene		1	0.0980	mg/L	1	0.100	<0.000923	98	70 - 130
Xylene		1	0.297	mg/L	1	0.300	<0.000838	99	70 - 130

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

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Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0944	mg/L	1	0.100	<0.000743	94	70 - 130	2	20
Toluene		1	0.0961	mg/L	1	0.100	<0.000671	96	70 - 130	0	20
Ethylbenzene		1	0.101	mg/L	1	0.100	<0.000923	101	70 - 130	3	20
Xylene		1	0.308	mg/L	1	0.300	<0.000838	103	70 - 130	4	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0884	0.0845	mg/L	1	0.1	88	84	70 - 130
4-Bromofluorobenzene (4-BFB)	0.103	0.105	mg/L	1	0.1	103	105	70 - 130

Calibration Standards

Standard (CCV-2)

QC Batch: 85129

Date Analyzed: 2011-09-29

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0991	99	80 - 120	2011-09-29
Toluene		1	mg/L	0.100	0.0992	99	80 - 120	2011-09-29
Ethylbenzene		1	mg/L	0.100	0.103	103	80 - 120	2011-09-29
Xylene		1	mg/L	0.300	0.290	97	80 - 120	2011-09-29

Standard (CCV-3)

QC Batch: 85129

Date Analyzed: 2011-09-29

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0933	93	80 - 120	2011-09-29
Toluene		1	mg/L	0.100	0.0950	95	80 - 120	2011-09-29
Ethylbenzene		1	mg/L	0.100	0.0984	98	80 - 120	2011-09-29
Xylene		1	mg/L	0.300	0.297	99	80 - 120	2011-09-29

Appendix

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-11-4	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
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5002 Basin Street, Suite A1
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200 East Sunset Rd., Suite E
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Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: Talon Phone #: _____
 Address: (Street, City, Zip) 2901 State HWY 349 Midland 79701 Fax #: _____
 Contact Person: Steve Killingsworth E-mail: skillingworth@talonpc.com
 Invoice to: (If different from above) 2002-10250
 Project #: 700376, 049.01 Project Name: CS Canyon
 Project Location (including state): Hobbs NM Sampler Signature: [Signature]

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		MTBE 8021 / 602	BTEX 8021 / 602 / /	TPH 418.1 / TX1005	TPH 8015 GRO / DPE	PAH 8270 / 625	Total Metals Ag As Ba C	TCLP Metals Ag As	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 6	GC/MS Semi. Vol. 8:	PCB's 8082 / 608	Pesticides 8081 / 60	BOD, TSS, pH	Moisture Content	Cl, F, SO ₄ , NO ₃ -N, I	Na, Ca, Mg, K, TDS,		Turn Around Time if	Hold	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE																							TIME

278577	MW11	3	400	X				X			9/28	1445	X																								
578	MW15	1	1	1				1			1	1400	1																								
579	MW16	1	1	1				1			1	1342	1																								
580	MW17	1	1	1				1			1	1340	1																								
581	MW14	1	1	1				1			1	1420	1																								

Relinquished by: [Signature] Company: Talon Date: 9/28 Time: 1705 Received by: [Signature] Company: TA Date: 9/28/11 Time: 17:05 INST 4.9
 OBS 5.8
 COR _____
 Relinquished by: _____ Company: _____ Date: _____ Time: _____ Received by: _____ Company: _____ Date: _____ Time: _____ INST _____
 OBS _____
 COR _____
 Relinquished by: _____ Company: _____ Date: _____ Time: _____ Received by: _____ Company: _____ Date: _____ Time: _____ INST _____
 OBS _____
 COR _____

LAB USE ONLY

REMARKS:

Intact Y / N _____
 Headspace Y / N / NA _____
 Log-in Review _____
 Dry Weight Basis Required _____
 TRRP Report Required _____
 Check If Special Reporting Limits Are Needed _____

on file

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

ORIGINAL COPY

Carrier # [Signature]

Summary Report

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

Report Date: October 4, 2011

Work Order: 11093003



Project Location: Cayler, NM
Project Number: 700376.049.01
SRS #: 2002-10250

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
278649	MW-8A	water	2011-09-29	10:57	2011-09-30
278650	MW-12A	water	2011-09-29	11:20	2011-09-30

Sample - Field Code	BTEX				Total BTEX
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	Total BTEX (mg/L)
278649 - MW-8A	0.186 Qr,Qs	0.0586 Qr,Qs	0.00540 Qr,Qs	0.0190 Qr,Qs	0.269
278650 - MW-12A	13.9	0.144	0.264	0.251	14.6



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

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: October 4, 2011

Work Order: 11093003



Project Location: Cayler, NM
Project Number: 700376.049.01
SRS #: 2002-10250

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
278649	MW-8A	water	2011-09-29	10:57	2011-09-30
278650	MW-12A	water	2011-09-29	11:20	2011-09-30

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 11 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

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Case Narrative

Samples for project were received by TraceAnalysis, Inc. on 2011-09-30 and assigned to work order 11093003. Samples for work order 11093003 were received intact without headspace and at a temperature of 3.7 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	72321	2011-09-30 at 16:30	85186	2011-09-30 at 16:30
BTEX	S 8021B	72355	2011-10-03 at 12:06	85222	2011-10-03 at 12:06
Total BTEX	S 8021B	72321	2011-09-30 at 16:30	85186	2011-09-30 at 16:30
Total BTEX	S 8021B	72355	2011-10-03 at 12:06	85222	2011-10-03 at 12:06

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 11093003 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.

Report Date: October 4, 2011
700376.049.01

Work Order: 11093003

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Cayler, NM

Analytical Report

Sample: 278649 - MW-8A

Laboratory:	Lubbock	Analytical Method:	S 8021B	Prep Method:	S 5030B
Analysis:	BTEX, Total BTEX	Date Analyzed:	2011-09-30	Analyzed By:	ZLM
QC Batch:	85186	Sample Preparation:	2011-09-30	Prepared By:	ZLM
Prep Batch:	72321				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,Qs	1	0.186	mg/L	1	0.00100
Toluene	Qr,Qs	1	0.0586	mg/L	1	0.00100
Ethylbenzene	Qr,Qs	1	0.00540	mg/L	1	0.00100
Xylene	Qr,Qs	1	0.0190	mg/L	1	0.00100
Total BTEX			0.269	mg/L	1	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0902	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0996	mg/L	1	0.100	100	70 - 130

Sample: 278650 - MW-12A

Laboratory:	Lubbock	Analytical Method:	S 8021B	Prep Method:	S 5030B
Analysis:	BTEX, Total BTEX	Date Analyzed:	2011-10-03	Analyzed By:	ZLM
QC Batch:	85222	Sample Preparation:	2011-10-03	Prepared By:	ZLM
Prep Batch:	72355				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	13.9	mg/L	100	0.00100
Toluene		1	0.144	mg/L	100	0.00100
Ethylbenzene		1	0.264	mg/L	100	0.00100
Xylene		1	0.251	mg/L	100	0.00100
Total BTEX			14.6	mg/L	100	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			9.69	mg/L	100	10.0	97	70 - 130
4-Bromofluorobenzene (4-BFB)			10.1	mg/L	100	10.0	101	70 - 130

