

AP - 54

ANNUAL MONITORING REPORT

YEAR(S):

2008



**PLAINS
ALL AMERICAN**

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March 27, 2009

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

Re: Plains All American – 2008 Annual Monitoring Reports
6 Sites in Lea County, New Mexico

Dear Mr. Hansen:

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

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

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

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

Sincerely,

Jason Henry
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

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**2008 ANNUAL GROUNDWATER
MONITORING AND MONITOR WELL
INSTALLATION REPORT
HOBBS JUNCTION MAINLINE
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
PLAINS SRS # 2003-00017**

Section 26, Township 18 South, Range 37 East

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March 27, 2009

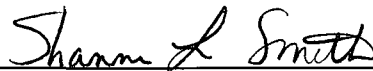
**2008 ANNUAL GROUNDWATER MONITORING AND MONITOR WELL
INSTALLATION REPORT**

**HOBBS JUNCTION MAINLINE
LEA COUNTY, NEW MEXICO
NMOCD REF. # AP-054**

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March 2009

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

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NMOCD Initial C-141

1.0 INTRODUCTION

1.1 Introduction and Site Background

The Hobbs Junction Mainline site is located approximately three miles west of Hobbs, in Lea County, New Mexico. The GPS coordinates of this site are 32° 42' 40.85" latitude and 103° 13' 42.01" longitude. The southern portion of the site is owned by Ms. Faye Klein and the northern portion of the site is owned by the State of New Mexico. A topographic map is provided as Figure 1 included in Appendix A.

1.2 Previous Environmental Investigations

In addition to the soil evaluation at the site, a total of 24 monitor wells were installed in the vicinity of the release (see Figure 1). Initial delineation activities began on February 13, 2003, by advancing a soil boring BH-1 to 28 feet below ground surface (bgs) where an indurated caliche layer prevented further advancement. On March 5, 2003, monitor wells MW-1 and MW-2 were installed to evaluate the presence of phase separated hydrocarbons (PSH). Monitor wells MW-3 through MW-6 were installed in August 2003. After developing monitor wells MW-3 through MW-6, PSH was detected in all the wells. On January 19 and 20, 2004, monitor wells MW-7 through MW-13 were installed to delineate the dissolved phase plume. Subsequent to development, PSH was detected in monitor well MW-12. Monitor wells MW-14 through MW-17 were installed on May 24, 2004, outside the release perimeter. PSH was detected in monitor wells MW-14 and MW-17. Monitor wells MW-18 through MW-20 were installed in November 2006, and monitor wells MW-21 and MW-22 were installed on December 5, 2007, to further delineate the dissolved phase plume.

This site has been subject to a groundwater monitoring program and PSH recovery utilizing an automated eductor system from March 2004 to March 2007. In March 2007, the eductor system was replaced with an automated skimmer recovery system. A total of eight (8) skimmer pumps were installed in monitor wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-12, MW-14, and MW-17. A total fluid pump was installed in monitor well MW-5.

1.3 Regulatory Framework

Groundwater analytical data from this site was compared to the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards listed below. Following sections provide summaries of the groundwater monitoring activities conducted at the site as well as analytical results from each groundwater sampling event of 2008. Analytical results for the four sampling events are summarized in Table 2, Table 3, and Table 4 in Appendix B, and Figures 3a through 4 in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C.

New Mexico Water Quality Control Commission (NMWQCC) groundwater standards	
Compound	mg/L
Benzene	0.010
Toluene	0.750
Ethylbenzene	0.750
Total Xylenes	0.620
PAH (Naphthalene)	0.030
PAH (Benzo[a]-pyrene)	0.007

2.0 SITE ACTIVITIES

The following section presents a summary of the product recovery, annual groundwater monitoring, and investigation activities conducted at the Hobbs Junction Mainline site. The focus of the groundwater monitoring activities included collecting groundwater measurements and groundwater samples from recovery/monitor wells for laboratory analysis.

2.1 Monitor Well Installation Activities

Monitor wells MW-23 and MW-24 were installed as requested by the New Mexico Oil Conservation Division (NMOCD) on March 17, 2008 to further delineate the dissolved phase plume towards the southeast. The benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH) concentrations, from soil samples collected from 5', 20', and 35' sampling intervals, were below NMOCD regulatory guidelines. Analytical results from the soil samples are summarized in Table 8.

2.2 Groundwater Monitoring Activities

A total of four groundwater monitoring events were conducted by Talon/LPE: March 2008; June 2008; August 2008; and November 2008.

During the March 2008 groundwater monitoring event, all monitor wells were gauged. Fourteen monitor wells (MW-7 through MW-11, MW-13, MW-16, and MW-18 through MW-24) were purged and sampled. Ten monitor wells (MW-1 through MW-6, MW-12, MW-14, MW-15, and MW-17) were not sampled due to the presence of PSH. Per the request of Mr. Wayne Price, NMOCD, the Eunice Water Well #6 located approximately 1.3 miles southeast of the site was sampled on March 31, 2008. Details of the gauging, purging, and sampling activities are presented in Section 2.3.

During the June 2008 groundwater monitoring event, all monitor wells were gauged. Nine monitor wells (MW-10, MW-16, and MW-18 through MW-24) were purged and sampled. Eleven monitor wells (MW-1 through MW-6, MW-11, MW-12, MW-14, MW-15, and MW-17) were not sampled due to the presence of PSH. Four monitor wells (MW-7 through MW-9, and MW-13) were not sampled as they are sampled on an annual basis. Details of the gauging, purging, and sampling activities are presented in Section 2.3.

During the August 2008 groundwater monitoring event, all monitor wells were gauged. Nine monitor wells (MW-10, MW-16, and MW-18 through MW-24) were purged and sampled. In addition to the regular quarterly sampling, the NMOCD requested that the wells containing PSH be sampled on an annual basis. Eleven PSH containing monitor wells (MW-1 through MW-6, MW-11, MW-12, MW-14, MW-15, and MW-17) were sampled. Four monitor wells (MW-7 through MW-9, and MW-13) were not sampled as they are sampled on an annual basis. Details of the gauging, purging, and sampling activities are presented in Section 2.3.

During the November 2008 groundwater monitoring event, all monitor wells were gauged. Nine monitor wells (MW-10, MW-16, and MW-18 through MW-24) were purged and sampled. Eleven monitor wells (MW-1 through MW-6, MW-11, MW-12, MW-14, MW-15, and MW-17) were not sampled due to the presence of PSH. Four monitor wells (MW-7 through MW-9, and

MW-13) were not sampled as they are sampled on an annual basis. Details of the gauging, purging, and sampling activities are presented in Section 2.3.

2.3 Groundwater Gauging, Purging, and Sampling Procedures

During each groundwater monitoring event, all monitor wells were measured to determine static water levels and monitor the presence and/or absence of PSH accumulations. Measured groundwater depths and elevations collected during the sampling events, along with historical measurements, are presented in Table 1 – Summary of Historical Fluid Level Measurements.

All wells not containing PSH were purged a minimum of three (3) well volumes prior to sampling. All 2-inch diameter monitor wells were purged utilizing dedicated disposable Teflon bailers. All 4-inch monitor wells were purged utilizing pumps and vinyl tubing. The pumps and tubing used to purge the wells were decontaminated with Alconox® detergent and rinsed with distilled water prior to initial use and between wells. All recovered purged groundwater and recovered decon water was immediately transferred to onsite drums and the fluids are disposed of via vacuum truck. An average of approximately 108 gallons of groundwater was purged during each of the four quarterly groundwater monitoring events.

Groundwater samples were collected from non-PSH affected monitoring wells utilizing dedicated disposable Teflon bailers. The groundwater samples were transferred from the disposable bailer into laboratory supplied sample containers appropriate for the analysis requested. The groundwater samples were maintained on ice in the custody of Talon/LPE, until delivery to TraceAnalysis, Inc. laboratory in Midland, Texas for analysis. The collected samples were analyzed for BTEX by EPA Method SW-846 8021B. Once a year the groundwater was sampled and analyzed for poly-aromatic hydrocarbons (PAH) by EPA/SW-846 Method 8270C. The wells containing PSH were sampled annually by pump, and analyzed for BTEX by EPA Method SW-846 8021B, TPH by Method 8015M/GRO-DRO, and PAH by EPA/SW-846 Method 8270C.

2.4 Phase Separated Hydrocarbon Recovery

An automated educator recovery system was installed at the site in March 2004. On March 2007, the automated educator recovery system was replaced with an automated skimmer recovery system. A total of nine (9) skimmer pumps were installed in monitor wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-12, MW-14, and MW-17. In July 2008, a total of five (5) total fluid pumps were installed in MW-1, MW-3, MW-4, MW-5, and MW-12 to further increase PSH recovery and inhibit migration of the PSH plume. A total of six (6) skimmer pumps are installed in monitor wells MW-2, MW-6, MW-11, MW-14, MW-15, and MW-17. Talon conducts weekly operation and maintenance to the skimmer system and total fluid pumps.

Two (2) frac tanks, connected in series, are utilized for fluid collection and PSH separation. The frac tanks are monitored for the accumulation of PSH on a weekly basis. PSH is removed from the on-site poly tank via a vacuum truck and re-introduced to the Plains' pipeline system via the Scharb Station and/or 34 Junction South pipeline.

During 2008 the quarterly PSH recovery totals are as followed:

- 1st Quarter - 0 gallons (0 bbls)
- 2nd Quarter – 1,260 gallons (30 bbls)
- 3rd Quarter - 0 gallons (0 bbls)
- 4th Quarter – 1,050 gallons (25 bbls)

Approximately 64,110 gallons (1,526 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.

3.1 Groundwater Monitoring Results

The following sections present the results from the monitoring of the first water-bearing zone underlying the Hobbs Junction Mainline site.

3.1.1 Physical Characteristics of the First Water-Bearing Zone

The first water-bearing zone underlying the Hobbs Junction Mainline site is an unconfined aquifer that appears to be part of the Ogallala Aquifer. The first water-bearing zone is likely to exhibit temporal fluctuations in saturated thickness based upon the season and the frequency and intensity of local and regional rainfall. The depth of groundwater has historically been approximately 40 feet bgs and the gradient direction is to the southeast.

3.1.2 Groundwater Gradient and Flow Direction

Water level measurements were collected on March 11, 2008, June 20, 2008, August 20, 21, and 22, 2008, and November 18, 2008. The monitor well fluid level measurement data arising from the four (4) monitoring events is summarized in Table 1, Summary of Historical Fluid Level Measurements, presented in Appendix B.

Potentiometric surface maps were constructed from four (4) of the water level measurement datasets:

- March 11, 2008
- June 20, 2008
- August 19, 2008
- November 18, 2008

These maps are Figure 2a through Figure 2d presented in Appendix A.

The potentiometric surface map for March 2008 was constructed from water level elevations collected from all monitor wells. The water level elevations exhibit a general groundwater direction of flow to the east-southeast with an approximate gradient of 0.005 feet/foot.

The potentiometric surface map for June 2008 was constructed from water level elevations from all monitor wells. The water level elevations exhibit a general groundwater direction of flow to the east-southeast with an approximate gradient of 0.009 feet/foot.

The potentiometric surface map for August 2008 was constructed from water level elevations from all recovery/monitor wells. The water level elevations exhibit a general groundwater direction of flow to the east-southeast with an approximate gradient of 0.005 feet/foot.

