

AP - 37

ANNUAL MONITORING REPORT

YEAR(S):
2011



2011 ANNUAL GROUNDWATER MONITORING REPORT

LOVINGTON DEEP 6"

LEA COUNTY, NEW MEXICO

SRS #2002 - 10312

NMOCD REF. # AP-37

AMARILLO

921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

AUSTIN

911 W. Anderson Lane
Suite 202
Austin, Texas 78757
Phone 512.989.3428
Fax 512.989.3487

MIDLAND

2901 State Highway 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

SAN ANTONIO

11 Commercial Place
Schertz, Texas 78154
Phone 210.265.8025
Fax 210.568.2191

OKLAHOMA CITY

7700 North Hudson
Suite 10
Oklahoma City, Oklahoma
73116
Phone 405.486.7032

HOBBS

318 East Taylor Street
Hobbs, New Mexico 88241
Phone 505.393.4261
Fax 505.393.4658

ARTESIA

408 W. Texas Ave.
Artesia, New Mexico 88210
Phone 575.746.8768
Fax 505.746.8905

ENVIRONMENTAL CONSULTING
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Prepared for:

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

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

Prepared by:

TALON/LPE
2901 S. State Highway 349
Midland, Texas 79706

DISTRIBUTION:

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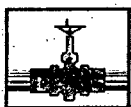
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Toll Free: 866.742.0742
www.talonlpe.com

March, 2012



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ALL AMERICAN

March 29, 2012

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

APR - 5 2012

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

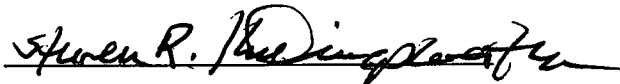
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2011 ANNUAL GROUNDWATER MONITORING REPORT

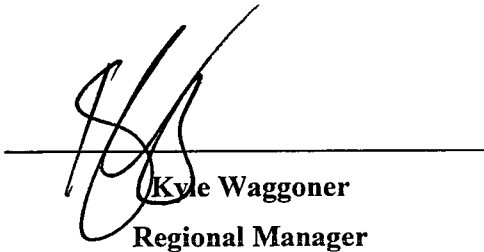
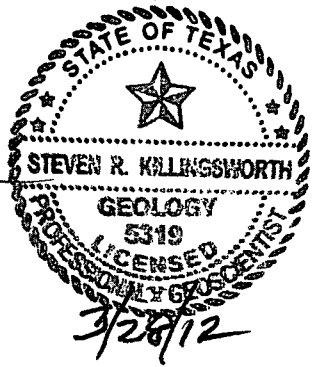
**LOVINGTON DEEP 6"
LEA COUNTY, NEW MEXICO
SRS #2002 - 10312
NMOCD REF. # AP-037**

TALON/LPE PROJECT NO. 700376.051.01

Prepared by:



Steven R. Killingsworth, P.G.
Senior Project Manager



Kyle Waggoner
Regional Manager

**TALON/LPE
2901 S. State Highway 349
Midland, Texas 79706**

March 2012

Distribution List

Name	Title	Company or Agency	Mailing Address	e-mail
Ed Hansen	Environmental Engineer	NMOCD	1220 South St. Francis Drive Santa Fe, NM 87505	edwardjhansen@state.nm.us
Geoffrey Leking	Environmental Engineer	NMOCD	1625 French Dr. Hobbs, NM 88231	GeoffreyR.Leking@state.nm.us
Brian Henington	Environmental Engineer	NMSLO – Santa Fe	P.O. Box 1148 Santa Fe, NM 87504	bhenington@slo.state.nm.us
Jason Henry	Remediation Coordinator	Plains Pipeline	2530 Highway 214 Denver City, TX 79323	jhenry@paalp.com
Jeff Dann	Senior Environmental Specialist	Plains Pipeline	P. O. Box 4648 Houston, TX 77210-4648	jpdann@paalp.com
File		Talon/LPE	318 East Taylor Street Hobbs, New Mexico 88240	skillingsworth@talonlpe.com

NMOCD - New Mexico Oil Conservation Division

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1.0 INTRODUCTION AND OBJECTIVES

1.1 Site Background

The Lovington Deep 6" site is located approximately 5.8 miles southwest of Lovington in Lea County, New Mexico. A release of crude oil from the Deep 6" pipeline occurred on property which is primarily utilized as pasture/range with intermittent oil production facilities land and is owned by Chevron. The site is located within the West Lovington oil field and has no residence or surface water located within a 1,000-foot radius of the release point. The remediation area is surrounded by a barbed wire fence and is gated.

The site is situated within a physiographic region 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 playa lakes 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 3,915-feet above mean sea level with a slight slope to the southeast. The regional slope of the land surface in the Southern High Plains is approximately 100 feet per mile in a southeasterly direction.

In December 2002, a release of approximately 25 barrels (bbls) of crude oil occurred at the site due to corrosion of the Deep 6" pipeline. Ten (10) bbls of oil were recovered during initial response activities. Approximately 6,000 square feet of surface area was impacted by the release. During the initial remediation phase, soil that was impacted by the release was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm for treatment.

Soil remediation activities were initiated by Environmental Plus, Inc. (EPI) in 2003 and the soil phase of site remediation was closed in October 2005.

On February 5, 2007, Talon/LPE (Talon) was retained by Plains Marketing, L.P. (Plains) to assume groundwater remediation activities at the Lovington Deep 6" release site. Groundwater remediation activities at the site were previously conducted by Environmental Plus, Inc. (EPI).

1.2 Site Geology

The surficial 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 is composed of gravelly loam that contains abundant eroded gravel to cobble size caliche fragments. Below the top soil is predominately

unconsolidated sand to weakly cemented sandstone which has undergone calichification of varying extent.

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

1.3 Previous Environmental Investigations

During initial assessment activities to delineate the extent of impacted soil at the site, six soil borings were advanced from December 27, 2002 through January 2, 2004. During the assessment, soil boring BH-1 encountered groundwater that was impacted by phase separated hydrocarbons (PSH). Subsequently, soil boring BH-1 was completed as groundwater monitor well, MW-2. Soil borings BH-2, BH-4, BH-5, and BH-6 were advanced in order to delineate the extent of impacted groundwater and those soil borings were completed as groundwater monitor wells MW-1, MW-3, MW-4, and MW-5.

During November and December of 2004, six (6) additional groundwater monitor wells (MW-6 through MW-11) were installed to further delineate the lateral extent of groundwater impact at the site. Finally, in July 2006, six (6) additional groundwater monitor wells (MW-12 through MW-17) were installed to complete assessment of the areal extent of impacted groundwater.

Subsequent groundwater monitoring events indicated that benzene concentrations in the down-gradient sentinel monitor well, MW-12, consistently exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard. Therefore; monitor well MW-18 was installed further down-gradient in June of 2010.

PSH recovery operations have been performed at the site since March 2003, initially from hand bailing followed by a recovery system that utilizes skimmers with bladder pumps for PSH recovery. In April of 2010, a pneumatic total fluid pump was installed in monitor well MW-2. Since the total fluid pump increased groundwater production combined with an insignificant increase in PSH production, the total fluids pump was removed from MW-2 in September of 2010 and replaced with a skimmer and bladder pump. In order to help reduce down-gradient dissolved-phase concentrations, bubblers were installed in monitor wells MW-10 and MW-12 in January of 2011.

Currently, there are six (6) skimmers with bladder pumps operating in monitor wells MW-2, MW-13, MW-14, MW-15, MW-16, and MW-17. Approximately five (5) bbls of crude oil was recovered during 2011 and approximately 65 bbls of crude oil has been recovered to date by the remediation system.

1.4 Regulatory Framework

Groundwater analytical data collected from the Deep 6" site is evaluated to the New Mexico

Water Quality Control Commission (NMWQCC) groundwater standards outlined 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

The subsequent sections of this report provide summaries of the groundwater monitoring activities that were conducted at the subject site during the year 2011 as well as analytical results from each groundwater sampling event. Cumulative analytical results for including the four (4) 2011 sampling events are summarized in Table 2, in Appendix B, and Figures 1, 2a through 2d, and 3a through 3d in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C. In addition, cumulative historical gauging and analytical results are on the attached CD that is an adjunct to this report.

2.0 SITE ACTIVITIES

The sections that follow summarize groundwater monitoring and PSH recovery activities conducted at the subject site during 2011. The primary function of groundwater monitoring is to measure the depths to fluids 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 groundwater remediation system as to inhibiting plume migration, reducing the volume of PSH impacting the groundwater and determining if modifications to the remediation system would improve its performance and efficiency.

2.1 Groundwater Gauging, Purging, and Sample Collection Procedures

A total of four (4) groundwater monitoring events were conducted by Talon during the year 2011 on March 09, June 21, September 27, and January 3-5, 2012. The fourth quarter sampling event occurred in January of 2012 due to schedule delays in December caused by inclement weather.

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

Subsequent to gauging, all monitor wells were purged using a down-hole pump equipped with vinyl tubing. The pump and tubing were decontaminated with Alconox® detergent and rinsed with distilled water after each use. Recovered purge water and water used in the decontamination process was contained in on-site 55-gallon drums. After the groundwater monitoring event, all retained water was removed with a vacuum truck. Approximately 600 gallons of purged groundwater and decontamination water was generated during the monitoring events of 2011.

Groundwater samples were collected from all monitor wells using dedicated disposable polyethylene bailers. Each groundwater sample was contained in laboratory supplied sample containers with the appropriate preservative required for the analysis requested. The groundwater samples were maintained on ice, in the custody of Talon personnel, until they were delivered to TraceAnalysis, Inc. in Midland or Lubbock, Texas for analyses.

The groundwater samples collected during all four events were quantified for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method SW-846 8021B and groundwater samples collected from monitor wells MW-4, MW-6, MW-7, MW-10, MW-12, and MW-18 during the fourth event were analyzed for poly-nuclear aromatic hydrocarbons (PAH) by EPA Method 8270C..

2.2 Phase Separated Hydrocarbon Recovery

PSH recovery has been conducted at the site since 2003, initially by hand bailing. In 2007, an automated skimmer / bladder pump recovery system was installed at the site. Currently, the system utilizes six (6) skimmer with bladder pumps in monitor wells MW-2, and MW-13 through MW-17 for recovery of PSH and to inhibit migration of the PSH plume. The skimmer assembly consists of bladder pumps combined with 24-inch traveling float specific gravity skimmers attachments. The skimmer system is powered by a single-phase 230 volt, 7.5 HP two stage reciprocating air compressor. Fluid, recovered by the pumps, is retained in a 1,500-gallon poly tank. The poly tank is equipped with a high level shut off switch to prevent overflow and it is located within a secondary containment compound that is outfitted with a poly-liner. Periodically, recovered groundwater is removed from the poly tank and transported to an NMOCD approved disposal facility. PSH is also 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 recovery totals are as followed:

- 1st Quarter – 1.08 bbls PSH, 44.13 bbls water
- 2nd Quarter – 2.98 bbls PSH, 44.22 bbls water
- 3rd Quarter – 0.0 bbls PSH, 0.0 bbls water
- 4th Quarter – 0.80 bbls PSH, 20.76 bbls water

Approximately 65 bbls of PSH have been recovered to date from the site.

3.0 GROUNDWATER MONITORING RESULTS

The results of the laboratory analyses are summarized in Table 2 – Summary of Groundwater Analytical Data in Appendix B. Laboratory analytical data reports and 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 present the results from the monitoring of the first water-bearing zone underlying the site.

3.1.1 Physical Characteristics of the First Water-Bearing Zone

The primary groundwater resource under the Southern High Plains, including the site, is referred to as the Ogallala Aquifer or High Plains Aquifer. The Southern portion of the Ogallala aquifer underlies an area of about 29,000 square miles (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 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 60 to 65 feet below ground surface (bgs) and the groundwater flow direction is to the east southeast at an average of 0.0033 foot per foot or 17 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 during the year 2011. 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 approximate gradient of 0.0033 feet/foot or approximately 17 feet per mile. Groundwater levels at the subject site have remained relatively stable for the year 2011 demonstrating only slight declines and increases.

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.

In addition to potentiometric surface maps, isopleth maps were prepared depicting the measured PSH thicknesses and PSH plume geometry. PSH plume delineation and thickness isopleths maps are presented in Appendix A as Figures 3a through 3d. Currently, the PSH plume is delineated by the current monitor well geometry.

- In March 2011, PSH was observed in six (6) monitor wells MW-2 and MW-13 through MW-17. PSH thickness ranged from 0.40 feet to 4.19 feet.
- In June 2011, PSH was observed in six (6) monitor wells MW-2 and MW-13 through MW-17. PSH thickness ranged from 0.18 feet to 2.55 feet.
- In September 2011, PSH was observed in six (6) monitor wells MW-2 and MW-13 through MW-17. PSH thickness ranged from 0.29 feet to 4.73 feet.
- In January 2012, PSH was observed in six (6) monitor wells MW-2 and MW-13 through MW-17. PSH thickness ranged from 0.10 feet to 4.34 feet.

3.1.4 Groundwater Sampling Results

During the first quarter March, 2011, sampling event, groundwater samples were collected from 12 monitor wells MW-1, MW-3 through MW-12 and MW-18. Samples were not collected from monitor wells MW-2 and MW-13 through MW-17, 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 10.4 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-3, MW-4, MW-10, MW-12 and MW-18.
- Toluene concentrations ranged from <0.00100 mg/L to 0.964 mg/L. The toluene concentration exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-3.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 1.43 mg/L. The

ethylbenzene concentration exceeded the NMWQCC groundwater standard of 0.750 mg/L in groundwater samples collected from monitor wells MW-3 and MW-10.

- Xylene concentrations ranged from <0.00100 mg/L to 4.36 mg/L. The xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in groundwater samples collected from monitor well MW-3 and MW-10.

During the second quarter June 2011, sampling event, groundwater samples were collected from 12 monitor wells MW-1, MW-3 through MW-12 and MW-18. Samples were not collected from monitor wells MW-2 and MW-13 through MW-17 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 25.1 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-3, MW-6, MW-7, MW-10, MW-11, MW-12, and MW-18.
- Toluene concentrations ranged from <0.00100 mg/L to 0.672 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any sampled monitor well.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 1.63 mg/L. Ethylbenzene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in groundwater samples collected from monitor well MW-10.
- Xylene concentrations ranged from <0.00100 mg/L to 3.39 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in groundwater samples collected from monitor wells MW-3 and MW-10.

During the third quarter, September 2011 sampling event, groundwater samples were collected from 12 monitor wells, MW-1, MW-3 through MW-12 and MW-18. Samples were not collected from monitor wells MW-2 and MW-13 through MW-17 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 15.1 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-3, MW-9, MW-10, MW-12 and MW-18.
- Toluene concentrations ranged from <0.00100 mg/L to 0.468 mg/L. The toluene concentration exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-3.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.314 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the groundwater samples collected.
- Xylene concentrations ranged from <0.00100 mg/L to 0.451 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the groundwater samples collected.

During the fourth quarter, January 2012, sampling event, groundwater samples were collected from 12 monitor wells MW-1, MW-3 through MW-12 and MW-18. Samples were not collected from monitor wells MW-2 and MW-13 through MW-17, 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 24.6 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-3, MW-10, and MW-12,
- Toluene concentrations ranged from <0.00100 mg/L to <0.200 mg/L. The toluene concentration did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any groundwater sample collected.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.690 mg/L. All ethylbenzene concentrations were below the NMWQCC groundwater standard of 0.750 mg/L.
- Xylene concentrations ranged from <0.00100 mg/L to 0.641 mg/L. The xylene concentration exceeded the NMWQCC groundwater standard of 0.620 mg/L in the groundwater sample collected from monitor wells MW-3.
- Total naphthalene concentrations ranged from <0.000200 mg/L to 0.0288 mg/L. The total naphthalene concentrations did not exceed the NMWQCC groundwater standard of 0.030 in any groundwater sample collected.

The dissolved-phase plume is delineated to NMWQCC groundwater standards in all directions except down-gradient monitor well MW-18, which has periodically exhibited benzene concentrations slightly above NMWQCC standards except for the fourth quarter event when the benzene concentrations did not exceed the laboratory reporting limits.. The laboratory analytical results are summarized in Table 2 – Summary of Groundwater Analytical Results in Appendix B. Laboratory analytical data reports and chains of custody documentation are provided in Appendix C.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following section presents a summary of the four groundwater monitoring events conducted at the Lovington Deep 6" site and Section 4.2 provides recommendations for future corrective action.

4.1 Summary of Findings

- The groundwater flow direction in the first water-bearing zone is to the east or east southeast at a gradient averaging 0.0033 ft/ft or approximately 17 feet per mile based upon the water level measurement data collected during 2011.
- Groundwater levels at the subject site have remained relatively stable for the year 2011.
- PSH has consistently impacted monitor wells MW-2 and MW-13 through MW-17 during 2011. The PSH plume underlying this site is delineated by the current monitor well array. Throughout the year 2011, PSH thicknesses have fluctuated from quarter to quarter with no discernable pattern or trend.
- The PSH recovery system has removed approximately five (5) bbls of crude oil from the groundwater during 2011 indicating that the system is performing its function.

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 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.
- Increase the recovery volume storage capacity by revising the secondary containment and adding a second poly-tank. After the recovery volume capacity has been increased, exchange the skimmers in monitor wells MW-2, MW-13 and MW-17 with AP-4 total fluids pumps and optimize product recovery by equipping the AP-4s with intake and discharge timers.

APPENDIX A

Figures

Figure 1 - Site Plan

Figure 2a - Groundwater Gradient Map - 03/09/2011

Figure 2b - Groundwater Gradient Map - 06/21/2011

Figure 2c - Groundwater Gradient Map - 09/27/2011

Figure 2d - Groundwater Gradient Map - 01/03/2012

Figure 3a - PSH Thickness & Groundwater Concentration Map - 03/09/2011

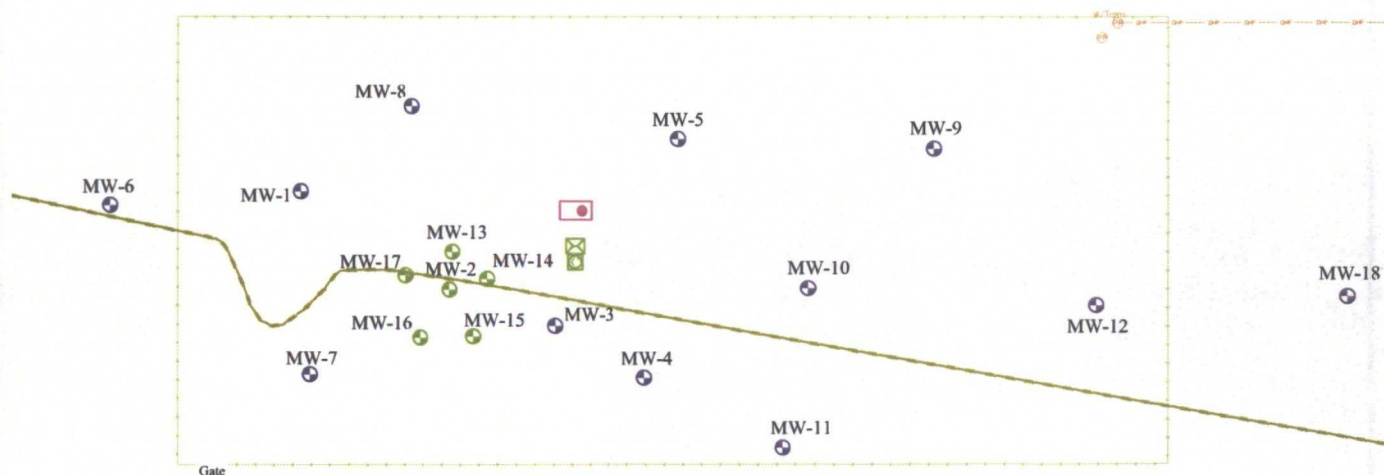
Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/21/2011

Figure 3c - PSH Thickness & Groundwater Concentration Map - 09/27/2011

Figure 3d - PSH Thickness & Groundwater Concentration Map - 12/03-04/2012



0 50 100
Scale in Feet



Legend

- Monitor Well w/ Skimmer
- Monitor Well w/Total Fluid Pump
- Monitor Well
- Proposed Monitor Well
- Power Pole W/Transformer
- Overhead Powerline
- Fence line
- Pipeline
- Compressor Shed
- Controls
- Recovery System Tank and Containment

Talon/LPE # : 700376.051.01



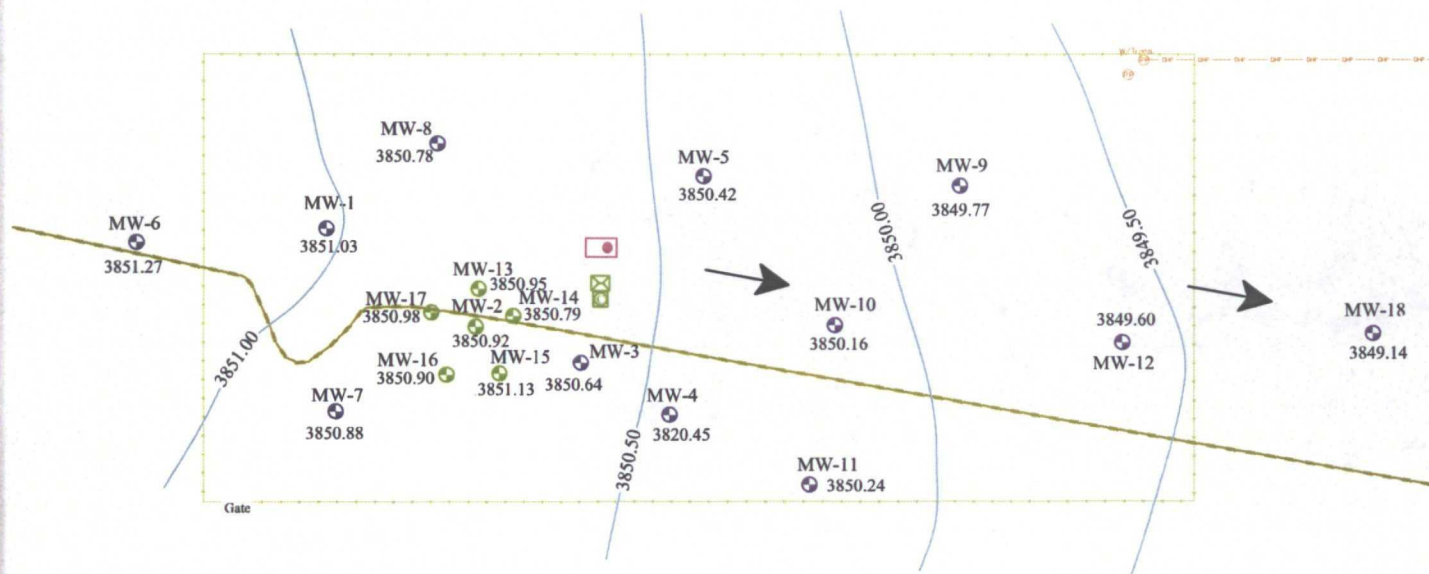
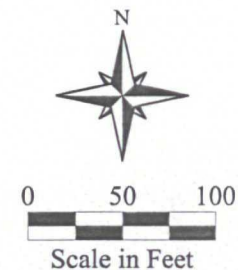
Date: 01/11/2011

Scale: 1" = 100'

Drawn By: TJS

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-037
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
Figure 1 - Site Plan



- Legend**
- Monitor Well w/ Skimmer
 - Monitor Well w/Total Fluid Pump
 - Monitor Well
 - Proposed Monitor Well
 - Power Pole W/Transformer
 - Overhead Powerline
 - Fence line
 - Pipeline
 - Compressor Shed
 - Controls
 - Recovery System Tank and Containment
 - Groundwater Gradient Contour Line
 - 3850.0 - Groundwater Gradient Contour Elevation
 - Groundwater Gradient Flow Direction
 - (3851.15) - Anomalous Data not Used for Contouring

Gradient
0.0033 ft/ft
17.63 ft/mi

Talon/LPE # : 700376.051.01

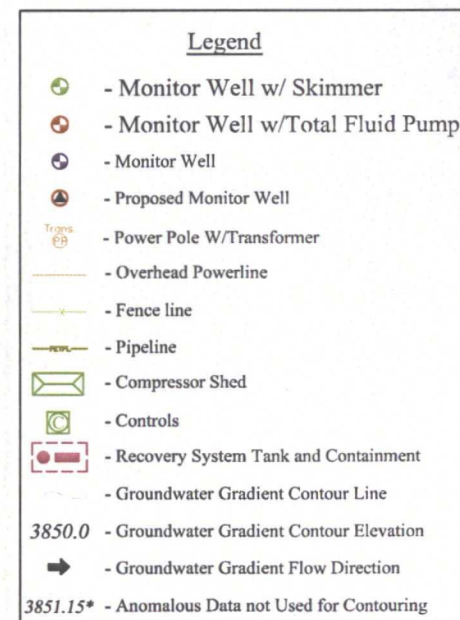
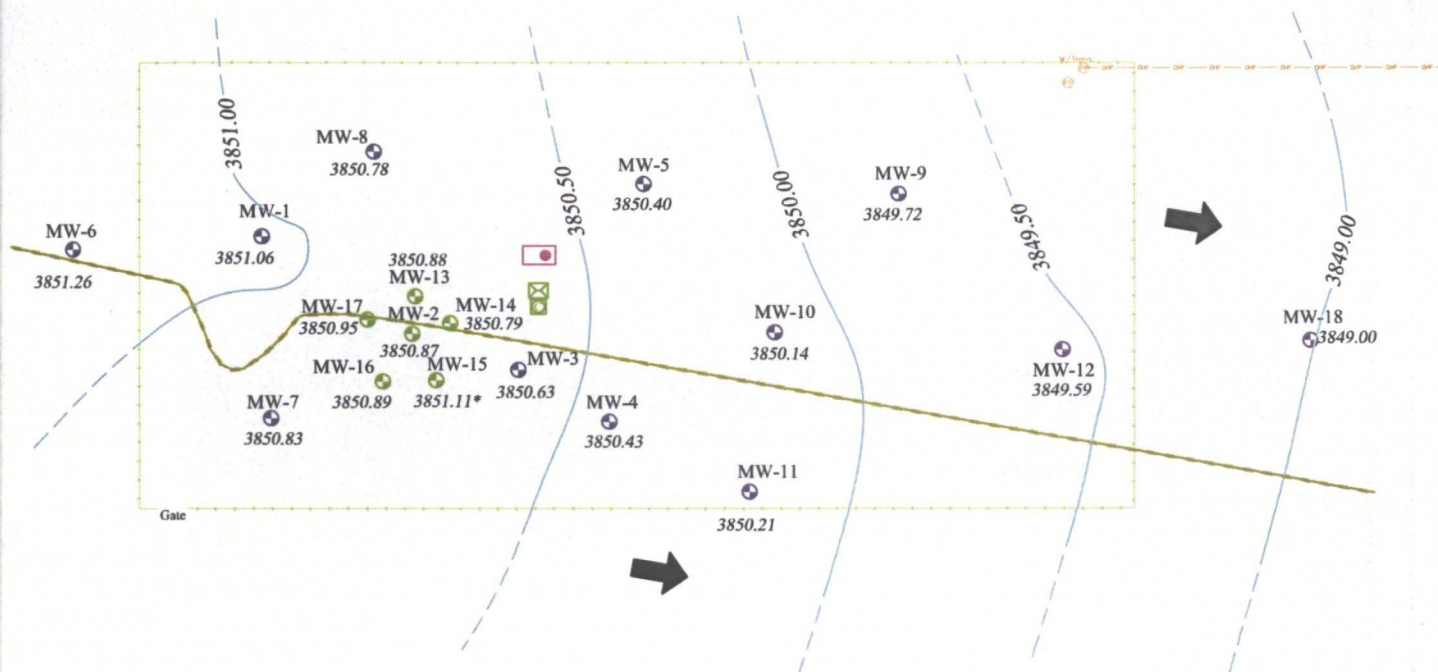
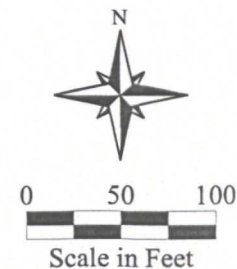


Date: 04/04/2011

Scale: 1" = 100'

Drawn By: TJS

Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. # AP-037
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
Figure 2a - Groundwater Gradient Map, (03/09/2011)