Method Blanks

Method Blank (1) QC Batch: 85186

QC Batch: 85186
Prep Batch: 72321

Date Analyzed: 2011-09-30
QC Preparation: 2011-09-30

Analyzed By: ZLM
Prepared By: ZLM

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000765	mg/L	0.001
Toluene		1	<0.000719	mg/L	0.001
Ethylbenzene		1	<0.000860	mg/L	0.001
Xylene		1	<0.000942	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.115	mg/L	1	0.100	115	70 - 130
4-Bromofluorobenzene (4-BFB)			0.114	mg/L	1	0.100	114	70 - 130

Method Blank (1) QC Batch: 85222

QC Batch: 85222
Prep Batch: 72355

Date Analyzed: 2011-10-03
QC Preparation: 2011-10-03

Analyzed By: ZLM
Prepared By: ZLM

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000765	mg/L	0.001
Toluene		1	<0.000719	mg/L	0.001
Ethylbenzene		1	<0.000860	mg/L	0.001
Xylene		1	<0.000942	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.114	mg/L	1	0.100	114	70 - 130
4-Bromofluorobenzene (4-BFB)			0.115	mg/L	1	0.100	115	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 85186
Prep Batch: 72321

Date Analyzed: 2011-09-30
QC Preparation: 2011-09-30

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.118	mg/L	1	0.100	<0.000765	118	70 - 130
Toluene		1	0.0980	mg/L	1	0.100	<0.000719	98	70 - 130
Ethylbenzene		1	0.0920	mg/L	1	0.100	<0.000860	92	70 - 130
Xylene		1	0.282	mg/L	1	0.300	<0.000942	94	70 - 130

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.119	mg/L	1	0.100	<0.000765	119	70 - 130	1	20
Toluene		1	0.0989	mg/L	1	0.100	<0.000719	99	70 - 130	1	20
Ethylbenzene		1	0.0931	mg/L	1	0.100	<0.000860	93	70 - 130	1	20
Xylene		1	0.284	mg/L	1	0.300	<0.000942	95	70 - 130	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.108	0.108	mg/L	1	0.100	108	108	70 - 130
4-Bromofluorobenzene (4-BFB)	0.104	0.104	mg/L	1	0.100	104	104	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 85222
Prep Batch: 72355

Date Analyzed: 2011-10-03
QC Preparation: 2011-10-03

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.118	mg/L	1	0.100	<0.000765	118	70 - 130
Toluene		1	0.0993	mg/L	1	0.100	<0.000719	99	70 - 130
Ethylbenzene		1	0.0956	mg/L	1	0.100	<0.000860	96	70 - 130
Xylene		1	0.290	mg/L	1	0.300	<0.000942	97	70 - 130

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

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Cayler, NM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.116	mg/L	1	0.100	<0.000765	116	70 - 130	2	20
Toluene		1	0.0983	mg/L	1	0.100	<0.000719	98	70 - 130	1	20
Ethylbenzene		1	0.0957	mg/L	1	0.100	<0.000860	96	70 - 130	0	20
Xylene		1	0.288	mg/L	1	0.300	<0.000942	96	70 - 130	1	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.110	0.0997	mg/L	1	0.100	110	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.105	0.0956	mg/L	1	0.100	105	96	70 - 130

Matrix Spike (MS-1) Spiked Sample: 278648

QC Batch: 85186
Prep Batch: 72321

Date Analyzed: 2011-09-30
QC Preparation: 2011-09-30

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0961	mg/L	1	0.100	<0.000765	96	70 - 130
Toluene		1	0.0799	mg/L	1	0.100	<0.000719	80	70 - 130
Ethylbenzene		1	0.0768	mg/L	1	0.100	<0.000860	77	70 - 130
Xylene		1	0.236	mg/L	1	0.300	<0.000942	79	70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	Q _r , Q _s	1	0.0610	mg/L	1	0.100	<0.000765	61	70 - 130	45	20
Toluene	Q _r , Q _s	1	0.0488	mg/L	1	0.100	<0.000719	49	70 - 130	48	20
Ethylbenzene	Q _r , Q _s	1	0.0480	mg/L	1	0.100	<0.000860	48	70 - 130	46	20
Xylene	Q _r , Q _s	1	0.147	mg/L	1	0.300	<0.000942	49	70 - 130	46	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)	0.108	0.103	mg/L	1	0.1	108	103	70 - 130
4-Bromofluorobenzene (4-BFB)	0.104	0.101	mg/L	1	0.1	104	101	70 - 130

Report Date: October 4, 2011
700376.049.01

Work Order: 11093003

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Cayler, NM

Matrix Spike (MS-1) Spiked Sample: 278650

QC Batch: 85222
Prep Batch: 72355

Date Analyzed: 2011-10-03
QC Preparation: 2011-10-03

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	25.0	mg/L	100	10.0	13.9	111	70 - 130
Toluene		1	9.52	mg/L	100	10.0	0.144	94	70 - 130
Ethylbenzene		1	9.22	mg/L	100	10.0	0.264	90	70 - 130
Xylene		1	27.2	mg/L	100	30.0	0.251	90	70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	25.2	mg/L	100	10.0	13.9	113	70 - 130	1	20
Toluene		1	9.69	mg/L	100	10.0	0.144	95	70 - 130	2	20
Ethylbenzene		1	9.46	mg/L	100	10.0	0.264	92	70 - 130	3	20
Xylene		1	27.9	mg/L	100	30.0	0.251	92	70 - 130	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)	9.70	9.53	mg/L	100	10	97	95	70 - 130
4-Bromofluorobenzene (4-BFB)	9.07	9.09	mg/L	100	10	91	91	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 85186

Date Analyzed: 2011-09-30

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.117	117	80 - 120	2011-09-30
Toluene		1	mg/L	0.100	0.0962	96	80 - 120	2011-09-30
Ethylbenzene		1	mg/L	0.100	0.0902	90	80 - 120	2011-09-30
Xylene		1	mg/L	0.300	0.277	92	80 - 120	2011-09-30

Standard (CCV-2)

QC Batch: 85186

Date Analyzed: 2011-09-30

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.111	111	80 - 120	2011-09-30
Toluene		1	mg/L	0.100	0.0961	96	80 - 120	2011-09-30
Ethylbenzene		1	mg/L	0.100	0.0913	91	80 - 120	2011-09-30
Xylene		1	mg/L	0.300	0.278	93	80 - 120	2011-09-30

Standard (CCV-1)

QC Batch: 85222

Date Analyzed: 2011-10-03

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.120	120	80 - 120	2011-10-03
Toluene		1	mg/L	0.100	0.0989	99	80 - 120	2011-10-03
Ethylbenzene		1	mg/L	0.100	0.0953	95	80 - 120	2011-10-03
Xylene		1	mg/L	0.300	0.290	97	80 - 120	2011-10-03

Report Date: October 4, 2011
700376.049.01

Work Order: 11093003

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Cayler, NM

Standard (CCV-2)

QC Batch: 85222

Date Analyzed: 2011-10-03

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.116	116	80 - 120	2011-10-03
Toluene		1	mg/L	0.100	0.0967	97	80 - 120	2011-10-03
Ethylbenzene		1	mg/L	0.100	0.0922	92	80 - 120	2011-10-03
Xylene		1	mg/L	0.300	0.281	94	80 - 120	2011-10-03

Appendix

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-11-4	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

11093003

Trace Analysis, Inc.