The potentiometric surface map for November 2008 was constructed from water level elevations from all recovery/monitor wells. The water level elevations exhibit a general groundwater direction of flow to the south-southwest with an approximate gradient of 0.006 feet/foot.

Based on fluid elevations measured at this site, the groundwater within the first water-bearing zone underlying the Junction Mainline site flows consistently towards the east-southeast.

3.1.3 Phase Separated Hydrocarbon (PSH)

The collection of water level measurement data was conducted using an oil/water interface probe, which was also used to determine the presence of PSH.

- In March 2008, PSH was observed in monitor wells MW-1 through MW-6, MW-12, MW-14, MW-15, and MW-17. PSH thickness ranged from 0.51 feet to 5.79 feet.
- In June 2008, PSH was observed in monitor wells MW-1 through MW-6, MW-11, MW-12, MW-14, MW-15 and MW-17. PSH thickness ranged from 0.22 feet to 5.31 feet.
- In August 2008, PSH was observed in monitor wells MW-1 through MW-6, MW-11, MW-12, MW-14, MW-15 and MW-17. PSH thickness ranged from 0.43 feet to 6.87 feet.
- In November 2008, PSH was observed in monitor wells MW-1 through MW-6, MW-11, MW-12, MW-14, MW-15 and MW-17. PSH thickness ranged from 2.53 feet to 6.45 feet.

On July 16, 2008, a total of four total fluid pumps were installed in MW-1, MW-3, MW-4, and MW-12 in addition to the total fluid pump previously installed in monitor well MW-5. Six monitor wells (MW-2, MW-6, MW-11, MW-14, MW-15, and MW-17) currently have skimmer pumps installed in them. The PSH recovery system has recovered approximately 1525 barrels of PSH to date. In 2008, approximately 55 barrels of crude oil were recovered and reintroduced into the Plains pipeline system. PSH plume maps are presented as Figure 3a through Figure 3d.

3.1.4 Groundwater Sampling Results

During the March 2008 sampling event, monitor wells MW-7 through MW-11, MW-13, and MW-16 through MW-24 were sampled. Per the request of Mr. Wayne Price, NMOCD, the Eunice Water Well #6 located approximately 1.3 miles southeast of the site was sampled on March 31, 2008. Groundwater samples collected from these wells exhibited the following analytical results:

- Benzene concentrations ranged from <0.00100 mg/L to 38.9 mg/L. Benzene concentrations exceeded the NMWQCC remediation limit of 0.010 mg/L in groundwater samples collected from monitor wells MW-10, MW-11, MW-16, and MW-20.
- Toluene concentrations ranged from <0.00100 mg/L to 1.19 mg/L. Toluene concentrations exceeded the NMWQCC remediation limit of 0.750 mg/L in groundwater samples collected from monitor well MW-11.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 2.170 mg/L. Ethylbenzene concentrations exceeded the NMWQCC remediation limit of 0.750 mg/L in groundwater samples collected from monitor wells MW-11 and MW-20.
- Xylene concentrations ranged from <0.00100 mg/L to 1.33 mg/L. Xylene concentrations exceeded the NMWQCC remediation limit of 0.620 mg/L in groundwater samples

collected from monitor wells MW-11 and MW-20.

- The Eunice Water Well #6 did not exhibit concentrations above regulatory guidelines for Total Metals, Volatile Organic Compounds (VOC), Inorganic Contaminants (IOC), Secondaries (SEC), and benzo (a) pyrene.
- Monitor wells MW-1 through MW-6, MW-12, MW-14, MW-15, and MW-17 were not sampled due to the presence of PSH.

During the June 2008 sampling event, monitor wells MW-10, MW-16, and MW-18 through MW-24 were sampled. Groundwater samples collected from these wells exhibited the following:

- Benzene concentrations ranged from <0.00100 mg/L to 30.7 mg/L. Benzene concentrations exceeded the NMWQCC remediation limit of 0.010 mg/L in groundwater samples collected from monitor wells MW-10, MW-20, and MW-21.
- Toluene concentrations ranged from <0.00100 mg/L to <0.200 mg/L. All toluene concentrations were below the NMWQCC remediation limit of 0.750 mg/L.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 1.61 mg/L. Ethylbenzene concentrations exceeded the NMWQCC remediation limit of 0.750 mg/L in groundwater samples collected from monitor well MW-20.
- Xylene concentrations ranged from <0.00100 mg/L to 0.278 mg/L. All xylene concentrations were below the NMWQCC remediation limit of 0.620 mg/L.
- Monitor wells MW-1 through MW-6, MW-11, MW-12, MW-14, MW-15, and MW-17 were not sampled due the presence of PSH.

During the August 2008 sampling event, monitor wells MW-10, MW-16, and MW-18 through MW-24 were sampled. In addition to the regular quarterly sampling, the NMOCD requested that the wells containing PSH be sampled on an annual basis. Groundwater beneath the PSH from monitor wells MW-1 through MW-6, MW-11, MW-12, MW-14, MW-15, and MW-17 was sampled during this sampling event. Groundwater samples collected from these wells exhibited the following:

- Benzene concentrations ranged from <0.00100 mg/L to 31.0 mg/L. Benzene concentrations exceeded the NMWQCC remediation limit of 0.010 mg/L in groundwater samples collected from monitor wells MW-10, MW-20, and MW-21.
- Toluene concentrations ranged from <0.00100 mg/L to <0.200 mg/L. All toluene concentrations were below the NMWQCC remediation limit of 0.750 mg/L.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 1.74 mg/L. Ethylbenzene concentrations exceeded the NMWQCC remediation limit of 0.750 mg/L in groundwater samples collected from monitor well MW-20.
- Xylene concentrations ranged from <0.00100 mg/L to 0.325 mg/L. All xylene concentrations were below the NMWQCC remediation limit of 0.620 mg/L.
- BTEX concentrations exceeded the NMQCC remediation limits in groundwater samples collected beneath the PSH from monitor wells MW-1 through MW-6, MW-11, MW-12, MW-14, MW-15, and MW-17. The NMWQCC does not list an action level for TPH.

During the November 2008 sampling event, monitor wells MW-10, MW-16, and MW-18 through MW-24 were sampled. Groundwater samples collected from these wells exhibited the following:

- Benzene concentrations ranged from <0.00100 mg/L to 27.3 mg/L. Benzene concentrations exceeded the NMWQCC remediation limit of 0.010 mg/L in groundwater samples collected from monitor wells MW-10, MW-20, MW-21, and MW-22.
- Toluene concentrations ranged from <0.00100 mg/L to 0.0253 mg/L. All toluene concentrations were below the NMWQCC remediation limit of 0.750 mg/L.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 1.72 mg/L. Ethylbenzene concentrations exceeded the NMWQCC remediation limit of 0.750 mg/L in the groundwater samples collected from monitor well MW-20.
- Xylene concentrations ranged from <0.00100 mg/L to 0.276 mg/L. All xylene concentrations were below the NMWQCC remediation limit of 0.620 mg/L.
- Monitor wells MW-1 through MW-6, MW-11, MW-12, MW-14, MW-15 and MW-17 were not sampled due to the presence of PSH.

The results of the laboratory analyses are summarized in Table 2 – Summary of Historical Groundwater Analytical Data in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following section presents a summary of the groundwater monitoring events conducted at the Hobbs Junction Mainline site and provides recommendations for future actions.

4.1 Summary of Findings

The groundwater flow direction in the first water-bearing zone is to the east-southeast based upon the water level measurement data collected to date. The number and locations of the existing monitor well array are adequate to detect any movement of the dissolved phase plume that might emanate from the release area. No down-gradient monitor wells exhibited BTEX or TPH concentrations above laboratory reporting limits through the four quarterly groundwater monitoring and sampling events.

PSH has been encountered in monitor wells MW-1 through MW-6, MW-11, MW-12, MW-14, MW-15, and MW-17. Six monitor wells (MW-2, MW-6, MW-11, MW-14, MW-15, and MW-15) currently have skimmer pumps installed in them. Five monitor wells (MW-1, MW-3, MW-4, MW-5, and MW-12) currently have total fluid pumps installed in them. The PSH plume underlying this site has been delineated by the current monitoring system.

Plains has completed a contract with Oxy for water disposal access at the Oxy North Hobbs Satellite 25 facility that is located approximately 2.5 miles to the northeast of the site. Plains is currently in the process of obtaining right-of-way access in order to lay poly line to the disposal facility. Upon receiving right-of-way access, a 4-inch poly line will be installed to connect the remediation site to the disposal facility.

4.2 Recommendations

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

- Continue the quarterly groundwater monitoring program with quarterly updates and annual reporting.
- Continue PSH recovery utilizing the skimmer/total fluid system.
- Gauge recovery/monitor wells once a month to monitor PSH movement.
- Monitor wells MW-7, MW-8, MW-9, and MW-13 will be sampled and analyzed for BTEX and PAH annually.
- Pursuant to the request of the NMOCD, Plains will collect a discrete groundwater sample beneath the PSH for quantification of BTEX, TPH, and PAH.
- On April 17, 2008, a Corrective Action Plan Addendum was submitted to the NMOCD to address the aggressive soil and PSH remediation. Approval of this plan by the NMOCD is pending.