Gradient
0.0033 ft/ft
18.65 ft/mi

Talon/LPE # : 700376.051.01

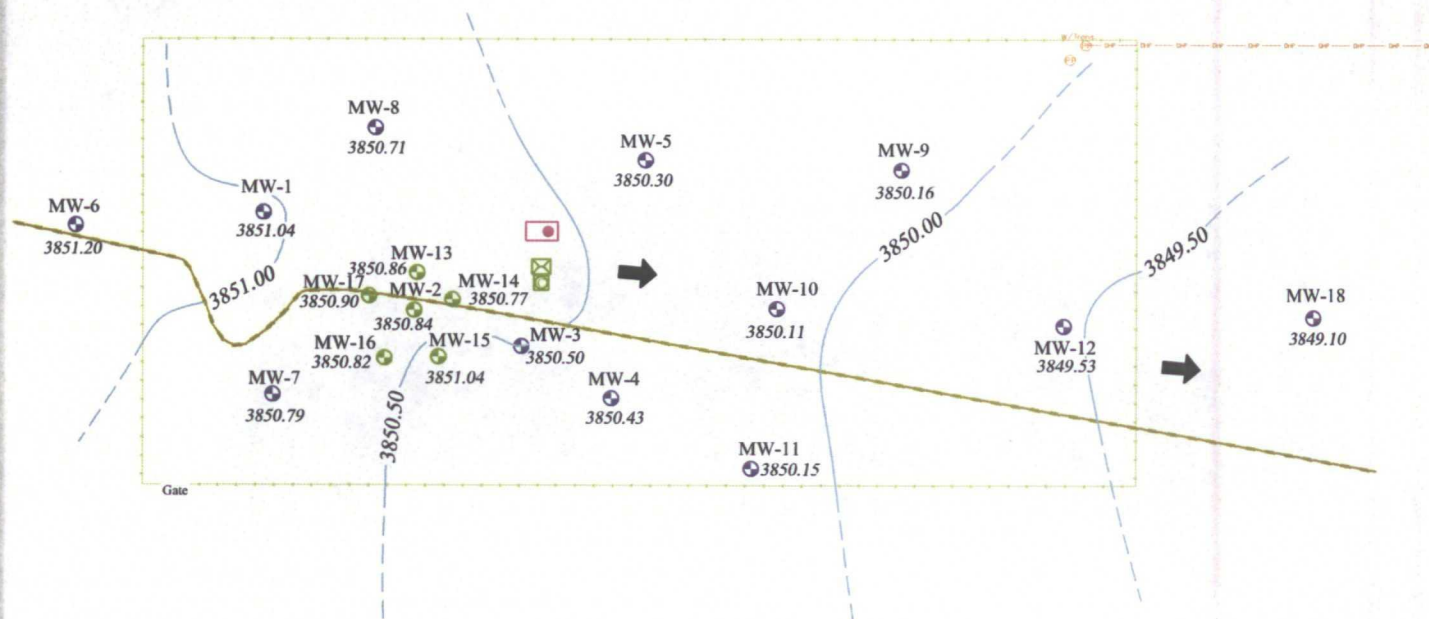
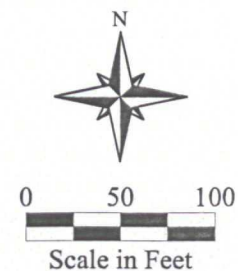


Date: 07/14/2011

Scale: 1" = 100'

Drawn By: TJS

Lovington Deep 6"
SRS # 2002-10312, NMOCDF. # AP-037
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
Figure 2b - Groundwater Gradient Map, (06/21/2011)



- Legend**
- Monitor Well w/ Skimmer
 - Monitor Well w/Total Fluid Pump
 - Monitor Well
 - Proposed Monitor Well
 - Power Pole W/Transformer
 - Overhead Powerline
 - Fence line
 - Pipeline
 - Compressor Shed
 - Controls
 - Recovery System Tank and Containment
 - Groundwater Gradient Contour Line
 - 3850.0 - Groundwater Gradient Contour Elevation
 - Groundwater Gradient Flow Direction
 - 3851.15* - Anomalous Data not Used for Contouring

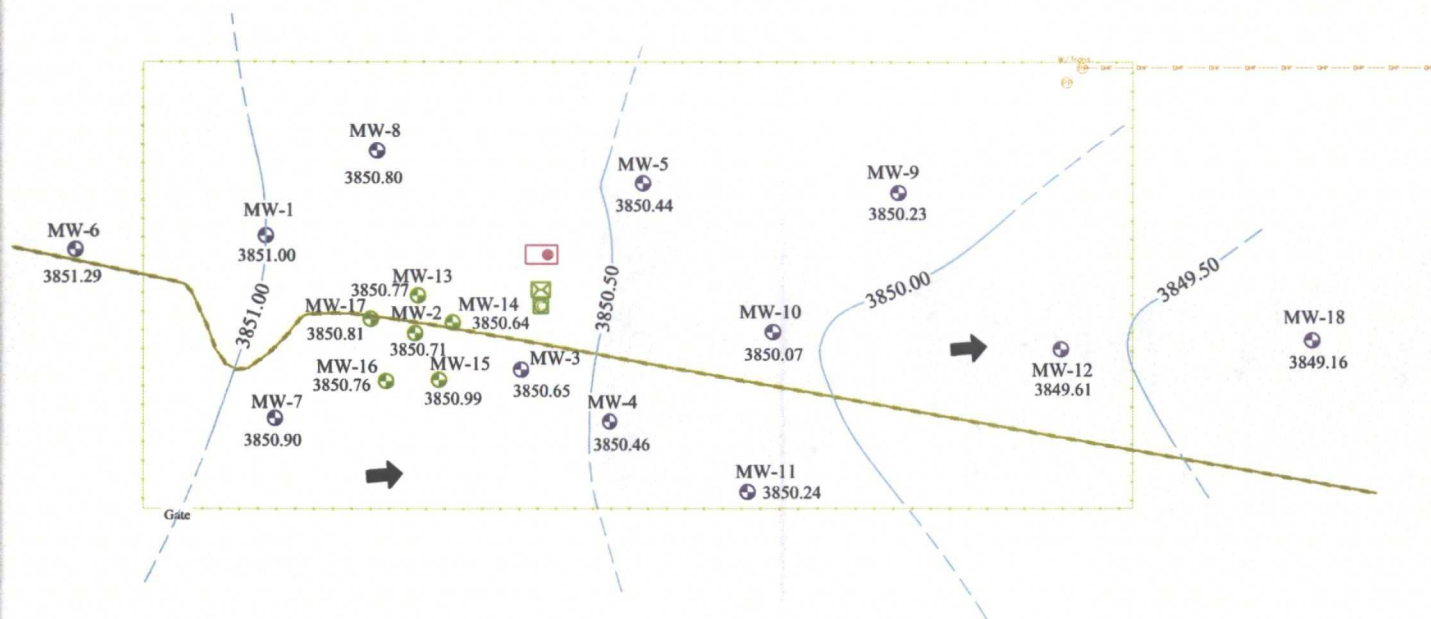
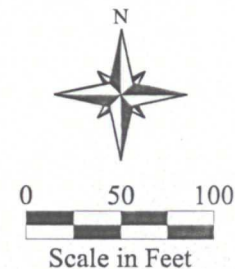
Gradient
0.0033 ft/ft
17.33 ft/mi

Talon/LPE # : 700376.051.01



Date: 10/06/2011
Scale: 1" = 100'
Drawn By: TJS

Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. # AP-037
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
Figure 2c - Groundwater Gradient Map, (09/27/2011)



Gradient
0.0033 ft/ft
17.63 ft/mi

- Legend**
- Monitor Well w/ Skimmer
 - Monitor Well w/Total Fluid Pump
 - Monitor Well
 - Proposed Monitor Well
 - Power Pole W/Transformer
 - Overhead Powerline
 - Fence line
 - Pipeline
 - Compressor Shed
 - Controls
 - Recovery System Tank and Containment
 - Groundwater Gradient Contour Line
 - 3850.0 - Groundwater Gradient Contour Elevation
 - Groundwater Gradient Flow Direction
 - 3851.15* - Anomalous Data not Used for Contouring

Talon/LPE #: 700376.051.01

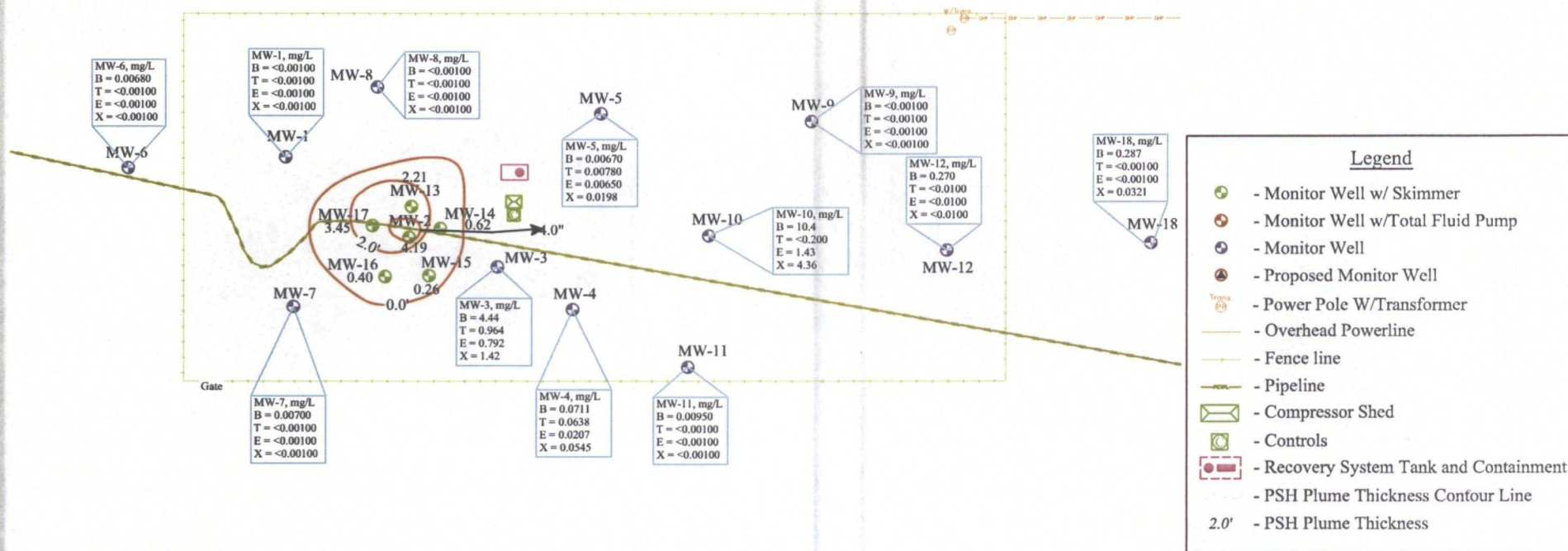
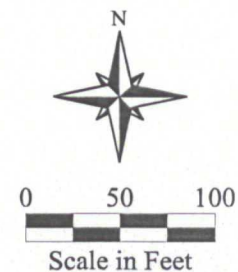


Date: 01/16/2012

Scale: 1" = 100'

Drawn By: TJS

Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. # AP-037
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
Figure 2d - Groundwater Gradient Map, (01/03/2012)



Talon/LPE #: 700376.051.01



Date: 04/04/2011

Scale: 1" = 100'

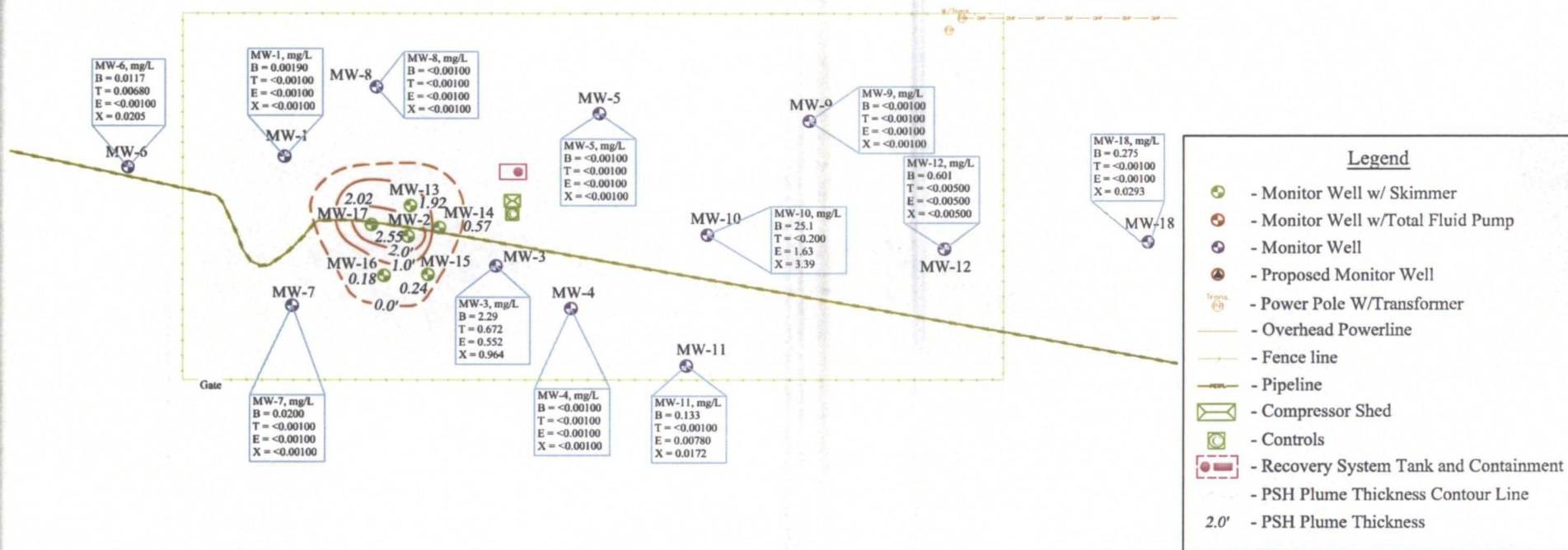
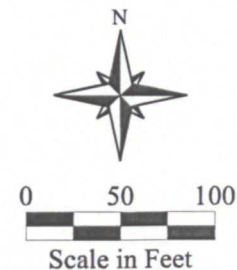
Drawn By: TJS

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-037

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico

Figure 3a - PSH Thickness & Groundwater Concentration Map, (03/09/2011)



Talon/LPE #: 700376.051.01



Date: 07/14/2011

Scale: 1" = 100'

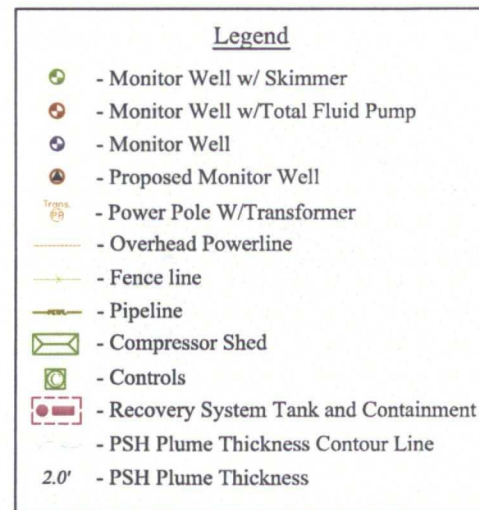
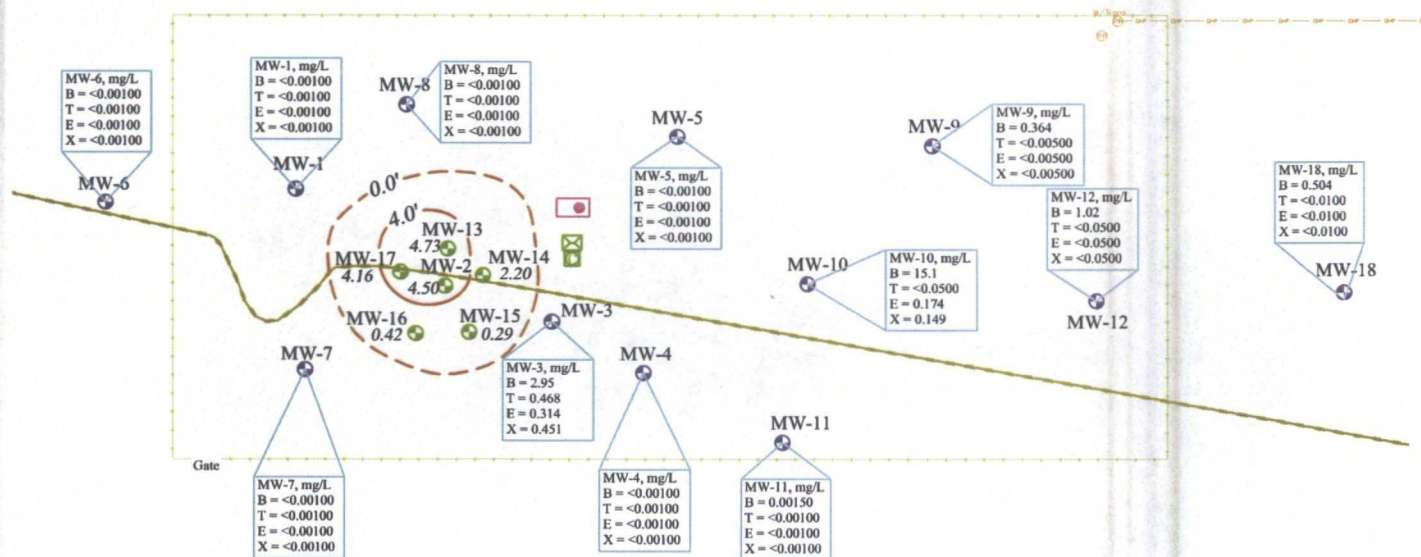
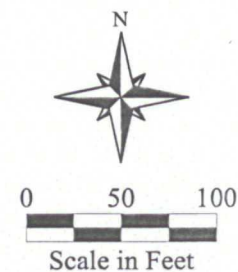
Drawn By: TJS

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-037

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico

Figure 3b - PSH Thickness & Groundwater Concentration Map, (06/21/2011)



Talon/LPE # : 700376.051.01



Date: 10/06/2011

Scale: 1" = 100'

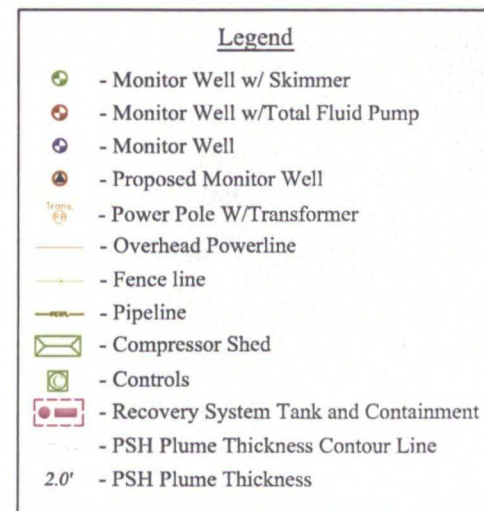
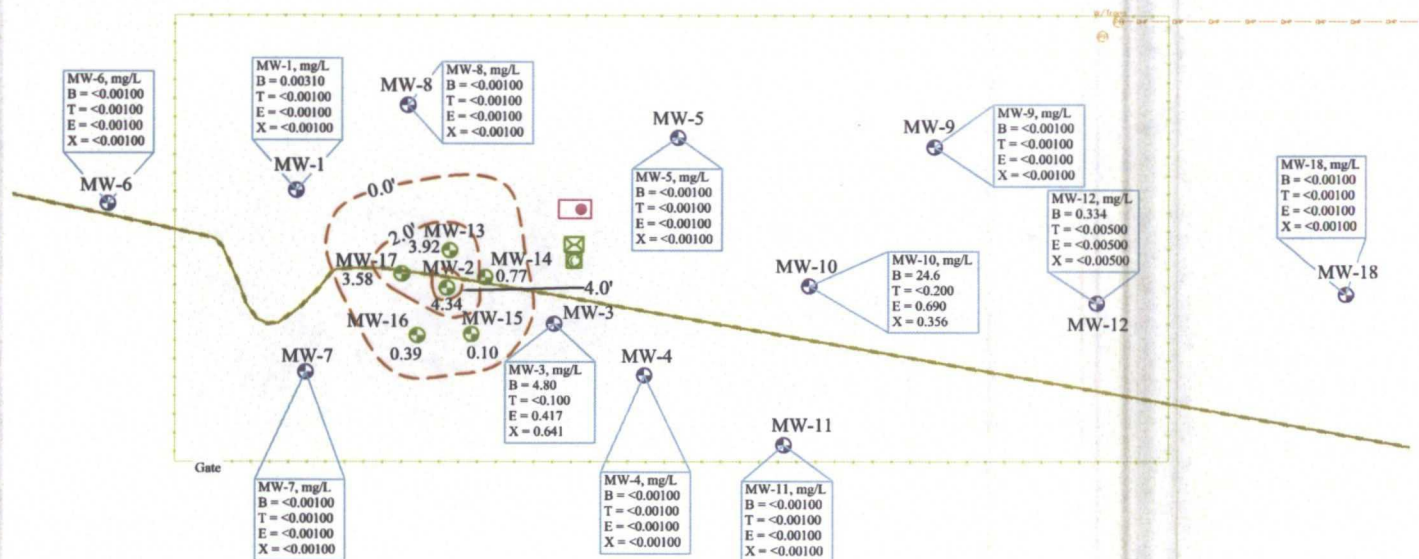
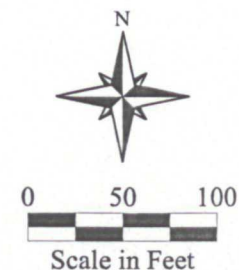
Drawn By: TJS

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-037

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico

Figure 3c - PSH Thickness & Groundwater Concentration Map, (09/27/2011)



Talon/LPE # : 700376.051.01



Date: 01/16/2012

Scale: 1" = 100'

Drawn By: TJS

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-037

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico

Figure 3d - PSH Thickness & Groundwater Concentration Map, (01/03-04/2012)

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 – PSH Recovery Chart



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-1	03/04/03	3,915.51	TD=73.70	63.81		3,851.70
MW-1	09/18/03			63.95		3,851.56
MW-1	11/10/03			63.97		3,851.54
MW-1	04/14/04			64.04		3,851.47
MW-1	05/06/04			64.01		3,851.50
MW-1	06/04/04			64.04		3,851.47
MW-1	06/16/04			64.05		3,851.46
MW-1	07/09/04			64.03		3,851.48
MW-1	07/20/04			64.04		3,851.47
MW-1	09/10/04			64.08		3,851.43
MW-1	09/23/04			64.04		3,851.47
MW-1	10/01/04			63.43		3,852.08
MW-1	10/21/04			63.60		3,851.91
MW-1	11/03/04			63.70		3,851.81
MW-1	11/18/04			63.72		3,851.79
MW-1	12/13/04			63.50		3,852.01
MW-1	12/20/04			63.56		3,851.95
MW-1	01/10/05			63.51		3,852.00
MW-1	01/25/05			63.49		3,852.02
MW-1	02/18/05			63.51		3,852.00
MW-1	03/30/05			63.42		3,852.09
MW-1	05/03/05			63.43		3,852.08
MW-1	05/20/05			63.40		3,852.11
MW-1	08/23/05			63.38		3,852.13
MW-1	11/22/05			63.40		3,852.11
MW-1	01/16/06			63.38		3,852.13
MW-1	02/17/06			63.39		3,852.12
MW-1	03/17/06			63.33		3,852.18
MW-1	03/24/06			63.31		3,852.20
MW-1	05/12/06			63.54		3,851.97
MW-1	05/30/06			63.47		3,852.04
MW-1	06/09/06			63.31		3,852.20
MW-1	07/07/06			63.49		3,852.02
MW-1	07/14/06			63.49		3,852.02
MW-1	08/08/06			63.35		3,852.16
MW-1	08/25/06			63.58		3,851.93



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-1	09/15/06			63.41		3,852.10
MW-1	09/29/06			63.47		3,852.04
MW-1	10/13/06			63.41		3,852.10
MW-1	10/20/06			63.41		3,852.10
MW-1	10/27/06			63.49		3,852.02
MW-1	11/10/06			63.48		3,852.03
MW-1	11/20/06			63.48		3,852.03
MW-1	12/01/06			63.50		3,852.01
MW-1	12/08/06			63.50		3,852.01
MW-1	12/15/06			63.51		3,852.00
MW-1	12/27/06			63.57		3,851.94
MW-1	01/05/07			63.55		3,851.96
MW-1	01/15/07			63.58		3,851.93
MW-1	01/29/07			63.59		3,851.92
MW-1	02/08/07			63.33		3,852.18
MW-1	02/20/07			63.65		3,851.86
MW-1	03/06/07			63.05		3,852.46
MW-1	03/15/07			63.64		3,851.87
MW-1	04/04/07			63.44		3,852.07
MW-1	04/11/07			63.55		3,851.96
MW-1	04/18/07			63.55		3,851.96
MW-1	04/24/07			63.65		3,851.86
MW-1	05/22/07			63.67		3,851.84
MW-1	06/19/07			63.94		3,851.57
MW-1	08/08/07			63.65		3,851.86
MW-1	08/17/07			63.68		3,851.83
MW-1	08/24/07			63.67		3,851.84
MW-1	09/19/07			63.96		3,851.55
MW-1	10/03/07			63.98		3,851.53
MW-1	11/15/07			63.74		3,851.77
MW-1	12/04/07			63.80		3,851.71
MW-1	03/18/08			63.88		3,851.63
MW-1	04/11/08			63.88		3,851.63
MW-1	05/09/08			64.88		3,850.63
MW-1	06/03/08			63.90		3,851.61
MW-1	06/26/08			63.95		3,851.56



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-1	08/28/08			63.98		3,851.53
MW-1	09/20/08			64.03		3,851.48
MW-1	10/29/08			64.03		3,851.48
MW-1	12/23/08			64.04		3,851.47
MW-1	01/22/09			64.06		3,851.45
MW-1	02/25/09			64.07		3,851.44
MW-1	04/16/09			64.10		3,851.41
MW-1	06/04/09			64.11		3,851.40
MW-1	08/19/09			64.22		3,851.29
MW-1	12/15/09			64.18		3,851.33
MW-1	02/25/10			64.23		3,851.28
MW-1	06/15/10			64.28		3,851.23
MW-1	09/13/10			64.32		3,851.19
MW-1	12/14/10			64.42		3,851.09
MW-1	03/09/11			64.48		3,851.03
MW-1	06/21/11			64.45		3,851.06
MW-1	09/27/11			64.47		3,851.04
MW-1	01/03/12			64.51		3,851.00
MW-2	03/04/03	3,915.04				
MW-2	06/17/03		62.29	70.02	7.73	3,851.47
MW-2	08/14/03		62.34	70.04	7.70	3,851.43
MW-2	08/28/03		62.50	69.94	7.44	3,851.31
MW-2	09/18/03		62.51	69.95	7.44	3,851.30
MW-2	10/13/03		62.50	69.96	7.46	3,851.31
MW-2	10/24/03		62.35	70.05	7.70	3,851.42
MW-2	11/10/03		62.45	69.59	7.14	3,851.41
MW-2	11/17/03		62.38	69.98	7.60	3,851.41
MW-2	11/18/03		62.95	67.37	4.42	3,851.36
MW-2	12/04/03		62.57	69.75	7.18	3,851.29
MW-2	02/09/04		62.45	69.87	7.42	3,851.37
MW-2	03/15/04		62.42	69.95	7.53	3,851.38
MW-2	03/25/04		62.43	69.95	7.52	3,851.37
MW-2	04/14/04		62.68	69.42	6.74	3,851.25
MW-2	05/06/04		62.75	70.31	7.56	3,851.04
MW-2	06/04/04		62.77	70.33	7.56	3,851.02



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-2	06/16/04		62.73	69.51	6.78	3,851.19
MW-2	07/09/04		62.40	69.97	7.57	3,851.39
MW-2	07/20/04		63.20	68.95	5.75	3,850.89
MW-2	09/10/04		62.52	69.70	7.18	3,851.34
MW-2	09/23/04		62.49	69.69	7.20	3,851.36
MW-2	10/01/04		60.50	71.07	10.57	3,852.80
MW-2	10/21/04		61.96	68.57	6.61	3,851.99
MW-2	11/03/04		62.27	68.22	5.95	3,851.79
MW-2	11/18/04		62.43	67.81	5.38	3,851.72
MW-2	12/13/04		62.05	68.29	6.24	3,851.96
MW-2	12/20/04		62.04	68.31	6.27	3,851.97
MW-2	01/10/05		62.11	68.29	6.18	3,851.91
MW-2	01/25/05		62.10	68.21	6.11	3,851.93
MW-2	02/18/05		62.06	68.27	6.21	3,851.96
MW-2	03/30/05		62.02	68.30	6.28	3,851.98
MW-2	05/03/05		62.04	68.24	6.20	3,851.98
MW-2	05/20/05		62.03	68.16	6.13	3,852.00
MW-2	08/23/05		61.94	68.23	6.29	3,852.06
MW-2	11/22/05		62.05	68.20	6.15	3,851.98
MW-2	12/08/05		61.99	68.25	6.26	3,852.02
MW-2	01/16/06		62.00	68.20	6.20	3,852.02
MW-2	02/17/06		62.15	67.60	5.45	3,851.99
MW-2	03/03/06		62.06	68.00	5.94	3,852.00
MW-2	03/10/06		62.05	67.87	5.82	3,852.03
MW-2	03/17/06		62.12	67.71	5.59	3,852.00
MW-2	03/24/06		62.05	67.95	5.90	3,852.02
MW-2	03/31/06		62.07	67.91	5.84	3,852.01
MW-2	04/07/06		62.11	67.89	5.78	3,851.98
MW-2	04/13/06		62.11	67.80	5.69	3,851.99
MW-2	04/21/06		62.12	67.86	5.74	3,851.97
MW-2	04/28/06		62.09	67.91	5.82	3,851.99
MW-2	05/05/06		62.14	67.77	5.63	3,851.97
MW-2	05/12/06		62.14	67.81	5.67	3,851.96
MW-2	05/19/06		62.11	67.97	5.86	3,851.96
MW-2	05/30/06		62.01	67.99	5.98	3,852.04
MW-2	06/02/06		62.00	67.83	5.83	3,852.08