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Fax (915) 585-4944
1 (888) 588-3443BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name:

Talon PE

Phone #:

Address: (Street, City, Zip)

2901 State Hwy 349 Midland 79701

Fax #:

Contact Person:

Steve K. Linsworth

E-mail:

Invoice to:

(if different from above) 2002-10250

Project #:

700376.049.01

Project Name:

CS Taylor

Project Location (including state):

Hobbs NM

Sampler Signature:

Taylor

LAB #:
(LAB USE ONLY)

FIELD CODE

CONTAINERS
Volume / AmountWATER
SOIL
AIR
SLUDGE

MATRIX

PRESERVATIVE
METHOD

SAMPLING

HCl
HNO₃
H₂SO₄
NaOH
ICE
NONEDATE
TIME

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

Cl, F, SO₄, NO₃-N, NO₂-N, PO₄-P, Alkalinity

Na, Ca, Mg, K, TDS, EC

Turn Around Time if different from standard

Hold

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by:

Company:

Date:

Time:

Received by:

Company:

Date:

Time:

INST. TYPE
OBS. 3.1
COR. 3.4

LAB USE ONLY

REMARKS:

Relinquished by:

Company:

Date:

Time:

Received by:

Company:

Date:

Time:

INST. TYPE
OBS. 3.1
COR. 3.4

LAB USE ONLY

REMARKS:

Relinquished by:

Company:

Date:

Time:

Received by:

Company:

Date:

Time:

INST. TYPE
OBS. 3.1
COR. 3.4

LAB USE ONLY

REMARKS:

Relinquished by:

Company:

Date:

Time:

Received by:

Company:

Date:

Time:

INST. TYPE
OBS. 3.1
COR. 3.4

LAB USE ONLY

REMARKS:

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

ORIGINAL COPY

Carrier #

Cherry MD

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

Summary Report

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

Report Date: January 18, 2012

Work Order: 12010629



Project Location: Cayler, NM
Project Number: 700376.049.01
SRS #: 2002-10250

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
285887	MW-8A	water	2012-01-05	13:15	2012-01-06
285888	MW-11	water	2012-01-05	14:05	2012-01-06
285889	MW-12A	water	2012-01-05	13:47	2012-01-06
285890	MW-14	water	2012-01-05	13:35	2012-01-06
285891	MW-15	water	2012-01-05	13:25	2012-01-06
285892	MW-16	water	2012-01-05	13:05	2012-01-06
285893	MW-17	water	2012-01-05	13:00	2012-01-06
285894	MW-18	water	2012-01-05	13:49	2012-01-06

Sample - Field Code	BTEX				MTBE
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)
285887 - MW-8A	0.101	0.0639	0.00860	0.0251	
285888 - MW-11	<0.00100	<0.00100	<0.00100	<0.00100	
285889 - MW-12A	18.0	0.807	0.522	0.752	
285890 - MW-14	<0.00100	<0.00100	<0.00100	<0.00100	
285891 - MW-15	<0.00100	<0.00100	<0.00100	<0.00100	
285892 - MW-16	0.255	0.00490	0.00350	0.0221	
285893 - MW-17	<0.00100	<0.00100	<0.00100	<0.00100	
285894 - MW-18	<0.00100	<0.00100	<0.00100	<0.00100	

Sample: 285887 - MW-8A

Param	Flag	Result	Units	RL
Naphthalene		<0.000201	mg/L	0.0002
2-Methylnaphthalene		<0.000201	mg/L	0.0002
1-Methylnaphthalene		<0.000201	mg/L	0.0002
Acenaphthylene		<0.000201	mg/L	0.0002

continued ...

sample 285887 continued ...

Param	Flag	Result	Units	RL
Acenaphthene		<0.000201	mg/L	0.0002
Dibenzofuran		<0.000201	mg/L	0.0002
Fluorene		<0.000201	mg/L	0.0002
Anthracene		<0.000201	mg/L	0.0002
Phenanthrene		<0.000201	mg/L	0.0002
Fluoranthene		<0.000201	mg/L	0.0002
Pyrene		<0.000201	mg/L	0.0002
Benzo(a)anthracene		<0.000201	mg/L	0.0002
Chrysene		<0.000201	mg/L	0.0002
Benzo(b)fluoranthene		<0.000201	mg/L	0.0002
Benzo(k)fluoranthene		<0.000201	mg/L	0.0002
Benzo(a)pyrene		<0.000201	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.000201	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.000201	mg/L	0.0002
Benzo(g,h,i)perylene		<0.000201	mg/L	0.0002

Sample: 285889 - MW-12A

Param	Flag	Result	Units	RL
Naphthalene		0.0289	mg/L	0.0002
2-Methylnaphthalene		0.0237	mg/L	0.0002
1-Methylnaphthalene		0.0218	mg/L	0.0002
Acenaphthylene		<0.000200	mg/L	0.0002
Acenaphthene		<0.000200	mg/L	0.0002
Dibenzofuran		0.00208	mg/L	0.0002
Fluorene		0.000651	mg/L	0.0002
Anthracene		<0.000200	mg/L	0.0002
Phenanthrene		0.00115	mg/L	0.0002
Fluoranthene		<0.000200	mg/L	0.0002
Pyrene		<0.000200	mg/L	0.0002
Benzo(a)anthracene		<0.000200	mg/L	0.0002
Chrysene		<0.000200	mg/L	0.0002
Benzo(b)fluoranthene		<0.000200	mg/L	0.0002
Benzo(k)fluoranthene		<0.000200	mg/L	0.0002
Benzo(a)pyrene		<0.000200	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.0002
Benzo(g,h,i)perylene		<0.000200	mg/L	0.0002

Summary Report

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

Report Date: January 18, 2012

Work Order: 12010629



Project Location: Cayler, NM
Project Number: 700376.049.01
SRS #: 2002-10250

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
285887	MW-8A	water	2012-01-05	13:15	2012-01-06
285888	MW-11	water	2012-01-05	14:05	2012-01-06
285889	MW-12A	water	2012-01-05	13:47	2012-01-06
285890	MW-14	water	2012-01-05	13:35	2012-01-06
285891	MW-15	water	2012-01-05	13:25	2012-01-06
285892	MW-16	water	2012-01-05	13:05	2012-01-06
285893	MW-17	water	2012-01-05	13:00	2012-01-06
285894	MW-18	water	2012-01-05	13:49	2012-01-06

Sample - Field Code	BTEX				MTBE
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)
285887 - MW-8A	0.101	0.0639	0.00860	0.0251	
285888 - MW-11	<0.00100	<0.00100	<0.00100	<0.00100	
285889 - MW-12A	18.0	0.807	0.522	0.752	
285890 - MW-14	<0.00100	<0.00100	<0.00100	<0.00100	
285891 - MW-15	<0.00100	<0.00100	<0.00100	<0.00100	
285892 - MW-16	0.255	0.00490	0.00350	0.0221	
285893 - MW-17	<0.00100	<0.00100	<0.00100	<0.00100	
285894 - MW-18	<0.00100	<0.00100	<0.00100	<0.00100	

Sample: 285887 - MW-8A

Param	Flag	Result	Units	RL
Naphthalene		<0.000201	mg/L	0.0002
2-Methylnaphthalene		<0.000201	mg/L	0.0002
1-Methylnaphthalene		<0.000201	mg/L	0.0002
Acenaphthylene		<0.000201	mg/L	0.0002

continued ...

sample 285887 continued ...