APPENDIX A

Drawings

Figure 1 - Site Plan

Figure 2a - Groundwater Gradient Map – 3/11/2008

Figure 2b - Groundwater Gradient Map – 6/20/2008

Figure 2c - Groundwater Gradient Map – 8/19/2008

Figure 2d - Groundwater Gradient Map – 11/18/2008

Figure 3a – PSH Thickness & Groundwater Concentration Map – 3/11/2008

Figure 3b - PSH Thickness & Groundwater Concentration Map – 6/20/2008

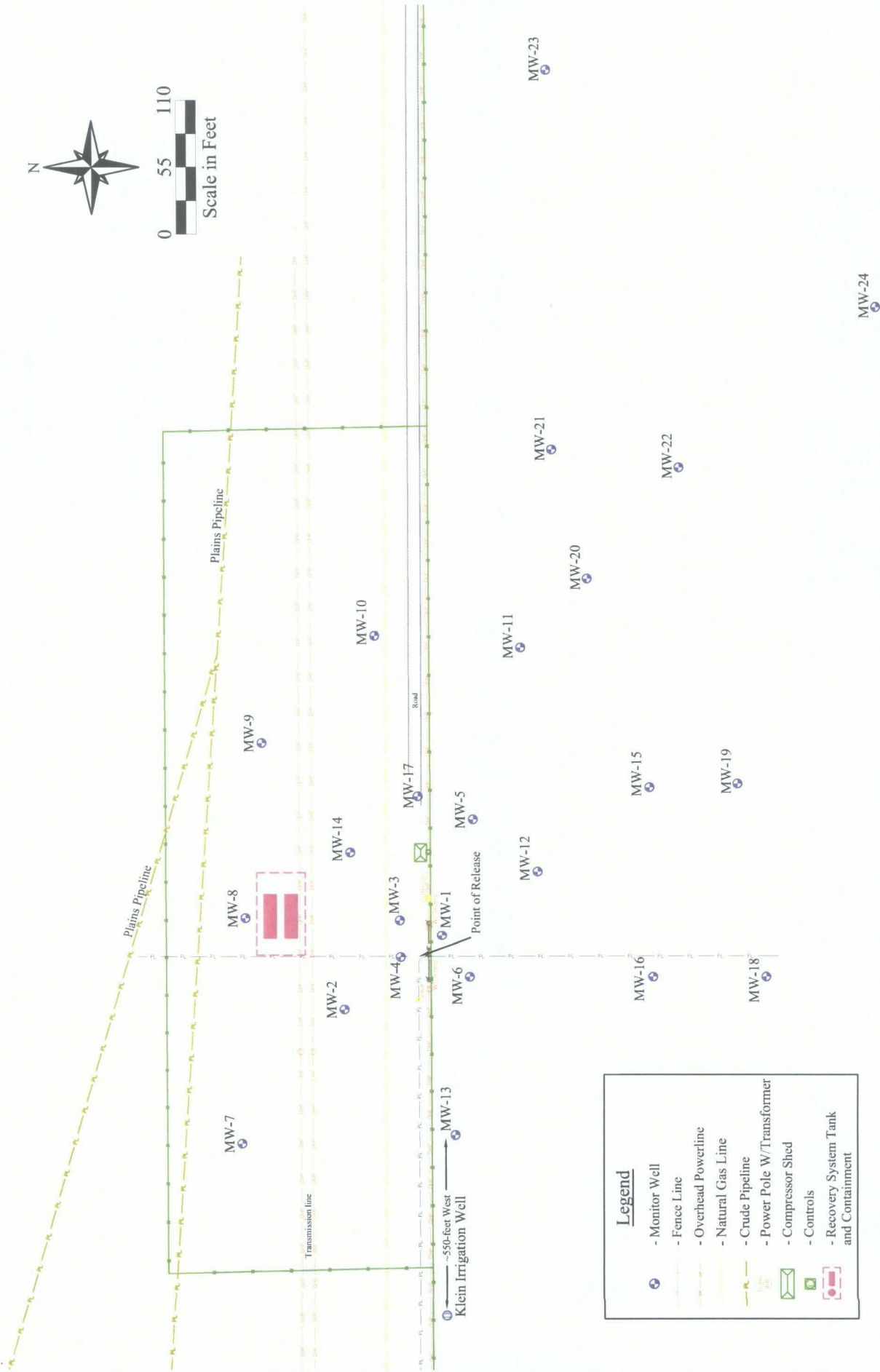
Figure 3c - PSH Thickness & Groundwater Concentration Map – 8/19/2008

Figure 3d - PSH Thickness & Groundwater Concentration Map – 11/18/2008

Figure 4 – Groundwater Concentration in Wells with PSH Map – 8/19/2008



0 55 110
Scale in Feet



Legend

- Monitor Well
- Fence Line
- Overhead Powerline
- Natural Gas Line
- Crude Pipeline
- Power Pole W/Transformer
- Compressor Shed
- Controls
- Recovery System Tank and Containment

Project # PLAINS047SPL



Date: 03/16/2009

Scale: 1" = 110'

Drawn By: SJA

Hobbs Junction Mainline

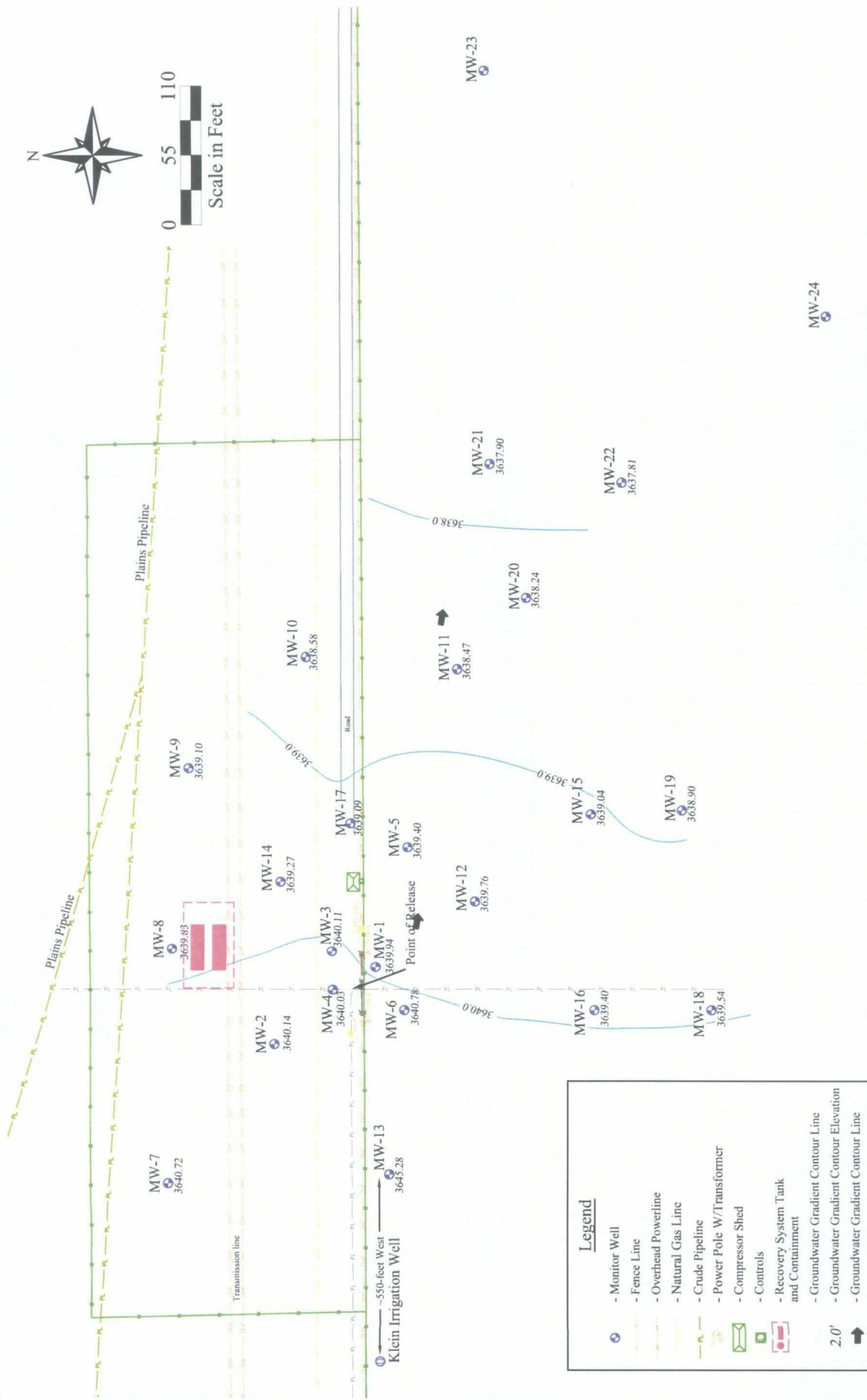
SRS # 2003-00017, NMOCD REF. # AP-054

SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico

Figure 1 - Site Plan



0 55 110
Scale in Feet



Legend

- Monitor Well
- Fence Line
- Overhead Powerline
- Natural Gas Line
- Crude Pipeline
- Power Pole W/Transformer
- Compressor Shed
- Controls
- Recovery System Tank and Containment
- Groundwater Gradient Contour Line
- Groundwater Gradient Contour Elevation
- Groundwater Gradient Contour Line

2.0'

↑

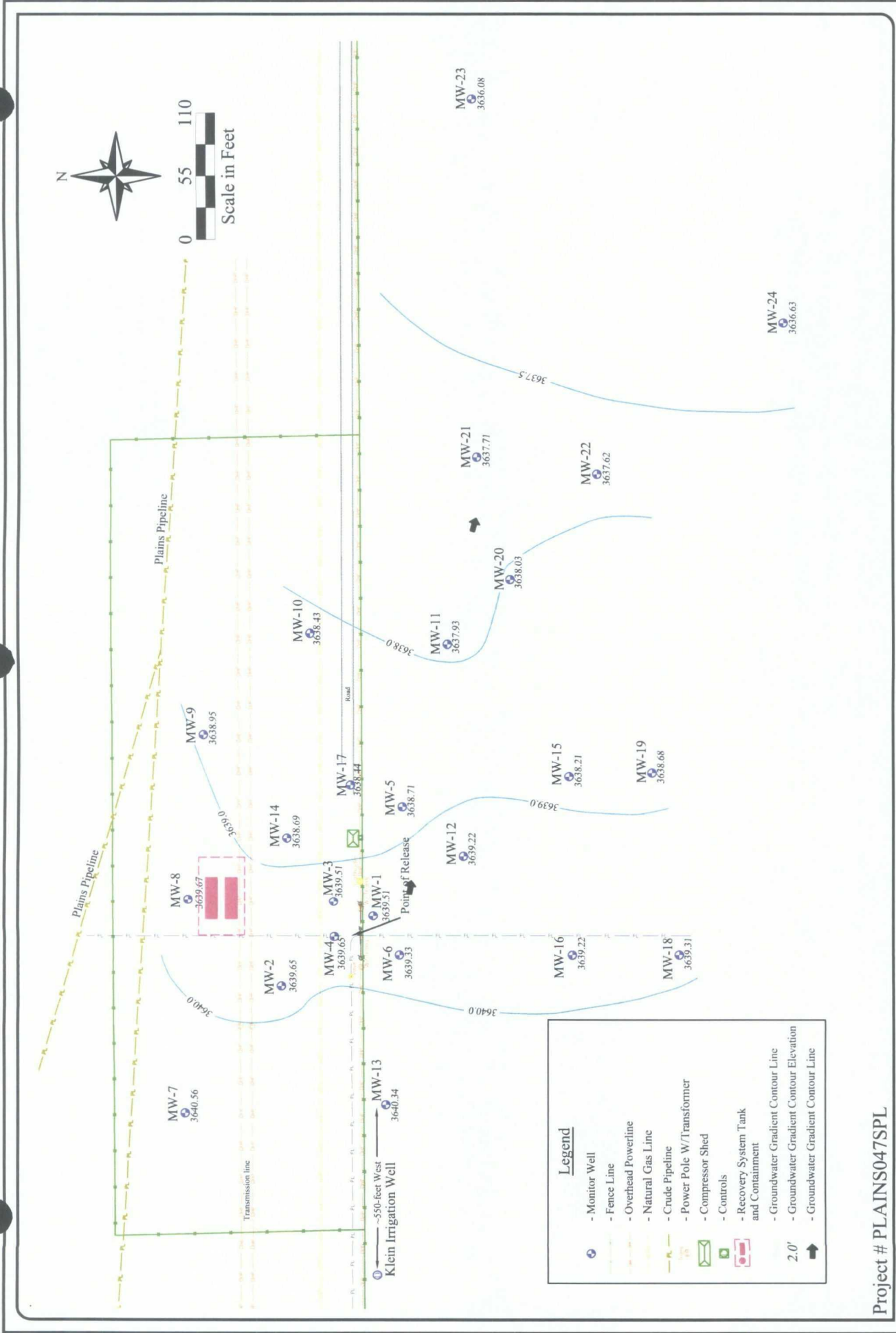
Data not included for MW-23 and MW-24

Project # PLAINS047SPL



Date: 03/23/2009
Scale: 1" = 110'
Drawn By: SJA

Hobbs Junction Mainline
SRS # 2003-00017, NMOCD REF. # AP-054
SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
Figure 2a - Groundwater Gradient Map, (03/11/2008)