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-2	06/09/06		62.04	67.81	5.77	3,852.05
MW-2	06/16/05		62.11	67.91	5.80	3,851.97
MW-2	06/30/06		62.05	67.97	5.92	3,852.01
MW-2	07/07/06		62.07	67.96	5.89	3,852.00
MW-2	07/14/06		62.08	67.96	5.88	3,851.99
MW-2	07/21/06		62.06	68.01	5.95	3,852.00
MW-2	07/28/06		62.15	67.98	5.83	3,851.93
MW-2	08/25/06		62.05	68.02	5.97	3,852.00
MW-2	09/15/06		62.07	68.04	5.97	3,851.98
MW-2	09/22/06		62.10	68.11	6.01	3,851.95
MW-2	09/29/06		62.11	67.91	5.80	3,851.97
MW-2	10/06/06		62.16	67.91	5.75	3,851.93
MW-2	10/13/06		62.11	68.02	5.91	3,851.95
MW-2	10/20/06		62.25	67.87	5.62	3,851.86
MW-2	10/27/06		62.09	67.97	5.88	3,851.98
MW-2	11/03/06		62.09	67.97	5.88	3,851.98
MW-2	11/10/06		62.17	68.09	5.92	3,851.89
MW-2	11/20/06		62.17	67.95	5.78	3,851.92
MW-2	12/01/06		62.20	68.08	5.88	3,851.87
MW-2	12/08/06		62.20	68.08	5.88	3,851.87
MW-2	12/15/06		62.21	68.02	5.81	3,851.87
MW-2	12/27/06		62.19	68.27	6.08	3,851.85
MW-2	01/05/07		62.21	68.46	6.25	3,851.80
MW-2	01/15/07		62.21	68.91	6.70	3,851.72
MW-2	01/29/07		63.01	68.05	5.04	3,851.20
MW-2	02/08/07		62.25	68.07	5.82	3,851.83
MW-2	02/20/07		62.33	68.35	6.02	3,851.72
MW-2	03/06/07		62.37	68.41	6.04	3,851.67
MW-2	03/15/07		62.30	68.21	5.91	3,851.76
MW-2	04/04/07		63.58	68.25	4.67	3,850.69
MW-2	04/11/07		62.34	68.31	5.97	3,851.71
MW-2	04/18/07		62.34	68.31	5.97	3,851.71
MW-2	04/24/07		62.36	68.13	5.77	3,851.73
MW-2	05/22/07		62.33	63.28	0.95	3,852.55
MW-2	06/19/07		62.40	68.30	5.90	3,851.67
MW-2	08/08/07		62.36	68.32	5.96	3,851.70



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-2	08/17/07		62.34	68.21	5.87	3,851.73
MW-2	08/24/07		62.37	68.12	5.75	3,851.72
MW-2	09/19/07		62.36	68.24	5.88	3,851.71
MW-2	10/03/07		62.41	68.32	5.91	3,851.65
MW-2	10/11/07		62.45	68.22	5.77	3,851.64
MW-2	10/18/07		62.44	68.17	5.73	3,851.65
MW-2	12/03/07		62.44	68.36	5.92	3,851.62
MW-2	01/02/08		62.59	68.46	5.87	3,851.48
MW-2	02/07/08		62.63	68.58	5.95	3,851.43
MW-2	02/11/08		62.64	68.60	5.96	3,851.42
MW-2	03/18/08		63.03	66.88	3.85	3,851.37
MW-2	04/02/08		63.24	66.14	2.90	3,851.32
MW-2	04/11/08		63.56	63.93	0.37	3,851.42
MW-2	04/14/08		63.77	64.00	0.23	3,851.23
MW-2	04/29/08		63.78	64.04	0.26	3,851.22
MW-2	05/07/08		63.82	64.03	0.21	3,851.19
MW-2	05/12/08		63.81	64.03	0.22	3,851.19
MW-2	06/03/08		63.92	64.18	0.26	3,851.08
MW-2	06/26/08		64.07	64.31	0.24	3,850.93
MW-2	07/23/08		63.76	64.02	0.26	3,851.24
MW-2	08/28/08		63.71	63.95	0.24	3,851.29
MW-2	09/20/08		63.74	63.99	0.25	3,851.26
MW-2	10/29/08		63.35	65.79	2.44	3,851.29
MW-2	12/23/08		63.53	64.96	1.43	3,851.27
MW-2	01/22/09		63.56	64.98	1.42	3,851.25
MW-2	02/25/09		63.77	64.03	0.26	3,851.23
MW-2	04/16/09		63.44	65.75	2.31	3,851.22
MW-2	06/04/09		63.17	67.07	3.90	3,851.23
MW-2	08/19/09		63.25	67.14	3.89	3,851.15
MW-2	12/15/09		63.97	66.83	2.86	3,850.60
MW-2	02/25/10		63.69	67.30	3.61	3,850.75
MW-2	06/15/10		63.84	67.27	3.43	3,850.63
MW-2	09/13/10		63.55	66.55	3.00	3,851.00
MW-2	12/14/10		63.53	66.98	3.45	3,850.94
MW-2	03/09/11		63.43	67.62	4.19	3,850.92
MW-2	06/21/11		63.75	66.30	2.55	3,850.87



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-2	09/27/11		63.46	67.96	4.50	3,850.84
MW-2	01/03/12		63.61	67.95	4.34	3,850.71
MW-3	03/04/03	3,915.24	TD=73.70	64.01		3,851.23
MW-3	09/18/03			64.14		3,851.10
MW-3	11/10/03			64.15		3,851.09
MW-3	04/14/04			64.20		3,851.04
MW-3	05/06/04			64.20		3,851.04
MW-3	06/04/04			64.23		3,851.01
MW-3	06/16/04			64.24		3,851.00
MW-3	07/09/04			64.23		3,851.01
MW-3	07/20/04			64.23		3,851.01
MW-3	09/10/04			64.25		3,850.99
MW-3	09/23/04			64.25		3,850.99
MW-3	10/01/04			63.41		3,851.83
MW-3	10/21/04			63.71		3,851.53
MW-3	11/03/04			63.83		3,851.41
MW-3	11/18/04			63.84		3,851.40
MW-3	12/13/04			63.65		3,851.59
MW-3	12/20/04			63.73		3,851.51
MW-3	01/10/05			63.70		3,851.54
MW-3	01/25/05			63.64		3,851.60
MW-3	02/18/05			63.67		3,851.57
MW-3	03/30/05			63.54		3,851.70
MW-3	05/03/05			63.59		3,851.65
MW-3	05/20/05			63.56		3,851.68
MW-3	08/23/05			63.51		3,851.73
MW-3	11/22/05			63.50		3,851.74
MW-3	01/16/06			63.55		3,851.69
MW-3	02/17/06			63.58		3,851.66
MW-3	03/17/06			63.58		3,851.66
MW-3	03/24/06			63.59		3,851.65
MW-3	04/13/06			63.60		3,851.64
MW-3	05/12/06			63.62		3,851.62
MW-3	05/30/06			63.68		3,851.56
MW-3	06/09/06			63.58		3,851.66



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSIH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-3	07/07/06			63.69		3,851.55
MW-3	07/14/06			63.70		3,851.54
MW-3	08/08/06			63.49		3,851.75
MW-3	08/25/06			63.79		3,851.45
MW-3	09/15/06			63.54		3,851.70
MW-3	09/29/06			63.61		3,851.63
MW-3	10/13/06			63.59		3,851.65
MW-3	10/20/06			63.55		3,851.69
MW-3	10/27/06			63.64		3,851.60
MW-3	11/10/06			62.63		3,852.61
MW-3	11/20/06			63.64		3,851.60
MW-3	12/01/06			63.74		3,851.50
MW-3	12/08/06			63.72		3,851.52
MW-3	12/15/06			63.75		3,851.49
MW-3	12/27/06			63.77		3,851.47
MW-3	01/05/07			63.77		3,851.47
MW-3	01/15/07			63.78		3,851.46
MW-3	01/29/07			63.76		3,851.48
MW-3	02/08/07			63.48		3,851.76
MW-3	02/20/07			63.79		3,851.45
MW-3	03/06/07			63.79		3,851.45
MW-3	03/15/07			63.78		3,851.46
MW-3	04/04/07			63.50		3,851.74
MW-3	04/11/07			63.78		3,851.46
MW-3	04/18/07			63.85		3,851.39
MW-3	04/24/07			63.82		3,851.42
MW-3	05/22/07			63.83		3,851.41
MW-3	06/19/07			63.79		3,851.45
MW-3	08/08/07			63.80		3,851.44
MW-3	08/17/07			63.82		3,851.42
MW-3	08/24/07			63.82		3,851.42
MW-3	09/19/07			63.84		3,851.40
MW-3	10/03/07			63.81		3,851.43
MW-3	12/03/07			63.98		3,851.26
MW-3	03/18/08			64.04		3,851.20
MW-3	04/11/08			64.05		3,851.19



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-3	05/09/08			64.06		3,851.18
MW-3	06/03/08			64.08		3,851.16
MW-3	06/26/08			64.13		3,851.11
MW-3	08/28/08			64.16		3,851.08
MW-3	09/20/08			64.21		3,851.03
MW-3	10/29/08			64.20		3,851.04
MW-3	12/23/08			64.21		3,851.03
MW-3	01/22/09			64.22		3,851.02
MW-3	02/25/09			64.23		3,851.01
MW-3	04/16/09			64.25		3,850.99
MW-3	06/04/09			64.28		3,850.96
MW-3	08/19/09			64.37		3,850.87
MW-3	12/15/09			64.37		3,850.87
MW-3	02/25/10			64.41		3,850.83
MW-3	06/15/10			64.47		3,850.77
MW-3	09/13/10			64.90		3,850.34
MW-3	12/14/10			64.61		3,850.63
MW-3	03/09/11			64.60		3,850.64
MW-3	06/21/11			64.61		3,850.63
MW-3	09/27/11			64.74		3,850.50
MW-3	01/03/12			64.59		3,850.65
MW-4	03/04/03	3,915.30	TD=73.90	64.25		3,851.05
MW-4	09/18/03			64.35		3,850.95
MW-4	11/10/03			64.38		3,850.92
MW-4	04/14/04			64.43		3,850.87
MW-4	05/06/04			64.41		3,850.89
MW-4	06/04/04			64.47		3,850.83
MW-4	06/16/04			64.47		3,850.83
MW-4	07/09/04			64.47		3,850.83
MW-4	07/20/04			64.45		3,850.85
MW-4	09/10/04			64.48		3,850.82
MW-4	09/23/04			64.53		3,850.77
MW-4	10/01/04			63.95		3,851.35
MW-4	10/21/04			64.05		3,851.25
MW-4	11/03/04			64.11		3,851.19



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-4	11/18/04			64.13		3,851.17
MW-4	12/13/04			63.93		3,851.37
MW-4	12/20/04			64.01		3,851.29
MW-4	01/10/05			63.96		3,851.34
MW-4	01/25/05			63.92		3,851.38
MW-4	02/18/05			63.95		3,851.35
MW-4	03/30/05			63.85		3,851.45
MW-4	05/03/05			63.82		3,851.48
MW-4	05/20/05			63.82		3,851.48
MW-4	08/23/05			63.48		3,851.82
MW-4	11/22/05			63.72		3,851.58
MW-4	01/16/06			63.81		3,851.49
MW-4	02/17/06			63.80		3,851.50
MW-4	03/17/06			63.81		3,851.49
MW-4	03/24/06			63.80		3,851.50
MW-4	05/12/06			63.79		3,851.51
MW-4	05/30/06			63.84		3,851.46
MW-4	06/09/06			63.81		3,851.49
MW-4	07/07/06			63.87		3,851.43
MW-4	07/14/06			63.87		3,851.43
MW-4	08/08/06			63.72		3,851.58
MW-4	08/25/06			63.96		3,851.34
MW-4	09/15/06			63.81		3,851.49
MW-4	09/29/06			63.84		3,851.46
MW-4	10/13/06			63.81		3,851.49
MW-4	10/20/06			63.77		3,851.53
MW-4	10/27/06			63.90		3,851.40
MW-4	11/10/06			63.88		3,851.42
MW-4	11/20/06			63.89		3,851.41
MW-4	12/01/06			63.94		3,851.36
MW-4	12/08/06			63.93		3,851.37
MW-4	12/15/06			63.93		3,851.37
MW-4	12/27/06			63.98		3,851.32
MW-4	01/05/07			63.98		3,851.32
MW-4	01/15/07			64.02		3,851.28
MW-4	01/29/07			63.98		3,851.32



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCDF REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-4	02/08/07			63.70		3,851.60
MW-4	02/20/07			64.02		3,851.28
MW-4	03/06/07			63.96		3,851.34
MW-4	03/15/07			64.05		3,851.25
MW-4	04/04/07			63.82		3,851.48
MW-4	04/11/07			64.05		3,851.25
MW-4	04/18/07			64.05		3,851.25
MW-4	04/24/07			64.04		3,851.26
MW-4	05/22/07			64.05		3,851.25
MW-4	06/19/07			64.04		3,851.26
MW-4	08/08/07			64.02		3,851.28
MW-4	08/17/07			64.04		3,851.26
MW-4	08/24/07			64.03		3,851.27
MW-4	09/19/07			64.06		3,851.24
MW-4	10/03/07			64.08		3,851.22
MW-4	12/03/07			64.18		3,851.12
MW-4	03/18/08			64.27		3,851.03
MW-4	04/11/08			64.26		3,851.04
MW-4	05/09/08			64.27		3,851.03
MW-4	06/03/08			64.28		3,851.02
MW-4	06/26/08			64.36		3,850.94
MW-4	08/28/08			64.37		3,850.93
MW-4	09/20/08			64.43		3,850.87
MW-4	10/29/08			64.41		3,850.89
MW-4	12/23/08			64.42		3,850.88
MW-4	01/22/09			64.45		3,850.85
MW-4	02/25/09			64.45		3,850.85
MW-4	04/16/09			64.48		3,850.82
MW-4	06/04/09			64.52		3,850.78
MW-4	08/19/09			64.59		3,850.71
MW-4	12/15/09			64.58		3,850.72
MW-4	02/25/10			64.63		3,850.67
MW-4	06/15/10			64.72		3,850.58
MW-4	09/13/10			64.71		3,850.59
MW-4	12/14/10			64.86		3,850.44
MW-4	03/09/11			64.85		3,850.45



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-4	06/21/11			64.87		3,850.43
MW-4	09/27/11			64.87		3,850.43
MW-4	01/03/12			64.84		3,850.46
MW-5	03/04/03	3,915.26	TD=73.95	64.21		3,851.05
MW-5	09/18/03			64.39		3,850.87
MW-5	11/10/03			64.42		3,850.84
MW-5	04/14/04			64.46		3,850.80
MW-5	05/06/04			64.45		3,850.81
MW-5	06/04/04			64.46		3,850.80
MW-5	06/16/04			64.49		3,850.77
MW-5	07/09/04			64.45		3,850.81
MW-5	07/20/04			64.47		3,850.79
MW-5	09/10/04			64.51		3,850.75
MW-5	09/23/04			64.53		3,850.73
MW-5	10/01/04			64.02		3,851.24
MW-5	10/21/04			64.04		3,851.22
MW-5	11/03/04			64.13		3,851.13
MW-5	11/18/04			64.19		3,851.07
MW-5	12/13/04			63.91		3,851.35
MW-5	12/20/04			63.94		3,851.32
MW-5	01/10/05			63.94		3,851.32
MW-5	01/25/05			63.88		3,851.38
MW-5	02/18/05			63.90		3,851.36
MW-5	03/30/05			63.81		3,851.45
MW-5	05/03/05			63.83		3,851.43
MW-5	05/20/05			63.79		3,851.47
MW-5	08/23/05			63.75		3,851.51
MW-5	11/22/05			63.80		3,851.46
MW-5	01/16/06			63.80		3,851.46
MW-5	02/17/06			63.83		3,851.43
MW-5	03/17/06			63.78		3,851.48
MW-5	03/24/05			63.77		3,851.49
MW-5	04/13/06			63.81		3,851.45
MW-5	05/12/06			63.81		3,851.45
MW-5	05/30/06			63.82		3,851.44



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-5	06/09/06			63.77		3,851.49
MW-5	07/07/06			63.86		3,851.40
MW-5	07/14/06			63.87		3,851.39
MW-5	08/08/06			63.77		3,851.49
MW-5	08/25/06			63.95		3,851.31
MW-5	09/15/06			63.81		3,851.45
MW-5	09/29/06			63.87		3,851.39
MW-5	10/13/06			63.85		3,851.41
MW-5	10/20/06			63.81		3,851.45
MW-5	10/27/06			63.91		3,851.35
MW-5	11/10/06			63.90		3,851.36
MW-5	11/20/06			63.88		3,851.38
MW-5	12/01/06			63.92		3,851.34
MW-5	12/08/06			63.90		3,851.36
MW-5	12/15/06			63.93		3,851.33
MW-5	12/27/06			63.95		3,851.31
MW-5	01/05/07			63.96		3,851.30
MW-5	01/15/07			63.99		3,851.27
MW-5	01/29/07			63.99		3,851.27
MW-5	02/08/07			63.75		3,851.51
MW-5	02/20/07			64.09		3,851.17
MW-5	03/06/07			64.02		3,851.24
MW-5	03/15/07			64.05		3,851.21
MW-5	04/04/07			63.86		3,851.40
MW-5	04/11/07			64.06		3,851.20
MW-5	04/18/07			64.07		3,851.19
MW-5	04/24/07			63.82		3,851.44
MW-5	05/22/07			64.08		3,851.18
MW-5	06/19/07			64.04		3,851.22
MW-5	08/08/07			64.04		3,851.22
MW-5	08/17/07			64.08		3,851.18
MW-5	08/24/07			64.08		3,851.18
MW-5	09/19/07			64.09		3,851.17
MW-5	10/03/07			64.11		3,851.15
MW-5	11/15/07			64.21		3,851.05
MW-5	12/03/07			64.22		3,851.04



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-5	03/18/08			64.31		3,850.95
MW-5	04/11/08			64.31		3,850.95
MW-5	05/09/08			64.33		3,850.93
MW-5	06/03/08			64.33		3,850.93
MW-5	06/26/08			64.39		3,850.87
MW-5	08/28/08			64.42		3,850.84
MW-5	09/20/08			64.46		3,850.80
MW-5	10/29/08			64.47		3,850.79
MW-5	12/23/08			64.47		3,850.79
MW-5	01/22/09			64.50		3,850.76
MW-5	02/25/09			64.51		3,850.75
MW-5	04/16/09			64.52		3,850.74
MW-5	06/04/09			64.56		3,850.70
MW-5	08/19/09			64.61		3,850.65
MW-5	12/15/09			64.63		3,850.63
MW-5	02/25/10			64.65		3,850.61
MW-5	06/15/10			64.73		3,850.53
MW-5	09/13/10			64.72		3,850.54
MW-5	12/14/10			64.85		3,850.41
MW-5	03/09/11			64.84		3,850.42
MW-5	06/21/11			64.86		3,850.40
MW-5	09/27/11			64.96		3,850.30
MW-5	01/03/12			64.82		3,850.44
MW-6	11/18/04	3,915.45	TD=70.92			
MW-6	12/13/04			63.26		3,852.19
MW-6	12/20/04			63.32		3,852.13
MW-6	01/10/05			63.30		3,852.15
MW-6	01/25/05			63.23		3,852.22
MW-6	02/18/05			63.27		3,852.18
MW-6	03/30/05			63.18		3,852.27
MW-6	05/03/05			63.19		3,852.26
MW-6	05/20/05			63.14		3,852.31
MW-6	08/23/05			63.12		3,852.33
MW-6	11/22/05			63.14		3,852.31
MW-6	01/16/06			63.15		3,852.30



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCDF REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-6	02/17/06			63.15		3,852.30
MW-6	03/17/06			63.12		3,852.33
MW-6	03/24/06			63.11		3,852.34
MW-6	04/13/06			63.15		3,852.30
MW-6	05/12/06			63.19		3,852.26
MW-6	05/30/06			63.19		3,852.26
MW-6	06/09/06			63.10		3,852.35
MW-6	07/07/06			63.20		3,852.25
MW-6	07/14/06			63.21		3,852.24
MW-6	08/08/06			63.08		3,852.37
MW-6	08/25/06			63.28		3,852.17
MW-6	09/15/06			63.17		3,852.28
MW-6	09/29/06			63.20		3,852.25
MW-6	10/13/06			63.14		3,852.31
MW-6	10/20/06			63.15		3,852.30
MW-6	10/27/06			63.22		3,852.23
MW-6	11/10/06			63.22		3,852.23
MW-6	11/20/06			63.23		3,852.22
MW-6	12/01/06			63.29		3,852.16
MW-6	12/08/06			63.29		3,852.16
MW-6	12/27/06			63.33		3,852.12
MW-6	01/05/07			63.35		3,852.10
MW-6	01/15/07			63.37		3,852.08
MW-6	01/29/07			63.35		3,852.10
MW-6	02/08/07			63.07		3,852.38
MW-6	02/20/07			63.34		3,852.11
MW-6	03/06/07			63.35		3,852.10
MW-6	03/15/07			63.38		3,852.07
MW-6	04/04/07			63.18		3,852.27
MW-6	04/11/07			63.40		3,852.05
MW-6	04/18/07			63.40		3,852.05
MW-6	04/24/07			63.40		3,852.05
MW-6	05/22/07			63.40		3,852.05
MW-6	06/19/07			63.39		3,852.06
MW-6	08/08/07			63.39		3,852.06
MW-6	08/17/07			63.41		3,852.04



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-6	08/24/07			63.39		3,852.06
MW-6	09/19/07			63.43		3,852.02
MW-6	10/03/07			63.42		3,852.03
MW-6	11/15/07			63.50		3,851.95
MW-6	12/03/07			63.52		3,851.93
MW-6	03/18/08			63.61		3,851.84
MW-6	04/11/08			63.62		3,851.83
MW-6	05/09/08			63.64		3,851.81
MW-6	06/03/08			63.64		3,851.81
MW-6	06/26/08			63.69		3,851.76
MW-6	08/28/08			63.72		3,851.73
MW-6	09/20/08			63.77		3,851.68
MW-6	10/29/08			63.79		3,851.66
MW-6	12/23/08			63.78		3,851.67
MW-6	01/22/09			63.80		3,851.65
MW-6	02/25/09			63.81		3,851.64
MW-6	04/16/09			63.82		3,851.63
MW-6	06/04/09			63.86		3,851.59
MW-6	08/19/09			63.94		3,851.51
MW-6	12/15/09			63.93		3,851.52
MW-6	02/25/10			63.97		3,851.48
MW-6	06/15/10			64.03		3,851.42
MW-6	09/13/10			64.03		3,851.42
MW-6	12/14/10			64.15		3,851.30
MW-6	03/09/11			64.18		3,851.27
MW-6	06/21/11			64.19		3,851.26
MW-6	09/27/11			64.25		3,851.20
MW-6	01/03/12			64.16		3,851.29
MW-7	11/18/04	3,914.73	TD=70.51			
MW-7	12/13/04			62.94		3,851.79
MW-7	12/20/04			63.00		3,851.73
MW-7	01/10/05			62.98		3,851.75
MW-7	01/25/05			62.92		3,851.81
MW-7	02/18/05			62.94		3,851.79
MW-7	03/30/05			62.85		3,851.88



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCDF REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-7	05/03/05			62.84		3,851.89
MW-7	05/20/05			62.81		3,851.92
MW-7	08/23/05			62.80		3,851.93
MW-7	11/22/05			62.78		3,851.95
MW-7	01/16/06			62.81		3,851.92
MW-7	02/17/06			62.81		3,851.92
MW-7	03/17/06			62.80		3,851.93
MW-7	03/24/06			62.81		3,851.92
MW-7	04/13/06			62.81		3,851.92
MW-7	05/12/06			63.84		3,850.89
MW-7	05/30/06			62.85		3,851.88
MW-7	06/09/06			62.80		3,851.93
MW-7	07/07/06			62.89		3,851.84
MW-7	07/14/06			62.90		3,851.83
MW-7	08/08/06			62.76		3,851.97
MW-7	08/25/06			62.99		3,851.74
MW-7	09/15/06			62.85		3,851.88
MW-7	09/29/06			62.87		3,851.86
MW-7	10/13/06			62.78		3,851.95
MW-7	10/20/06			62.81		3,851.92
MW-7	10/27/06			63.10		3,851.63
MW-7	11/10/06			62.89		3,851.84
MW-7	11/20/06			62.88		3,851.85
MW-7	12/01/06			63.05		3,851.68
MW-7	12/08/06			63.91		3,850.82
MW-7	12/15/06			62.93		3,851.80
MW-7	12/27/06			63.98		3,850.75
MW-7	01/05/07			63.98		3,850.75
MW-7	01/15/07			62.99		3,851.74
MW-7	01/29/07			63.00		3,851.73
MW-7	02/08/07			62.74		3,851.99
MW-7	02/20/07			63.02		3,851.71
MW-7	03/06/07			63.10		3,851.63
MW-7	03/15/07			63.02		3,851.71
MW-7	04/01/07			62.86		3,851.87
MW-7	04/11/07			63.03		3,851.70



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-7	04/18/07			63.06		3,851.67
MW-7	04/24/07			63.05		3,851.68
MW-7	05/22/07			63.08		3,851.65
MW-7	06/19/07			63.05		3,851.68
MW-7	08/08/07			63.06		3,851.67
MW-7	08/17/07			63.02		3,851.71
MW-7	08/24/07			63.06		3,851.67
MW-7	09/19/07			63.08		3,851.65
MW-7	10/03/07			63.10		3,851.63
MW-7	11/15/07			63.17		3,851.56
MW-7	12/03/07			63.19		3,851.54
MW-7	03/18/08			63.29		3,851.44
MW-7	04/11/08			63.30		3,851.43
MW-7	05/09/08			63.30		3,851.43
MW-7	06/03/08			63.33		3,851.40
MW-7	06/26/08			63.37		3,851.36
MW-7	08/28/08			63.40		3,851.33
MW-7	09/20/08			63.45		3,851.28
MW-7	10/29/08			63.47		3,851.26
MW-7	12/23/08			63.46		3,851.27
MW-7	01/22/09			63.48		3,851.25
MW-7	02/25/09			63.49		3,851.24
MW-7	04/16/09			63.51		3,851.22
MW-7	08/19/09			63.61		3,851.12
MW-7	12/15/09			63.62		3,851.11
MW-7	02/25/10			63.65		3,851.08
MW-7	06/15/10			63.71		3,851.02
MW-7	09/13/10			63.75		3,850.98
MW-7	12/14/10			63.83		3,850.90
MW-7	03/09/11			63.85		3,850.88
MW-7	06/21/11			63.90		3,850.83
MW-7	09/27/11			63.94		3,850.79
MW-7	01/03/12			63.83		3,850.90
MW-8	11/18/04	3,915.19	TD=72.48	63.64		3,851.55
MW-8	12/13/04			63.45		3,851.74



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-8	12/20/04			63.50		3,851.69
MW-8	01/10/05			63.49		3,851.70
MW-8	01/25/05			63.43		3,851.76
MW-8	02/18/05			63.47		3,851.72
MW-8	03/30/05			63.37		3,851.82
MW-8	05/03/05			63.38		3,851.81
MW-8	05/20/05			63.36		3,851.83
MW-8	08/23/05			63.34		3,851.85
MW-8	11/22/05			63.35		3,851.84
MW-8	01/16/06			63.37		3,851.82
MW-8	02/17/06			63.38		3,851.81
MW-8	03/17/06			63.35		3,851.84
MW-8	03/24/06			63.34		3,851.85
MW-8	04/13/06			63.39		3,851.80
MW-8	05/12/06			63.35		3,851.84
MW-8	05/30/06			63.40		3,851.79
MW-8	06/09/06			63.34		3,851.85
MW-8	07/07/06			63.44		3,851.75
MW-8	07/14/06			63.43		3,851.76
MW-8	08/08/06			63.31		3,851.88
MW-8	08/25/06			63.56		3,851.63
MW-8	09/15/06			63.38		3,851.81
MW-8	09/22/06			63.42		3,851.77
MW-8	10/13/06			63.41		3,851.78
MW-8	10/20/06			67.37		3,847.82
MW-8	10/27/06			63.46		3,851.73
MW-8	11/10/06			63.46		3,851.73
MW-8	11/20/06			62.44		3,852.75
MW-8	12/01/06			63.48		3,851.71
MW-8	12/08/06			63.46		3,851.73
MW-8	12/15/06			63.48		3,851.71
MW-8	12/27/06			63.51		3,851.68
MW-8	01/05/07			63.51		3,851.68
MW-8	01/15/07			63.54		3,851.65
MW-8	01/29/07			63.56		3,851.63
MW-8	02/08/07			63.30		3,851.89



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-8	02/20/07			63.57		3,851.62
MW-8	03/06/07			63.58		3,851.61
MW-8	03/15/07			63.60		3,851.59
MW-8	04/04/07			63.40		3,851.79
MW-8	04/11/07			63.90		3,851.29
MW-8	04/18/07			63.62		3,851.57
MW-8	04/24/07			63.62		3,851.57
MW-8	05/22/07			63.64		3,851.55
MW-8	06/19/07			63.60		3,851.59
MW-8	08/08/07			63.60		3,851.59
MW-8	08/17/07			63.64		3,851.55
MW-8	08/24/07			63.63		3,851.56
MW-8	09/19/07			63.66		3,851.53
MW-8	10/03/07			63.67		3,851.52
MW-8	11/15/07			63.41		3,851.78
MW-8	12/03/07			63.76		3,851.43
MW-8	03/18/08			63.85		3,851.34
MW-8	04/11/08			63.85		3,851.34
MW-8	05/09/08			63.86		3,851.33
MW-8	06/03/08			63.88		3,851.31
MW-8	06/26/08			63.93		3,851.26
MW-8	08/28/08			63.95		3,851.24
MW-8	09/20/08			64.00		3,851.19
MW-8	10/29/08			64.02		3,851.17
MW-8	12/23/08			64.02		3,851.17
MW-8	01/22/09			64.03		3,851.16
MW-8	02/25/09			64.03		3,851.16
MW-8	04/16/09			64.06		3,851.13
MW-8	06/04/09			64.09		3,851.10
MW-8	08/19/09			64.17		3,851.02
MW-8	12/15/09			64.16		3,851.03
MW-8	02/25/10			64.20		3,850.99
MW-8	06/15/10			64.26		3,850.93
MW-8	09/13/10			64.28		3,850.91
MW-8	12/14/10			64.38		3,850.81
MW-8	03/09/11			64.41		3,850.78