Param	Flag	Result	Units	RL
Acenaphthene		<0.000201	mg/L	0.0002
Dibenzofuran		<0.000201	mg/L	0.0002
Fluorene		<0.000201	mg/L	0.0002
Anthracene		<0.000201	mg/L	0.0002
Phenanthrene		<0.000201	mg/L	0.0002
Fluoranthene		<0.000201	mg/L	0.0002
Pyrene		<0.000201	mg/L	0.0002
Benzo(a)anthracene		<0.000201	mg/L	0.0002
Chrysene		<0.000201	mg/L	0.0002
Benzo(b)fluoranthene		<0.000201	mg/L	0.0002
Benzo(k)fluoranthene		<0.000201	mg/L	0.0002
Benzo(a)pyrene		<0.000201	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.000201	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.000201	mg/L	0.0002
Benzo(g,h,i)perylene		<0.000201	mg/L	0.0002

Sample: 285889 - MW-12A

Param	Flag	Result	Units	RL
Naphthalene		0.0289	mg/L	0.0002
2-Methylnaphthalene		0.0237	mg/L	0.0002
1-Methylnaphthalene		0.0218	mg/L	0.0002
Acenaphthylene		<0.000200	mg/L	0.0002
Acenaphthene		<0.000200	mg/L	0.0002
Dibenzofuran		0.00208	mg/L	0.0002
Fluorene		0.000651	mg/L	0.0002
Anthracene		<0.000200	mg/L	0.0002
Phenanthrene		0.00115	mg/L	0.0002
Fluoranthene		<0.000200	mg/L	0.0002
Pyrene		<0.000200	mg/L	0.0002
Benzo(a)anthracene		<0.000200	mg/L	0.0002
Chrysene		<0.000200	mg/L	0.0002
Benzo(b)fluoranthene		<0.000200	mg/L	0.0002
Benzo(k)fluoranthene		<0.000200	mg/L	0.0002
Benzo(a)pyrene		<0.000200	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.000200	mg/L	0.0002
Benzo(g,h,i)perylene		<0.000200	mg/L	0.0002



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

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: January 18, 2012

Work Order: 12010629



Project Location: Cayler, NM
Project Number: 700376.049.01
SRS #: 2002-10250

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
285887	MW-8A	water	2012-01-05	13:15	2012-01-06
285888	MW-11	water	2012-01-05	14:05	2012-01-06
285889	MW-12A	water	2012-01-05	13:47	2012-01-06
285890	MW-14	water	2012-01-05	13:35	2012-01-06
285891	MW-15	water	2012-01-05	13:25	2012-01-06
285892	MW-16	water	2012-01-05	13:05	2012-01-06
285893	MW-17	water	2012-01-05	13:00	2012-01-06
285894	MW-18	water	2012-01-05	13:49	2012-01-06

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

Michael Abel

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

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Case Narrative

Samples for project were received by TraceAnalysis, Inc. on 2012-01-06 and assigned to work order 12010629. Samples for work order 12010629 were received intact without headspace and at a temperature of 4.0 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	74438	2012-01-09 at 08:03	87669	2012-01-09 at 08:03
BTEX	S 8021B	74457	2012-01-10 at 14:32	87692	2012-01-10 at 14:32
PAH	S 8270D	74608	2012-01-12 at 15:00	87855	2012-01-18 at 11:19

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 12010629 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: 285887 - MW-8A

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 87669

Prep Batch: 74438

Analytical Method: S 8021B

Date Analyzed: 2012-01-09

Sample Preparation: 2012-01-09

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.101	mg/L	1	0.00100
Toluene		1	0.0639	mg/L	1	0.00100
Ethylbenzene		1	0.00860	mg/L	1	0.00100
Xylene		1	0.0251	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0791	mg/L	1	0.100	79	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0900	mg/L	1	0.100	90	70 - 130

Sample: 285887 - MW-8A

Laboratory: Lubbock

Analysis: PAH

QC Batch: 87855

Prep Batch: 74608

Analytical Method: S 8270D

Date Analyzed: 2012-01-18

Sample Preparation: 2012-01-12

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene		1	<0.000201	mg/L	1.005	0.000200
2-Methylnaphthalene	u	1	<0.000201	mg/L	1.005	0.000200
1-Methylnaphthalene	u		<0.000201	mg/L	1.005	0.000200
Acenaphthylene	u	1	<0.000201	mg/L	1.005	0.000200
Acenaphthene	u	1	<0.000201	mg/L	1.005	0.000200
Dibenzofuran	u	1	<0.000201	mg/L	1.005	0.000200
Fluorene	u	1	<0.000201	mg/L	1.005	0.000200
Anthracene	u	1	<0.000201	mg/L	1.005	0.000200
Phenanthrene	u		<0.000201	mg/L	1.005	0.000200
Fluoranthene	u		<0.000201	mg/L	1.005	0.000200
Pyrene	u	1	<0.000201	mg/L	1.005	0.000200
Benzo(a)anthracene	u		<0.000201	mg/L	1.005	0.000200
Chrysene	u	1	<0.000201	mg/L	1.005	0.000200

continued ...

Report Date: January 18, 2012
700376.049.01

Work Order: 12010629

Page Number: 6 of 20
Cayler, NM

sample 285887 continued ...

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzo(b)fluoranthene	u		<0.000201	mg/L	1.005	0.000200
Benzo(k)fluoranthene	u	1	<0.000201	mg/L	1.005	0.000200
Benzo(a)pyrene	u	1	<0.000201	mg/L	1.005	0.000200
Indeno(1,2,3-cd)pyrene	u	1	<0.000201	mg/L	1.005	0.000200
Dibenzo(a,h)anthracene	u	1	<0.000201	mg/L	1.005	0.000200
Benzo(g,h,i)perylene	u		<0.000201	mg/L	1.005	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0344	mg/L	1.005	0.0800	43	10 - 117
2-Fluorobiphenyl			0.0341	mg/L	1.005	0.0800	43	10 - 99
Terphenyl-d14			0.0366	mg/L	1.005	0.0800	46	22.6 - 115

Sample: 285888 - MW-11

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 87669
Prep Batch: 74438

Analytical Method: S 8021B
Date Analyzed: 2012-01-09
Sample Preparation: 2012-01-09

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

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0877	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0951	mg/L	1	0.100	95	70 - 130

Sample: 285889 - MW-12A

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 87692
Prep Batch: 74457

Analytical Method: S 8021B
Date Analyzed: 2012-01-10
Sample Preparation: 2012-01-10

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

Report Date: January 18, 2012
700376.049.01

Work Order: 12010629

Page Number: 7 of 20
Cayler, NM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	18.0	mg/L	100	0.00100
Toluene		1	0.807	mg/L	100	0.00100
Ethylbenzene		1	0.522	mg/L	100	0.00100
Xylene		1	0.752	mg/L	100	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			7.08	mg/L	100	10.0	71	70 - 130
4-Bromofluorobenzene (4-BFB)			7.68	mg/L	100	10.0	77	70 - 130

Sample: 285889 - MW-12A

Laboratory: Lubbock
Analysis: PAH
QC Batch: 87855
Prep Batch: 74608

Analytical Method: S 8270D
Date Analyzed: 2012-01-18
Sample Preparation: 2012-01-12

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene		1	0.0289	mg/L	1	0.000200
2-Methylnaphthalene		1	0.0237	mg/L	1	0.000200
1-Methylnaphthalene			0.0218	mg/L	1	0.000200
Acenaphthylene	u	1	<0.000200	mg/L	1	0.000200
Acenaphthene	u	1	<0.000200	mg/L	1	0.000200
Dibenzofuran		1	0.00208	mg/L	1	0.000200
Fluorene		1	0.000651	mg/L	1	0.000200
Anthracene	u	1	<0.000200	mg/L	1	0.000200
Phenanthrene			0.00115	mg/L	1	0.000200
Fluoranthene	u		<0.000200	mg/L	1	0.000200
Pyrene	u	1	<0.000200	mg/L	1	0.000200
Benzo(a)anthracene	u		<0.000200	mg/L	1	0.000200
Chrysene	u	1	<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene	u		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene	u	1	<0.000200	mg/L	1	0.000200
Benzo(a)pyrene	u	1	<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene	u	1	<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene	u	1	<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene	u		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0283	mg/L	1	0.0800	35	10 - 117
2-Fluorobiphenyl			0.0342	mg/L	1	0.0800	43	10 - 99
Terphenyl-d14			0.0448	mg/L	1	0.0800	56	22.6 - 115