Project # PLAINS047SPL

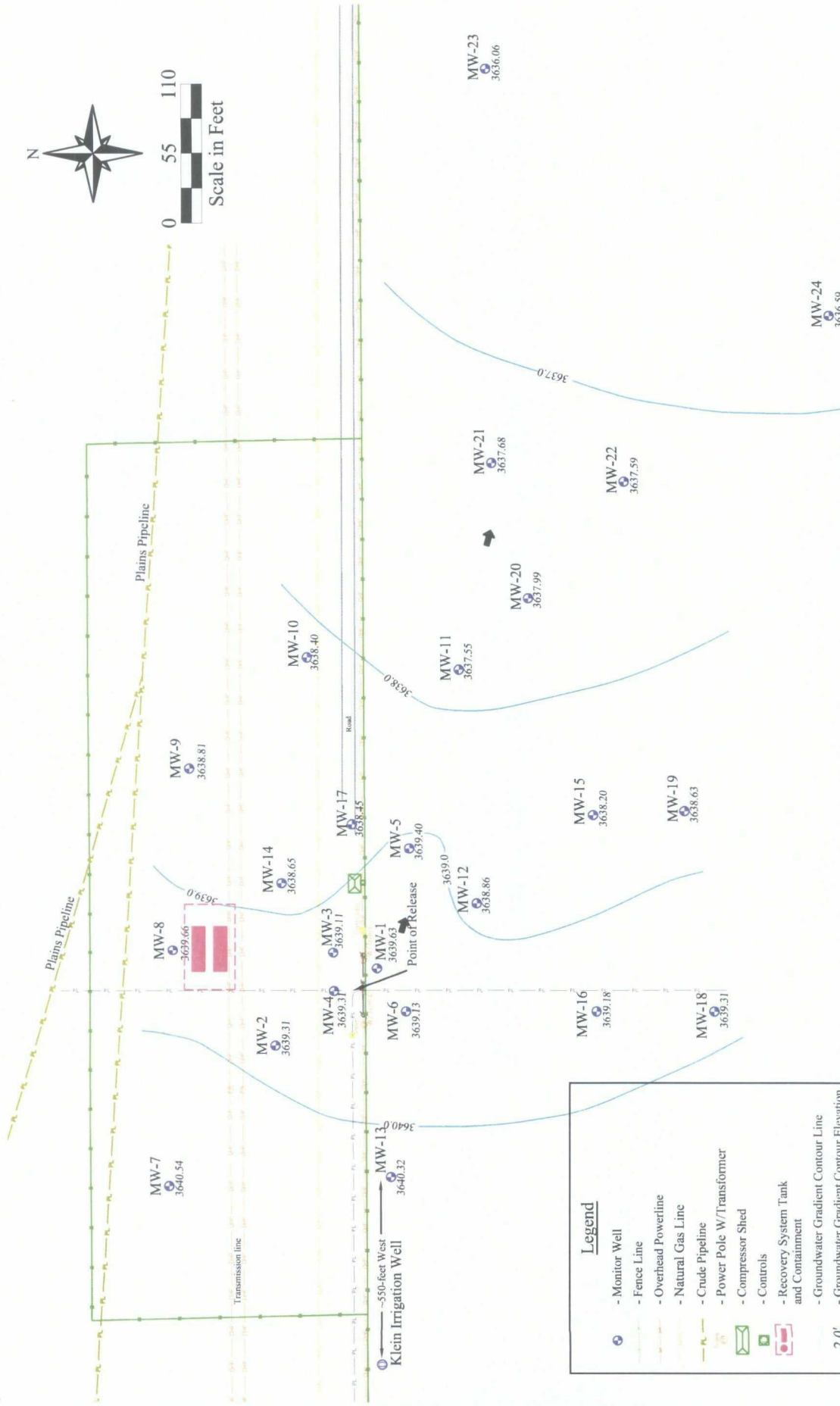


Date: 03/23/2009
 Scale: 1" = 110'
 Drawn By: SJA

Hobbs Junction Mainline
 SRS # 2003-00017, NMOCD REF. # AP-054
 SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
 Figure 2b - Groundwater Gradient Map, - 06/20/2008



0 55 110
Scale in Feet



Legend

- Monitor Well
- Fence Line
- Overhead Powerline
- Natural Gas Line
- Crude Pipeline
- Power Pole W/Transformer
- Compressor Shed
- Controls
- Recovery System Tank and Containment
- Groundwater Gradient Contour Line
- Groundwater Gradient Contour Elevation
- Groundwater Gradient Contour Line

2.0'

↑ Data not included for MW-1

Project # PLAINS047SPL

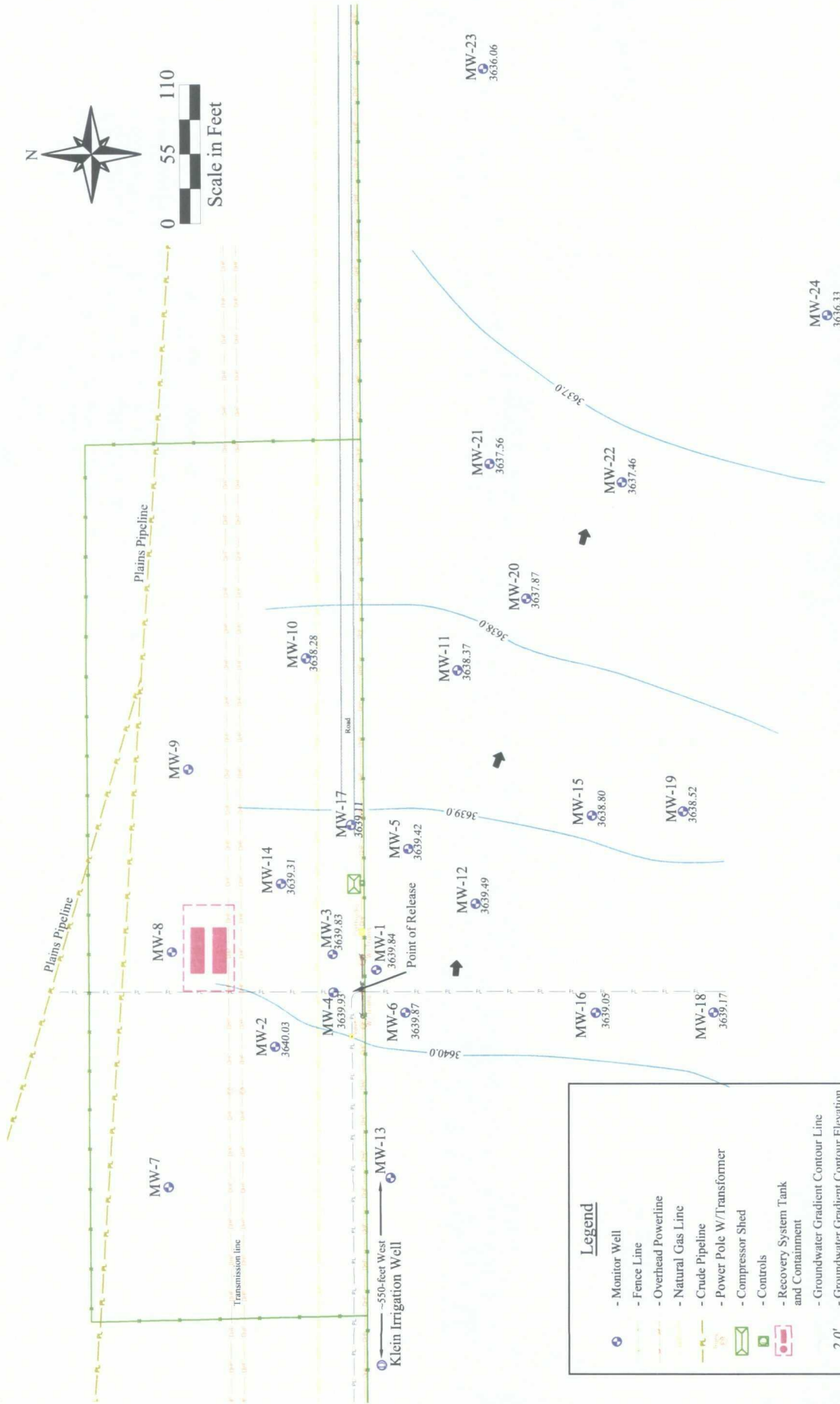


Date: 03/23/2009
Scale: 1" = 110'
Drawn By: SJA

Hobbs Junction Mainline
SRS # 2003-00017, NMOCD REF. # AP-054
SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
Figure 2c - Groundwater Gradient Map, - 08/19/2008



0 55 110
Scale in Feet



Data not included for MW-7, MW-8, MW-9 and MW-13. Sampled Once a year

Project # PLAINS047SPL



Date: 03/23/2009

Scale: 1" = 110'

Drawn By: SJA

Hobbs Junction Mainline

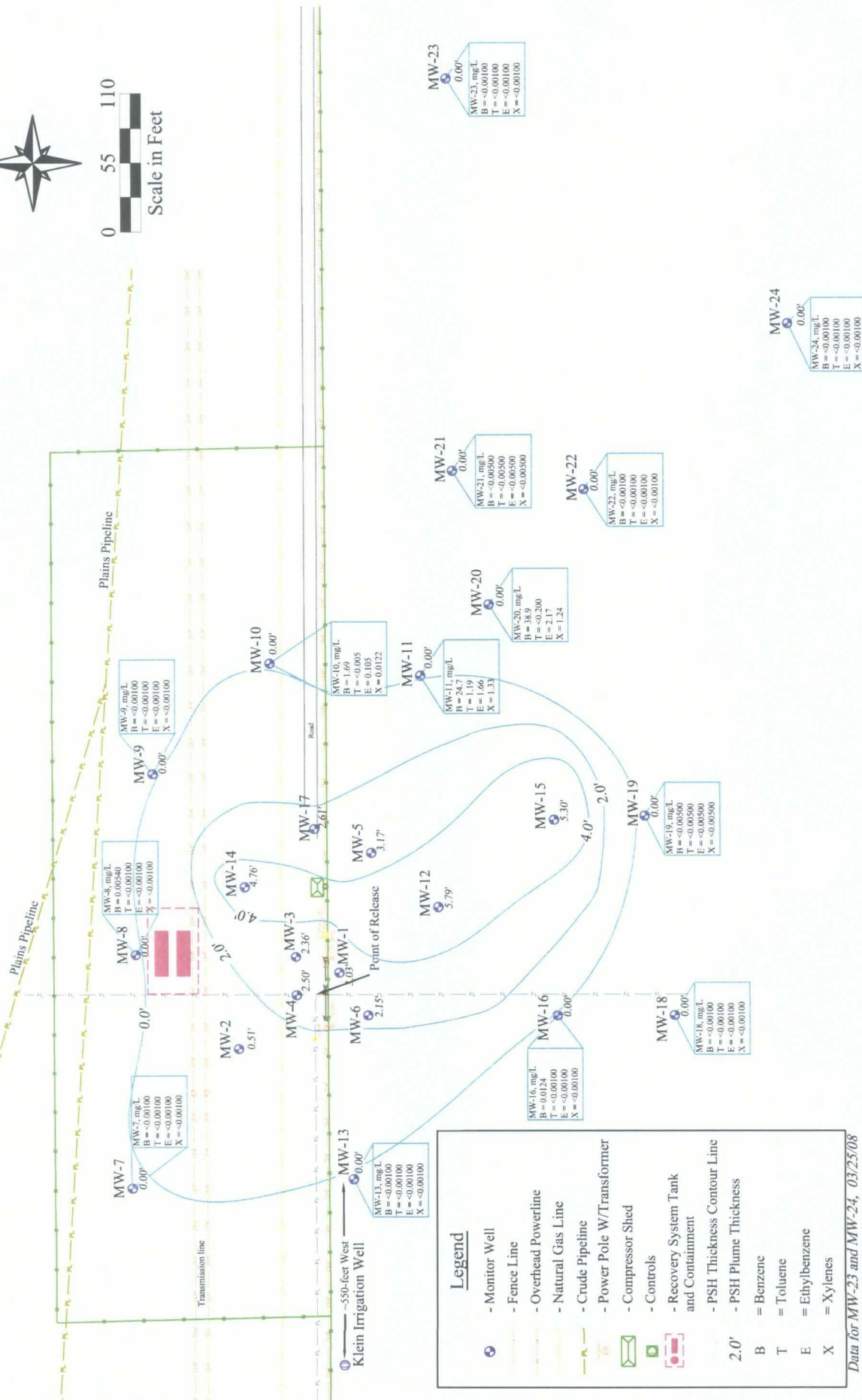
SRS # 2003-00017, NMOCD REF. # AP-054

SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico

Figure 2d - Groundwater Gradient Map, - 11/18/2008



0 55 110
Scale in Feet



Date: 03/23/2009

Scale: 1" = 110'