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-8	06/21/11			64.41		3,850.78
MW-8	09/27/11			64.48		3,850.71
MW-8	01/03/12			64.39		3,850.80
MW-9	11/18/04	3,913.92	TD=75.21	63.48		3,850.44
MW-9	12/13/04			63.29		3,850.63
MW-9	12/20/04			63.32		3,850.60
MW-9	01/10/05			63.30		3,850.62
MW-9	01/25/05			63.27		3,850.65
MW-9	02/18/05			63.23		3,850.69
MW-9	03/30/05			63.19		3,850.73
MW-9	05/03/05			63.21		3,850.71
MW-9	05/20/05			63.18		3,850.74
MW-9	08/23/05			63.13		3,850.79
MW-9	11/22/05			63.20		3,850.72
MW-9	01/16/06			63.17		3,850.75
MW-9	02/17/06			62.68		3,851.24
MW-9	03/17/06			62.65		3,851.27
MW-9	03/24/06			62.66		3,851.26
MW-9	04/13/06			63.19		3,850.73
MW-9	05/12/06			63.22		3,850.70
MW-9	05/30/06			63.14		3,850.78
MW-9	06/09/06			62.64		3,851.28
MW-9	07/07/06			63.26		3,850.66
MW-9	07/14/06			63.27		3,850.65
MW-9	08/08/06			63.16		3,850.76
MW-9	08/25/06			63.37		3,850.55
MW-9	09/15/06			63.19		3,850.73
MW-9	09/29/06			63.25		3,850.67
MW-9	10/13/06			63.23		3,850.69
MW-9	10/20/06			63.20		3,850.72
MW-9	10/27/06			63.29		3,850.63
MW-9	11/10/06			62.79		3,851.13
MW-9	11/20/06			63.27		3,850.65
MW-9	12/01/06			63.31		3,850.61
MW-9	12/08/06			63.29		3,850.63



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-9	12/15/06			63.31		3,850.61
MW-9	12/27/06			63.37		3,850.55
MW-9	01/05/07			63.33		3,850.59
MW-9	01/15/07			63.36		3,850.56
MW-9	01/29/07			63.37		3,850.55
MW-9	02/08/07			63.12		3,850.80
MW-9	02/20/07			63.41		3,850.51
MW-9	03/06/07			63.02		3,850.90
MW-9	03/15/07			62.92		3,851.00
MW-9	03/15/07			62.94		3,850.98
MW-9	04/04/07			62.70		3,851.22
MW-9	04/11/07			62.94		3,850.98
MW-9	04/18/07			62.92		3,851.00
MW-9	04/24/07			62.96		3,850.96
MW-9	05/22/07			62.96		3,850.96
MW-9	06/19/07			62.91		3,851.01
MW-9	08/08/07			62.91		3,851.01
MW-9	08/17/07			62.94		3,850.98
MW-9	08/24/07			62.69		3,851.23
MW-9	09/19/07			62.98		3,850.94
MW-9	10/03/07			62.98		3,850.94
MW-9	11/15/07			63.13		3,850.79
MW-9	12/03/07			63.08		3,850.84
MW-9	03/18/08			63.21		3,850.71
MW-9	04/11/08			63.19		3,850.73
MW-9	05/09/08			63.19		3,850.73
MW-9	06/03/08			63.19		3,850.73
MW-9	06/26/08			63.26		3,850.66
MW-9	08/28/08			63.28		3,850.64
MW-9	09/20/08			63.32		3,850.60
MW-9	10/29/08			63.32		3,850.60
MW-9	12/23/08			63.33		3,850.59
MW-9	01/22/09			63.35		3,850.57
MW-9	02/25/09			63.35		3,850.57
MW-9	04/16/09			63.38		3,850.54
MW-9	06/04/09			64.40		3,849.52



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-9	08/19/09			63.48		3,850.44
MW-9	12/15/09			63.47		3,850.45
MW-9	02/25/10			63.50		3,850.42
MW-9	06/15/10			63.58		3,850.34
MW-9	09/13/10			63.89		3,850.03
MW-9	12/14/10			64.25		3,849.67
MW-9	03/09/11			64.15		3,849.77
MW-9	06/24/11			64.20		3,849.72
MW-9	09/27/11			63.76		3,850.16
MW-9	01/03/12			63.69		3,850.23
MW-10	11/18/04	3,914.96	72.82	63.73		3,851.23
MW-10	12/13/04			63.89		3,851.07
MW-10	12/20/04			63.92		3,851.04
MW-10	01/10/05			63.89		3,851.07
MW-10	01/25/05			63.86		3,851.10
MW-10	02/18/05			63.82		3,851.14
MW-10	03/30/05			63.75		3,851.21
MW-10	05/03/05			63.74		3,851.22
MW-10	05/20/05			63.72		3,851.24
MW-10	08/23/05			63.68		3,851.28
MW-10	11/22/05			63.40		3,851.56
MW-10	01/16/06			63.73		3,851.23
MW-10	02/17/06			63.75		3,851.21
MW-10	03/17/06			63.71		3,851.25
MW-10	03/24/06			63.70		3,851.26
MW-10	04/13/06			63.72		3,851.24
MW-10	05/12/06			63.74		3,851.22
MW-10	05/30/06			63.75		3,851.21
MW-10	06/09/06			63.69		3,851.27
MW-10	07/07/06			63.79		3,851.17
MW-10	07/14/06			63.78		3,851.18
MW-10	08/08/06			63.68		3,851.28
MW-10	08/25/06			63.92		3,851.04
MW-10	09/15/06			63.72		3,851.24
MW-10	09/29/06			63.77		3,851.19



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-10	10/13/06			63.71		3,851.25
MW-10	10/20/06			63.72		3,851.24
MW-10	10/27/06			63.81		3,851.15
MW-10	11/10/06			63.80		3,851.16
MW-10	12/01/06			63.83		3,851.13
MW-10	12/08/06			63.81		3,851.15
MW-10	12/15/06			63.84		3,851.12
MW-10	12/27/06			63.84		3,851.12
MW-10	01/05/07			63.86		3,851.10
MW-10	01/15/07			63.90		3,851.06
MW-10	01/29/07			63.90		3,851.06
MW-10	02/08/07			63.65		3,851.31
MW-10	02/20/07			63.95		3,851.01
MW-10	03/06/07			63.92		3,851.04
MW-10	03/15/07			63.96		3,851.00
MW-10	04/04/07			63.75		3,851.21
MW-10	04/11/07			63.96		3,851.00
MW-10	04/18/07			63.96		3,851.00
MW-10	04/24/07			63.97		3,850.99
MW-10	05/22/07			63.99		3,850.97
MW-10	06/19/07			63.96		3,851.00
MW-10	08/08/07			63.97		3,850.99
MW-10	08/17/07			63.98		3,850.98
MW-10	08/24/07			63.99		3,850.97
MW-10	09/19/07			63.99		3,850.97
MW-10	10/03/07			64.02		3,850.94
MW-10	11/15/07			64.09		3,850.87
MW-10	12/03/07			64.12		3,850.84
MW-10	03/18/08			64.21		3,850.75
MW-10	04/11/08			64.21		3,850.75
MW-10	05/09/08			64.23		3,850.73
MW-10	06/03/08			64.24		3,850.72
MW-10	06/26/08			64.30		3,850.66
MW-10	08/28/08			64.34		3,850.62
MW-10	09/20/08			64.38		3,850.58
MW-10	10/29/08			64.36		3,850.60



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-10	12/23/08			64.37		3,850.59
MW-10	01/22/09			64.40		3,850.56
MW-10	02/25/09			64.46		3,850.50
MW-10	04/16/09			64.43		3,850.53
MW-10	06/04/09			64.48		3,850.48
MW-10	08/19/09			64.55		3,850.41
MW-10	12/15/09			64.54		3,850.42
MW-10	02/25/10			64.59		3,850.37
MW-10	06/15/10			64.65		3,850.31
MW-10	09/13/10			64.68		3,850.28
MW-10	12/14/10			64.80		3,850.16
MW-10	03/09/11			64.80		3,850.16
MW-10	06/21/11			64.82		3,850.14
MW-10	09/27/11			64.85		3,850.11
MW-10	01/03/12			64.99		3,849.97
MW-11	11/18/04	3,914.40	TD=70.87			
MW-11	12/13/04			63.31		3,851.09
MW-11	12/20/04			63.33		3,851.07
MW-11	01/10/05			63.31		3,851.09
MW-11	01/25/05			63.29		3,851.11
MW-11	02/18/05			63.32		3,851.08
MW-11	03/30/05			63.16		3,851.24
MW-11	05/03/05			63.19		3,851.21
MW-11	05/20/05			63.14		3,851.26
MW-11	08/23/05			63.11		3,851.29
MW-11	11/22/05			63.05		3,851.35
MW-11	01/16/06			63.11		3,851.29
MW-11	02/17/06			63.12		3,851.28
MW-11	03/17/06			63.10		3,851.30
MW-11	03/24/06			63.11		3,851.29
MW-11	04/13/06			63.13		3,851.27
MW-11	05/12/06			63.11		3,851.29
MW-11	05/30/06			63.15		3,851.25
MW-11	06/09/06			63.10		3,851.30
MW-11	07/07/06			63.20		3,851.20



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-11	07/14/06			63.21		3,851.19
MW-11	08/08/06			63.05		3,851.35
MW-11	08/25/06			63.29		3,851.11
MW-11	09/15/06			63.12		3,851.28
MW-11	09/29/06			63.19		3,851.21
MW-11	10/13/06			63.16		3,851.24
MW-11	10/20/06			67.09		3,847.31
MW-11	10/27/06			63.41		3,850.99
MW-11	11/10/06			63.21		3,851.19
MW-11	11/20/06			63.19		3,851.21
MW-11	12/01/06			63.25		3,851.15
MW-11	12/08/06			63.24		3,851.16
MW-11	12/15/06			63.26		3,851.14
MW-11	12/27/06			63.29		3,851.11
MW-11	01/05/07			63.23		3,851.17
MW-11	01/15/07			63.28		3,851.12
MW-11	01/29/07			63.28		3,851.12
MW-11	02/08/07			63.02		3,851.38
MW-11	02/20/07			63.31		3,851.09
MW-11	03/06/07			63.36		3,851.04
MW-11	03/15/07			63.31		3,851.09
MW-11	04/04/07			63.11		3,851.29
MW-11	04/11/07			63.35		3,851.05
MW-11	04/18/07			63.35		3,851.05
MW-11	04/24/07			63.35		3,851.05
MW-11	05/22/07			63.36		3,851.04
MW-11	06/19/07			63.33		3,851.07
MW-11	08/08/07			63.34		3,851.06
MW-11	08/17/07			63.36		3,851.04
MW-11	08/24/07			63.36		3,851.04
MW-11	09/19/07			63.88		3,850.52
MW-11	10/03/07			63.39		3,851.01
MW-11	11/15/07			63.47		3,850.93
MW-11	12/03/07			63.52		3,850.88
MW-11	03/18/08			63.59		3,850.81
MW-11	04/11/08			63.59		3,850.81



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-11	05/09/08			63.61		3,850.79
MW-11	06/03/08			63.62		3,850.78
MW-11	06/26/08			63.68		3,850.72
MW-11	08/28/08			63.70		3,850.70
MW-11	09/20/08			63.76		3,850.64
MW-11	10/29/08			63.74		3,850.66
MW-11	12/23/08			63.75		3,850.65
MW-11	01/22/09			63.78		3,850.62
MW-11	02/25/09			63.79		3,850.61
MW-11	04/16/09			63.81		3,850.59
MW-11	06/04/09			63.86		3,850.54
MW-11	08/19/09			63.93		3,850.47
MW-11	12/1/10			63.91		3,850.49
MW-11	02/25/10			63.95		3,850.45
MW-11	06/15/10			64.02		3,850.38
MW-11	09/13/10			64.60		3,849.80
MW-11	12/14/10			64.17		3,850.23
MW-11	03/09/11			64.16		3,850.24
MW-11	06/21/11			64.19		3,850.21
MW-11	09/27/11			64.25		3,850.15
MW-11	01/03/12			64.14		3,850.26
MW-12	07/07/06			63.34		
MW-12	07/14/06			63.35		
MW-12	07/21/06			63.37		
MW-12	07/27/06			63.33		
MW-12	08/08/06			63.21		
MW-12	08/25/06			63.48		
MW-12	09/15/06			63.27		
MW-12	10/13/06			63.31		
MW-12	10/20/06			63.28		
MW-12	10/27/06			63.37		
MW-12	11/10/06			63.36		
MW-12	11/20/06			63.34		
MW-12	12/01/06			63.40		
MW-12	12/08/06			63.35		



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-12	12/15/06			63.38		
MW-12	12/27/06			63.40		
MW-12	01/05/07			63.41		
MW-12	01/15/07			63.48		
MW-12	01/29/07			63.46		
MW-12	02/08/07			63.22		
MW-12	02/20/07			63.50		
MW-12	03/06/07			63.47		
MW-12	03/15/07			63.51		
MW-12	04/04/07			63.32		
MW-12	04/11/07			63.54		
MW-12	04/18/07			63.52		
MW-12	04/24/07			63.53		
MW-12	05/22/07			63.55		
MW-12	06/19/07			63.52		
MW-12	08/08/07	3,913.97	TD=77.74	63.53		3,850.44
MW-12	08/17/07			63.57		3,850.40
MW-12	08/24/07			63.55		3,850.42
MW-12	09/19/07			63.57		3,850.40
MW-12	10/03/07			63.57		3,850.40
MW-12	11/15/07			63.68		3,850.29
MW-12	12/03/07			63.67		3,850.30
MW-12	03/18/08			63.78		3,850.19
MW-12	04/11/08			63.79		3,850.18
MW-12	05/09/08			63.79		3,850.18
MW-12	06/03/08			63.80		3,850.17
MW-12	06/26/08			63.86		3,850.11
MW-12	08/28/08			63.98		3,849.99
MW-12	09/20/08			63.94		3,850.03
MW-12	10/29/08			63.93		3,850.04
MW-12	12/23/08			63.94		3,850.03
MW-12	01/22/09			63.97		3,850.00
MW-12	02/25/09			63.98		3,849.99
MW-12	04/16/09			64.00		3,849.97
MW-12	06/04/09			64.04		3,849.93
MW-12	08/19/09			64.11		3,849.86



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-12	12/15/09			64.10		3,849.87
MW-12	02/25/10			64.14		3,849.83
MW-12	06/15/10			64.22		3,849.75
MW-12	09/13/10			64.22		3,849.75
MW-12	12/14/10			64.36		3,849.61
MW-12	03/09/11			64.37		3,849.60
MW-12	06/21/11			64.38		3,849.59
MW-12	09/27/11			64.44		3,849.53
MW-12	01/03/12			64.36		3,849.61
MW-13	07/07/06		63.35	67.01	3.66	
MW-13	07/14/06		63.37	67.00	3.63	
MW-13	07/21/06		63.31	67.06	3.75	
MW-13	07/28/06		63.28	67.23	3.95	
MW-13	08/25/06		63.51	67.09	3.58	
MW-13	09/15/06		62.79	68.96	6.17	
MW-13	09/29/06		62.90	67.05	4.15	
MW-13	10/06/06		63.10	68.07	4.97	
MW-13	10/13/06		62.93	68.81	5.88	
MW-13	10/20/06		63.00	67.90	4.90	
MW-13	10/27/06		62.97	67.77	4.80	
MW-13	11/03/06		63.39	67.09	3.70	
MW-13	11/10/06		62.97	67.80	4.83	
MW-13	11/20/06		63.01	68.47	5.46	
MW-13	12/01/06		62.94	68.90	5.96	
MW-13	12/08/06		62.92	67.68	4.76	
MW-13	12/15/06		63.11	68.33	5.22	
MW-13	12/27/06		62.86	67.81	4.95	
MW-13	01/05/07		62.87	67.79	4.92	
MW-13	01/15/07		63.03	68.11	5.08	
MW-13	01/29/07		63.08	69.00	5.92	
MW-13	02/08/07		63.03	68.89	5.86	
MW-13	02/20/07		63.10	69.09	5.99	
MW-13	03/06/07		63.09	68.41	5.32	
MW-13	03/15/07		63.06	69.05	5.99	
MW-13	04/04/07		63.12	69.05	5.93	



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-13	04/11/07		63.11	69.14	6.03	
MW-13	04/18/07		63.10	69.09	5.99	
MW-13	04/24/07		63.96	68.02	4.06	
MW-13	05/22/07		63.15	69.14	5.99	
MW-13	06/19/07		63.16	69.60	6.44	
MW-13	08/08/07	3,915.83	63.08	69.13	6.05	3,851.75
MW-13	08/17/07		63.14	68.96	5.82	3,851.73
MW-13	08/24/07		63.21	68.57	5.36	3,851.74
MW-13	09/19/07		63.10	69.12	6.02	3,851.74
MW-13	10/03/07		63.19	69.14	5.95	3,851.66
MW-13	10/11/07		63.24	68.81	5.57	3,851.67
MW-13	10/18/07		63.29	68.56	5.27	3,851.67
MW-13	12/03/07		63.17	69.22	6.05	3,851.66
MW-13	01/02/08		61.59	69.37	7.78	3,852.96
MW-13	02/07/08		63.36	69.46	6.10	3,851.46
MW-13	02/11/08		63.35	68.47	5.12	3,851.64
MW-13	03/18/08		63.45	69.36	5.91	3,851.40
MW-13	04/02/08		63.47	69.46	5.99	3,851.37
MW-13	04/11/08		63.31	69.47	6.16	3,851.50
MW-13	04/14/08		63.75	68.22	4.47	3,851.34
MW-13	04/29/08		64.34	65.65	1.31	3,851.27
MW-13	05/07/08		64.41	65.63	1.22	3,851.22
MW-13	05/12/08		64.30	66.07	1.77	3,851.24
MW-13	06/03/08		64.54	65.71	1.17	3,851.10
MW-13	06/26/08		64.69	65.96	1.27	3,850.93
MW-13	08/28/08		63.96	67.14	3.18	3,851.35
MW-13	09/20/08		64.06	66.88	2.82	3,851.30
MW-13	10/29/08		64.26	65.87	1.61	3,851.30
MW-13	12/23/08		64.41	65.30	0.89	3,851.27
MW-13	01/22/09		63.75	68.45	4.70	3,851.30
MW-13	02/25/09		64.55	64.78	0.23	3,851.24
MW-13	04/16/09		64.08	64.31	0.23	3,851.71
MW-13	06/04/09		63.91	67.85	3.94	3,851.27
MW-13	08/19/09		64.24	66.82	2.58	3,851.16
MW-13	12/15/09		64.62	66.81	2.19	3,850.85
MW-13	02/25/10		64.34	69.01	4.67	3,850.72



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-13	06/15/10		64.40	68.99	4.59	3,850.67
MW-13	09/13/10		64.08	68.55	4.47	3,851.01
MW-13	12/14/10		64.93	66.93	2.00	3,850.57
MW-13	03/09/11		64.52	66.73	2.21	3,850.95
MW-13	06/21/11		64.63	66.55	1.92	3,850.88
MW-13	09/27/11		64.19	68.92	4.73	3,850.86
MW-13	01/03/12		64.41	68.33	3.92	3,850.77
MW-14	07/07/06		63.97	64.15	0.18	
MW-14	07/14/06		63.96	64.16	0.20	
MW-14	07/21/06		63.87	64.45	0.58	
MW-14	07/28/06		63.80	64.64	0.84	
MW-14	08/25/06		64.09	64.81	0.72	
MW-14	09/15/06		63.45	65.92	2.47	
MW-14	09/29/06		63.45	66.56	3.11	
MW-14	10/06/06		63.68	65.29	1.61	
MW-14	10/13/06		63.56	65.15	1.59	
MW-14	10/20/06		63.92	65.66	1.74	
MW-14	10/27/06		63.62	65.59	1.97	
MW-14	11/03/06		63.97	66.99	3.02	
MW-14	11/10/06		63.42	66.39	2.97	
MW-14	11/20/06		63.77	65.51	1.74	
MW-14	12/01/06		63.51	66.21	2.70	
MW-14	12/08/06		63.43	65.66	2.23	
MW-14	12/15/06		63.39	66.96	3.57	
MW-14	12/27/06		63.37	65.79	2.42	
MW-14	01/05/07		63.41	65.72	2.31	
MW-14	01/15/07		63.18	67.39	4.21	
MW-14	01/29/07		63.71	66.20	2.49	
MW-14	02/08/07		63.64	65.64	2.00	
MW-14	02/20/07		62.30	68.28	5.98	
MW-14	03/06/07		63.09	68.41	5.32	
MW-14	03/15/07		63.50	66.93	3.43	
MW-14	04/04/07		63.73	66.40	2.67	
MW-14	04/11/07		63.55	66.86	3.31	
MW-14	04/18/07		64.44	67.35	2.91	



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-14	04/24/07		63.81	65.67	1.86	
MW-14	05/22/07		63.61	66.68	3.07	
MW-14	06/19/07		63.32	68.28	4.96	
MW-14	08/08/07	3,915.72	63.06	69.04	5.98	3,851.67
MW-14	08/17/07		63.45	67.34	3.89	3,851.63
MW-14	08/24/07		63.87	65.34	1.47	3,851.61
MW-14	09/19/07		63.63	66.91	3.28	3,851.55
MW-14	10/03/07		63.50	67.46	3.96	3,851.57
MW-14	10/11/07		63.92	65.47	1.55	3,851.54
MW-14	10/18/07		63.80	65.98	2.18	3,851.56
MW-14	12/03/07		63.31	68.60	5.29	3,851.54
MW-14	01/02/08		63.33	69.28	5.95	3,851.41
MW-14	02/07/08		63.63	68.03	4.40	3,851.36
MW-14	02/11/08		63.63	68.02	4.39	3,851.37
MW-14	03/18/08		63.92	66.85	2.93	3,851.32
MW-14	04/02/08		64.04	66.84	2.80	3,851.22
MW-14	04/11/08		64.34	64.42	0.08	3,851.37
MW-14	04/14/08		64.50	64.69	0.19	3,851.19
MW-14	04/29/08		64.54	64.73	0.19	3,851.15
MW-14	05/07/08		64.56	64.72	0.16	3,851.13
MW-14	05/12/08		64.54	64.70	0.16	3,851.15
MW-14	06/03/08		64.66	64.84	0.18	3,851.03
MW-14	06/26/08		64.82	64.98	0.16	3,850.87
MW-14	07/23/08		64.52	64.68	0.16	3,851.17
MW-14	08/28/08		64.45	64.50	0.05	3,851.26
MW-14	09/20/08		64.51	64.66	0.15	3,851.19
MW-14	10/29/08		64.46	64.79	0.33	3,851.21
MW-14	12/23/08		64.48	64.73	0.25	3,851.20
MW-14	01/22/09		64.41	65.20	0.79	3,851.18
MW-14	02/25/09		64.54	64.57	0.03	3,851.18
MW-14	04/16/09		64.56	64.67	0.11	3,851.14
MW-14	06/04/09		64.56	64.94	0.38	3,851.10
MW-14	08/19/09		64.68	64.88	0.20	3,851.01
MW-14	12/15/09		64.98	65.10	0.12	3,850.72
MW-14	02/25/10		65.07	65.51	0.44	3,850.58
MW-14	06/15/10		65.14	65.43	0.29	3,850.53



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOC D REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-14	09/13/10		65.22	65.45	0.23	3,850.46
MW-14	12/14/10		64.78	65.50	0.72	3,850.82
MW-14	03/09/11		64.83	65.45	0.62	3,850.79
MW-14	06/21/11		64.84	65.41	0.57	3,850.79
MW-14	09/27/11		64.59	66.79	2.20	3,850.77
MW-14	01/03/12		64.95	65.72	0.77	3,850.64
MW-15	07/07/06			63.75		
MW-15	07/14/06			63.76		
MW-15	07/21/06			63.74		
MW-15	08/08/06			63.61		
MW-15	08/25/06			63.88		
MW-15	09/15/06			63.68		
MW-15	09/29/06			64.73		
MW-15	10/06/06			63.73		
MW-15	10/13/06			63.71		
MW-15	10/20/06			63.66		
MW-15	10/27/06			63.74		
MW-15	11/10/06			63.74		
MW-15	11/20/06			63.74		
MW-15	12/01/06			63.78		
MW-15	12/08/06			63.78		
MW-15	12/15/06			63.79		
MW-15	12/27/06			63.85		
MW-15	01/05/07			63.81		
MW-15	01/15/07			63.86		
MW-15	01/29/07			63.87		
MW-15	02/08/07		63.76	63.77	0.01	
MW-15	02/20/07			63.88		
MW-15	03/06/07		62.27	68.14	5.87	
MW-15	03/15/07		63.88	63.93	0.05	
MW-15	04/04/07		63.94	64.02	0.08	
MW-15	04/11/07		63.90	64.01	0.11	
MW-15	04/18/07		63.91	63.98	0.07	
MW-15	04/24/07		63.90	63.97	0.07	
MW-15	05/22/07		63.91	64.01	0.10	



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SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-15	06/19/07		63.96	64.10	0.14	
MW-15	08/08/07	3,915.84	63.84	64.06	0.22	3,851.96
MW-15	08/17/07		63.90	64.10	0.20	3,851.91
MW-15	08/24/07		63.88	64.10	0.22	3,851.92
MW-15	09/19/07		63.90	64.10	0.20	3,851.91
MW-15	10/03/07		63.93	64.20	0.27	3,851.87
MW-15	10/11/07		63.88	64.17	0.29	3,851.91
MW-15	10/18/07		63.87	64.23	0.36	3,851.91
MW-15	12/03/07		63.94	64.41	0.47	3,851.82
MW-15	01/02/08		64.06	64.64	0.58	3,851.68
MW-15	02/07/08		64.06	64.79	0.73	3,851.66
MW-15	02/11/08		64.06	67.78	3.72	3,851.17
MW-15	03/18/08		64.08	64.94	0.86	3,851.62
MW-15	04/02/08		64.27	64.37	0.10	3,851.55
MW-15	04/11/08		64.12	64.30	0.18	3,851.69
MW-15	04/14/08		64.29	69.43	5.14	3,850.70
MW-15	04/29/08		64.29	64.56	0.27	3,851.51
MW-15	05/07/08		64.31	64.62	0.31	3,851.48
MW-15	05/12/08		64.29	64.63	0.34	3,851.49
MW-15	06/03/08		64.41	64.85	0.44	3,851.36
MW-15	06/26/08		64.54	65.07	0.53	3,851.21
MW-15	08/28/08		64.12	64.92	0.80	3,851.59
MW-15	09/20/08		64.15	65.03	0.88	3,851.54
MW-15	10/29/08		64.28	64.38	0.10	3,851.54
MW-15	12/23/08		64.26	64.51	0.25	3,851.54
MW-15	01/22/09		64.31	64.43	0.12	3,851.51
MW-15	02/25/09		64.30	64.51	0.21	3,851.51
MW-15	04/16/09		64.34	64.46	0.12	3,851.48
MW-15	06/04/09		64.36	64.50	0.14	3,851.46
MW-15	08/19/09		64.45	64.69	0.24	3,851.35
MW-15	12/15/09		64.70	65.03	0.33	3,851.09
MW-15	02/25/10		64.88	65.01	0.13	3,850.94
MW-15	06/15/10		64.92	65.11	0.19	3,850.89
MW-15	09/13/10		64.94	65.12	0.18	3,850.87
MW-15	12/14/10		64.66	64.87	0.21	3,851.15
MW-15	03/09/11		64.67	64.93	0.26	3,851.13



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PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-15	06/21/11		64.69	64.93	0.24	3,851.11
MW-15	09/27/11		64.75	65.04	0.29	3,851.04
MW-15	01/03/12		64.83	64.93	0.10	3,850.99
MW-16	07/07/06			63.60		
MW-16	07/14/06			63.62		
MW-16	07/21/06			63.57		
MW-16	08/08/06			63.47		
MW-16	09/15/06		63.56	63.58	0.06	
MW-16	09/29/06		63.54	63.64	0.10	
MW-16	10/06/06		63.53	63.68	0.15	
MW-16	10/13/06		63.50	63.59	0.09	
MW-16	10/20/06		63.67	64.19	0.52	
MW-16	10/27/06		63.55	63.77	0.22	
MW-16	11/10/06		63.51	63.79	0.28	
MW-16	11/20/06		63.51	63.62	0.11	
MW-16	12/01/06		63.54	63.64	0.10	
MW-16	12/08/06		63.60	63.62	0.02	
MW-16	12/15/06			63.63		
MW-16	12/27/06			63.69		
MW-16	01/05/07			63.69		
MW-16	01/15/07			63.76		
MW-16	01/29/07			63.89		
MW-16	02/08/07		63.55	63.91	0.36	
MW-16	02/20/07		63.62	64.10	0.48	
MW-16	03/06/07		63.61	64.28	0.67	
MW-16	03/15/07		63.60	64.33	0.73	
MW-16	04/04/07		63.58	64.59	1.01	
MW-16	04/11/07		63.55	64.59	1.04	
MW-16	04/18/07		63.56	64.67	1.11	
MW-16	04/24/07		63.55	64.72	1.17	
MW-16	05/22/07		63.31	64.96	1.65	
MW-16	06/19/07		63.52	65.28	1.76	
MW-16	08/08/07	3,915.43	63.39	65.59	2.20	3,851.68
MW-16	08/17/07		63.44	65.28	1.84	3,851.69
MW-16	08/24/07		63.42	65.30	1.88	3,851.70