Report Date: January 18, 2012
700376.049.01

Work Order: 12010629

Page Number: 8 of 20
Cayler, NM

Sample: 285890 - MW-14

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 87692

Prep Batch: 74457

Analytical Method: S 8021B

Date Analyzed: 2012-01-10

Sample Preparation: 2012-01-10

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0862	mg/L	1	0.100	86	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0925	mg/L	1	0.100	92	70 - 130

Sample: 285891 - MW-15

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 87692

Prep Batch: 74457

Analytical Method: S 8021B

Date Analyzed: 2012-01-10

Sample Preparation: 2012-01-10

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0791	mg/L	1	0.100	79	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0864	mg/L	1	0.100	86	70 - 130

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Sample: 285892 - MW-16

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 87669

Prep Batch: 74438

Analytical Method: S 8021B

Date Analyzed: 2012-01-09

Sample Preparation: 2012-01-09

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.255	mg/L	1	0.00100
Toluene		1	0.00490	mg/L	1	0.00100
Ethylbenzene		1	0.00350	mg/L	1	0.00100
Xylene		1	0.0221	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0752	mg/L	1	0.100	75	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0890	mg/L	1	0.100	89	70 - 130

Sample: 285893 - MW-17

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 87669

Prep Batch: 74438

Analytical Method: S 8021B

Date Analyzed: 2012-01-09

Sample Preparation: 2012-01-09

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0846	mg/L	1	0.100	85	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0895	mg/L	1	0.100	90	70 - 130

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Sample: 285894 - MW-18

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 87669

Prep Batch: 74438

Analytical Method: S 8021B

Date Analyzed: 2012-01-09

Sample Preparation: 2012-01-09

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0851	mg/L	1	0.100	85	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0902	mg/L	1	0.100	90	70 - 130

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Method Blanks

Method Blank (1) QC Batch: 87669

QC Batch: 87669
Prep Batch: 74438

Date Analyzed: 2012-01-09
QC Preparation: 2012-01-09

Analyzed By: MT
Prepared By: MT

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000765	mg/L	0.001
Toluene		1	<0.000719	mg/L	0.001
Ethylbenzene		1	<0.000860	mg/L	0.001
Xylene		1	<0.000942	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0941	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.101	mg/L	1	0.100	101	70 - 130

Method Blank (1) QC Batch: 87692

QC Batch: 87692
Prep Batch: 74457

Date Analyzed: 2012-01-10
QC Preparation: 2012-01-10

Analyzed By: ZLM
Prepared By: ZLM

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000765	mg/L	0.001
Toluene		1	<0.000719	mg/L	0.001
Ethylbenzene		1	<0.000860	mg/L	0.001
Xylene		1	<0.000942	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0866	mg/L	1	0.100	87	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0935	mg/L	1	0.100	94	70 - 130

Method Blank (1) QC Batch: 87855

QC Batch: 87855
Prep Batch: 74608

Date Analyzed: 2012-01-18
QC Preparation: 2012-01-12

Analyzed By: MN
Prepared By: MN

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Parameter	Flag	Cert	MDL Result	Units	RL
Naphthalene		1	<0.0000904	mg/L	0.0002
2-Methylnaphthalene		1	<0.000184	mg/L	0.0002
1-Methylnaphthalene			<0.000120	mg/L	0.0002
Acenaphthylene		1	<0.000101	mg/L	0.0002
Acenaphthene		1	<0.000122	mg/L	0.0002
Dibenzofuran		1	<0.000119	mg/L	0.0002
Fluorene		1	<0.000198	mg/L	0.0002
Anthracene		1	<0.000190	mg/L	0.0002
Phenanthrene			<0.000190	mg/L	0.0002
Fluoranthene			<0.000122	mg/L	0.0002
Pyrene		1	<0.000142	mg/L	0.0002
Benzo(a)anthracene			<0.000138	mg/L	0.0002
Chrysene		1	<0.000155	mg/L	0.0002
Benzo(b)fluoranthene			<0.000179	mg/L	0.0002
Benzo(k)fluoranthene		1	<0.000185	mg/L	0.0002
Benzo(a)pyrene		1	<0.000169	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		1	<0.000139	mg/L	0.0002
Dibenzo(a,h)anthracene		1	<0.000107	mg/L	0.0002
Benzo(g,h,i)perylene			<0.000143	mg/L	0.0002

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0268	mg/L	1	0.0800	34	10 - 117
2-Fluorobiphenyl			0.0228	mg/L	1	0.0800	28	10 - 99
Terphenyl-d14			0.0345	mg/L	1	0.0800	43	22.6 - 115

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 87669
Prep Batch: 74438

Date Analyzed: 2012-01-09
QC Preparation: 2012-01-09

Analyzed By: MT
Prepared By: MT

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0897	mg/L	1	0.100	<0.000765	90	70 - 130
Toluene		1	0.0938	mg/L	1	0.100	<0.000719	94	70 - 130
Ethylbenzene		1	0.0890	mg/L	1	0.100	<0.000860	89	70 - 130
Xylene		1	0.260	mg/L	1	0.300	<0.000942	86	70 - 130

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0908	mg/L	1	0.100	<0.000765	91	70 - 130	1	20
Toluene		1	0.0947	mg/L	1	0.100	<0.000719	95	70 - 130	1	20
Ethylbenzene		1	0.0919	mg/L	1	0.100	<0.000860	92	70 - 130	3	20
Xylene		1	0.264	mg/L	1	0.300	<0.000942	88	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)	0.0882	0.0917	mg/L	1	0.100	88	92	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0915	0.0955	mg/L	1	0.100	92	96	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 87692
Prep Batch: 74457

Date Analyzed: 2012-01-10
QC Preparation: 2012-01-10

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0864	mg/L	1	0.100	<0.000765	86	70 - 130
Toluene		1	0.0907	mg/L	1	0.100	<0.000719	91	70 - 130
Ethylbenzene		1	0.0875	mg/L	1	0.100	<0.000860	88	70 - 130
Xylene		1	0.253	mg/L	1	0.300	<0.000942	84	70 - 130

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

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0877	mg/L	1	0.100	<0.000765	88	70 - 130	2	20
Toluene		1	0.0916	mg/L	1	0.100	<0.000719	92	70 - 130	1	20
Ethylbenzene		1	0.0876	mg/L	1	0.100	<0.000860	88	70 - 130	0	20
Xylene		1	0.254	mg/L	1	0.300	<0.000942	85	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	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0823	0.0758	mg/L	1	0.100	82	76	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0842	0.0784	mg/L	1	0.100	84	78	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 87855
Prep Batch: 74608