Drawn By: SJA

Hobbs Junction Mainline

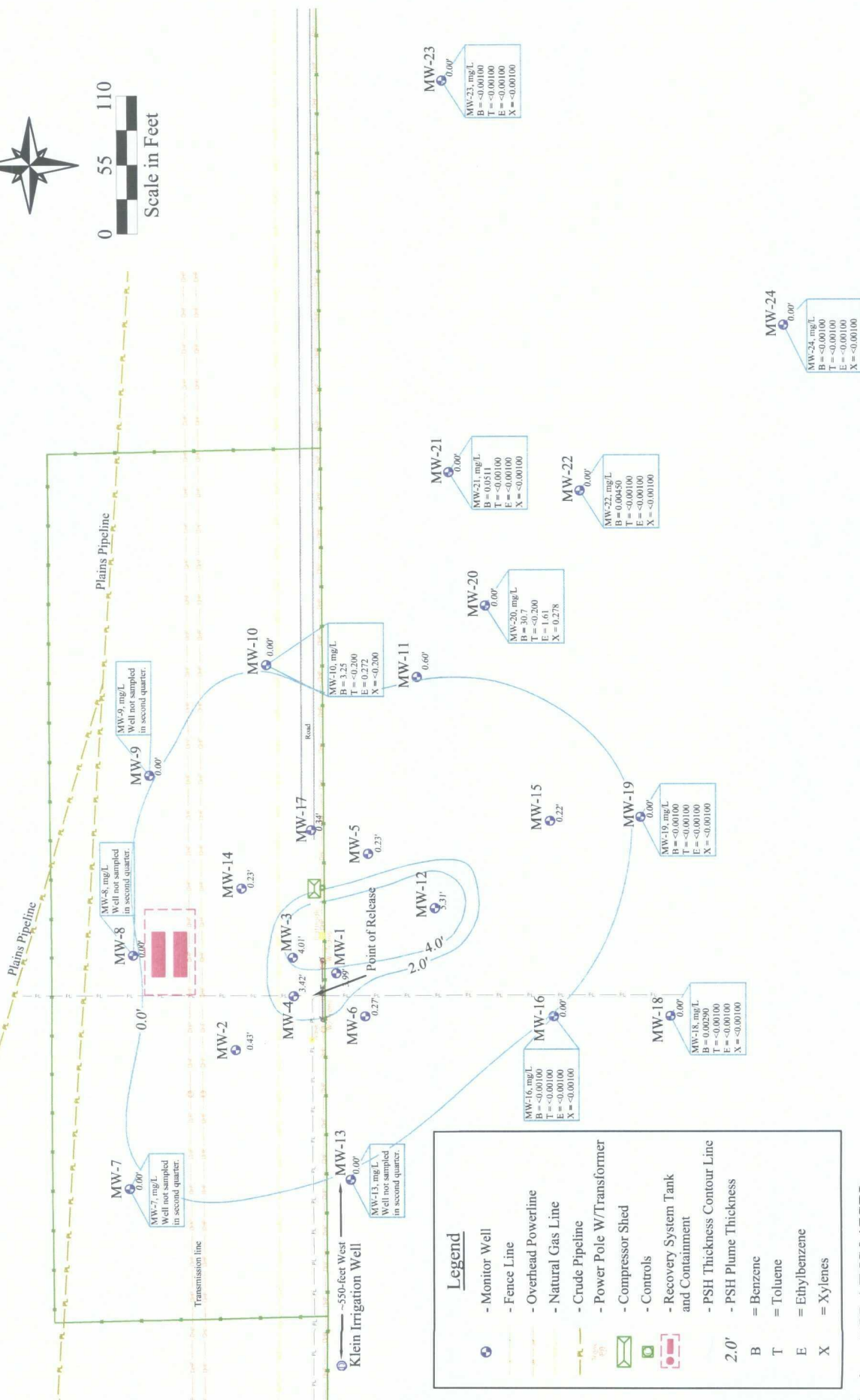
SRS # 2003-00017, NMOCD REF. # AP-054

SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico

Figure 3a - PSH Thickness & Groundwater Concentration Map, - 03/11/2008



0 55 110
Scale in Feet



Hobbs Junction Mainline
SRS # 2003-00017, NMOCD REF. # AP-054
SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
Figure 3b - PSH Thickness & Groundwater Concentration Map, - 06/20/2008

Date: 03/23/2009

Scale: 1" = 110'

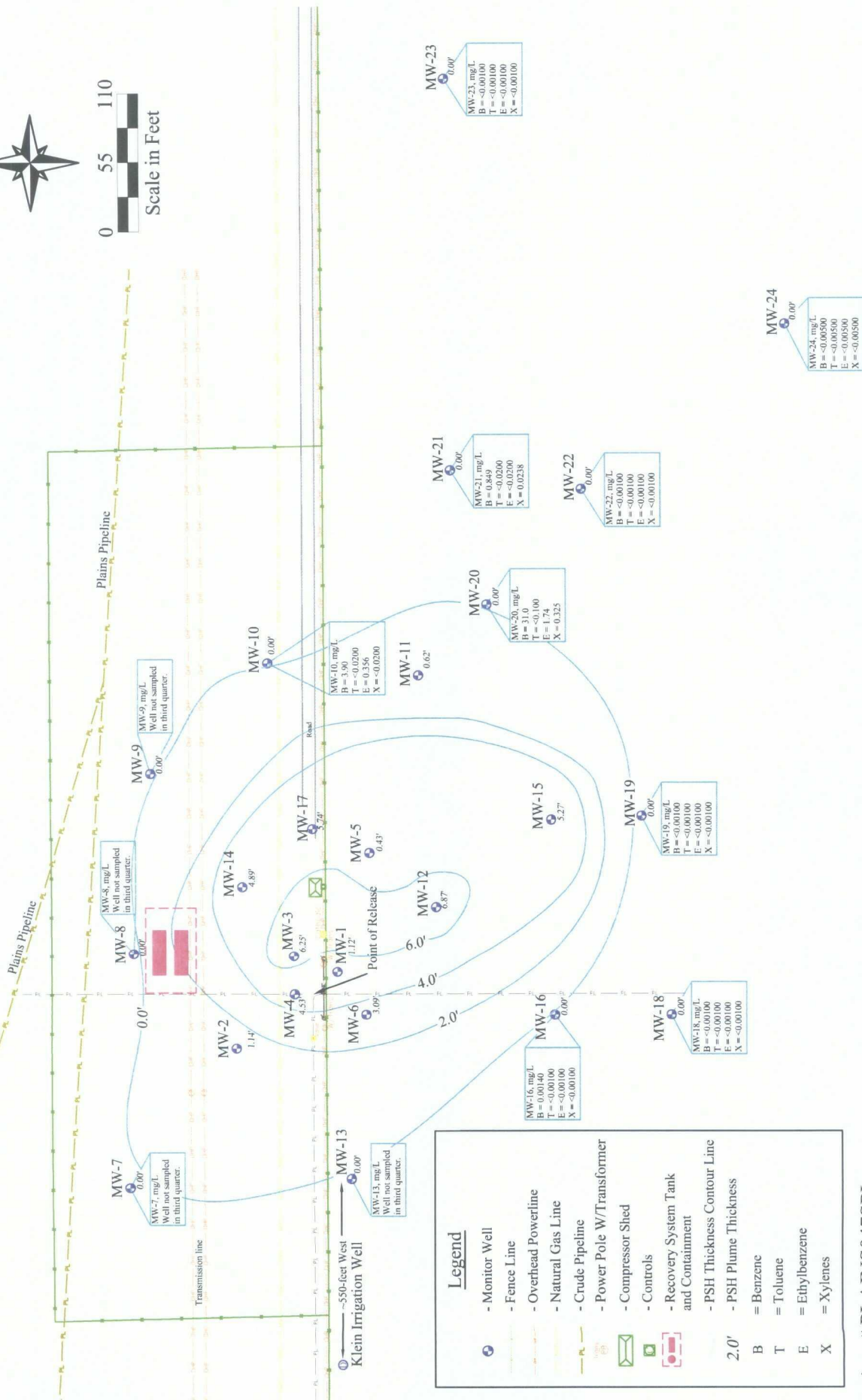
Drawn By: SJA



Project # PLAINS047SPL



0 55 110
Scale in Feet



Project # PLAINS047SPL



Date: 03/23/2009

Scale: 1" = 110'