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-16	09/19/07		63.57	64.76	1.19	3,851.66
MW-16	10/03/07		63.57	64.99	1.42	3,851.63
MW-16	10/11/07		63.72	64.26	0.54	3,851.62
MW-16	10/18/07		63.69	64.37	0.68	3,851.63
MW-16	12/03/07		63.57	65.21	1.64	3,851.59
MW-16	01/02/08		63.59	65.87	2.28	3,851.46
MW-16	02/07/08		63.69	65.67	1.98	3,851.41
MW-16	02/11/08		63.68	65.66	1.98	3,851.42
MW-16	03/18/08		64.03	64.20	0.17	3,851.37
MW-16	04/02/08		64.02	64.68	0.66	3,851.30
MW-16	04/11/08		63.83	64.77	0.94	3,851.44
MW-16	04/14/08		64.14	64.27	0.13	3,851.27
MW-16	04/29/08		64.16	64.30	0.14	3,851.25
MW-16	05/07/08		64.17	64.31	0.14	3,851.24
MW-16	05/12/08		64.16	64.31	0.15	3,851.25
MW-16	06/03/08		64.30	64.44	0.14	3,851.11
MW-16	06/26/08		64.45	64.59	0.14	3,850.96
MW-16	07/23/08		64.12	64.28	0.16	3,851.28
MW-16	08/28/08		64.09	64.23	0.14	3,851.32
MW-16	09/20/08		64.11	64.22	0.11	3,851.30
MW-16	10/29/08		63.97	64.95	0.98	3,851.30
MW-16	12/23/08		64.11	64.29	0.18	3,851.29
MW-16	01/22/09		64.11	64.46	0.35	3,851.26
MW-16	02/25/09		64.17	64.29	0.12	3,851.24
MW-16	04/16/09		64.06	64.91	0.85	3,851.23
MW-16	06/04/09		63.99	65.41	1.42	3,851.21
MW-16	08/19/09		64.30	64.45	0.15	3,851.11
MW-16	12/15/09		64.55	64.68	0.13	3,850.86
MW-16	02/25/10		64.61	65.34	0.73	3,850.70
MW-16	06/15/10		64.76	64.89	0.13	3,850.65
MW-16	09/13/10		64.43	64.57	0.14	3,850.98
MW-16	12/14/10		64.44	64.91	0.47	3,850.91
MW-16	03/09/11		64.46	64.86	0.40	3,850.90
MW-16	06/21/11		64.51	64.69	0.18	3,850.89
MW-16	09/27/11		64.46	65.38	0.92	3,850.82
MW-16	01/03/12		64.61	65.00	0.39	3,850.76



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-17	07/07/06		63.30	65.54	2.24	
MW-17	07/14/06		63.29	65.55	2.26	
MW-17	07/21/06		63.28	65.56	2.28	
MW-17	07/28/06		63.21	65.87	2.66	
MW-17	08/25/06		63.39	65.69	2.30	
MW-17	09/15/06		62.66	68.07	5.41	
MW-17	09/29/06		62.75	67.95	5.20	
MW-17	10/06/06		63.02	66.70	3.68	
MW-17	10/13/06		62.80	67.78	4.98	
MW-17	10/20/06		63.34	66.72	3.38	
MW-17	10/27/06		62.82	67.74	4.92	
MW-17	11/03/06		63.62	65.91	2.29	
MW-17	11/10/06		62.88	66.89	4.01	
MW-17	11/20/06		62.85	67.47	4.62	
MW-17	12/01/06		62.74	68.20	5.46	
MW-17	12/08/06		62.74	67.25	4.51	
MW-17	12/15/06		63.01	67.05	4.04	
MW-17	12/27/06		62.66	67.41	4.75	
MW-17	01/05/07		62.71	67.46	4.75	
MW-17	01/15/07		62.81	67.21	4.40	
MW-17	01/29/07		62.85	68.26	5.41	
MW-17	02/08/07		62.82	67.92	5.10	
MW-17	02/20/07		62.82	68.39	5.57	
MW-17	03/06/07		62.82	68.38	5.56	
MW-17	03/15/07		62.87	68.38	5.51	
MW-17	04/04/07		62.93	68.38	5.45	
MW-17	04/11/07		62.81	68.45	5.64	
MW-17	04/18/07		62.90	68.44	5.54	
MW-17	04/24/07		63.24	68.49	5.25	
MW-17	05/22/07		62.91	68.28	5.37	
MW-17	06/19/07		62.92	68.84	5.92	
MW-17	08/08/07	3,915.59	62.89	68.42	5.53	3,851.79
MW-17	08/17/07		62.92	68.26	5.34	3,851.79
MW-17	08/24/07		62.97	68.01	5.04	3,851.79
MW-17	09/19/07		62.90	68.39	5.49	3,851.78



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-17	10/03/07		62.95	68.47	5.52	3,851.73
MW-17	10/11/07		62.98	68.27	5.29	3,851.74
MW-17	10/18/07		63.03	68.11	5.08	3,851.72
MW-17	12/03/07		62.97	68.49	5.52	3,851.71
MW-17	01/02/08		63.11	68.64	5.53	3,851.57
MW-17	02/07/08		63.11	68.74	5.63	3,851.55
MW-17	03/18/08		63.48	67.44	3.96	3,851.46
MW-17	04/02/08		63.62	67.05	3.43	3,851.40
MW-17	04/11/08		63.58	63.58	0.00	3,852.01
MW-17	04/14/08		63.46	67.91	4.45	3,851.40
MW-17	04/29/08		64.24	64.46	0.22	3,851.31
MW-17	05/07/08		64.30	64.36	0.06	3,851.28
MW-17	05/12/08		64.30	64.34	0.04	3,851.28
MW-17	06/03/08		64.42	64.52	0.10	3,851.15
MW-17	06/26/08		64.56	64.73	0.17	3,851.00
MW-17	07/23/08		64.24	64.41	0.17	3,851.32
MW-17	08/28/08		64.18	64.38	0.20	3,851.38
MW-17	09/20/08		64.22	64.41	0.19	3,851.34
MW-17	10/29/08		63.92	65.71	1.79	3,851.37
MW-17	12/23/08		64.08	65.10	1.02	3,851.34
MW-17	01/22/09		64.10	65.09	0.99	3,851.33
MW-17	02/25/09		64.25	64.47	0.22	3,851.30
MW-17	04/16/09		63.98	65.80	1.82	3,851.31
MW-17	06/04/09		63.70	67.18	3.48	3,851.32
MW-17	08/19/09		63.81	67.17	3.36	3,851.23
MW-17	12/15/09		64.16	67.26	3.10	3,850.92
MW-17	02/25/10		64.14	68.15	4.01	3,850.79
MW-17	06/15/10		64.27	67.81	3.54	3,850.74
MW-17	09/13/10		63.93	64.41	0.48	3,851.58
MW-17	12/14/10		64.26	66.33	2.07	3,850.99
MW-17	03/09/11		64.04	67.49	3.45	3,850.98
MW-17	06/21/11		64.31	66.33	2.02	3,850.95
MW-17	09/27/11		64.00	68.16	4.16	3,850.90
MW-17	01/03/12		64.19	67.77	3.58	3,850.81
MW-18	06/15/10	Installed Monitor Well				



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 70037.051.01

Monitor Well	Date Gauged	Relative Top of Casing Elevation (ft amsl)	Depth to PSH Below Top of Casing (ft btoc)	Depth to Water Below Top of Casing (ft btoc)	Phase Separated Hydrocarbon Thickness (feet)	Corrected Relative Groundwater Elevation (ft amsl)
MW-18	09/28/10	3,912.90	TD=80.32			
MW-18	09/13/10			63.64		3,849.26
MW-18	12/14/10			63.75		3,849.15
MW-18	03/09/11			63.76		3,849.14
MW-18	06/21/11			63.90		3,849.00
MW-18	09/27/11			63.80		3,849.10
MW-18	01/03/12			63.74		3,849.16

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

SG=0.835

amsl = above mean sea level

btoc = below top of casing



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS# 2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW-1	03/04/03	0.135	0.0638	0.0588	0.0166	0.2742
MW-1	09/18/03	0.00928	2.86	<0.00100	<0.00200	2.86928
MW-1	06/04/04	0.0559	0.0212	0.00262	0.00573	0.08545
MW-1	09/10/04	0.0247	0.00365	<0.00100	0.00321	0.03156
MW-1	12/13/04	0.00137	0.00267	<0.00100	0.00245	0.00649
MW-1	03/30/05	<0.00100	<0.00100	<0.00100	<0.00300	<0.00300
MW-1	05/20/05	<0.00100	<0.00100	<0.00100	<0.00300	<0.00300
MW-1	08/23/05	<0.00100	<0.00100	<0.00100	<0.00300	<0.00300
MW-1	11/22/05	<0.00100	<0.00100	<0.00100	<0.00300	<0.00300
MW-1	02/17/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-1	05/30/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-1	08/08/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-1	11/20/06	0.00105	<0.00100	<0.00100	<0.00200	<0.00200
MW-1	04/04/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00200
MW-1	06/19/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00200
MW-1	09/19/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00200
MW-1	12/04/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00200
MW-1	03/18/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00200
MW-1	06/26/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00200
MW-1	09/20/08	0.00610	0.00250	<0.00100	<0.00100	0.00860
MW-1	12/23/08	0.00140	<0.00100	<0.00100	<0.00100	0.00140
MW-1	02/26/09	0.150	0.0114	0.0131	0.0259	0.2004
MW-1	06/04/09	0.0174	<0.00100	0.00670	<0.00100	0.0241
MW-1	08/19/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-1	12/16/09	<0.00100	<0.00100	0.00100	0.00330	0.00430
MW-1	02/25/10	0.00220	<0.00100	0.00100	0.00330	0.00430
MW-1	06/15/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-1	09/14/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-1	12/14/10	0.00600	0.00420	0.00360	0.01460	0.02840
MW-1	03/09/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-1	06/21/11	0.00190	<0.00100	<0.00100	<0.00100	0.0019
MW-1	09/27/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-1	01/04/12	0.00310	<0.00100	<0.00100	<0.00100	<0.00100
MW-2	03/04/03	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	09/18/03	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/04/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS# 2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW-2	09/10/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	12/13/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	03/30/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	05/20/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	08/23/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	11/22/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	05/30/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	08/08/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	11/20/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	04/04/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/19/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	09/19/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	12/04/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	03/18/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/26/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	09/20/08	15.4	7.25	0.975	2.52	26.1
MW-2	12/23/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	02/26/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/04/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	08/19/09	22.6	16.6	2.56	7.54	52.3
MW-2	12/16/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	02/25/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/15/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	09/14/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	12/14/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	03/10/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/21/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	09/27/11	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	01/04/12	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	03/04/03	7.48	4.667	0.669	1.820	14.64
MW-3	09/18/03	9.4	114	0.782	0.558	124.7
MW-3	06/04/04	4.6	2.87	0.541	1.07	9.1
MW-3	09/10/04	7.21	0.0733	0.833	0.000396	8.12
MW-3	12/13/04	16.1	0.747	4.0	1.47	22.3
MW-3	03/30/05	4.41	0.376	0.403	0.284	5.47
MW-3	05/20/05	25.7	0.744	2.3	1.837	30.6



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS# 2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW-3	08/23/05	6.15	0.076.3	0.58	0.0267	6.76
MW-3	11/22/05	9.97	0.486	0.586	0.254	11.30
MW-3	02/17/06	1.33	76.9	0.091	<0.100	78.321
MW-3	05/30/06	23.0	8.33	1.25	2.163	34.743
MW-3	08/08/06	13.7	3.66	0.881	1.868	20.109
MW-3	04/04/07	18.9	0.907	1.97	5.98	27.757
MW-3	06/19/07	14.2	0.707	1.32	3.02	19.247
MW-3	09/19/07	10.8	0.679	1.06	2.00	14.539
MW-3	12/04/07	12.2	0.762	1.16	1.78	15.902
MW-3	03/18/08	12.4	1.65	0.646	1.18	15.876
MW-3	06/26/08	11.2	1.410	0.655	0.775	14.040
MW-3	09/20/08	12.4	1.19	0.782	0.714	15.086
MW-3	12/23/08	7.97	0.437	0.412	0.294	9.113
MW-3	02/26/09	9.87	1.02	0.990	1.38	13.260
MW-3	06/04/09	6.39	0.515	0.380	<0.0500	7.285
MW-3	08/19/09	7.99	0.971	0.607	0.656	10.224
MW-3	12/16/09	6.09	0.568	0.316	0.129	7.103
MW-3	02/25/10	5.96	1.500	0.507	0.636	8.603
MW-3	06/15/10	4.29	<0.0500	0.332	0.415	5.037
MW-3	09/14/10	14.9	4.55	1.11	1.26	21.820
MW-3	12/14/10	3.32	0.870	0.387	0.081	4.658
MW-3	03/10/11	4.44	0.964	0.792	1.420	7.616
MW-3	06/21/11	2.29	0.672	0.553	0.964	4.479
MW-3	09/27/11	2.95	0.468	0.314	0.451	4.183
MW-3	01/04/12	4.80	<0.100	0.417	0.041	5.258
MW-4	03/04/03	0.0385	0.0362	<0.00100	0.0015	0.0762
MW-4	09/18/03	0.00124	<0.00100	<0.00100	<0.00200	0.00124
MW-4	06/04/04	0.0262	0.00116	<0.00100	<0.00200	0.02736
MW-4	09/10/04	0.00101	<0.00100	<0.00100	<0.00200	0.00101
MW-4	12/13/04	0.00523	<0.00100	<0.00100	<0.00200	0.00523
MW-4	03/30/05	0.00389	<0.00100	<0.00100	<0.00200	0.00389
MW-4	05/20/05	0.00109	<0.00100	<0.00100	<0.00200	0.00109
MW-4	08/23/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-4	11/22/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-4	02/17/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-4	05/30/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS# 2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW-4	08/08/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-4	11/20/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-4	04/04/07	0.634	<0.100	0.152	<0.100	0.786
MW-4	06/19/07	0.414	0.0347	0.133	0.0151	0.597
MW-4	09/19/07	0.0179	<0.00500	<0.00500	<0.00500	0.0179
MW-4	12/04/07	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-4	03/18/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-4	06/26/08	0.0353	0.00370	0.00230	0.00290	0.0442
MW-4	09/20/08	0.0757	0.00930	0.00620	0.00720	0.0984
MW-4	12/23/08	0.00610	<0.00100	<0.00100	<0.00100	0.00610
MW-4	02/26/09	0.0168	<0.00100	<0.00100	<0.00100	0.0168
MW-4	06/04/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-4	08/19/09	0.00430	<0.00100	<0.00100	<0.00100	0.00430
MW-4	12/16/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-4	02/25/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-4	06/15/10	0.00130	<0.00100	<0.00100	<0.00100	0.0013
MW-4	09/14/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-4	12/14/10	<0.00100	<0.00100	<0.00100	0.00830	0.00830
MW-4	03/10/11	0.0711	0.06380	0.02070	0.05450	0.21010
MW-4	06/21/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-4	09/27/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-4	01/04/12	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	03/04/03	0.049	0.672	<0.00500	<0.010	0.721
MW-5	09/18/03	0.00312	<0.00100	<0.00100	<0.00200	0.00312
MW-5	06/04/04	0.0295	0.00184	<0.00100	<0.00200	0.03134
MW-5	09/10/04	0.00146	<0.00100	<0.00100	<0.00200	0.00146
MW-5	12/13/04	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-5	03/30/05	0.00217	<0.00100	<0.00100	<0.00200	0.00217
MW-5	05/20/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-5	08/23/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-5	11/22/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-5	02/17/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-5	05/30/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-5	08/08/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-5	11/20/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-5	04/04/07	<0.00100	<0.00100	0.00150	<0.00100	<0.00100



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS# 2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW-5	06/19/07	0.00540	<0.00100	0.00770	<0.00100	0.01310
MW-5	09/19/07	0.0383	<0.00100	0.0724	<0.00100	0.1107
MW-5	12/04/07	0.0628	<0.00100	0.0894	<0.00100	0.1522
MW-5	03/18/08	0.0335	<0.00100	<0.00100	0.0492	0.0827
MW-5	06/26/08	0.0525	0.00350	0.00250	0.0267	0.0852
MW-5	09/20/08	0.0653	0.00580	0.00390	0.0469	0.1219
MW-5	12/23/08	0.00360	<0.00100	<0.00100	0.0117	0.01530
MW-5	02/26/09	0.0114	<0.00100	<0.00100	0.0271	0.0385
MW-5	06/04/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	08/19/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	12/16/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	02/25/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	06/15/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	09/14/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	12/14/10	<0.00100	<0.00100	<0.00100	0.00770	0.00770
MW-5	03/10/11	0.00670	0.00780	0.00650	0.01980	0.04080
MW-5	06/21/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	09/27/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	01/04/12	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	12/13/04	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-6	03/30/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-6	05/20/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-6	08/23/05	<0.00100	0.00112	<0.00100	<0.00200	0.00112
MW-6	11/22/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-6	02/17/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-6	05/30/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-6	08/08/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-6	11/20/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-6	04/04/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	06/19/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	09/19/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	12/04/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	03/18/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	06/26/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	09/20/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	12/23/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS# 2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW-6	06/04/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	08/19/09	0.0145	0.00680	<0.00100	<0.00100	0.0213
MW-6	12/16/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	02/25/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	06/15/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	09/15/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	12/14/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	03/09/11	0.00680	<0.00100	<0.00100	<0.00100	0.00680
MW-6	06/21/11	0.01170	0.00680	<0.00100	0.0205	0.03900
MW-6	09/27/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	01/04/12	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	12/13/04	0.0434	0.0212	0.0022	0.00893	0.07573
MW-7	03/30/05	0.00532	0.00265	<0.00100	<0.00200	0.00797
MW-7	05/20/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-7	08/23/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-7	11/22/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-7	02/17/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-7	05/30/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-7	08/08/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-7	11/20/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-7	04/04/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	06/19/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	09/19/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	12/04/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	03/18/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	06/26/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	09/20/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	12/23/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	02/26/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	06/04/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	08/19/09	0.0344	0.00870	0.0100	0.0197	0.0728
MW-7	12/16/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	02/25/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	06/15/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	09/15/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	12/14/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS# 2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW-7	03/09/11	0.00700	<0.00100	<0.00100	<0.00100	0.00700
MW-7	06/21/11	0.200	<0.00100	<0.00100	<0.00100	0.200
MW-7	09/27/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	01/04/12	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	12/13/04	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-8	03/30/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-8	05/20/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-8	08/23/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-8	11/22/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-8	02/17/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-8	05/30/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-8	08/08/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-8	11/20/06	0.00134	<0.00100	<0.00100	<0.00200	0.00134
MW-8	04/04/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	06/19/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	09/19/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	12/04/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	03/18/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	06/26/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	09/20/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	12/23/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	02/26/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	06/04/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	08/19/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	12/16/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	02/25/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	06/15/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	09/15/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	12/14/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	03/09/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	06/21/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	09/27/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	01/04/12	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	12/13/04	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-9	03/30/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS# 2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW-9	05/20/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-9	08/23/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-9	11/22/05	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-9	02/17/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-9	05/30/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-9	08/08/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-9	11/20/06	0.00125	<0.00100	<0.00100	<0.00200	0.00125
MW-9	04/04/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	06/19/07	0.00410	0.00230	0.00360	<0.00100	0.01000
MW-9	09/19/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	12/04/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	03/18/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	06/26/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	09/20/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	12/23/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	02/26/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	06/04/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	08/19/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	12/16/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	02/25/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	06/15/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	09/15/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	12/14/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	03/10/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	06/21/11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	09/27/11	0.364	<0.00500	<0.00500	<0.00500	0.364
MW-9	01/04/12	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-10	12/13/04	14.2	10.5	0.628	1.42	26.748
MW-10	03/30/05	13.9	1.64	0.901	1.95	18.391
MW-10	05/20/05	10.9	1.57	0.833	1.454	14.757
MW-10	08/23/05	12.2	1.39	0.858	1.188	15.636
MW-10	11/22/05	0.116	0.889	0.578	0.742	2.325
MW-10	02/17/06	17.2	3.85	0.981	1.139	23.170
MW-10	05/30/06	13.0	0.40	0.804	0.625	14.826
MW-10	08/08/06	11.2	0.02	0.710	1.030	12.957
MW-10	11/20/06	9.6	<50	0.705	<0.100	10.275



TABLE 2
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PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS# 2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW-10	04/04/07	10.4	0.458	<0.200	<0.200	10.858
MW-10	06/19/07	11.5	0.424	0.230	<0.100	12.154
MW-10	09/19/07	8.05	0.312	0.133	<0.100	8.495
MW-10	12/04/07	11.1	0.275	0.185	<0.0500	11.560
MW-10	03/18/08	9.80	<0.100	0.194	0.184	10.178
MW-10	06/26/08	8.7	<0.0500	0.159	0.0964	8.955
MW-10	09/20/08	7.7	<0.0500	<0.0500	<0.0500	7.700
MW-10	12/23/08	10.2	<0.0500	0.0955	0.0973	10.393
MW-10	02/26/09	14	<0.0500	<0.0500	1.21	15.210
MW-10	06/04/09	18.6	<0.0500	0.233	<0.0500	18.833
MW-10	08/19/09	16.9	<0.0500	0.446	0.981	18.327
MW-10	12/16/09	15.9	<0.0500	0.0988	<0.0500	15.999
MW-10	02/25/10	18.0	<0.0500	0.108	0.252	18.360
MW-10	06/15/10	25.3	<0.200	0.759	1.38	28.439
MW-10	09/15/10	45.6	<0.200	0.838	<0.200	46.438
MW-10	12/14/10	24.8	<0.200	<0.200	1.69	26.490
MW-10	03/10/11	10.4	<0.200	1.43	4.36	16.190
MW-10	06/21/11	25.1	<0.200	1.63	3.39	30.120
MW-10	09/27/11	15.1	<0.0500	0.174	0.149	15.423
MW-10	01/04/12	24.6	<0.200	0.690	0.356	25.646
MW-11	12/13/04	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-11	03/30/05	0.00307	<0.00100	<0.00100	<0.00200	0.00307
MW-11	05/20/05	0.00178	<0.00100	<0.00100	<0.00200	0.00178
MW-11	08/23/05	0.00148	<0.00100	<0.00100	<0.00200	0.00148
MW-11	11/22/05	0.00113	<0.00100	<0.00100	<0.00200	0.00113
MW-11	02/17/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-11	05/30/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-11	11/20/06	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200
MW-11	04/04/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	06/19/07	0.00310	<0.00100	<0.00100	<0.00100	0.0031
MW-11	09/19/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	12/04/07	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	03/18/08	<0.00100	<0.00100	<0.00100	0.00120	0.0012
MW-11	06/26/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	09/20/08	0.00110	<0.00100	<0.00100	<0.00100	0.0011
MW-11	12/23/08	0.106	<0.00100	0.00210	0.00160	0.110



TABLE 2
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PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS# 2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW-11	02/26/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	06/04/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	08/19/09	0.00760	<0.00100	<0.00100	<0.00100	0.0076
MW-11	12/16/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	02/25/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	06/15/10	0.00590	<0.00100	<0.00100	<0.00100	0.0059
MW-11	09/15/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	12/14/10	<0.00100	<0.00100	0.00530	0.00970	0.01500
MW-11	03/10/11	0.00950	<0.00100	<0.00100	<0.00100	0.00950
MW-11	06/21/11	0.133	<0.00100	0.0078	0.0172	0.15800
MW-11	09/27/11	0.00150	<0.00100	<0.00100	<0.00100	0.00150
MW-11	01/04/12	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Well Installed July 2006						
MW-12	08/08/06	0.00104	<0.00100	<0.00100	<0.00200	0.00104
MW-12	11/20/06	0.00547	<0.00100	<0.00100	<0.00200	0.00547
MW-12	04/04/07	0.172	0.0328	0.0231	<0.00100	0.228
MW-12	06/19/07	0.298	0.0562	0.0381	<0.00100	0.392
MW-12	09/19/07	0.264	0.0447	0.0203	<0.00100	0.329
MW-12	12/04/07	0.420	0.0668	0.0400	<0.0100	0.527
MW-12	03/18/08	0.559	<0.0100	0.0726	0.0373	0.669
MW-12	06/26/08	0.701	<0.00500	0.0584	0.0503	0.810
MW-12	09/20/08	0.791	<0.0150	0.0478	0.0517	0.891
MW-12	12/23/08	0.840	<0.0100	0.0372	0.0452	0.922
MW-12	02/26/09	0.880	<0.0100	<0.0100	0.247	1.127
MW-12	06/04/09	0.781	<0.0100	<0.0100	0.0563	0.837
MW-12	08/19/09	0.732	0.0889	<0.0100	0.235	1.056
MW-12	12/16/09	0.692	<0.00100	<0.00100	<0.00100	0.692
MW-12	02/25/10	0.850	<0.00100	<0.00100	0.041	0.891
MW-12	06/15/10	0.503	<0.00100	<0.00100	<0.00100	0.503
MW-12	09/15/10	0.644	<0.0100	<0.0100	<0.0100	0.644
MW-12	12/14/10	0.471	<0.0100	<0.0100	0.795	1.266
MW-12	03/10/11	0.270	<0.0100	<0.0100	<0.0100	0.270
MW-12	06/21/11	0.601	<0.00500	<0.00500	<0.00500	0.601
MW-12	09/27/11	1.02	<0.0500	<0.0500	<0.0500	1.02
MW-12	01/04/12	0.334	<0.0500	<0.0500	<0.0500	0.334



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS# 2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW-13	Well Installed July 2006					
MW-13	08/08/06	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	11/20/06	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	04/04/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	06/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	09/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	12/04/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	03/18/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	06/26/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	09/20/08	12.7	8.43	1.10	2.89	25.1
MW-13	12/23/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	02/26/09	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	06/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	08/19/09	16.0	12.4	2.09	5.88	36.37
MW-13	12/16/09	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	02/25/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	06/15/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	09/15/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	12/14/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	03/09/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	06/21/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	09/27/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	01/04/12	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	Well Installed July 2006					
MW-14	08/08/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	11/20/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	04/04/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	06/19/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	09/19/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	12/04/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	03/18/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	06/26/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	09/20/08	14.5	8.66	1.10	2.76	27.0
MW-14	12/23/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	02/26/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	06/04/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS# 2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW-14	08/19/09	11.0	5.70	1.04	2.95	20.69
MW-14	12/16/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	02/25/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	06/15/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	09/15/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	12/14/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	03/09/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	06/21/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	09/27/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-14	01/04/12	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	05/30/06	Well Installed July 2006				
MW-15	08/08/06	13.0	8.21	0.41	2.54	24.16
MW-15	11/20/06	15.8	5.74	0.94	2.90	25.38
MW-15	04/04/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	06/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	09/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	12/04/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	03/18/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	06/26/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	09/20/08	4.87	2.17	0.480	1.43	8.950
MW-15	12/23/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	02/26/09	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	06/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	08/19/09	4.42	1.66	0.786	2.25	9.12
MW-15	12/16/09	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	02/25/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	06/15/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	09/15/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	12/14/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	03/09/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	06/21/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	09/27/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-15	01/04/12	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16		Well Installed July 2006				
MW-16	08/08/06	Not sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS# 2002-10312
NMOCDF REF. # AP-037
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW-16	11/20/06	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	04/04/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	06/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	09/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	12/04/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	03/18/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	06/26/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	09/20/08	3.45	2.63	0.476	1.21	7.77
MW-16	12/23/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	02/26/09	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	06/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	08/19/09	3.20	2.72	0.603	1.78	8.303
MW-16	12/16/09	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	02/25/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	06/15/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	09/15/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	12/14/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	03/09/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	06/21/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	09/27/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-16	01/04/12	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17		Well Installed July 2006				
MW-17	08/08/06	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	11/20/06	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	04/04/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	06/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	09/19/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	12/04/07	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	03/18/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	06/26/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	09/20/08	14.5	9.60	1.04	2.63	27.8
MW-17	12/23/08	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	02/26/09	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	06/04/09	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	08/19/09	13.5	10.5	1.38	3.92	29.3
MW-17	12/16/09	Not sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS# 2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW-17	02/25/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	06/15/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	09/15/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	12/14/10	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	03/09/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	06/21/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	09/27/11	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-17	01/04/12	Not sampled Due to Presence of Phase Separated Hydrocarbons				
MW-18	06/15/10	Well Installed June 2010				
MW-18	06/30/10	0.0932	<0.00100	<0.00100	0.0114	0.1046
MW-18	09/14/10	0.0039	<0.00100	<0.00100	<0.00100	0.0039
MW-18	12/14/10	0.0963	<0.00100	<0.00100	0.0137	0.110
MW-18	03/09/11	0.2870	<0.00100	<0.00100	0.0321	0.319
MW-18	06/21/11	0.2750	<0.00100	<0.00100	0.0293	0.304
MW-18	09/27/11	0.504	<0.00100	<0.00100	<0.00100	0.504
MW-18	01/04/12	<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
POLYNUCLEAR AROMATIC HYDROCARBON (PAH)
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]-anthracene	Benzo[a]-pyrene	Benzo[b]-fluoranthene	Benzo[g,h,i]-perylene	Benzo[k]-fluoranthene	Chrysene	Dibenz[a,h]-anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno[1,2,3-cd]-pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Total Naphthalenes	Phenanthrene	Pyrene
MW-1	08/23/05	<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
	02/17/06	<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
	04/04/07	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	NA	NA	<0.000200	<0.000200	<0.000200	<0.000200
	09/20/08	<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	<0.000200
	08/19/09	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943	<0.000943
MW-3	08/23/05	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	0.000818	<0.00005	NA	NA	0.00117	0.00117	0.000289	<0.00005
	02/17/06	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	0.00134	<0.00005	NA	NA	0.02070	0.02070	0.000336	<0.00005
	04/04/07	<0.000200	<0.000200	0.00130	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	<0.000200	<0.000200	0.00102	<0.000200	0.00420	<0.000400	NA	NA	0.0439	0.0439	<0.000200	<0.000200
	09/20/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000935	<0.000200	0.00338	<0.000200	0.0292	0.0287	0.0393	0.0972	0.00118	<0.000200
	08/19/09	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	0.000638	<0.000188	0.00215	<0.000188	0.0226	0.0200	0.0230	0.0656	0.000922	<0.000188
	07/06/11	<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	0.0147	0.0104	0.0136	0.0387	<0.000200	<0.000200
MW-4	08/23/05	<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
	02/17/06	<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
	04/04/07	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	NA	NA	0.00268	0.00268	<0.000200	<0.000200
	09/20/08	<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	<0.000200
	08/19/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	01/05/12	<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
	08/23/05	<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