Date Analyzed: 2012-01-18
QC Preparation: 2012-01-12

Analyzed By: MN
Prepared By: MN

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene		1	0.0313	mg/L	1	0.0800	<0.0000904	39	10 - 89.9
2-Methylnaphthalene		1	0.0359	mg/L	1	0.0800	<0.000184	45	13.8 - 98.4
1-Methylnaphthalene			0.0341	mg/L	1	0.0800	<0.000120	43	13.1 - 103
Acenaphthylene		1	0.0392	mg/L	1	0.0800	<0.000101	49	20 - 104
Acenaphthene		1	0.0376	mg/L	1	0.0800	<0.000122	47	21.6 - 94.6
Dibenzofuran		1	0.0365	mg/L	1	0.0800	<0.000119	46	22.9 - 74.9
Fluorene		1	0.0414	mg/L	1	0.0800	<0.000198	52	30.8 - 109
Anthracene		1	0.0443	mg/L	1	0.0800	<0.000190	55	37.6 - 96.4
Phenanthrene			0.0439	mg/L	1	0.0800	<0.000190	55	42.4 - 99.8
Fluoranthene			0.0461	mg/L	1	0.0800	<0.000122	58	48 - 118
Pyrene		1	0.0465	mg/L	1	0.0800	<0.000142	58	45.3 - 109
Benzo(a)anthracene			0.0535	mg/L	1	0.0800	<0.000138	67	48 - 113
Chrysene		1	0.0560	mg/L	1	0.0800	<0.000155	70	35.2 - 175
Benzo(b)fluoranthene			0.0303	mg/L	1	0.0800	<0.000179	38	16.6 - 106
Benzo(k)fluoranthene		1	0.0431	mg/L	1	0.0800	<0.000185	54	36.8 - 99.4
Benzo(a)pyrene		1	0.0424	mg/L	1	0.0800	<0.000169	53	32.3 - 99.7
Indeno(1,2,3-cd)pyrene		1	0.0424	mg/L	1	0.0800	<0.000139	53	34.1 - 106
Dibenzo(a,h)anthracene		1	0.0432	mg/L	1	0.0800	<0.000107	54	47.1 - 103
Benzo(g,h,i)perylene			0.0436	mg/L	1	0.0800	<0.000143	54	21.9 - 112

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene		1	0.0326	mg/L	1	0.0800	<0.0000904	41	10 - 89.9	4	20

continued ...

control spikes continued ...

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
2-Methylnaphthalene		1	0.0372	mg/L	1	0.0800	<0.000184	46	13.8 - 98.4	4	20
1-Methylnaphthalene			0.0350	mg/L	1	0.0800	<0.000120	44	13.1 - 103	3	20
Acenaphthylene		1	0.0404	mg/L	1	0.0800	<0.000101	50	20 - 104	3	20
Acenaphthene		1	0.0389	mg/L	1	0.0800	<0.000122	49	21.6 - 94.6	3	20
Dibenzofuran		1	0.0381	mg/L	1	0.0800	<0.000119	48	22.9 - 74.9	4	20
Fluorene		1	0.0438	mg/L	1	0.0800	<0.000198	55	30.8 - 109	6	20
Anthracene		1	0.0459	mg/L	1	0.0800	<0.000190	57	37.6 - 96.4	4	20
Phenanthrene			0.0454	mg/L	1	0.0800	<0.000190	57	42.4 - 99.8	3	20
Fluoranthene			0.0485	mg/L	1	0.0800	<0.000122	61	48 - 118	5	20
Pyrene		1	0.0480	mg/L	1	0.0800	<0.000142	60	45.3 - 109	3	20
Benzo(a)anthracene			0.0563	mg/L	1	0.0800	<0.000138	70	48 - 113	5	20
Chrysene		1	0.0576	mg/L	1	0.0800	<0.000155	72	35.2 - 175	3	20
Benzo(b)fluoranthene			0.0354	mg/L	1	0.0800	<0.000179	44	16.6 - 106	16	20
Benzo(k)fluoranthene		1	0.0443	mg/L	1	0.0800	<0.000185	55	36.8 - 99.4	3	20
Benzo(a)pyrene		1	0.0438	mg/L	1	0.0800	<0.000169	55	32.3 - 99.7	3	20
Indeno(1,2,3-cd)pyrene		1	0.0442	mg/L	1	0.0800	<0.000139	55	34.1 - 106	4	20
Dibenzo(a,h)anthracene		1	0.0452	mg/L	1	0.0800	<0.000107	56	47.1 - 103	4	20
Benzo(g,h,i)perylene			0.0455	mg/L	1	0.0800	<0.000143	57	21.9 - 112	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
Nitrobenzene-d5	0.0308	0.0318	mg/L	1	0.0800	38	40	10 - 117
2-Fluorobiphenyl	0.0297	0.0310	mg/L	1	0.0800	37	39	10 - 99
Terphenyl-d14	0.0457	0.0474	mg/L	1	0.0800	57	59	22.6 - 115

Matrix Spike (MS-1) Spiked Sample: 285779

QC Batch: 87669
Prep Batch: 74438

Date Analyzed: 2012-01-09
QC Preparation: 2012-01-09

Analyzed By: MT
Prepared By: MT

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.34	mg/L	10	1.00	0.451	89	70 - 130
Toluene		1	1.49	mg/L	10	1.00	0.56	93	70 - 130
Ethylbenzene		1	0.942	mg/L	10	1.00	0.0474	89	70 - 130
Xylene		1	2.91	mg/L	10	3.00	0.334	86	70 - 130

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

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matrix spikes continued ...

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.29	mg/L	10	1.00	0.451	84	70 - 130	4	20
Toluene		1	1.45	mg/L	10	1.00	0.56	89	70 - 130	3	20
Ethylbenzene		1	0.915	mg/L	10	1.00	0.0474	87	70 - 130	3	20
Xylene		1	2.83	mg/L	10	3.00	0.334	83	70 - 130	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)	0.827	0.727	mg/L	10	1	83	73	70 - 130
4-Bromofluorobenzene (4-BFB)	0.838	0.729	mg/L	10	1	84	73	70 - 130

Matrix Spike (MS-1) Spiked Sample: 285889

QC Batch: 87692
Prep Batch: 74457

Date Analyzed: 2012-01-10
QC Preparation: 2012-01-10

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	26.2	mg/L	100	10.0	18	82	70 - 130
Toluene		1	9.40	mg/L	100	10.0	0.807	86	70 - 130
Ethylbenzene		1	9.03	mg/L	100	10.0	0.522	85	70 - 130
Xylene		1	25.2	mg/L	100	30.0	0.752	81	70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	25.9	mg/L	100	10.0	18	79	70 - 130	1	20
Toluene		1	9.61	mg/L	100	10.0	0.807	88	70 - 130	2	20
Ethylbenzene		1	9.15	mg/L	100	10.0	0.522	86	70 - 130	1	20
Xylene		1	25.7	mg/L	100	30.0	0.752	83	70 - 130	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)	8.28	8.33	mg/L	100	10	83	83	70 - 130
4-Bromofluorobenzene (4-BFB)	8.63	8.67	mg/L	100	10	86	87	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 87669

Date Analyzed: 2012-01-09

Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0939	94	80 - 120	2012-01-09
Toluene		1	mg/L	0.100	0.0975	98	80 - 120	2012-01-09
Ethylbenzene		1	mg/L	0.100	0.0938	94	80 - 120	2012-01-09
Xylene		1	mg/L	0.300	0.271	90	80 - 120	2012-01-09

Standard (CCV-2)

QC Batch: 87669

Date Analyzed: 2012-01-09

Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0920	92	80 - 120	2012-01-09
Toluene		1	mg/L	0.100	0.0954	95	80 - 120	2012-01-09
Ethylbenzene		1	mg/L	0.100	0.0923	92	80 - 120	2012-01-09
Xylene		1	mg/L	0.300	0.266	88	80 - 120	2012-01-09