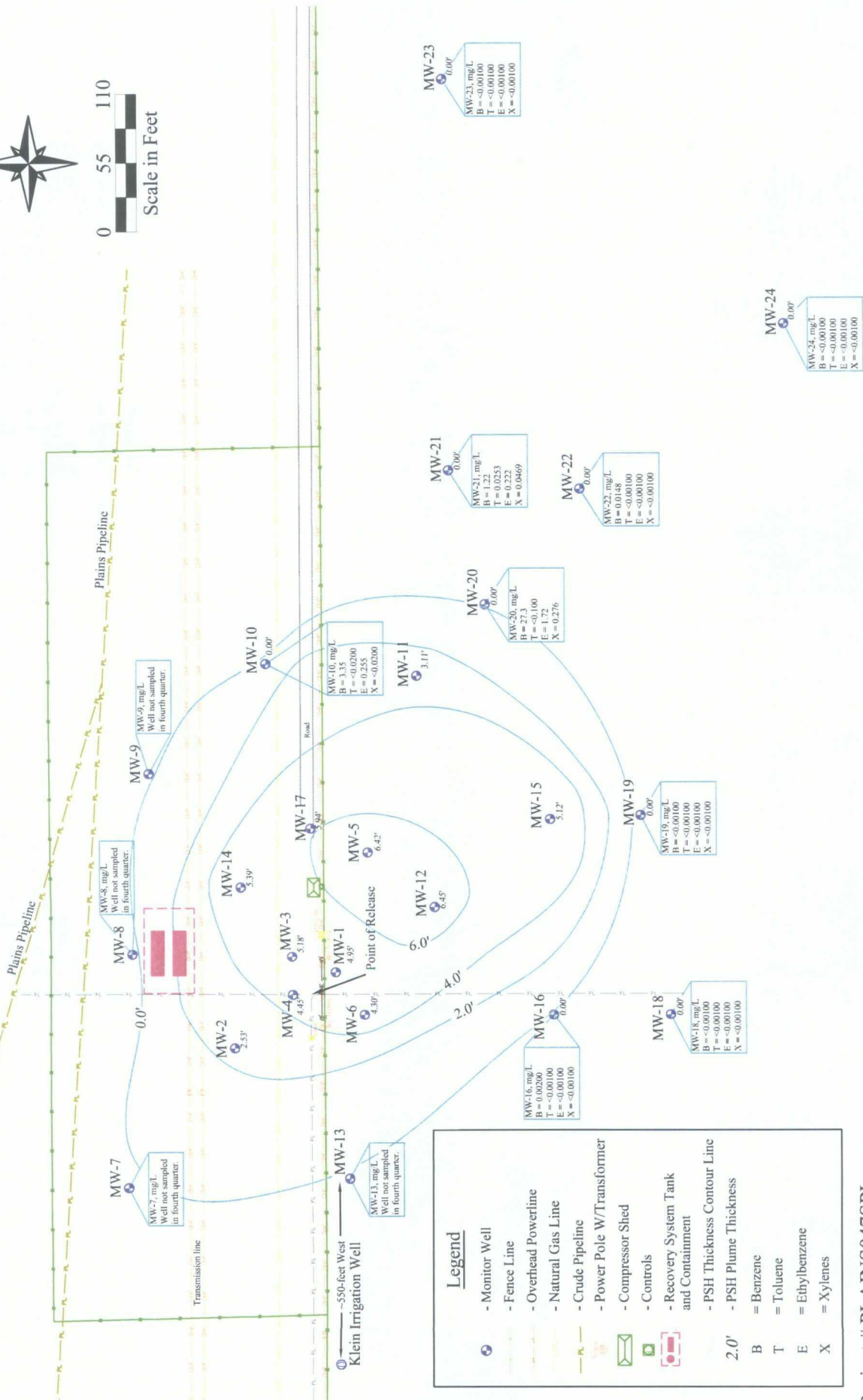
Drawn By: SJA

Hobbs Junction Mainline

SRS # 2003-00017, NMOCD REF. # AP-054

SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico

Figure 3c - PSH Thickness & Groundwater Concentration Map, - 08/19/2008

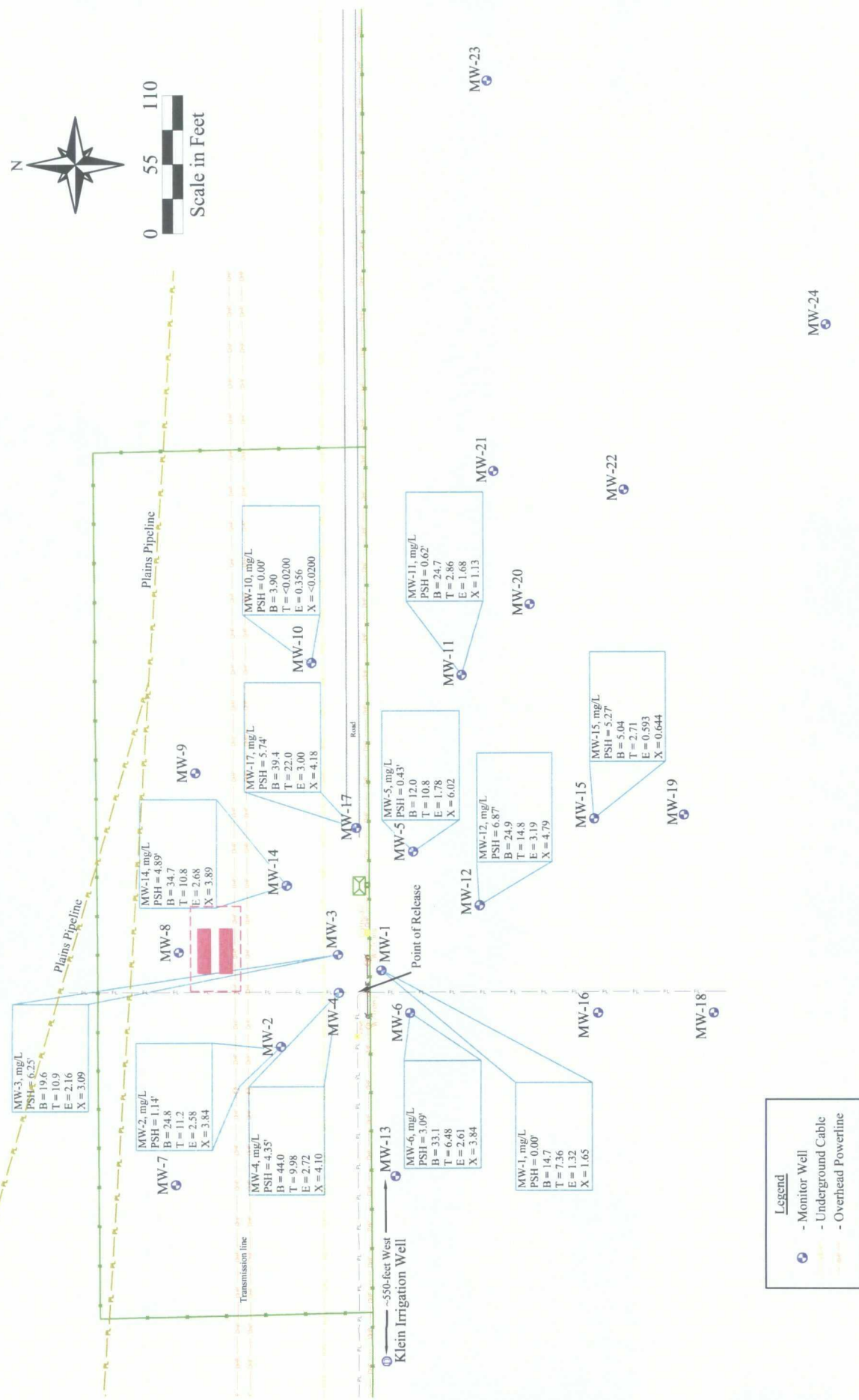


Project # PLAINS047SPL



Date: 03/23/2009
Scale: 1" = 110'
Drawn By: SJA

Hobbs Junction Mainline
SRS # 2003-00017, NMOCD REF. # AP-054
SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
Figure 3d - PSH Thickness & Groundwater Concentration Map, - 11/18/2008



TALON LPE

Hobbs Junction Mainline
 SRS # 2003-00017, NMOC REF. # AP-054
 SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
 Figure 4 - Groundwater Concentration in Wells With PSH Map, - 08/19/2008

Date: 03/23/2009
 Scale: 1" = 110'
 Drawn By: SJA

APPENDIX B

Tables

Table 1 – Summary of Historical Fluid Level Measurements

Table 2 – Summary of Groundwater Analytical Data

Table 3 – Summary of Semi-Volatile and Volatile Groundwater Analytical Data

Table 4 – Summary of Eunice Water Well #6

Table 5 – Summary of General Chemistry and Metals in Groundwater

Table 6 – Summary of Groundwater Poly-Aromatic Hydrocarbon Analytical
Results

Table 7 – Summary of PSH Monitor Wells Groundwater Poly-Aromatic
Analytical Results

Table 8 – Summary of Soil Analytical Data



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOC REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-1	06/23/03	3,678.50	38.49	45.43	6.94		3,639.32
MW-1	06/25/03		38.48	45.43	6.95		3,639.33
MW-1	07/01/03		36.64	48.25	11.61		3,640.70
MW-1	07/07/03		38.73	45.55	6.82		3,639.09
MW-1	07/22/03		37.32	48.05	10.73		3,640.11
MW-1	07/23/03		37.33	48.06	10.73		3,640.10
MW-1	07/24/03		37.40	47.90	10.50		3,640.05
MW-1	07/30/03		37.41	47.90	10.49		3,640.04
MW-1	10/13/03		36.81	47.34	10.53		3,640.64
MW-1	12/11/03		37.79	46.85	9.06		3,639.80
MW-1	12/15/03		37.75	46.77	9.02		3,639.85
MW-1	02/18/04		38.42	47.64	9.22		3,639.16
MW-1	03/29/04		37.45	45.35	7.90		3,640.26
MW-1	04/29/04		38.26	42.18	3.92		3,639.85
MW-1	05/03/04		37.44	46.11	8.67		3,640.19
MW-1	07/12/04		38.34	45.66	7.32		3,639.43
MW-1	12/09/04		35.90	43.54	7.64		3,641.84
MW-1	02/16/05		35.15	42.54	7.39		3,642.61
MW-1	03/31/05		35.27	42.81	7.54		3,642.48
MW-1	05/13/05		35.31	42.60	7.29		3,642.46
MW-1	05/26/05		35.41	42.61	7.20		3,642.37
MW-1	06/28/05		35.48	42.65	7.17		3,642.30
MW-1	08/15/05		35.72	42.16	6.44		3,642.14
MW-1	11/14/05		36.26	41.80	5.54		3,641.69
MW-1	01/23/06		36.71	42.14	5.43		3,641.25
MW-1	03/02/06		36.36	41.41	5.05		3,641.64
MW-1	06/01/06		37.58	42.01	4.43		3,640.48
MW-1	08/14/06		37.63	43.68	6.05		3,640.27
MW-1	11/28/06		37.27	42.50	5.23		3,640.71
MW-1	12/12/06		37.25	41.49	4.24		3,640.83
MW-1	01/09/07		37.31	42.71	5.40		3,640.65
MW-1	02/08/07		37.25	42.78	5.53		3,640.70
MW-1	02/27/07		37.34	42.88	5.54	8.00	3,640.61
MW-1	03/09/07		37.30	42.74	5.44		3,640.66
MW-1	03/13/07		37.28	42.78	5.50	4.00	3,640.67
MW-1	03/15/07		37.31	42.79	5.48	4.00	3,640.64



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-1	03/23/07		37.32	42.80	5.48		3,640.63
MW-1	03/28/07		37.30	42.78	5.48		3,640.65
MW-1	04/12/07		38.03	42.40	4.37		3,640.03
MW-1	04/18/07		37.47	42.61	5.14		3,640.52
MW-1	05/23/07		38.28	42.24	3.96		3,639.82
MW-1	06/20/07		37.90	41.74	3.84		3,640.22
MW-1	06/28/07		37.87	41.69	3.82		3,640.25
MW-1	07/18/07		37.95	41.63	3.68		3,640.18
MW-1	08/15/07		37.74	42.62	4.88		3,640.27
MW-1	08/22/07		38.41	39.20	0.79		3,640.01
MW-1	08/28/07		38.76	39.08	0.32		3,639.71
MW-1	09/19/07		37.99	40.99	3.00		3,640.21
MW-1	09/25/07		39.30	39.93	0.63		3,639.14
MW-1	10/09/07		38.52	38.90	0.38		3,639.94
MW-1	10/17/07		38.51	38.88	0.37		3,639.95
MW-1	10/26/07		38.49	38.91	0.42		3,639.97
MW-1	11/05/07		38.16	42.11	3.95		3,639.95
MW-1	11/12/07		38.51	38.96	0.45		3,639.95
MW-1	12/05/07		38.12	40.88	2.76		3,640.10
MW-1	01/03/08		38.12	41.04	2.92		3,640.09
MW-1	01/30/08		38.03	41.94	3.91		3,640.08
MW-1	02/04/08		38.02	41.97	3.95		3,640.09
MW-1	02/12/08		38.04	41.96	3.92		3,640.07
MW-1	03/11/08		38.26	41.29	3.03		3,639.94
MW-1	03/26/08		38.82	39.06	0.24		3,639.66
MW-1	04/02/08		39.21	39.42	0.21		3,639.27
MW-1	04/16/08		38.87	39.24	0.37		3,639.59
MW-1	04/29/08		38.87	39.66	0.86		3,639.61
MW-1	05/07/08		38.94	42.34	3.40		3,639.22
MW-1	06/11/08		38.57	42.36	3.79		3,639.55
MW-1	06/20/08		38.59	42.58	3.99		3,639.51
MW-1	07/22/08		38.54	42.37	3.83		3,639.58
MW-1	07/24/08		39.94	40.41	0.47		3,638.51
MW-1	08/19/08		38.76	39.88	1.12		3,639.63
MW-1	08/20/08		38.74	43.89	5.15		3,639.25
MW-1	11/18/08		38.17	43.12	4.95		3,639.84
MW-1	12/18/08		38.21	43.15	4.94		3,639.80