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
POLYNUCLEAR AROMATIC HYDROCARBON (PAH)
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]-anthracene	Benzo[a]-pyrene	Benzo[b]-fluoranthene	Benzo[g,h,i]-perylene	Benzo[k]-fluoranthene	Chrysene	Dibenz[a,h]-anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno[1,2,3-cd]-pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Total Naphthalenes	Phenanthrene	Pyrene
MW-5	02/17/06	<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
	04/04/07	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	NA	NA	0.00268	0.00268	<0.000200	<0.000200
	09/20/08	<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	0.000548	<0.000200	0.000274	0.000274	<0.000200	<0.000200
	08/19/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-6	08/23/05	<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	0.000109	0.000109	<0.00005	<0.00005
	02/17/06	<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
	04/04/07	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	NA	NA	<0.000200	<0.000200	<0.000200	<0.000200
	09/20/08	<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	<0.000200
	08/19/09	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190
	01/05/12	<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	<0.000200
MW-7	08/23/05	<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
	02/17/06	<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
	04/04/07	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	NA	NA	<0.000200	<0.000200	<0.000200	<0.000200
	09/20/08	<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	<0.000200
	08/19/09	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190
	01/05/12	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
	08/23/05	<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
	02/17/06	<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



TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
POLYNUCLEAR AROMATIC HYDROCARBON (PAH)
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.051.01

All concentrations are in mg/L

Sample Location	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]-anthracene	Benzo[a]-pyrene	Benzo[b]-fluoranthene	Benzo[g,h,i]-perylene	Benzo[k]-fluoranthene	Chrysene	Dibenz[a,h]-anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno[1,2,3-cd]-pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Total Naphthalenes	Phenanthrene	Pyrene
MW-8	04/04/07	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	NA	NA	<0.000200	<0.000200	<0.000200	<0.000200
	09/20/08	<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	<0.000200
	08/19/09	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190
MW-9	08/23/05	<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
	02/17/06	<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
	04/04/07	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	NA	NA	<0.000200	<0.000200	<0.000200	<0.000200
	09/20/08	<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	<0.000200
	08/19/09	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	NA	NA	<0.000200	<0.000200	<0.000200	<0.000200
MW-10	08/23/05	<0.00005	<0.00005	0.000429	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.00005	0.000698	<0.00005	NA	NA	0.032	0.032	0.000405	<0.00005
	02/17/06	<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	0.0357	0.0357	<0.00005	<0.00005
	04/04/07	<0.000200	<0.000200	0.000605	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	<0.000200	<0.000200	0.000694	<0.000200	0.00125	<0.000400	NA	NA	0.0172	0.0172	<0.000200	<0.000200
	09/20/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000517	<0.000200	0.00126	<0.000200	0.00979	0.00343	0.00709	0.02031	0.000618	<0.000200
	08/19/09	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	<0.000188	0.000303	<0.000188	0.000920	<0.000188	0.00737	0.00137	0.00288	0.01162	0.000483	<0.000188
	01/05/12	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	0.000427	<0.000201	0.000973	<0.000201	0.01070	0.00500	0.01310	0.02880	0.000482	<0.000201
MW-11	08/23/05	<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
	02/17/06	<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
	04/04/07	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	NA	NA	<0.000200	<0.000200	<0.000200	<0.000200
	09/20/08	<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	<0.000200



TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
POLYNUCLEAR AROMATIC HYDROCARBON (PAH)
PLAINS PIPELINE, L.P.
LOVINGTON DEEP 6" - SRS#2002-10312
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.051.01

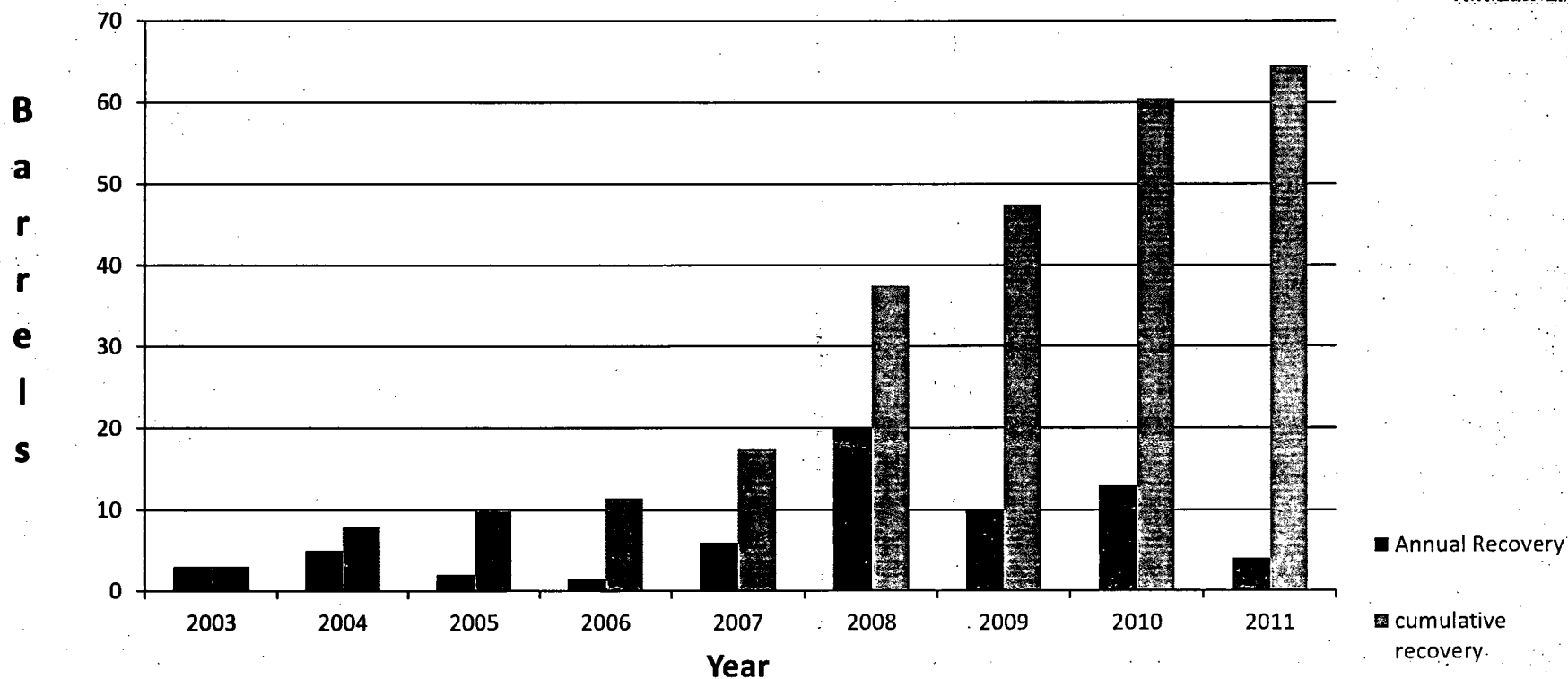
All concentrations are in mg/L

Sample Location	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]-anthracene	Benzo[a]-pyrene	Benzo[b]-fluoranthene	Benzo[g,h,i]-perylene	Benzo[k]-fluoranthene	Chrysene	Dibenz[a,h]-anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno[1,2,3-cd]-pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Total Naphthalenes	Phenanthrene	Pyrene
	08/19/09	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193	<0.000193
MW-12	04/04/07	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000400	NA	NA	0.00117	0.00117	<0.000200	<0.000200
	09/20/08	<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	0.00405	0.00355	0.00353	0.01113	<0.000200	<0.000200
	08/19/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	01/05/12	<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	<0.000200
MW-18	01/05/12	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204	<0.000204
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, L.P. - SRS# 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
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: March 15, 2011

Work Order: 11031013



Project Location: Lovington, NM
Project Name: Deep 6 in.
Project Number: 700376.051.01

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
260111	MW-6	water	2011-03-09	14:20	2011-03-10
260112	MW-8	water	2011-03-09	14:40	2011-03-10
260113	MW-1	water	2011-03-09	15:00	2011-03-10
260114	MW-18	water	2011-03-09	14:15	2011-03-10

Sample: 260111 - MW-6

Param	Flag	Result	Units	RL
Benzene		0.00680	mg/L	0.00100
Toluene		<0.00100	mg/L	0.00100
Ethylbenzene		<0.00100	mg/L	0.00100
Xylene		<0.00100	mg/L	0.00100
Total BTEX		0.00680	mg/L	0.00600

Sample: 260112 - MW-8

Param	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.00100
Toluene		<0.00100	mg/L	0.00100
Ethylbenzene		<0.00100	mg/L	0.00100
Xylene		<0.00100	mg/L	0.00100
Total BTEX		<0.00600	mg/L	0.00600

Sample: 260113 - MW-1

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296
This is only a summary. Please, refer to the complete report package for quality control data.

Param	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.00100
Toluene		<0.00100	mg/L	0.00100
Ethylbenzene		<0.00100	mg/L	0.00100
Xylene		<0.00100	mg/L	0.00100
Total BTEX		<0.00600	mg/L	0.00600

Sample: 260114 - MW-18

Param	Flag	Result	Units	RL
Benzene		0.287	mg/L	0.00100
Toluene		<0.00100	mg/L	0.00100
Ethylbenzene		<0.00100	mg/L	0.00100
Xylene		0.0321	mg/L	0.00100
Total BTEX		0.319	mg/L	0.00600



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

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

Report Date: March 15, 2011

Work Order: 11031013



Project Location: Lovington, NM
Project Name: Deep 6 in.
Project Number: 700376.051.01

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
260111	MW-6	water	2011-03-09	14:20	2011-03-10
260112	MW-8	water	2011-03-09	14:40	2011-03-10
260113	MW-1	water	2011-03-09	15:00	2011-03-10
260114	MW-18	water	2011-03-09	14:15	2011-03-10

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 8 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

Standard Flags

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

Case Narrative

Samples for project Deep 6 in. were received by TraceAnalysis, Inc. on 2011-03-10 and assigned to work order 11031013. Samples for work order 11031013 were received intact without headspace and at a temperature of 3.4 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	67298	2011-03-11 at 14:52	79310	2011-03-14 at 10:56
Total BTEX	S 8021B	67298	2011-03-11 at 14:52	79310	2011-03-14 at 10:56

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 11031013 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: March 15, 2011
700376.051.01

Work Order: 11031013
Deep 6 in.

Page Number: 4 of 8
Lovington, NM

Analytical Report

Sample: 260111 - MW-6

Laboratory: Midland
Analysis: BTEX, Total BTEX
QC Batch: 79310
Prep Batch: 67298

Analytical Method: S 8021B
Date Analyzed: 2011-03-14
Sample Preparation: 2011-03-11

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00680	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
Total BTEX		0.00680	mg/L	1	0.00600

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0888	mg/L	1	0.100	89	51.1 - 128

Sample: 260112 - MW-8

Laboratory: Midland
Analysis: BTEX, Total BTEX
QC Batch: 79310
Prep Batch: 67298

Analytical Method: S 8021B
Date Analyzed: 2011-03-14
Sample Preparation: 2011-03-11

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
Total BTEX		<0.00600	mg/L	1	0.00600

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0979	mg/L	1	0.100	98	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0860	mg/L	1	0.100	86	51.1 - 128

Report Date: March 15, 2011
700376.051.01

Work Order: 11031013
Deep 6 in.

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Lovington, NM

Sample: 260113 - MW-1

Laboratory: Midland
Analysis: BTEX, Total BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 79310 Date Analyzed: 2011-03-14 Analyzed By: ME
Prep Batch: 67298 Sample Preparation: 2011-03-11 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
Total BTEX		<0.00600	mg/L	1	0.00600

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0955	mg/L	1	0.100	96	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0839	mg/L	1	0.100	84	51.1 - 128

Sample: 260114 - MW-18

Laboratory: Midland
Analysis: BTEX, Total BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 79310 Date Analyzed: 2011-03-14 Analyzed By: ME
Prep Batch: 67298 Sample Preparation: 2011-03-11 Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.287	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.0321	mg/L	1	0.00100
Total BTEX		0.319	mg/L	1	0.00600

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0932	mg/L	1	0.100	93	51.1 - 128

Method Blank (1) QC Batch: 79310

QC Batch: 79310 Date Analyzed: 2011-03-14 Analyzed By: ME
Prep Batch: 67298 QC Preparation: 2011-03-11 Prepared By: ME

Report Date: March 15, 2011
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Deep 6 in.

Page Number: 6 of 8
Lovington, NM

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)		0.0859	mg/L	1	0.100	86	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.0832	mg/L	1	0.100	83	47.3 - 116

Laboratory Control Spike (LCS-1)

QC Batch: 79310
Prep Batch: 67298

Date Analyzed: 2011-03-14
QC Preparation: 2011-03-11

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.100	mg/L	1	0.100	<0.000400	100	82.9 - 108
Toluene	0.0982	mg/L	1	0.100	<0.000300	98	82.7 - 107
Ethylbenzene	0.0954	mg/L	1	0.100	<0.000300	95	78.8 - 106
Xylene	0.288	mg/L	1	0.300	<0.000333	96	79.3 - 106

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0990	mg/L	1	0.100	<0.000400	99	82.9 - 108	1	20
Toluene	0.0983	mg/L	1	0.100	<0.000300	98	82.7 - 107	0	20
Ethylbenzene	0.0959	mg/L	1	0.100	<0.000300	96	78.8 - 106	0	20
Xylene	0.290	mg/L	1	0.300	<0.000333	97	79.3 - 106	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)	0.0873	0.0943	mg/L	1	0.100	87	94	67.3 - 113
4-Bromofluorobenzene (4-BFB)	0.0896	0.0975	mg/L	1	0.100	90	98	68.2 - 124

Matrix Spike (MS-1) Spiked Sample: 260086

QC Batch: 79310
Prep Batch: 67298

Date Analyzed: 2011-03-14
QC Preparation: 2011-03-11

Analyzed By: ME
Prepared By: ME

Report Date: March 15, 2011
700376.051.01

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Deep 6 in.

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.473	mg/L	5	0.500	0.0392	87	77.9 - 114
Toluene	0.456	mg/L	5	0.500	<0.00150	91	78.3 - 111
Ethylbenzene	0.448	mg/L	5	0.500	<0.00150	90	75.3 - 110
Xylene	1.34	mg/L	5	1.50	0.0981	83	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	0.478	mg/L	5	0.500	0.0392	88	77.9 - 114	1	20
Toluene	0.461	mg/L	5	0.500	<0.00150	92	78.3 - 111	1	20
Ethylbenzene	0.444	mg/L	5	0.500	<0.00150	89	75.3 - 110	1	20
Xylene	1.34	mg/L	5	1.50	0.0981	83	75.7 - 109	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)	0.426	0.423	mg/L	5	0.5	85	85	68.3 - 107
4-Bromofluorobenzene (4-BFB)	0.434	0.436	mg/L	5	0.5	87	87	60.1 - 135

Standard (CCV-1)

QC Batch: 79310

Date Analyzed: 2011-03-14

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	0.0962	96	80 - 120	2011-03-14
Toluene		mg/L	0.100	0.0953	95	80 - 120	2011-03-14
Ethylbenzene		mg/L	0.100	0.0924	92	80 - 120	2011-03-14
Xylene		mg/L	0.300	0.278	93	80 - 120	2011-03-14

Standard (CCV-2)

QC Batch: 79310

Date Analyzed: 2011-03-14

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	0.0963	96	80 - 120	2011-03-14
Toluene		mg/L	0.100	0.0946	95	80 - 120	2011-03-14
Ethylbenzene		mg/L	0.100	0.0928	93	80 - 120	2011-03-14
Xylene		mg/L	0.300	0.275	92	80 - 120	2011-03-14

Report Date: March 15, 2011
700376.051.01

Work Order: 11031013
Deep 6 in.

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Lovington, NM

Standard (CCV-3)

QC Batch: 79310

Date Analyzed: 2011-03-14

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0979	98	80 - 120	2011-03-14
Toluene		mg/L	0.100	0.0962	96	80 - 120	2011-03-14
Ethylbenzene		mg/L	0.100	0.0940	94	80 - 120	2011-03-14
Xylene		mg/L	0.300	0.281	94	80 - 120	2011-03-14

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-12965002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: Talon LPs	Phone #: 806-467-0447
Address: 2901 State Hwy 349 (Street, City, Zip)	Fax #:
Contact Person: Steve Killingsworth	E-mail: SKillingsworth@talonlp.com
Invoice to: (If different from above)	
Project #: 700376.051-01	Project Name: Deep 6
Project Location (including state): Lovington NM	
Sampler Signature:	

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 / 8260 / 625	TPH 418.1 / TX1005	TPH 8015 GRO / DRO	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 / 8	GC/MS Semi. Vol. 8	PCB's 8082 / 608	Pesticides 8081 / 60	BOD, TSS, pH	Moisture Content	Cl, F, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Relinquished by: [Signature]	Company: Talon LPs	Date: 3/10/11	Time: 8:45	Received by: [Signature]	Company: Trace	Date: 3/10/11	Time: 8:45	INST OBS COR	3.4	LAB USE ONLY Intact ☒ N Headspace ☒ N/A Log-In Review ☒	REMARKS: All tests - Midland
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 #

Camp



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: March 24, 2011

Work Order: 11031134



Project Location: Lovington, NM
Project Name: Deep 6 in.
Project Number: 700376.051.01

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
260368	MW-3	water	2011-03-10	12:00	2011-03-11
260369	MW-4	water	2011-03-10	12:10	2011-03-11
260370	MW-5	water	2011-03-10	12:20	2011-03-11
260371	MW-7	water	2011-03-10	11:40	2011-03-11
260372	MW-9	water	2011-03-10	12:35	2011-03-11
260373	MW-10	water	2011-03-10	12:45	2011-03-11
260374	MW-11	water	2011-03-10	12:55	2011-03-11
260375	MW-12	water	2011-03-10	13:05	2011-03-11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch

basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

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

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

Standard Flags

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

Case Narrative

Samples for project Deep 6 in. were received by TraceAnalysis, Inc. on 2011-03-11 and assigned to work order 11031134. Samples for work order 11031134 were received intact without headspace and at a temperature of 3.6 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	67614	2011-03-23 at 07:43	79701	2011-03-23 at 08:21

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 11031134 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: March 24, 2011
700376.051.01

Work Order: 11031134
Deep 6 in.

Page Number: 4 of 9
Lovington, NM

Analytical Report

Sample: 260368 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 79701
Prep Batch: 67614

Analytical Method: S 8021B
Date Analyzed: 2011-03-23
Sample Preparation: 2011-03-23

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		4.44	mg/L	50	0.00100
Toluene		0.964	mg/L	50	0.00100
Ethylbenzene		0.792	mg/L	50	0.00100
Xylene		1.42	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.89	mg/L	50	5.00	98	67.8 - 129
4-Bromofluorobenzene (4-BFB)		5.48	mg/L	50	5.00	110	51.1 - 128

Sample: 260369 - MW-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 79701
Prep Batch: 67614

Analytical Method: S 8021B
Date Analyzed: 2011-03-23
Sample Preparation: 2011-03-23

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0711	mg/L	1	0.00100
Toluene		0.0638	mg/L	1	0.00100
Ethylbenzene		0.0207	mg/L	1	0.00100
Xylene		0.0545	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.118	mg/L	1	0.100	118	51.1 - 128

Sample: 260370 - MW-5

Laboratory: Midland
Analysis: BTEX
QC Batch: 79701
Prep Batch: 67614

Analytical Method: S 8021B
Date Analyzed: 2011-03-23
Sample Preparation: 2011-03-23

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

Report Date: March 24, 2011
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Work Order: 11031134
Deep 6 in.

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Lovington, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00670	mg/L	1	0.00100
Toluene		0.00780	mg/L	1	0.00100
Ethylbenzene		0.00650	mg/L	1	0.00100
Xylene		0.0198	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.110	mg/L	1	0.100	110	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.117	mg/L	1	0.100	117	51.1 - 128

Sample: 260371 - MW-7

Laboratory: Midland
Analysis: BTEX
QC Batch: 79701
Prep Batch: 67614

Analytical Method: S 8021B
Date Analyzed: 2011-03-23
Sample Preparation: 2011-03-23

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00700	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)		0.108	mg/L	1	0.100	108	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.117	mg/L	1	0.100	117	51.1 - 128

Sample: 260372 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 79701
Prep Batch: 67614

Analytical Method: S 8021B
Date Analyzed: 2011-03-23
Sample Preparation: 2011-03-23

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

Report Date: March 24, 2011
700376.051.01

Work Order: 11031134
Deep 6 in.

Page Number: 6 of 9
Lovington, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.114	mg/L	1	0.100	114	51.1 - 128

Sample: 260373 - MW-10

Laboratory: Midland

Analysis: BTEX

QC Batch: 79701

Prep Batch: 67614

Analytical Method: S 8021B

Date Analyzed: 2011-03-23

Sample Preparation: 2011-03-23

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		10.4	mg/L	200	0.00100
Toluene		<0.200	mg/L	200	0.00100
Ethylbenzene		1.43	mg/L	200	0.00100
Xylene		4.36	mg/L	200	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		20.0	mg/L	200	20.0	100	67.8 - 129
4-Bromofluorobenzene (4-BFB)		21.4	mg/L	200	20.0	107	51.1 - 128

Sample: 260374 - MW-11

Laboratory: Midland

Analysis: BTEX

QC Batch: 79701

Prep Batch: 67614

Analytical Method: S 8021B

Date Analyzed: 2011-03-23

Sample Preparation: 2011-03-23

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00950	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)		0.108	mg/L	1	0.100	108	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.115	mg/L	1	0.100	115	51.1 - 128

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Sample: 260375 - MW-12

Laboratory: Midland
Analysis: BTEX
QC Batch: 79701
Prep Batch: 67614

Analytical Method: S 8021B
Date Analyzed: 2011-03-23
Sample Preparation: 2011-03-23

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.270	mg/L	10	0.00100
Toluene		<0.0100	mg/L	10	0.00100
Ethylbenzene		<0.0100	mg/L	10	0.00100
Xylene		<0.0100	mg/L	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.962	mg/L	10	1.00	96	67.8 - 129
4-Bromofluorobenzene (4-BFB)		1.06	mg/L	10	1.00	106	51.1 - 128

Method Blank (1) QC Batch: 79701

QC Batch: 79701
Prep Batch: 67614

Date Analyzed: 2011-03-23
QC Preparation: 2011-03-23

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)		0.0888	mg/L	1	0.100	89	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.0936	mg/L	1	0.100	94	47.3 - 116

Laboratory Control Spike (LCS-1)

QC Batch: 79701
Prep Batch: 67614

Date Analyzed: 2011-03-23
QC Preparation: 2011-03-23

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.104	mg/L	1	0.100	<0.000400	104	76.8 - 110

continued ...

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control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Toluene	0.107	mg/L	1	0.100	<0.000300	107	81 - 108
Ethylbenzene	0.116	mg/L	1	0.100	<0.000300	116	78.8 - 118
Xylene	0.352	mg/L	1	0.300	<0.000333	117	80.3 - 119

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0999	mg/L	1	0.100	<0.000400	100	76.8 - 110	4	20
Toluene	0.102	mg/L	1	0.100	<0.000300	102	81 - 108	5	20
Ethylbenzene	0.112	mg/L	1	0.100	<0.000300	112	78.8 - 118	4	20
Xylene	0.341	mg/L	1	0.300	<0.000333	114	80.3 - 119	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0954	0.102	mg/L	1	0.100	95	102	66.6 - 114
4-Bromofluorobenzene (4-BFB)	0.107	0.115	mg/L	1	0.100	107	115	68.2 - 124

Matrix Spike (MS-1) Spiked Sample: 260487

QC Batch: 79701
Prep Batch: 67614

Date Analyzed: 2011-03-23
QC Preparation: 2011-03-23

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	20.3	mg/L	100	10.0	9.8547	104	77.9 - 114
Toluene	10.7	mg/L	100	10.0	<0.0300	107	78.3 - 111
Ethylbenzene	¹ 11.7	mg/L	100	10.0	<0.0300	117	75.3 - 110
Xylene	² 35.2	mg/L	100	30.0	<0.0333	117	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	19.8	mg/L	100	10.0	9.8547	99	77.9 - 114	2	20
Toluene	10.4	mg/L	100	10.0	<0.0300	104	78.3 - 111	3	20
Ethylbenzene	³ 11.4	mg/L	100	10.0	<0.0300	114	75.3 - 110	3	20
Xylene	⁴ 34.3	mg/L	100	30.0	<0.0333	114	75.7 - 109	3	20

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

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

²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: March 24, 2011
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Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	9.86	9.62	mg/L	100	10	99	96	68.3 - 107
4-Bromofluorobenzene (4-BFB)	11.5	11.2	mg/L	100	10	115	112	60.1 - 135

Standard (CCV-1)

QC Batch: 79701

Date Analyzed: 2011-03-23

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	0.0987	99	80 - 120	2011-03-23
Toluene		mg/L	0.100	0.101	101	80 - 120	2011-03-23
Ethylbenzene		mg/L	0.100	0.111	111	80 - 120	2011-03-23
Xylene		mg/L	0.300	0.338	113	80 - 120	2011-03-23

Standard (CCV-2)

QC Batch: 79701

Date Analyzed: 2011-03-23

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.100	100	80 - 120	2011-03-23
Toluene		mg/L	0.100	0.103	103	80 - 120	2011-03-23
Ethylbenzene		mg/L	0.100	0.112	112	80 - 120	2011-03-23
Xylene		mg/L	0.300	0.342	114	80 - 120	2011-03-23

Standard (CCV-3)

QC Batch: 79701

Date Analyzed: 2011-03-23

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.104	104	80 - 120	2011-03-23
Toluene		mg/L	0.100	0.106	106	80 - 120	2011-03-23
Ethylbenzene		mg/L	0.100	0.114	114	80 - 120	2011-03-23
Xylene		mg/L	0.300	0.346	115	80 - 120	2011-03-23

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-12965002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: <u>Talon LP</u>	Phone #: <u>806 467-0967</u>
Address: (Street, City, Zip) <u>2701 State Hwy 349</u>	Fax #: _____
Contact Person: <u>Skinner Killingsworth</u>	E-mail: <u>Skillingworth@talonlp.com</u>
Invoice to: (if different from above)	
Project #: <u>700376-OS-01</u>	Project Name: <u>Deep 6</u>
Project Location (including state): <u>Hobbs, NM</u>	Sampler Signature: _____

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		MTBE 8021 / 602 / 8260 / 625	BTX 8021 / 602 / 8260 / 625	TPH 418.1 / TX1005	TPH 8015 GRO / DRO	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. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO4, NO3, NO2	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
260308	MW-3	3	700	X				X					3-10-11	1200	X																					
369	MW-4													1210																						
370	MW-5													1220																						
371	MW-7													1140																						
372	MW-8													1235																						
373	MW-10													1245																						
374	MW-11													1255																						
375	MW-12													1305																						

Relinquished by: <u>[Signature]</u>	Company: <u>Talon LP</u>	Date: <u>3-11-11</u>	Time: <u>1400</u>	Received by: <u>[Signature]</u>	Company: <u>Trace</u>	Date: <u>3/11/11</u>	Time: <u>14:20</u>	INST <u>3.6</u>
Relinquished by: _____	Company: _____	Date: _____	Time: _____	Received by: _____	Company: _____	Date: _____	Time: _____	OBS _____
Relinquished by: _____	Company: _____	Date: _____	Time: _____	Received by: _____	Company: _____	Date: _____	Time: _____	COR _____

LAB USE ONLYIntact ☒ Y / ☐ N
Headspace ☒ Y / ☐ N
Log-in Review ☐**REMARKS:***All tests - Midland

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

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

ORIGINAL COPY

Carrier # Camp

Summary Report

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

Report Date: June 30, 2011

Work Order: 11062302



Project Location: Lovington, NM
Project Name: Deep 6 in.
Project Number: 700376.051.01