Standard (CCV-3)

QC Batch: 87669

Date Analyzed: 2012-01-09

Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0896	90	80 - 120	2012-01-09
Toluene		1	mg/L	0.100	0.0940	94	80 - 120	2012-01-09
Ethylbenzene		1	mg/L	0.100	0.0905	90	80 - 120	2012-01-09
Xylene		1	mg/L	0.300	0.261	87	80 - 120	2012-01-09

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Standard (CCV-1)

QC Batch: 87692

Date Analyzed: 2012-01-10

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0885	88	80 - 120	2012-01-10
Toluene		1	mg/L	0.100	0.0925	92	80 - 120	2012-01-10
Ethylbenzene		1	mg/L	0.100	0.0887	89	80 - 120	2012-01-10
Xylene		1	mg/L	0.300	0.254	85	80 - 120	2012-01-10

Standard (CCV-2)

QC Batch: 87692

Date Analyzed: 2012-01-10

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0876	88	80 - 120	2012-01-10
Toluene		1	mg/L	0.100	0.0921	92	80 - 120	2012-01-10
Ethylbenzene		1	mg/L	0.100	0.0897	90	80 - 120	2012-01-10
Xylene		1	mg/L	0.300	0.257	86	80 - 120	2012-01-10

Standard (CCV-1)

QC Batch: 87855

Date Analyzed: 2012-01-18

Analyzed By: MN

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		1	mg/L	60.0	55.2	92	80 - 120	2012-01-18
2-Methylnaphthalene		1	mg/L	60.0	56.8	95	80 - 120	2012-01-18
1-Methylnaphthalene			mg/L	60.0	57.1	95	80 - 120	2012-01-18
Acenaphthylene		1	mg/L	60.0	54.7	91	80 - 120	2012-01-18
Acenaphthene		1	mg/L	60.0	55.9	93	80 - 120	2012-01-18
Dibenzofuran		1	mg/L	60.0	54.6	91	80 - 120	2012-01-18
Fluorene		1	mg/L	60.0	52.8	88	80 - 120	2012-01-18
Anthracene		1	mg/L	60.0	52.8	88	80 - 120	2012-01-18
Phenanthrene			mg/L	60.0	54.1	90	80 - 120	2012-01-18
Fluoranthene			mg/L	60.0	58.0	97	80 - 120	2012-01-18
Pyrene		1	mg/L	60.0	52.6	88	80 - 120	2012-01-18
Benzo(a)anthracene			mg/L	60.0	55.9	93	80 - 120	2012-01-18

continued ...

standard continued ...

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chrysene		1	mg/L	60.0	58.7	98	80 - 120	2012-01-18
Benzo(b)fluoranthene			mg/L	60.0	48.2	80	80 - 120	2012-01-18
Benzo(k)fluoranthene		1	mg/L	60.0	55.0	92	80 - 120	2012-01-18
Benzo(a)pyrene		1	mg/L	60.0	53.6	89	80 - 120	2012-01-18
Indeno(1,2,3-cd)pyrene		1	mg/L	60.0	53.3	89	80 - 120	2012-01-18
Dibenzo(a,h)anthracene		1	mg/L	60.0	53.7	90	80 - 120	2012-01-18
Benzo(g,h,i)perylene			mg/L	60.0	53.2	89	80 - 120	2012-01-18

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			54.0	mg/L	1	60.0	90	-
2-Fluorobiphenyl			55.8	mg/L	1	60.0	93	-
Terphenyl-d14			53.5	mg/L	1	60.0	89	-

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-11-5	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

ANALYSE DE DONNÉES

ANALYSIS REQUEST
(Circle or Specify Method No.)

Method No.)

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REMARKS:



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☐ TRRP Report Required

Limits Are Needed

Mary Ann

ORIGINAL COPY

APPENDIX D

NMOCD C-141



ENVIRONMENTAL PLUS, INC.

Micro-Blaze

Micro-Blaze Out™

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

October 2, 2002

Mr. Paul Sheeley, Environmental Engineer
State of New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division, Environmental Bureau
1625 North French
Hobbs, New Mexico 88240

Subject: EOTT Energy Pipeline 8" Sweet Vacuum (C.S. Cayler) 9-19-02- #2002-10249
UL-B NW¼ of the NE¼ of Section 6 T17S R37E
Latitude: 32° 52' 2.45"N Longitude: 103° 17' 17.73"W

Dear Mr. Sheeley,

The attached New Mexico Oil Conservation Division Form C-141 and supporting documentation is being submitted by Environmental Plus, Inc. (EPI) on behalf of Mr. Frank Hernandez, District Environmental Supervisor for EOTT Energy Pipeline for the above referenced crude oil leak site. The land owner of record according to the Lea County Assessor's Office is Mr. Robert C. Rice. Volume released was estimated to be 70 bbls with 0 bbls recovered. The New Mexico Office of the State Engineer records one water well approximately 2,500 southwest of the site with a water level of 40 below ground surface ('bgs). The New Mexico Office of the State Engineer water well information report is attached. The attached site information and metrics form summarizes and ranks the site according to the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks and Spills, 1993. Based on the depth to ground water, the following acceptable remedial thresholds for Benzene, BTEX, i.e., the mass sum of Benzene, Toluene, Ethyl Benzene, and Xylenes, and Total Petroleum Hydrocarbon EPA method 8015m (TPH^{8015m}) are as follows;

- Soil from surface to 40.0'bgs
Benzene 10 mg/Kg
BTEX 50 mg/Kg
TPH^{8015m} 100 mg/Kg

EOTT is currently delineating the vertical and horizontal extents of crude oil contamination at the site. Based on the delineation information, a viable remediation plan will be developed consistent with the NMOCD approved "General Work Plan for Remediation of E.O.T.T. Pipeline Spills, Leaks and Releases in New Mexico, July 2000" and submitted to the NMOCD for approval. The near surface soil will be disposed of in an NMOCD approved facility.

ENVIRONMENTAL PLUS, INC.



ENVIRONMENTAL PLUS, INC.

Micro-Blaze

Micro-Blaze Out™

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

All official communication should be addressed to;

Mr. Frank Hernandez
E.O.T.T. Energy Pipeline
P.O. Box 1660
Midland, Texas 79703
e-mail: frank.hernandez@eott.com

If there are any questions please call Mr. Ben Miller or myself at the office or at 505.390.0288 and 505.390.7864, respectively, or Mr. Frank Hernandez at 915.638.3799.

Sincerely,

Pat McCasland
EPI Technical Services Manager

cc: Frank Hernandez, ENRON Transportation Services w/enclosure
William Kendrick, ENRON Transportation Services w/enclosure
Ben Miller, EPI Vice President and General Manager
Sherry Miller, EPI President
file

ENVIRONMENTAL PLUS, INC.