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-2	06/26/03	3,679.47	38.72	44.93	6.21		3,640.13
MW-2	07/01/03		38.65	45.42	6.77		3,640.14
MW-2	07/22/03		38.63	45.63	7.00		3,640.14
MW-2	07/23/03		38.64	45.63	6.99		3,640.13
MW-2	07/24/03		39.20	43.57	4.37		3,639.83
MW-2	07/30/03		39.21	43.58	4.37		3,639.82
MW-2	12/11/03		38.88	45.51	6.63		3,639.93
MW-2	12/15/03		38.84	45.41	6.57		3,639.97
MW-2	03/23/04		38.36	44.52	6.16		3,640.49
MW-2	03/29/04		38.47	44.04	5.57		3,640.44
MW-2	04/29/04		38.16	48.06	9.90		3,640.32
MW-2	05/03/04		38.39	44.27	5.88		3,640.49
MW-2	07/12/04		39.42	44.67	5.25		3,639.53
MW-2	12/09/04		37.00	42.52	5.52		3,641.92
MW-2	02/16/05		36.87	44.03	7.16		3,641.88
MW-2	03/31/05		36.17	41.85	5.68		3,642.73
MW-2	05/13/05		36.27	42.10	5.83		3,642.62
MW-2	05/26/05		36.84	39.29	2.45		3,642.39
MW-2	06/28/05		36.39	41.57	5.18		3,642.56
MW-2	08/15/05		37.15	38.92	1.77		3,642.14
MW-2	11/14/05		37.56	39.16	1.60		3,641.75
MW-2	01/23/06		38.01	39.54	1.53		3,641.31
MW-2	03/02/06		37.60	38.93	1.33		3,641.74
MW-2	06/01/06		38.48	41.05	2.57		3,640.73
MW-2	08/14/06		39.23	41.24	2.01		3,640.04
MW-2	11/28/06		38.33	40.73	2.40		3,640.90
MW-2	12/12/06		37.80	44.10	6.30		3,641.04
MW-2	01/09/07		38.20	42.21	4.01		3,640.87
MW-2	02/08/07		37.94	42.60	4.66		3,641.06
MW-2	02/27/07		38.15	43.34	5.19	8.00	3,640.80
MW-2	03/09/07		38.07	42.24	4.17		3,640.98
MW-2	03/13/07		38.07	42.32	4.25	3.50	3,640.98
MW-2	03/15/07		38.09	42.39	4.30	4.50	3,640.95
MW-2	03/23/07		38.16	42.00	3.84		3,640.93
MW-2	03/28/07		38.13	42.22	4.09		3,640.93
MW-2	04/12/07		38.51	41.93	3.42		3,640.62
MW-2	04/18/07		38.97	39.73	0.76		3,640.42
MW-2	05/23/07		38.98	39.50	0.52		3,640.44



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-2	06/20/07		38.94	39.90	0.96		3,640.43
MW-2	06/28/07		38.66	40.88	2.22		3,640.59
MW-2	07/18/07		38.53	41.85	3.32		3,640.61
MW-2	08/15/07		38.50	42.11	3.61		3,640.61
MW-2	08/28/07		38.40	42.21	3.81		3,640.69
MW-2	09/19/07		38.41	42.18	3.77		3,640.68
MW-2	09/25/07		38.41	42.20	3.79		3,640.68
MW-2	10/09/07		38.86	40.37	1.51		3,640.46
MW-2	10/17/07		38.93	40.07	1.14		3,640.43
MW-2	10/26/07		38.68	41.27	2.59		3,640.53
MW-2	11/05/07		38.80	40.64	1.84		3,640.49
MW-2	11/12/07		38.91	40.23	1.32		3,640.43
MW-2	12/05/07		38.72	41.51	2.79		3,640.47
MW-2	01/03/08		39.87	41.11	1.24		3,639.48
MW-2	01/30/08		38.76	41.78	3.02		3,640.41
MW-2	02/04/08		38.81	41.82	3.01		3,640.36
MW-2	02/12/08		38.78	41.80	3.02		3,640.39
MW-2	03/11/08		39.28	39.79	0.51		3,640.14
MW-2	03/26/08		39.38	39.65	0.27		3,640.06
MW-2	04/02/08		39.44	39.67	0.23		3,640.01
MW-2	04/29/08		39.11	41.58	2.47		3,640.11
MW-2	04/16/08		39.28	40.63	1.35		3,640.06
MW-2	05/07/08		39.08	42.88	3.80		3,640.01
MW-2	06/11/08		39.74	39.91	0.17		3,639.71
MW-2	06/20/08		39.78	40.21	0.43		3,639.65
MW-2	07/24/08		40.33	41.46	1.13		3,639.03
MW-2	08/19/08		40.05	41.19	1.14		3,639.31
MW-2	09/02/08		39.25	40.76	1.51		3,640.07
MW-2	11/18/08		39.19	41.72	2.53		3,640.03
MW-2	12/18/08		39.11	42.19	3.08		3,640.05
MW-3	10/13/03	3,679.81	39.21	48.75	9.54		3,639.65
MW-3	12/11/03		39.15	48.95	9.80		3,639.68
MW-3	12/15/03		39.08	50.91	11.83		3,639.55
MW-3	02/18/04		38.72	48.26	9.54		3,640.14
MW-3	03/12/04		39.82	48.49	8.67		3,639.12
MW-3	03/29/04		38.81	46.32	7.51		3,640.25
MW-3	04/29/04		39.49	44.11	4.62		3,639.86



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-3	05/03/04		38.77	46.51	7.74		3,640.27
MW-3	07/12/04		39.68	46.81	7.13		3,639.42
MW-3	12/09/04		37.21	45.06	7.85		3,641.82
MW-3	02/16/05		36.70	42.67	5.97		3,642.51
MW-3	03/31/05		38.17	38.20	0.03		3,641.64
MW-3	05/13/05		36.67	44.45	7.78		3,642.36
MW-3	05/26/05		36.92	42.88	5.96		3,642.29
MW-3	06/28/05		36.72	44.05	7.33		3,642.36
MW-3	08/15/05		37.12	43.17	6.05		3,642.09
MW-3	11/14/05		37.69	42.67	4.98		3,641.62
MW-3	01/23/06		38.08	43.31	5.23		3,641.21
MW-3	03/02/06		37.80	42.37	4.57		3,641.55
MW-3	06/01/06		38.50	42.53	4.03		3,640.91
MW-3	08/14/06		39.27	44.64	5.37		3,640.00
MW-3	11/28/06		38.61	43.75	5.14		3,640.69
MW-3	12/12/06		38.56	43.91	5.35		3,640.72
MW-3	01/09/07		38.36	43.21	4.85		3,640.97
MW-3	02/08/07		38.50	44.15	5.65		3,640.75
MW-3	02/27/07		38.67	44.25	5.58	9.00	3,640.58
MW-3	03/09/07		38.89	44.13	5.24		3,640.40
MW-3	03/13/07		38.58	44.19	5.61	4.50	3,640.67
MW-3	03/15/07		38.62	44.23	5.61	5.00	3,640.63
MW-3	03/23/07		38.61	44.12	5.51		3,640.65
MW-3	03/28/07		38.61	44.23	5.62		3,640.64
MW-3	04/12/07		39.88	39.93	0.05		3,639.93
MW-3	04/18/07		39.64	41.30	1.66		3,640.00
MW-3	05/23/07		39.96	40.32	0.36		3,639.81
MW-3	06/20/07		39.86	40.20	0.34		3,639.92
MW-3	06/28/07		39.86	40.12	0.26		3,639.92
MW-3	07/18/07		39.89	40.19	0.30		3,639.89
MW-3	08/15/07		39.12	43.68	4.56		3,640.23
MW-3	08/22/07		39.11	43.56	4.45		3,640.26
MW-3	08/28/07		39.30	43.09	3.79		3,640.13
MW-3	09/19/07		39.12	43.20	4.08		3,640.28
MW-3	09/25/07		39.17	42.94	3.77		3,640.26
MW-3	10/09/07		39.07	41.74	2.67		3,640.47
MW-3	10/17/07		39.12	43.44	4.32		3,640.26
MW-3	10/26/07		39.24	42.99	3.75		3,640.20



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-3	11/05/07		39.19	43.10	3.91		3,640.23
MW-3	11/12/07		39.90	40.21	0.31		3,639.88
MW-3	12/05/07		39.64	41.52	1.88		3,639.98
MW-3	01/03/08		39.68	41.72	2.04		3,639.93
MW-3	01/30/08		39.65	41.53	1.88		3,639.97
MW-3	02/04/08		39.70	41.59	1.89		3,639.92
MW-3	02/12/08		39.65	41.59	1.94		3,639.97
MW-3	03/11/08		39.46	41.82	2.36		3,640.11
MW-3	03/26/08		40.15	40.41	0.26		3,639.63
MW-3	04/02/08		41.21	41.47	0.26		3,638.57
MW-3	04/16/08		40.21	40.55	0.34		3,639.57
MW-3	04/29/08		40.22	40.69	0.47		3,639.54
MW-3	05/07/08		40.29	43.96	3.67		3,639.15
MW-3	06/11/08		39.89	44.65	4.76		3,639.44
MW-3	06/20/08		39.90	43.91	4.01		3,639.51
MW-3	07/22/08		40.41	41.58	1.17		3,639.28
MW-3	07/24/08		40.51	45.03	4.52		3,638.85
MW-3	08/19/08		40.08	46.33	6.25		3,639.11
MW-3	08/20/08		40.08	45.33	5.25		3,639.21
MW-3	11/18/08		39.46	44.64	5.18		3,639.83
MW-3	12/18/08		39.51	44.63	5.12		3,639.79
MW-4	10/13/03	3,679.64	39.01	48.75	9.74		3,639.66
MW-4	12/11/03		38.92	47.32	8.40		3,639.88
MW-4	12/15/03		38.84	47.16	8.32		3,639.97
MW-4	02/18/04		38.48	46.62	8.14		3,640.35
MW-4	03/12/04		39.09	47.51	8.42		3,639.71
MW-4	03/29/04		38.59	45.62	7.03		3,640.35
MW-4	04/29/04		39.94	44.23	4.29		3,639.27
MW-4	05/03/04		38.55	46.33	7.78		3,640.31
MW-4	07/12/04		39.49	46.24	6.75		3,639.48
MW-4	12/09/04		37.03	44.15	7.12		3,641.90
MW-4	02/16/05		36.28	43.01	6.73		3,642.69
MW-4	03/31/05		36.45	42.62	6.17		3,642.57
MW-4	05/13/05		36.37	43.25	6.88		3,642.58
MW-4	05/26/05		36.51	42.79	6.28		3,642.50
MW-4	06/28/05		36.47	43.26	6.79		3,642.49
MW-4	08/15/05		36.79	42.80	6.01		3,642.25