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
270207	MW 1	water	2011-06-21	12:40	2011-06-23
270208	MW 3	water	2011-06-21	14:35	2011-06-23
270209	MW 4	water	2011-06-21	15:00	2011-06-23
270210	MW 5	water	2011-06-21	14:50	2011-06-23
270211	MW 6	water	2011-06-21	12:10	2011-06-23
270212	MW 7	water	2011-06-21	14:20	2011-06-23
270213	MW 8	water	2011-06-21	13:00	2011-06-23
270214	MW 9	water	2011-06-21	13:10	2011-06-23
270215	MW 10	water	2011-06-21	13:39	2011-06-23
270216	MW 11	water	2011-06-21	13:49	2011-06-23
270217	MW 12	water	2011-06-21	13:20	2011-06-23
270218	MW 18	water	2011-06-21	11:20	2011-06-23

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
270207 - MW 1	0.00190	<0.00100	<0.00100	<0.00100
270208 - MW 3	2.29	0.672	0.552	0.964
270209 - MW 4	<0.00100	<0.00100	<0.00100	<0.00100
270210 - MW 5	<0.00100	<0.00100	<0.00100	<0.00100
270211 - MW 6	0.0117	0.00680	<0.00100	0.0205
270212 - MW 7	0.0200	<0.00100	<0.00100	<0.00100
270213 - MW 8	<0.00100	<0.00100	<0.00100	<0.00100
270214 - MW 9	<0.00100	<0.00100	<0.00100	<0.00100
270215 - MW 10	25.1	<0.200	1.63	3.39
270216 - MW 11	0.133	<0.00100	0.00780	0.0172
270217 - MW 12	0.601	<0.00500	<0.00500	<0.00500
270218 - MW 18	0.275	<0.00100	<0.00100	0.0293



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: June 30, 2011

Work Order: 11062302



Project Location: Lovington, NM
Project Name: Deep 6 in.
Project Number: 700376.051.01

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
270207	MW 1	water	2011-06-21	12:40	2011-06-23
270208	MW 3	water	2011-06-21	14:35	2011-06-23
270209	MW 4	water	2011-06-21	15:00	2011-06-23
270210	MW 5	water	2011-06-21	14:50	2011-06-23
270211	MW 6	water	2011-06-21	12:10	2011-06-23
270212	MW 7	water	2011-06-21	14:20	2011-06-23
270213	MW 8	water	2011-06-21	13:00	2011-06-23
270214	MW 9	water	2011-06-21	13:10	2011-06-23
270215	MW 10	water	2011-06-21	13:39	2011-06-23
270216	MW 11	water	2011-06-21	13:49	2011-06-23
270217	MW 12	water	2011-06-21	13:20	2011-06-23
270218	MW 18	water	2011-06-21	11:20	2011-06-23

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 Deep 6 in. were received by TraceAnalysis, Inc. on 2011-06-23 and assigned to work order 11062302. Samples for work order 11062302 were received intact without headspace and at a temperature of 3.6 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	70084	2011-06-24 at 15:14	82513	2011-06-25 at 08:40
BTEX	S 8021B	70085	2011-06-24 at 15:14	82514	2011-06-26 at 04:07
BTEX	S 8021B	70199	2011-06-29 at 15:12	82649	2011-06-29 at 15:12

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 11062302 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: 270207 - MW 1

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	0.00190	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)			0.108	mg/L	1	0.100	108	73 - 123
4-Bromofluorobenzene (4-BFB)			0.103	mg/L	1	0.100	103	75.9 - 129

Sample: 270208 - MW 3

Laboratory: Midland
Analysis: BTEX
QC Batch: 82513
Prep Batch: 70084

Analytical Method: S 8021B
Date Analyzed: 2011-06-25
Sample Preparation: 2011-06-24

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		2	2.29	mg/L	50	0.00100
Toluene		2	0.672	mg/L	50	0.00100
Ethylbenzene		2	0.552	mg/L	50	0.00100
Xylene		2	0.964	mg/L	50	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.41	mg/L	50	5.00	88	67.8 - 129
4-Bromofluorobenzene (4-BFB)			4.92	mg/L	50	5.00	98	51.1 - 128

Report Date: June 30, 2011
700376.051.01

Work Order: 11062302
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Sample: 270209 - MW 4

Laboratory: Midland
Analysis: BTEX
QC Batch: 82514
Prep Batch: 70085

Analytical Method: S 8021B
Date Analyzed: 2011-06-26
Sample Preparation: 2011-06-24

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		2	<0.00100	mg/L	1	0.00100
Toluene		2	<0.00100	mg/L	1	0.00100
Ethylbenzene		2	<0.00100	mg/L	1	0.00100
Xylene		2	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0985	mg/L	1	0.100	98	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.111	mg/L	1	0.100	111	51.1 - 128

Sample: 270210 - MW 5

Laboratory: Midland
Analysis: BTEX
QC Batch: 82514
Prep Batch: 70085

Analytical Method: S 8021B
Date Analyzed: 2011-06-26
Sample Preparation: 2011-06-24

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		2	<0.00100	mg/L	1	0.00100
Toluene		2	<0.00100	mg/L	1	0.00100
Ethylbenzene		2	<0.00100	mg/L	1	0.00100
Xylene		2	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0983	mg/L	1	0.100	98	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.113	mg/L	1	0.100	113	51.1 - 128

Report Date: June 30, 2011
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Sample: 270211 - MW 6

Laboratory: Midland
Analysis: BTEX
QC Batch: 82514
Prep Batch: 70085

Analytical Method: S 8021B
Date Analyzed: 2011-06-26
Sample Preparation: 2011-06-24

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		2	0.0117	mg/L	1	0.00100
Toluene		2	0.00680	mg/L	1	0.00100
Ethylbenzene		2	<0.00100	mg/L	1	0.00100
Xylene		2	0.0205	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0960	mg/L	1	0.100	96	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.103	mg/L	1	0.100	103	51.1 - 128

Sample: 270212 - MW 7

Laboratory: Midland
Analysis: BTEX
QC Batch: 82514
Prep Batch: 70085

Analytical Method: S 8021B
Date Analyzed: 2011-06-26
Sample Preparation: 2011-06-24

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		2	0.0200	mg/L	1	0.00100
Toluene		2	<0.00100	mg/L	1	0.00100
Ethylbenzene		2	<0.00100	mg/L	1	0.00100
Xylene		2	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0950	mg/L	1	0.100	95	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.107	mg/L	1	0.100	107	51.1 - 128

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Sample: 270213 - MW 8

Laboratory: Midland
Analysis: BTEX
QC Batch: 82514
Prep Batch: 70085

Analytical Method: S 8021B
Date Analyzed: 2011-06-26
Sample Preparation: 2011-06-24

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		2	<0.00100	mg/L	1	0.00100
Toluene		2	<0.00100	mg/L	1	0.00100
Ethylbenzene		2	<0.00100	mg/L	1	0.00100
Xylene		2	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	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)			0.118	mg/L	1	0.100	118	51.1 - 128

Sample: 270214 - MW 9

Laboratory: Midland
Analysis: BTEX
QC Batch: 82514
Prep Batch: 70085

Analytical Method: S 8021B
Date Analyzed: 2011-06-26
Sample Preparation: 2011-06-24

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		2	<0.00100	mg/L	1	0.00100
Toluene		2	<0.00100	mg/L	1	0.00100
Ethylbenzene		2	<0.00100	mg/L	1	0.00100
Xylene		2	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0943	mg/L	1	0.100	94	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.112	mg/L	1	0.100	112	51.1 - 128

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Sample: 270215 - MW 10

Laboratory: Midland
Analysis: BTEX
QC Batch: 82514
Prep Batch: 70085

Analytical Method: S 8021B
Date Analyzed: 2011-06-26
Sample Preparation: 2011-06-24

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		2	25.1	mg/L	200	0.00100
Toluene		2	<0.200	mg/L	200	0.00100
Ethylbenzene		2	1.63	mg/L	200	0.00100
Xylene		2	3.39	mg/L	200	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			18.3	mg/L	200	20.0	92	67.8 - 129
4-Bromofluorobenzene (4-BFB)			22.6	mg/L	200	20.0	113	51.1 - 128

Sample: 270216 - MW 11

Laboratory: Midland
Analysis: BTEX
QC Batch: 82514
Prep Batch: 70085

Analytical Method: S 8021B
Date Analyzed: 2011-06-26
Sample Preparation: 2011-06-24

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		2	0.133	mg/L	1	0.00100
Toluene		2	<0.00100	mg/L	1	0.00100
Ethylbenzene		2	0.00780	mg/L	1	0.00100
Xylene		2	0.0172	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0961	mg/L	1	0.100	96	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.112	mg/L	1	0.100	112	51.1 - 128

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Sample: 270217 - MW 12

Laboratory: Midland
Analysis: BTEX
QC Batch: 82514
Prep Batch: 70085

Analytical Method: S 8021B
Date Analyzed: 2011-06-26
Sample Preparation: 2011-06-24

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		2	0.601	mg/L	5	0.00100
Toluene		2	<0.00500	mg/L	5	0.00100
Ethylbenzene		2	<0.00500	mg/L	5	0.00100
Xylene		2	<0.00500	mg/L	5	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.417	mg/L	5	0.500	83	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.537	mg/L	5	0.500	107	51.1 - 128

Sample: 270218 - MW 18

Laboratory: Midland
Analysis: BTEX
QC Batch: 82514
Prep Batch: 70085

Analytical Method: S 8021B
Date Analyzed: 2011-06-26
Sample Preparation: 2011-06-24

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		2	0.275	mg/L	1	0.00100
Toluene		2	<0.00100	mg/L	1	0.00100
Ethylbenzene		2	<0.00100	mg/L	1	0.00100
Xylene		2	0.0293	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.108	mg/L	1	0.100	108	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.115	mg/L	1	0.100	115	51.1 - 128

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Method Blanks

Method Blank (1) QC Batch: 82513

QC Batch: 82513
Prep Batch: 70084

Date Analyzed: 2011-06-25
QC Preparation: 2011-06-24

Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		2	<0.000400	mg/L	0.001
Toluene		2	<0.000300	mg/L	0.001
Ethylbenzene		2	<0.000300	mg/L	0.001
Xylene		2	<0.000333	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0794	mg/L	1	0.100	79	70.2 - 118
4-Bromofluorobenzene (4-BFB)			0.0706	mg/L	1	0.100	71	47.3 - 116

Method Blank (1) QC Batch: 82514

QC Batch: 82514
Prep Batch: 70085

Date Analyzed: 2011-06-26
QC Preparation: 2011-06-24

Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		2	<0.000400	mg/L	0.001
Toluene		2	<0.000300	mg/L	0.001
Ethylbenzene		2	<0.000300	mg/L	0.001
Xylene		2	<0.000333	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0947	mg/L	1	0.100	95	70.2 - 118
4-Bromofluorobenzene (4-BFB)			0.102	mg/L	1	0.100	102	47.3 - 116

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

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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)			0.103	mg/L	1	0.100	103	73 - 123
4-Bromofluorobenzene (4-BFB)			0.116	mg/L	1	0.100	116	75.9 - 129

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 82513
Prep Batch: 70084

Date Analyzed: 2011-06-25
QC Preparation: 2011-06-24

Analyzed By: ME
Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	0.106	mg/L	1	0.100	<0.000400	106	76.8 - 110
Toluene		2	0.109	mg/L	1	0.100	<0.000300	109	81 - 118
Ethylbenzene		2	0.0918	mg/L	1	0.100	<0.000300	92	78.8 - 118
Xylene		2	0.274	mg/L	1	0.300	<0.000333	91	80.3 - 119

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		2	0.106	mg/L	1	0.100	<0.000400	106	76.8 - 110	0	20
Toluene		2	0.110	mg/L	1	0.100	<0.000300	110	81 - 118	1	20
Ethylbenzene		2	0.0921	mg/L	1	0.100	<0.000300	92	78.8 - 118	0	20
Xylene		2	0.275	mg/L	1	0.300	<0.000333	92	80.3 - 119	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)	0.0803	0.0836	mg/L	1	0.100	80	84	66.6 - 114
4-Bromofluorobenzene (4-BFB)	0.0789	0.0826	mg/L	1	0.100	79	83	68.2 - 124

Laboratory Control Spike (LCS-1)

QC Batch: 82514
Prep Batch: 70085

Date Analyzed: 2011-06-26
QC Preparation: 2011-06-24

Analyzed By: ME
Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	0.104	mg/L	1	0.100	<0.000400	104	76.8 - 110
Toluene		2	0.113	mg/L	1	0.100	<0.000300	113	81 - 118
Ethylbenzene		2	0.105	mg/L	1	0.100	<0.000300	105	78.8 - 118
Xylene		2	0.320	mg/L	1	0.300	<0.000333	107	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	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		2	0.104	mg/L	1	0.100	<0.000400	104	76.8 - 110	0	20
Toluene		2	0.114	mg/L	1	0.100	<0.000300	114	81 - 118	1	20
Ethylbenzene		2	0.105	mg/L	1	0.100	<0.000300	105	78.8 - 118	0	20
Xylene		2	0.322	mg/L	1	0.300	<0.000333	107	80.3 - 119	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)	0.0956	0.0942	mg/L	1	0.100	96	94	66.6 - 114
4-Bromofluorobenzene (4-BFB)	0.0875	0.105	mg/L	1	0.100	88	105	68.2 - 124

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	LCSD 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	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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

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Matrix Spike (MS-1) Spiked Sample: 270208

QC Batch: 82513
Prep Batch: 70084

Date Analyzed: 2011-06-25
QC Preparation: 2011-06-24

Analyzed By: ME
Prepared By: ME

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	7.23	mg/L	50	5.00	2.2944	99	77.9 - 114
Toluene		2	6.19	mg/L	50	5.00	0.6724	110	78.3 - 111
Ethylbenzene		2	5.63	mg/L	50	5.00	0.5524	102	75.3 - 110
Xylene		2	16.4	mg/L	50	15.0	0.9638	103	75.7 - 109

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		2	7.06	mg/L	50	5.00	2.2944	95	77.9 - 114	2	20
Toluene		2	6.02	mg/L	50	5.00	0.6724	107	78.3 - 111	3	20
Ethylbenzene		2	5.54	mg/L	50	5.00	0.5524	100	75.3 - 110	2	20
Xylene		2	16.2	mg/L	50	15.0	0.9638	102	75.7 - 109	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	4.25	5.63	mg/L	50	5	85	113	68.3 - 107
4-Bromofluorobenzene (4-BFB)	5.98	5.29	mg/L	50	5	120	106	60.1 - 135

Matrix Spike (MS-1) Spiked Sample: 270215

QC Batch: 82514
Prep Batch: 70085

Date Analyzed: 2011-06-26
QC Preparation: 2011-06-24

Analyzed By: ME
Prepared By: ME

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	45.7	mg/L	200	20.0	25.1389	103	77.9 - 114
Toluene		2	22.4	mg/L	200	20.0	<0.0600	112	78.3 - 111
Ethylbenzene		2	21.4	mg/L	200	20.0	1.6309	99	75.3 - 110
Xylene		2	63.6	mg/L	200	60.0	3.3882	100	75.7 - 109

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		2	46.1	mg/L	200	20.0	25.1389	105	77.9 - 114	1	20
Toluene		2	22.4	mg/L	200	20.0	<0.0600	112	78.3 - 111	0	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		2	21.6	mg/L	200	20.0	1.6309	100	75.3 - 110	1	20
Xylene		2	64.2	mg/L	200	60.0	3.3882	101	75.7 - 109	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	17.5	18.1	mg/L	200	20	88	90	68.3 - 107
4-Bromofluorobenzene (4-BFB)	22.6	22.8	mg/L	200	20	113	114	60.1 - 135

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

Calibration Standards

Standard (CCV-2)

QC Batch: 82513

Date Analyzed: 2011-06-25

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/L	0.100	0.106	106	80 - 120	2011-06-25
Toluene		2	mg/L	0.100	0.109	109	80 - 120	2011-06-25
Ethylbenzene		2	mg/L	0.100	0.0913	91	80 - 120	2011-06-25
Xylene		2	mg/L	0.300	0.271	90	80 - 120	2011-06-25

Standard (CCV-3)

QC Batch: 82513

Date Analyzed: 2011-06-25

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/L	0.100	0.108	108	80 - 120	2011-06-25
Toluene		2	mg/L	0.100	0.118	118	80 - 120	2011-06-25
Ethylbenzene		2	mg/L	0.100	0.109	109	80 - 120	2011-06-25
Xylene		2	mg/L	0.300	0.333	111	80 - 120	2011-06-25

Standard (CCV-1)

QC Batch: 82514

Date Analyzed: 2011-06-26

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/L	0.100	0.102	102	80 - 120	2011-06-26
Toluene		2	mg/L	0.100	0.110	110	80 - 120	2011-06-26
Ethylbenzene		2	mg/L	0.100	0.102	102	80 - 120	2011-06-26
Xylene		2	mg/L	0.300	0.310	103	80 - 120	2011-06-26

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Standard (CCV-2)

QC Batch: 82514

Date Analyzed: 2011-06-26

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/L	0.100	0.105	105	80 - 120	2011-06-26
Toluene		2	mg/L	0.100	0.112	112	80 - 120	2011-06-26
Ethylbenzene		2	mg/L	0.100	0.104	104	80 - 120	2011-06-26
Xylene		2	mg/L	0.300	0.318	106	80 - 120	2011-06-26

Standard (CCV-3)

QC Batch: 82514

Date Analyzed: 2011-06-26

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/L	0.100	0.103	103	80 - 120	2011-06-26
Toluene		2	mg/L	0.100	0.111	111	80 - 120	2011-06-26
Ethylbenzene		2	mg/L	0.100	0.104	104	80 - 120	2011-06-26
Xylene		2	mg/L	0.300	0.317	106	80 - 120	2011-06-26

Standard (CCV-1)

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	0.100	100	80 - 120	2011-06-29
Xylene		1	mg/L	0.300	0.303	101	80 - 120	2011-06-29

Standard (CCV-2)

QC Batch: 82649

Date Analyzed: 2011-06-29

Analyzed By: MT

Report Date: June 30, 2011
700376.051.01

Work Order: 11062302
Deep 6 in.

Page Number: 19 of 20
Lovington, NM

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

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
2	NELAP	T104704392-10-TX	Midland

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.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-12965002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: <u>Talon LPE</u>	Phone #:
Address: (Street, City, Zip) <u>2901 State Hwy 349</u>	Fax #:
Contact Person: <u>Steve E. Vinsworth</u>	E-mail: <u>skillingworth@talonlpe.com</u>
Invoice to: (If different from above) <u>2002-10312</u>	
Project #: <u>700326,061,01</u>	Project Name: <u>Deep 6</u>
Project Location (including state) <u>Hobbs/NM</u>	Sampler Signature: <u>Burl Jy</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 / 1	TPH 418.1 / TX1005	TPH 8015 GRO / DF	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, Fl, S04, NO3, NH	Na, Ca, Mg, K, TDS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Relinquished by: <u>Burl Jy</u>	Company: <u>Talon</u>	Date: <u>6-23-11</u>	Time: <u>0900</u>	Received by: <u>[Signature]</u>	Company: <u>T/A</u>	Date: <u>6/23/11</u>	Time: <u>9:00</u>	INST <u>3</u>	OBS <u>3</u>	COR <u>0</u>	LAB USE ONLY Intact <u>(Y/N)</u> Headspace <u>(Y/N)</u> Log-in Review <u>(Y/N)</u>	REMARKS: <u>Call test 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]

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

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

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

Company Name: Talon	Phone #:
Address: (Street, City, Zip) 2201 Gate Hwy 349	Fax #:
Contact Person: Steve Killingsworth	E-mail: skillingsworth@talon
Invoice to: (If different from above) 2002-10312	
Project #: 200326,051.01	Project Name: Deep 6
Project Location (including state): Hobbs NM	Sampler Signature: [Signature]

ANALYSIS REQUEST
(Circle or Specify Method No.)

[illegible]

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST
<i>[Signature]</i>	Talon	6-23-11	9:00	<i>[Signature]</i>	T/A	6/23/11	9:00	OBS <i>[Signature]</i>
								COR
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST
				<i>[Signature]</i>				OBS
								COR
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST
								OBS
								COR

LAB USE ONLY

Intact Y N

Headspace Y N N

Log-in-Review

REMARKS:

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

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ORIGINAL COPY

Carrier #

Summary Report

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

Report Date: October 3, 2011

Work Order: 11092901



Project Location: Hobbs, NM
Project Name: Deep 6 in.
Project Number: 700376.051.01
SRS #: 2002-10312

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
278534	MW-1	water	2011-09-27	10:35	2011-09-28
278535	MW-3	water	2011-09-27	10:50	2011-09-28
278536	MW-4	water	2011-09-27	10:55	2011-09-28
278537	MW-5	water	2011-09-27	10:45	2011-09-28
278538	MW-6	water	2011-09-27	10:25	2011-09-28
278539	MW-7	water	2011-09-27	10:31	2011-09-28
278540	MW-8	water	2011-09-27	10:40	2011-09-28
278541	MW-9	water	2011-09-27	12:00	2011-09-28
278542	MW-10	water	2011-09-27	11:35	2011-09-28
278543	MW-11	water	2011-09-27	11:40	2011-09-28
278544	MW-12	water	2011-09-27	12:08	2011-09-28
278545	MW-18	water	2011-09-27	10:15	2011-09-28

Sample - Field Code	BTEX				Total BTEX
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	Total BTEX (mg/L)
278534 - MW-1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
278535 - MW-3	2.95	0.468	0.314	0.451	4.18
278536 - MW-4	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
278537 - MW-5	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
278538 - MW-6	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
278539 - MW-7	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
278540 - MW-8	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
278541 - MW-9	0.364	<0.00500	<0.00500	<0.00500	0.364
278542 - MW-10	15.1	<0.0500	0.174	0.149	15.4
278543 - MW-11	0.00150	<0.00100	<0.00100	<0.00100	<0.00600
278544 - MW-12	1.02 Qr,Qs	<0.0500 Qr,Qs	<0.0500 Qr,Qs	<0.0500 Qr,Qs	1.02
278545 - MW-18	0.504 Qr,Qs	<0.0100 Qr,Qs	<0.0100 Qr,Qs	<0.0100 Qr,Qs	0.504



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 3, 2011

Work Order: 11092901



Project Location: Hobbs, NM
Project Name: Deep 6 in.
Project Number: 700376.051.01
SRS #: 2002-10312

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
278534	MW-1	water	2011-09-27	10:35	2011-09-28
278535	MW-3	water	2011-09-27	10:50	2011-09-28
278536	MW-4	water	2011-09-27	10:55	2011-09-28
278537	MW-5	water	2011-09-27	10:45	2011-09-28
278538	MW-6	water	2011-09-27	10:25	2011-09-28
278539	MW-7	water	2011-09-27	10:31	2011-09-28
278540	MW-8	water	2011-09-27	10:40	2011-09-28
278541	MW-9	water	2011-09-27	12:00	2011-09-28
278542	MW-10	water	2011-09-27	11:35	2011-09-28
278543	MW-11	water	2011-09-27	11:40	2011-09-28
278544	MW-12	water	2011-09-27	12:08	2011-09-28
278545	MW-18	water	2011-09-27	10:15	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 17 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 Deep 6 in. were received by TraceAnalysis, Inc. on 2011-09-28 and assigned to work order 11092901. Samples for work order 11092901 were received intact without headspace and at a temperature of 5.0 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	72276	2011-09-29 at 13:23	85129	2011-09-29 at 13:23
BTEX	S 8021B	72321	2011-09-30 at 16:30	85186	2011-09-30 at 16:30
Total BTEX	S 8021B	72276	2011-09-29 at 13:23	85129	2011-09-29 at 13:23
Total BTEX	S 8021B	72321	2011-09-30 at 16:30	85186	2011-09-30 at 16:30

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 11092901 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 3, 2011
700376.051.01

Work Order: 11092901
Deep 6 in.

Page Number: 5 of 17
Hobbs, NM

Analytical Report

Sample: 278534 - MW-1

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)			0.0869	mg/L	1	0.100	87	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0990	mg/L	1	0.100	99	70 - 130

Sample: 278535 - MW-3

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	2.95	mg/L	50	0.00100
Toluene		1	0.468	mg/L	50	0.00100
Ethylbenzene		1	0.314	mg/L	50	0.00100
Xylene		1	0.451	mg/L	50	0.00100
Total BTEX			4.18	mg/L	1	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.26	mg/L	50	5.00	85	70 - 130
4-Bromofluorobenzene (4-BFB)			5.05	mg/L	50	5.00	101	70 - 130

Report Date: October 3, 2011
700376.051.01

Work Order: 11092901
Deep 6 in.

Page Number: 6 of 17
Hobbs, NM

Sample: 278536 - MW-4

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)			0.0884	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0983	mg/L	1	0.100	98	70 - 130

Sample: 278537 - MW-5

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)			0.0888	mg/L	1	0.100	89	70 - 130
4-Bromofluorobenzene (4-BFB)			0.101	mg/L	1	0.100	101	70 - 130

Report Date: October 3, 2011
700376.051.01

Work Order: 11092901
Deep 6 in.

Page Number: 7 of 17
Hobbs, NM

Sample: 278538 - MW-6

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)			0.0888	mg/L	1	0.100	89	70 - 130
4-Bromofluorobenzene (4-BFB)			0.101	mg/L	1	0.100	101	70 - 130

Sample: 278539 - MW-7

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)			0.0898	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)			0.100	mg/L	1	0.100	100	70 - 130

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Sample: 278540 - MW-8

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)			0.0862	mg/L	1	0.100	86	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0980	mg/L	1	0.100	98	70 - 130

Sample: 278541 - MW-9

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	0.364	mg/L	5	0.00100
Toluene	u	1	<0.00500	mg/L	5	0.00100
Ethylbenzene	u	1	<0.00500	mg/L	5	0.00100
Xylene	u	1	<0.00500	mg/L	5	0.00100
Total BTEX			0.364	mg/L	1	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.432	mg/L	5	0.500	86	70 - 130
4-Bromofluorobenzene (4-BFB)			0.507	mg/L	5	0.500	101	70 - 130

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Sample: 278542 - MW-10

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	15.1	mg/L	50	0.00100
Toluene	u	1	<0.0500	mg/L	50	0.00100
Ethylbenzene		1	0.174	mg/L	50	0.00100
Xylene		1	0.149	mg/L	50	0.00100
Total BTEX			15.4	mg/L	1	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.83	mg/L	50	5.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)			5.13	mg/L	50	5.00	103	70 - 130

Sample: 278543 - 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		1	0.00150	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)			0.0864	mg/L	1	0.100	86	70 - 130
4-Bromofluorobenzene (4-BFB)			0.106	mg/L	1	0.100	106	70 - 130

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Sample: 278544 - MW-12

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 85186

Prep Batch: 72321

Analytical Method: S 8021B

Date Analyzed: 2011-09-30

Sample Preparation: 2011-09-30

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,Qs	1	1.02	mg/L	50	0.00100
Toluene	Qr,Qs,U	1	<0.0500	mg/L	50	0.00100
Ethylbenzene	Qr,Qs,U	1	<0.0500	mg/L	50	0.00100
Xylene	Qr,Qs,U	1	<0.0500	mg/L	50	0.00100
Total BTEX			1.02	mg/L	50	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.92	mg/L	50	5.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			4.81	mg/L	50	5.00	96	70 - 130

Sample: 278545 - MW-18

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 85186

Prep Batch: 72321

Analytical Method: S 8021B

Date Analyzed: 2011-09-30

Sample Preparation: 2011-09-30

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,Qs	1	0.504	mg/L	10	0.00100
Toluene	Qr,Qs,U	1	<0.0100	mg/L	10	0.00100
Ethylbenzene	Qr,Qs,U	1	<0.0100	mg/L	10	0.00100
Xylene	Qr,Qs,U	1	<0.0100	mg/L	10	0.00100
Total BTEX			0.504	mg/L	10	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.10	mg/L	10	1.00	110	70 - 130
4-Bromofluorobenzene (4-BFB)			1.10	mg/L	10	1.00	110	70 - 130

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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

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

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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

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.

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Param	F	C	LCS 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	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS 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

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.