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 March 17, 1999

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

Release Notification and Corrective Action

OPERATOR "INFORMATION ONLY NON-REPORTABLE" ☒ Initial Report ☐ Final Report

Name of Company EOTT Energy Pipeline	Contact Frank Hernandez
Address 5805 East Highway 80 / P.O. Box 1660, Midland, TX 79703	Telephone No. 915.638.3799
Facility Name: Moore to Kimbrough 8" Sweet Vacuum (C.S. Cayler) 9-19-02 #2002-10250	Facility Type Crude Oil Pipeline

Surface Owner Robert C. Rice	Mineral Owner	Lease No.
---------------------------------	---------------	-----------

LOCATION OF RELEASE

Unit Letter B	Section 6	Township 17S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea Lat.: 32°52'2.45"N Lon: 103°17'17.73"W
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NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 70 bbls	Volume Recovered 0 bbls
Source of Release 8" steel pipeline	Date and Hour of Occurrence 9-19-02 8:00 AM	Date and Hour of Discovery 9-19-02 12:00 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Paul Sheeley, Hobbs NMOCD	
By Whom? Pat McCasland (Environmental Plus, Inc.)	Date and Hour: NMOCD notified on 9-19-02 3:15 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

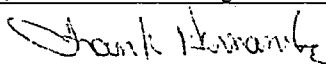
Describe Cause of Problem and Remedial Action Taken.*

The cause of the leak was internal/external corrosion. The contaminated soil was stockpiled on a plastic barrier on site awaiting remediation.

Describe Area Affected and Cleanup Action Taken.*

Spill Area = ~2,199 ft² Near surface soil will be characterized in accordance with 40 CFR 261 and with NMOCD approval, disposed of in a NMOCD approved facility. The site will be delineated and remediated.

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 2, 2002 Phone: 915.638.3799	Conditions of Approval:	Attached ☐

* Attach Additional Sheets If Necessary

EOTT Energy Pipeline		Incident Date and NMOCD Notified?:	
Site Information and Metrics		Discovered 9-19-02 NMOCD verbally notified on 9-19-02	
SITE: 8" Sweet Vacuum (C.S. Cayler) 9-19-02		Assigned Site Reference #: #2002-10250	
Company: EOTT Energy Pipeline			
Street Address: 5805 East Highway 80			
Mailing Address: P.O. Box 1660			
City, State, Zip: Midland, Texas 79703			
Representative: Frank Hernandez, District Environmental Supervisor			
Representative Telephone: 915.638.3799			
Telephone:			
Fluid volume released (bbls): 70 bbls		Recovered (bbls): 0	
>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" Sweet Vacuum (C.S. Cayler) 9-19-02 #2002-10250			
Source of contamination: Crude Oil Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: Robert C. Rice			
LSP Dimensions 85' X 45'			
LSP Area: Spill Area 2,199 ft²			
Location of Reference Point (RP)			
Location distance and direction from RP			
Latitude: 32°52'2.45"N			
Longitude: 103°17'17.73"W			
Elevation above mean sea level: ~3,805 'amsl			
Feet from South Section Line			
Feet from West Section Line			
Location- Unit or ¼: UL-B NW ¼ of the NE ¼			
Location- Section: 6			
Location- Township: 17S			
Location- Range: 37E			
Surface water body within 1000 ' radius of site: None			
Domestic water wells within 1000' radius of site: None			
Agricultural water wells within 1000' radius of site: None			
Public water supply wells within 1000' radius of site: None			
Depth from land surface to ground water (DG) ~40.0' below ground surface			
Depth of contamination (DC) - ?			
Depth to ground water (DG - DC = DtGW) - to be determined			
1. Ground Water		2. Wellhead Protection Area	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or; <200' from private domestic water source: 20 points	
If Depth to GW 50 to 99 feet: 10 points		If >1000' from water source, or; >200' from private domestic water source: 0 points	
If Depth to GW >100 feet: 0 points		Wellhead Protection Area Score= 0	
Ground water Score = 20		Surface Water Score= 0	
Site Rank (1+2+3) = 20			
Total Site Ranking Score and Acceptable Concentrations			
Parameter	>19 (Surface to 40.0' bgs)	10-19	0-9
Benzene¹	10 ppm	10 ppm	10 ppm
BTEX¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm
¹100 ppm field VOC headspace measurement may be substituted for lab analysis			

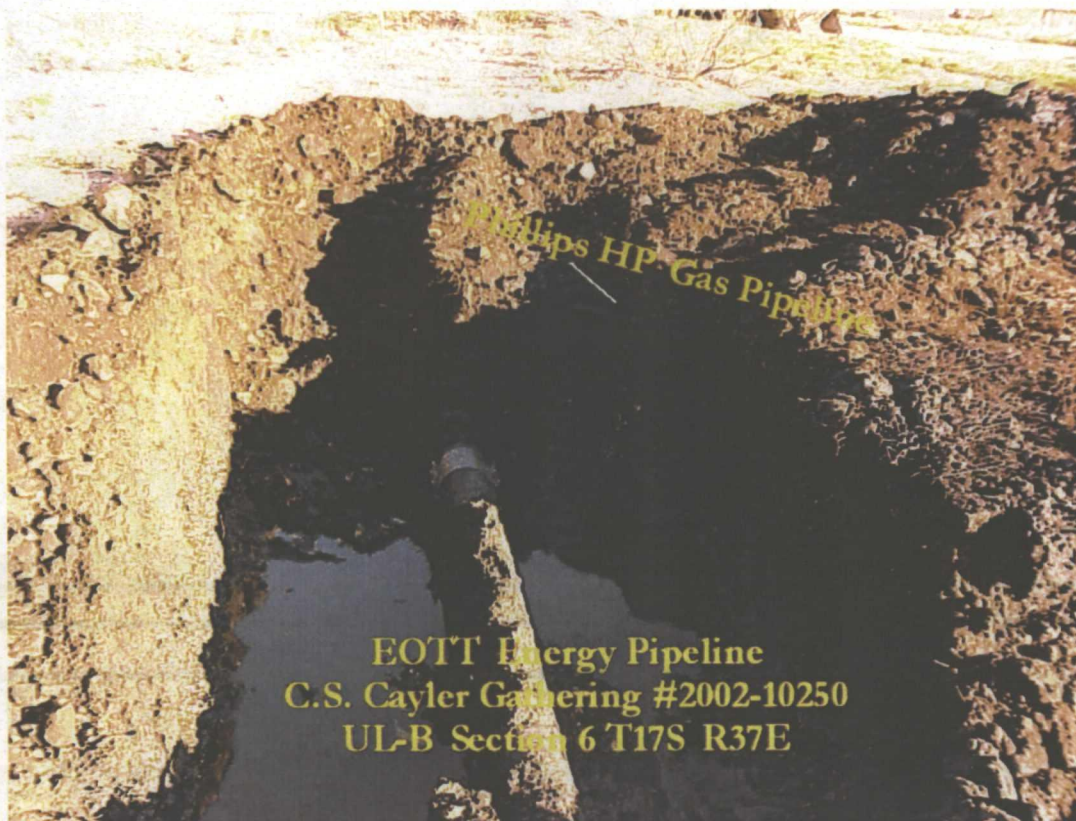
New Mexico Office of the State Engineer
Well Reports and Downloads

Township: Range: Sections: NAD27 X: Y: Zone: Search Radius: County: Basin: Number: Suffix: Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic
☒ All

AVERAGE DEPTH OF WATER REPORT 10/10/2002

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
L	17S	37E	06				2	40	40	40

Record Count: 2







EOTT ENERGY
PIPELINE
C.S. CAYLER
GATHERING
#2002-10250
UL-B SEC 6
T17S R37E
AFFECTED AREA
~2199 SQFT
ESTIMATED
GROUND WATER
DEPTH
~40' BGS

N



SCALE 1:4,000



FEET

UNIVERSAL TRANSVERSE MERCATOR
13 NORTH
NAD 1983 HPGN (NEW MEXICO)

R091921A.SSF

9/20/2002