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

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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	Qr,Qs	1	0.0610	mg/L	1	0.100	<0.000765	61	70 - 130	45	20
Toluene	Qr,Qs	1	0.0488	mg/L	1	0.100	<0.000719	49	70 - 130	48	20
Ethylbenzene	Qr,Qs	1	0.0480	mg/L	1	0.100	<0.000860	48	70 - 130	46	20
Xylene	Qr,Qs	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

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Calibration Standards

Standard (CCV-1)

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	0.0973	97	80 - 120	2011-09-29
Toluene		1	mg/L	0.100	0.0980	98	80 - 120	2011-09-29
Ethylbenzene		1	mg/L	0.100	0.101	101	80 - 120	2011-09-29
Xylene		1	mg/L	0.300	0.297	99	80 - 120	2011-09-29

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-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

Report Date: October 3, 2011
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Work Order: 11092901
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Standard (CCV-3)

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	0.119	119	80 - 120	2011-09-30
Toluene		1	mg/L	0.100	0.0981	98	80 - 120	2011-09-30
Ethylbenzene		1	mg/L	0.100	0.0937	94	80 - 120	2011-09-30
Xylene		1	mg/L	0.300	0.284	95	80 - 120	2011-09-30

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	T104704219-11-4	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 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.

email: lab@traceanalysis.com

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

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

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

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

Company Name: Talon Phone #: _____

Address: (Street, City, Zip) 2101 State HW 349 Midland 79701 Fax #: _____

Contact Person: Steve Killingsworth E-mail: skillingsworth@talonperm.com

Invoice to: (If different from above) 2002-10312

Project #: 700376.051.01 Project Name: Carrollton Deep 6

Project Location (including state): Haskell 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	BTX 8021 / 602 / 8260 / 625	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8070 / 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, SO ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity	Na, Ca, Mg, K, TDS, EC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Relinquished by: [Signature] Company: Talon Date: 9/29/11 Time: 1705 Received by: [Signature] Company: TA Date: 9/28/11 Time: 1705

Relinquished by: _____ Company: _____ Date: _____ Time: _____ Received by: _____ Company: _____ Date: _____ Time: _____

Relinquished by: _____ Company: _____ Date: _____ Time: _____ Received by: _____ Company: _____ Date: _____ Time: _____

LAB USE ONLY

REMARKS:

Inject Y/N

Headspace Y/N/NA

Log-In/Review

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

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

Carrier #

Curry m

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

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by: <u>W. J. Brown</u> Company: <u>PE</u> Date: <u>9/28/11</u> Time: <u>1705</u>	Received by: <u>W. J. Brown</u> Company: <u>TH</u> Date: <u>9/28/11</u> Time: <u>1705</u>	INST <u>1705</u> OBS <u>20</u> COR <u>20</u>	LAB USE ONLY Intact <u>Y/N</u> Headspace <u>Y/N/NA</u> ☐ Dry Weight Basis Required ☐ TRRP Report Required ☐ Check If Special Reporting Limits Are Needed	REMARKS: <u>on ice</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.

Carrier #

Summary Report

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

Report Date: January 10, 2012

Work Order: 12010504



Project Location: Hobbs, NM
Project Name: Deep 6 in.
Project Number: 700376.051.01
SRS #: 2002-10312

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
285701	MW-1	water	2012-01-04	13:50	2012-01-04
285702	MW-3	water	2012-01-04	10:13	2012-01-04
285703	MW-4	water	2012-01-04	11:17	2012-01-04
285704	MW-5	water	2012-01-04	10:25	2012-01-04
285705	MW-6	water	2012-01-04	11:40	2012-01-04
285706	MW-7	water	2012-01-04	11:25	2012-01-04
285707	MW-8	water	2012-01-04	10:51	2012-01-04
285708	MW-9	water	2012-01-04	10:33	2012-01-04
285709	MW-10	water	2012-01-04	11:07	2012-01-04
285710	MW-11	water	2012-01-04	09:45	2012-01-04
285711	MW-12	water	2012-01-04	10:40	2012-01-04
285712	MW-18	water	2012-01-04	11:32	2012-01-04

Sample - Field Code	BTEX				Total BTEX
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	Total BTEX (mg/L)
285701 - MW-1	0.00310	<0.00100	<0.00100	<0.00100	<0.00600
285702 - MW-3	4.80	<0.100	0.417	0.641	5.86
285703 - MW-4	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
285704 - MW-5	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
285705 - MW-6	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
285706 - MW-7	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
285707 - MW-8	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
285708 - MW-9	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
285709 - MW-10	24.6	<0.200	0.690	0.356	25.6
285710 - MW-11	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600
285711 - MW-12	0.334	<0.00500	<0.00500	<0.00500	0.334
285712 - MW-18	<0.00100	<0.00100	<0.00100	<0.00100	<0.00600



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 10, 2012

Work Order: 12010504



Project Location: Hobbs, NM
Project Name: Deep 6 in.
Project Number: 700376.051.01
SRS #: 2002-10312

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
285701	MW-1	water	2012-01-04	13:50	2012-01-04
285702	MW-3	water	2012-01-04	10:13	2012-01-04
285703	MW-4	water	2012-01-04	11:17	2012-01-04
285704	MW-5	water	2012-01-04	10:25	2012-01-04
285705	MW-6	water	2012-01-04	11:40	2012-01-04
285706	MW-7	water	2012-01-04	11:25	2012-01-04
285707	MW-8	water	2012-01-04	10:51	2012-01-04
285708	MW-9	water	2012-01-04	10:33	2012-01-04
285709	MW-10	water	2012-01-04	11:07	2012-01-04
285710	MW-11	water	2012-01-04	09:45	2012-01-04
285711	MW-12	water	2012-01-04	10:40	2012-01-04
285712	MW-18	water	2012-01-04	11:32	2012-01-04

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 23 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 Deep 6 in. were received by TraceAnalysis, Inc. on 2012-01-04 and assigned to work order 12010504. Samples for work order 12010504 were received intact without headspace and at a temperature of 3.4 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	74403	2012-01-05 at 13:30	87628	2012-01-05 at 13:30
BTEX	S 8021B	74408	2012-01-06 at 08:50	87635	2012-01-06 at 08:50
BTEX	S 8021B	74409	2012-01-06 at 08:50	87637	2012-01-06 at 08:50
BTEX	S 8021B	74411	2012-01-06 at 11:27	87639	2012-01-06 at 11:27
Total BTEX	S 8021B	74403	2012-01-05 at 13:30	87628	2012-01-05 at 13:30
Total BTEX	S 8021B	74408	2012-01-06 at 08:50	87635	2012-01-06 at 08:50
Total BTEX	S 8021B	74409	2012-01-06 at 08:50	87637	2012-01-06 at 08:50
Total BTEX	S 8021B	74411	2012-01-06 at 11:27	87639	2012-01-06 at 11:27

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 12010504 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: January 10, 2012
700376.051.01

Work Order: 12010504
Deep 6 in.

Page Number: 6 of 23
Hobbs, NM

Analytical Report

Sample: 285701 - MW-1

Laboratory: Lubbock
Analysis: BTEX, Total BTEX
QC Batch: 87628
Prep Batch: 74403

Analytical Method: S 8021B
Date Analyzed: 2012-01-05
Sample Preparation: 2012-01-05

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.00310	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)			0.0909	mg/L	1	0.100	91	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0983	mg/L	1	0.100	98	70 - 130

Sample: 285702 - MW-3

Laboratory: Lubbock
Analysis: BTEX, Total BTEX
QC Batch: 87635
Prep Batch: 74408

Analytical Method: S 8021B
Date Analyzed: 2012-01-06
Sample Preparation: 2012-01-06

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	4.80	mg/L	100	0.00100
Toluene	u	1	<0.100	mg/L	100	0.00100
Ethylbenzene		1	0.417	mg/L	100	0.00100
Xylene		1	0.641	mg/L	100	0.00100
Total BTEX			5.86	mg/L	1	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			9.41	mg/L	100	10.0	94	70 - 130
4-Bromofluorobenzene (4-BFB)			9.94	mg/L	100	10.0	99	70 - 130

Report Date: January 10, 2012
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Work Order: 12010504
Deep 6 in.

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Sample: 285703 - MW-4

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 87635

Prep Batch: 74408

Analytical Method: S 8021B

Date Analyzed: 2012-01-06

Sample Preparation: 2012-01-06

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)			0.0861	mg/L	1	0.100	86	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0934	mg/L	1	0.100	93	70 - 130

Sample: 285704 - MW-5

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 87628

Prep Batch: 74403

Analytical Method: S 8021B

Date Analyzed: 2012-01-05

Sample Preparation: 2012-01-05

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)			0.0963	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.102	mg/L	1	0.100	102	70 - 130

Report Date: January 10, 2012
700376.051.01

Work Order: 12010504
Deep 6 in.

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Sample: 285705 - MW-6

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 87628

Prep Batch: 74403

Analytical Method: S 8021B

Date Analyzed: 2012-01-05

Sample Preparation: 2012-01-05

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)			0.0998	mg/L	1	0.100	100	70 - 130
4-Bromofluorobenzene (4-BFB)			0.104	mg/L	1	0.100	104	70 - 130

Sample: 285706 - MW-7

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 87628

Prep Batch: 74403

Analytical Method: S 8021B

Date Analyzed: 2012-01-05

Sample Preparation: 2012-01-05

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)			0.0935	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0983	mg/L	1	0.100	98	70 - 130

Report Date: January 10, 2012
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Work Order: 12010504
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Sample: 285707 - MW-8

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 87628

Prep Batch: 74403

Analytical Method: S 8021B

Date Analyzed: 2012-01-05

Sample Preparation: 2012-01-05

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)			0.0928	mg/L	1	0.100	93	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0983	mg/L	1	0.100	98	70 - 130

Sample: 285708 - MW-9

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 87628

Prep Batch: 74403

Analytical Method: S 8021B

Date Analyzed: 2012-01-05

Sample Preparation: 2012-01-05

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)			0.0786	mg/L	1	0.100	79	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0823	mg/L	1	0.100	82	70 - 130

Report Date: January 10, 2012
700376.051.01

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Sample: 285709 - MW-10

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 87639

Prep Batch: 74411

Analytical Method: S 8021B

Date Analyzed: 2012-01-06

Sample Preparation: 2012-01-06

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	24.6	mg/L	200	0.00100
Toluene	u	1	<0.200	mg/L	200	0.00100
Ethylbenzene		1	0.690	mg/L	200	0.00100
Xylene		1	0.356	mg/L	200	0.00100
Total BTEX			25.6	mg/L	200	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			15.7	mg/L	200	20.0	78	70 - 130
4-Bromofluorobenzene (4-BFB)			15.4	mg/L	200	20.0	77	70 - 130

Sample: 285710 - MW-11

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 87628

Prep Batch: 74403

Analytical Method: S 8021B

Date Analyzed: 2012-01-05

Sample Preparation: 2012-01-05

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)			0.0944	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0998	mg/L	1	0.100	100	70 - 130

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Sample: 285711 - MW-12

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 87637

Prep Batch: 74409

Analytical Method: S 8021B

Date Analyzed: 2012-01-06

Sample Preparation: 2012-01-06

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.334	mg/L	5	0.00100
Toluene	u	1	<0.00500	mg/L	5	0.00100
Ethylbenzene	u	1	<0.00500	mg/L	5	0.00100
Xylene	u	1	<0.00500	mg/L	5	0.00100
Total BTEX			0.334	mg/L	5	0.00600

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.372	mg/L	5	0.500	74	70 - 130
4-Bromofluorobenzene (4-BFB)			0.411	mg/L	5	0.500	82	70 - 130

Sample: 285712 - MW-18

Laboratory: Lubbock

Analysis: BTEX, Total BTEX

QC Batch: 87628

Prep Batch: 74403

Analytical Method: S 8021B

Date Analyzed: 2012-01-05

Sample Preparation: 2012-01-05

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)			0.0871	mg/L	1	0.100	87	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0928	mg/L	1	0.100	93	70 - 130

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Method Blanks

Method Blank (1) QC Batch: 87628

QC Batch: 87628
Prep Batch: 74403

Date Analyzed: 2012-01-05
QC Preparation: 2012-01-05

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)			0.0881	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0940	mg/L	1	0.100	94	70 - 130

Method Blank (1) QC Batch: 87635

QC Batch: 87635
Prep Batch: 74408

Date Analyzed: 2012-01-06
QC Preparation: 2012-01-06

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)			0.0833	mg/L	1	0.100	83	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0909	mg/L	1	0.100	91	70 - 130

Method Blank (1) QC Batch: 87637

QC Batch: 87637
Prep Batch: 74409

Date Analyzed: 2012-01-06
QC Preparation: 2012-01-06

Analyzed By: ZLM
Prepared By: ZLM

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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)			0.0940	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.100	mg/L	1	0.100	100	70 - 130

Method Blank (1) QC Batch: 87639

QC Batch: 87639
Prep Batch: 74411

Date Analyzed: 2012-01-06
QC Preparation: 2012-01-06

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)			0.0891	mg/L	1	0.100	89	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0815	mg/L	1	0.100	82	70 - 130

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 87628
Prep Batch: 74403

Date Analyzed: 2012-01-05
QC Preparation: 2012-01-05

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0941	mg/L	1	0.100	<0.000765	94	70 - 130
Toluene		1	0.0981	mg/L	1	0.100	<0.000719	98	70 - 130
Ethylbenzene		1	0.0943	mg/L	1	0.100	<0.000860	94	70 - 130
Xylene		1	0.272	mg/L	1	0.300	<0.000942	91	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	0.0948	mg/L	1	0.100	<0.000765	95	70 - 130	1	20
Toluene		1	0.0975	mg/L	1	0.100	<0.000719	98	70 - 130	1	20
Ethylbenzene		1	0.0939	mg/L	1	0.100	<0.000860	94	70 - 130	0	20
Xylene		1	0.271	mg/L	1	0.300	<0.000942	90	70 - 130	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0812	0.0872	mg/L	1	0.100	81	87	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0816	0.0899	mg/L	1	0.100	82	90	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 87635
Prep Batch: 74408

Date Analyzed: 2012-01-06
QC Preparation: 2012-01-06

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0955	mg/L	1	0.100	<0.000765	96	70 - 130
Toluene		1	0.0970	mg/L	1	0.100	<0.000719	97	70 - 130
Ethylbenzene		1	0.0919	mg/L	1	0.100	<0.000860	92	70 - 130
Xylene		1	0.266	mg/L	1	0.300	<0.000942	89	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	0.0961	mg/L	1	0.100	<0.000765	96	70 - 130	1	20
Toluene		1	0.0979	mg/L	1	0.100	<0.000719	98	70 - 130	1	20
Ethylbenzene		1	0.0926	mg/L	1	0.100	<0.000860	93	70 - 130	1	20
Xylene		1	0.270	mg/L	1	0.300	<0.000942	90	70 - 130	2	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0873	0.0739	mg/L	1	0.100	87	74	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0906	0.0760	mg/L	1	0.100	91	76	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 87637
Prep Batch: 74409

Date Analyzed: 2012-01-06
QC Preparation: 2012-01-06

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0933	mg/L	1	0.100	<0.000765	93	70 - 130
Toluene		1	0.0965	mg/L	1	0.100	<0.000719	96	70 - 130
Ethylbenzene		1	0.0916	mg/L	1	0.100	<0.000860	92	70 - 130
Xylene		1	0.266	mg/L	1	0.300	<0.000942	89	70 - 130

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	0.0944	mg/L	1	0.100	<0.000765	94	70 - 130	1	20
Toluene		1	0.0968	mg/L	1	0.100	<0.000719	97	70 - 130	0	20
Ethylbenzene		1	0.0920	mg/L	1	0.100	<0.000860	92	70 - 130	0	20
Xylene		1	0.267	mg/L	1	0.300	<0.000942	89	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)	0.0828	0.0906	mg/L	1	0.100	83	91	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0857	0.0934	mg/L	1	0.100	86	93	70 - 130

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Laboratory Control Spike (LCS-1)

QC Batch: 87639
Prep Batch: 74411

Date Analyzed: 2012-01-06
QC Preparation: 2012-01-06

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0966	mg/L	1	0.100	<0.000743	97	70 - 130
Toluene		1	0.0958	mg/L	1	0.100	<0.000671	96	70 - 130
Ethylbenzene		1	0.0968	mg/L	1	0.100	<0.000923	97	70 - 130
Xylene		1	0.296	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.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0980	mg/L	1	0.100	<0.000743	98	70 - 130	1	20
Toluene		1	0.0974	mg/L	1	0.100	<0.000671	97	70 - 130	2	20
Ethylbenzene		1	0.0974	mg/L	1	0.100	<0.000923	97	70 - 130	1	20
Xylene		1	0.300	mg/L	1	0.300	<0.000838	100	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)	0.0845	0.0899	mg/L	1	0.100	84	90	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0848	0.0934	mg/L	1	0.100	85	93	70 - 130

Matrix Spike (MS-1) Spiked Sample: 285701

QC Batch: 87628
Prep Batch: 74403

Date Analyzed: 2012-01-05
QC Preparation: 2012-01-05

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0969	mg/L	1	0.100	0.0031	94	70 - 130
Toluene		1	0.0968	mg/L	1	0.100	<0.000719	97	70 - 130
Ethylbenzene		1	0.0934	mg/L	1	0.100	<0.000860	93	70 - 130
Xylene		1	0.270	mg/L	1	0.300	<0.000942	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	0.0942	mg/L	1	0.100	0.0031	91	70 - 130	3	20
Toluene		1	0.0936	mg/L	1	0.100	<0.000719	94	70 - 130	3	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	0.0915	mg/L	1	0.100	<0.000860	92	70 - 130	2	20
Xylene		1	0.265	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	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0946	0.0901	mg/L	1	0.1	95	90	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0961	0.0937	mg/L	1	0.1	96	94	70 - 130

Matrix Spike (MS-1) Spiked Sample: 285702

QC Batch: 87635
Prep Batch: 74408

Date Analyzed: 2012-01-06
QC Preparation: 2012-01-06

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	14.4	mg/L	100	10.0	4.8	96	70 - 130
Toluene		1	9.80	mg/L	100	10.0	<0.0719	98	70 - 130
Ethylbenzene		1	9.77	mg/L	100	10.0	0.417	94	70 - 130
Xylene		1	27.6	mg/L	100	30.0	0.641	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	14.3	mg/L	100	10.0	4.8	95	70 - 130	1	20
Toluene		1	9.83	mg/L	100	10.0	<0.0719	98	70 - 130	0	20
Ethylbenzene		1	9.82	mg/L	100	10.0	0.417	94	70 - 130	0	20
Xylene		1	27.8	mg/L	100	30.0	0.641	90	70 - 130	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	7.86	8.52	mg/L	100	10	79	85	70 - 130
4-Bromofluorobenzene (4-BFB)	7.71	8.40	mg/L	100	10	77	84	70 - 130

Matrix Spike (MS-1) Spiked Sample: 285711

QC Batch: 87637
Prep Batch: 74409

Date Analyzed: 2012-01-06
QC Preparation: 2012-01-06

Analyzed By: ZLM
Prepared By: ZLM

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Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.800	mg/L	5	0.500	0.334	93	70 - 130
Toluene		1	0.481	mg/L	5	0.500	<0.00360	96	70 - 130
Ethylbenzene		1	0.466	mg/L	5	0.500	<0.00430	93	70 - 130
Xylene		1	1.35	mg/L	5	1.50	<0.00471	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	0.796	mg/L	5	0.500	0.334	92	70 - 130	0	20
Toluene		1	0.483	mg/L	5	0.500	<0.00360	97	70 - 130	0	20
Ethylbenzene		1	0.465	mg/L	5	0.500	<0.00430	93	70 - 130	0	20
Xylene		1	1.34	mg/L	5	1.50	<0.00471	89	70 - 130	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.404	0.411	mg/L	5	0.5	81	82	70 - 130
4-Bromofluorobenzene (4-BFB)	0.424	0.429	mg/L	5	0.5	85	86	70 - 130

Matrix Spike (MS-1) Spiked Sample: 285709

QC Batch: 87639
Prep Batch: 74411

Date Analyzed: 2012-01-06
QC Preparation: 2012-01-06

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	41.4	mg/L	200	20.0	24.6	84	70 - 130
Toluene		1	19.4	mg/L	200	20.0	<0.134	97	70 - 130
Ethylbenzene		1	20.3	mg/L	200	20.0	0.69	98	70 - 130
Xylene		1	60.4	mg/L	200	60.0	0.356	100	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	41.8	mg/L	200	20.0	24.6	86	70 - 130	1	20
Toluene		1	18.7	mg/L	200	20.0	<0.134	94	70 - 130	4	20
Ethylbenzene		1	19.8	mg/L	200	20.0	0.69	96	70 - 130	2	20
Xylene		1	58.9	mg/L	200	60.0	0.356	98	70 - 130	2	20

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 ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	18.5	18.7	mg/L	200	20	92	94	70 - 130
4-Bromofluorobenzene (4-BFB)	18.1	18.1	mg/L	200	20	90	90	70 - 130

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Calibration Standards

Standard (CCV-1)

QC Batch: 87628

Date Analyzed: 2012-01-05

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	0.0957	96	80 - 120	2012-01-05
Toluene		1	mg/L	0.100	0.0983	98	80 - 120	2012-01-05
Ethylbenzene		1	mg/L	0.100	0.0935	94	80 - 120	2012-01-05
Xylene		1	mg/L	0.300	0.271	90	80 - 120	2012-01-05

Standard (CCV-2)

QC Batch: 87628

Date Analyzed: 2012-01-05

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	0.0980	98	80 - 120	2012-01-05
Toluene		1	mg/L	0.100	0.100	100	80 - 120	2012-01-05
Ethylbenzene		1	mg/L	0.100	0.0954	95	80 - 120	2012-01-05
Xylene		1	mg/L	0.300	0.275	92	80 - 120	2012-01-05

Standard (CCV-3)

QC Batch: 87628

Date Analyzed: 2012-01-05

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	0.0957	96	80 - 120	2012-01-05
Toluene		1	mg/L	0.100	0.0968	97	80 - 120	2012-01-05
Ethylbenzene		1	mg/L	0.100	0.0918	92	80 - 120	2012-01-05
Xylene		1	mg/L	0.300	0.266	89	80 - 120	2012-01-05

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Standard (CCV-1)

QC Batch: 87635

Date Analyzed: 2012-01-06

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	0.0948	95	80 - 120	2012-01-06
Toluene		1	mg/L	0.100	0.0960	96	80 - 120	2012-01-06
Ethylbenzene		1	mg/L	0.100	0.0904	90	80 - 120	2012-01-06
Xylene		1	mg/L	0.300	0.262	87	80 - 120	2012-01-06

Standard (CCV-2)

QC Batch: 87635

Date Analyzed: 2012-01-06

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	0.0955	96	80 - 120	2012-01-06
Toluene		1	mg/L	0.100	0.0989	99	80 - 120	2012-01-06
Ethylbenzene		1	mg/L	0.100	0.0935	94	80 - 120	2012-01-06
Xylene		1	mg/L	0.300	0.270	90	80 - 120	2012-01-06

Standard (CCV-1)

QC Batch: 87637

Date Analyzed: 2012-01-06

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	0.0941	94	80 - 120	2012-01-06
Toluene		1	mg/L	0.100	0.0974	97	80 - 120	2012-01-06
Ethylbenzene		1	mg/L	0.100	0.0933	93	80 - 120	2012-01-06
Xylene		1	mg/L	0.300	0.270	90	80 - 120	2012-01-06

Standard (CCV-2)

QC Batch: 87637

Date Analyzed: 2012-01-06

Analyzed By: ZLM

Report Date: January 10, 2012
700376.051.01

Work Order: 12010504
Deep 6 in.

Page Number: 22 of 23
Hobbs, NM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0961	96	80 - 120	2012-01-06
Toluene		1	mg/L	0.100	0.0981	98	80 - 120	2012-01-06
Ethylbenzene		1	mg/L	0.100	0.0923	92	80 - 120	2012-01-06
Xylene		1	mg/L	0.300	0.267	89	80 - 120	2012-01-06

Standard (CCV-1)

QC Batch: 87639

Date Analyzed: 2012-01-06

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	0.0961	96	80 - 120	2012-01-06
Toluene		1	mg/L	0.100	0.0950	95	80 - 120	2012-01-06
Ethylbenzene		1	mg/L	0.100	0.0962	96	80 - 120	2012-01-06
Xylene		1	mg/L	0.300	0.296	99	80 - 120	2012-01-06

Standard (CCV-2)

QC Batch: 87639

Date Analyzed: 2012-01-06

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	0.0968	97	80 - 120	2012-01-06
Toluene		1	mg/L	0.100	0.0947	95	80 - 120	2012-01-06
Ethylbenzene		1	mg/L	0.100	0.0947	95	80 - 120	2012-01-06
Xylene		1	mg/L	0.300	0.293	98	80 - 120	2012-01-06

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 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.

12010504 TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-12965002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-34438808 Camp Bowie Blvd. West, Suite 180
Ft. Worth, Texas 76116
Tel (817) 201-5260
Fax (817) 560-4336

Company Name: Talon LPE	Phone #:
Address: (Street, City, Zip) 2901 State Hwy 349	Fax #:
Contact Person: Steve K. Illingsworth	E-mail: skillingworth@talonlpe.com
Invoice to: (If different from above) 2002 - 10250 10312	
Project #: 700376.051.01	Project Name: Deep 6"
Project Location (including state): Lovington NM	Sampler Signature: B. J. B.

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		MTBE 8021B / 6021B	BTX 8021B / 6021B	TPH 418.1 / TX1005	TPH 8015 GRO / DD	PAH 8270C / 625	Total Metals Ag As Ba C	TCLP Metals Ag As	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B /	GC/MS Semi. Vol. 8	PCB's 8082 / 608	Pesticides 8081A / 6	BOD, TSS, pH	Moisture Content	Turn Around Time if	Hold
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE																			
285701	MW 1	3		X				X				X	1-14	1350	X																		
702	MW 3													1013																			
703	4													1117																			
704	5													1025																			
705	6													1140																			
706	7													1125																			
707	8													1051																			
708	9													1033																			
709	10													1107																			
710	11													0945																			
711	12													1040																			
712	13													1132																			

Relinquished by: B. J. B.	Company: Talon	Date: 1-4-12	Time: 4:30	Received by: B. J. B.	Company: Talon	Date: 1-4-12	Time: 4:30	Temp: 3.3
Relinquished by: B. J. B.	Company: Talon	Date: 1-4-12	Time: 4:30	Received by: B. J. B.	Company: Talon	Date: 1-4-12	Time: 4:30	Temp: 3.4
Relinquished by: B. J. B.	Company: Talon	Date: 1-4-12	Time: 4:30	Received by: B. J. B.	Company: Talon	Date: 1-4-12	Time: 4:30	Temp: 3.4

LAB USE ONLY

Integ. Y N

Headspace Y N NA

Log-in Review

REMARKS:

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

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

Carrier #

C. J. B.

ORIGINAL COPY

APPENDIX D

NMOCD C-141

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

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

Form C-141
Revised 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 ☐ Initial Report ☒ Final Report
RP-1274

Name of Company: Plains All American Pipeline, L.P. (formerly Link Energy and EOTT)	Contact: Camille Reynolds
Address: 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No.: 505.441.0965
Facility Name: Lovington Deep 6"	Facility Type: Crude Oil Pipeline

Surface Owner: Darr Angell	Mineral Owner:	Lease No.:
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LOCATION OF RELEASE

Unit Letter H	Section 6	Township 17S	Range 36E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea Lat.: 32°52'1.132"N Lon: 103°23'16.570"W
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NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 25 bbls	Volume Recovered: 10 bbls
Source of Release: 6" steel pipeline	Date and Hour of Occurrence: 12-12-02 8:00 AM	Date and Hour of Discovery: 12-12-02 10:00 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Paul Sheeley and Sylvia Dickie, Hobbs NMOCD (left messages) Confirmed with Sylvia Dickie at 11:45 AM 12-12-02	
By Whom? Pat McCasland (Environmental Plus, Inc.)	Date and Hour: NMOCD notified on 12-12-02 10:30 AM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.* NA

Describe Cause of Problem and Remedial Action Taken.* The cause of the leak was internal/external corrosion. The contaminated soil was stockpiled on a plastic barrier. Disposing at South Monument SWF

Describe Area Affected and Cleanup Action Taken.* The crude oil release was excavated; impacted soil was placed adjacent to the excavation, confirmation soil samples were collected from the floor & walls of the excavation. Once confirmation samples were below NMOCD regulatory standards, a 20 mil synthetic liner was installed on the floor of the excavation area, 10,500 cubic yards of stockpiled soil previously processed through a shredder was placed in the excavation area once the impacted soil was deemed acceptable under the NMOCD-approved VOC readings of <100.0 ppm, the site was restored to natural grade.

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: Camille Reynolds	Approved by District Supervisor:	
Title: Remediation Coordinator	Approval Date:	Expiration Date:
Date: July 30, 2007 Phone: 505.441.0965	Conditions of Approval:	Attached ☐

* Attach Additional Sheets If Necessary

EOTT Energy Pipeline Site Information and Metrics		Incident Date and NMOCD Notified?: Discovered 12-12-02 NMOCD verbally notified on 12-12-02	
SITE: Lovington Deep 6"		Assigned Site Reference #: 2002-10312	
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): 25 bbls		Recovered (bbls): 10	
>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: Lovington Deep 6"			
Source of contamination: 6" Steel Crude Oil Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: Darr Angell			
LSP Dimensions: 140' X 75'			
LSP Area: Spill Area ~6,000 ft ²			
Location of Reference Point (RP):			
Location distance and direction from RP:			
Latitude: 32° 52' 1.132"N			
Longitude: 103° 23' 16.570"W			
Elevation above mean sea level: ~3,918 'amsl			
Feet from South Section Line:			
Feet from West Section Line:			
Location- Unit or ¼: UL-H SE ¼ of the NE ¼			
Location- Section: 6			
Location- Township: 17S			
Location- Range: 36E			
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): ~50.0 feet			
Depth of contamination (DC): ?			
Depth to ground water (DG - DC = DtGW): <50 feet			
1. Ground Water		2. Wellhead Protection Area	
If Depth to GW <50 feet: <i>20 points</i>		If <1000' from water source, or; <200' from private domestic water source: <i>20 points</i>	
If Depth to GW 50 to 99 feet: <i>10 points</i>		If >1000' from water source, or; >200' from private domestic water source: <i>0 points</i>	
If Depth to GW >100 feet: <i>0 points</i>		If >1000' from water source, or; >200' from private domestic water source: <i>0 points</i>	
Ground water Score = 20		Wellhead Protection Area Score = 0	
Site Rank (1+2+3) = 20		Surface Water Score = 0	
Total Site Ranking Score and Acceptable Concentrations			
Parameter	>19 (Surface to 50.0' bgs)	10-19	0-9
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX ¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm

¹ 100 ppm field VOC headspace measurement may be substituted for lab analysis