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-4	11/14/05		37.35	42.24	4.89		3,641.80
MW-4	01/23/06		37.80	42.66	4.86		3,641.35
MW-4	03/02/06		37.43	41.97	4.54		3,641.76
MW-4	06/01/06		38.16	43.90	5.74		3,640.91
MW-4	08/14/06		39.01	44.12	5.11		3,640.12
MW-4	11/28/06		38.37	43.91	5.54		3,640.72
MW-4	12/12/06		38.35	43.06	4.71		3,640.82
MW-4	01/09/07		37.86	44.18	6.32		3,641.15
MW-4	02/08/07		38.28	44.93	6.65		3,640.70
MW-4	02/27/07		38.40	44.38	5.98	9.00	3,640.64
MW-4	03/09/04		38.34	43.32	4.98		3,640.80
MW-4	03/13/07		38.34	43.35	5.01	3.50	3,640.80
MW-4	03/15/07		38.30	43.38	5.08	5.00	3,640.83
MW-4	03/23/07		38.38	43.37	4.99		3,640.76
MW-4	03/28/07		38.37	43.42	5.05		3,640.77
MW-4	04/12/07		38.71	42.96	4.25		3,640.51
MW-4	04/18/07		38.00	43.14	5.14		3,641.13
MW-4	05/23/07		39.87	42.73	2.86		3,639.48
MW-4	06/20/07		38.90	42.52	3.62		3,640.38
MW-4	06/28/07		38.92	42.34	3.42		3,640.38
MW-4	07/18/07		38.99	42.36	3.37		3,640.31
MW-4	08/15/07		39.00	42.33	3.33		3,640.31
MW-4	08/22/07		38.97	42.27	3.30		3,640.34
MW-4	08/28/07		39.12	41.89	2.77		3,640.24
MW-4	09/19/07		38.89	42.32	3.43		3,640.41
MW-4	09/25/07		39.07	41.64	2.57		3,640.31
MW-4	10/09/07		39.12	41.74	2.62		3,640.26
MW-4	10/17/07		39.12	41.66	2.54		3,640.27
MW-4	10/26/07		39.10	41.42	2.32		3,640.31
MW-4	11/05/07		38.94	42.60	3.66		3,640.33
MW-4	11/12/07		39.27	41.09	1.82		3,640.19
MW-4	12/05/07		39.04	41.98	2.94		3,640.31
MW-4	01/03/08		39.26	41.74	2.48		3,640.13
MW-4	01/30/08		39.08	41.55	2.47		3,640.31
MW-4	02/04/08		39.15	41.61	2.46		3,640.24
MW-4	02/12/08		39.10	41.62	2.52		3,640.29
MW-4	03/11/08		39.36	41.86	2.50		3,640.03
MW-4	03/26/08		39.18	42.99	3.81		3,640.08



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-4	04/02/08		39.24	43.07	3.83		3,640.02
MW-4	04/16/08		39.69	41.09	1.40		3,639.81
MW-4	04/29/08		39.77	41.04	1.27		3,639.74
MW-4	05/07/08		40.07	43.59	3.52		3,639.22
MW-4	06/11/08		39.69	42.97	3.28		3,639.62
MW-4	06/20/08		39.65	43.07	3.42		3,639.65
MW-4	07/22/08		39.51	43.35	3.84		3,639.75
MW-4	07/24/08		40.98	41.16	0.18		3,638.64
MW-4	08/19/08		39.88	44.41	4.53		3,639.31
MW-4	08/20/08		39.97	44.42	4.45		3,639.23
MW-4	11/18/08		39.27	43.72	4.45		3,639.93
MW-4	12/18/08		39.29	43.75	4.46		3,639.90
MW-5	10/13/03	3,679.26	40.35	43.02	2.67		3,638.64
MW-5	12/11/03		38.95	47.81	8.86		3,639.42
MW-5	12/15/03		38.91	47.72	8.81		3,639.47
MW-5	02/18/04		38.61	47.44	8.83		3,639.77
MW-5	03/29/04		38.76	46.15	7.39		3,639.76
MW-5	04/29/04		38.55	47.41	8.86		3,639.82
MW-5	05/03/04		38.52	47.46	8.94		3,639.85
MW-5	07/12/04		39.24	47.72	8.48		3,639.17
MW-5	12/09/04		36.99	45.01	8.02		3,641.47
MW-5	02/16/05		36.24	44.48	8.24		3,642.20
MW-5	02/22/05		36.20	44.50	8.30		3,642.23
MW-5	03/31/05		36.38	44.38	8.00		3,642.08
MW-5	05/13/05		36.43	44.29	7.86		3,642.04
MW-5	05/26/05		36.66	43.50	6.84		3,641.92
MW-5	06/28/05		36.58	44.45	7.87		3,641.89
MW-5	08/15/05		36.93	43.52	6.59		3,641.67
MW-5	11/14/05		37.45	43.27	5.82		3,641.23
MW-5	01/23/06		37.85	43.90	6.05		3,640.81
MW-5	03/02/06		37.46	43.41	5.95		3,641.21
MW-5	06/01/06		38.74	43.32	4.58		3,640.06
MW-5	08/14/06		38.92	45.05	6.13		3,639.73
MW-5	11/28/06		38.39	44.35	5.96		3,640.27
MW-5	12/12/06		38.32	44.91	6.59		3,640.28
MW-5	01/09/07		38.47	43.56	5.09		3,640.28
MW-5	02/08/07		38.28	44.42	6.14		3,640.37



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-5	02/27/07		38.36	45.29	6.93	10.00	3,640.21
MW-5	03/09/07		38.44	45.22	6.78		3,640.14
MW-5	03/13/07		38.36	45.08	6.72	6.00	3,640.23
MW-5	03/15/07		38.37	45.09	6.72	5.00	3,640.22
MW-5	03/23/07		38.33	45.15	6.82		3,640.25
MW-5	03/28/07		38.35	45.17	6.82		3,640.23
MW-5	04/12/07		39.69	41.87	2.18		3,639.35
MW-5	04/18/07		40.31	42.84	2.53		3,638.70
MW-5	05/23/07		39.96	40.60	0.64		3,639.24
MW-5	06/20/07		39.38	42.16	2.78		3,639.60
MW-5	06/28/07		39.87	40.41	0.54		3,639.34
MW-5	07/18/07		39.95	40.35	0.40		3,639.27
MW-5	08/22/07		39.85	40.20	0.35		3,639.38
MW-5	08/28/07		39.20	42.98	3.78		3,639.68
MW-5	09/19/07		38.97	43.67	4.70		3,639.82
MW-5	09/25/07		39.14	42.87	3.73		3,639.75
MW-5	10/09/07		40.07	40.29	0.22		3,639.17
MW-5	10/17/07		39.01	43.06	4.05		3,639.85
MW-5	11/05/07		39.07	43.02	3.95		3,639.80
MW-5	12/05/07		39.13	42.26	3.13		3,639.82
MW-5	01/30/08		38.94	44.87	5.93		3,639.73
MW-5	02/04/08		39.05	44.96	5.91		3,639.62
MW-5	02/12/08		38.97	44.90	5.93		3,639.70
MW-5	03/11/08		39.54	42.71	3.17		3,639.40
MW-5	03/26/08		40.10	40.31	0.21		3,639.14
MW-5	04/02/08		40.19	40.39	0.20		3,639.05
MW-5	04/16/08		40.03	40.65	0.62		3,639.17
MW-5	04/29/08		39.14	42.99	3.85		3,639.74
MW-5	06/11/08		40.49	40.67	0.18		3,638.75
MW-5	06/20/08		40.53	40.76	0.23		3,638.71
MW-5	07/22/08		40.31	40.85	0.54		3,638.90
MW-5	07/24/08		41.25	41.39	0.14		3,638.00
MW-5	08/19/08		39.82	40.25	0.43		3,639.40
MW-5	08/20/08		39.82	40.29	0.47		3,639.39
MW-5	11/18/08		39.20	45.62	6.42		3,639.42
MW-5	12/18/08		39.24	45.71	6.47		3,639.37
MW-6	10/13/03	3,680.63	40.04	50.12	10.08		3,639.58



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-6	12/11/03		40.01	48.43	8.42		3,639.78
MW-6	12/15/03		39.92	48.33	8.41		3,639.87
MW-6	02/18/04		39.63	47.81	8.18		3,640.18
MW-6	03/12/04		39.68	47.51	7.83		3,640.17
MW-6	03/29/04		39.67	46.50	6.83		3,640.28
MW-6	04/29/04		40.18	44.76	4.58		3,639.99
MW-6	05/03/04		39.66	46.63	6.97		3,640.27
MW-6	07/12/04		40.52	47.68	7.16		3,639.39
MW-6	12/09/04		38.11	45.06	6.95		3,641.83
MW-6	02/16/05		36.25	44.44	8.19		3,643.56
MW-6	02/22/05		37.25	44.44	7.19		3,642.66
MW-6	03/31/05		37.52	44.15	6.63		3,642.45
MW-6	05/13/05		37.46	44.75	7.29		3,642.44
MW-6	05/26/05		37.71	43.31	5.60		3,642.36
MW-6	06/28/05		37.62	44.18	6.56		3,642.35
MW-6	08/15/05		38.09	42.77	4.68		3,642.07
MW-6	11/14/05		38.64	43.31	4.67		3,641.52
MW-6	01/23/06		39.08	42.67	3.59		3,641.19
MW-6	03/02/06		38.85	41.45	2.60		3,641.52
MW-6	06/01/06		40.06	41.84	1.78		3,640.39
MW-6	08/14/06		40.19	44.64	4.45		3,640.00
MW-6	11/28/06		39.36	44.31	4.95		3,640.78
MW-6	12/12/06		39.32	43.81	4.49		3,640.86
MW-6	01/09/07		39.71	42.41	2.70		3,640.65
MW-6	02/08/07		39.30	44.49	5.19		3,640.81
MW-6	02/27/07		39.41	44.54	5.13	7.00	3,640.71
MW-6	03/09/07		39.40	44.47	5.07		3,640.72
MW-6	03/13/07		39.40	44.47	5.07	4.00	3,640.72
MW-6	03/15/07		39.40	44.50	5.10	4.50	3,640.72
MW-6	03/23/07		39.41	44.42	5.01		3,640.72
MW-6	03/28/07		39.45	44.80	5.35		3,640.65
MW-6	04/12/07		40.33	41.37	1.04		3,640.20
MW-6	04/18/07		40.61	40.83	0.22		3,640.00
MW-6	05/23/07		40.50	40.90	0.40		3,640.09
MW-6	06/20/07		40.58	41.25	0.67		3,639.98
MW-6	06/28/07		40.24	42.01	1.77		3,640.21
MW-6	07/18/07		39.94	43.74	3.80		3,640.31
MW-6	08/15/07		40.51	41.06	0.55		3,640.07



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-6	08/22/07		40.56	40.81	0.25		3,640.05
MW-6	08/28/07		40.30	42.31	2.01		3,640.13
MW-6	09/19/07		39.78	44.04	4.26		3,640.42
MW-6	09/25/07		39.84	44.15	4.31		3,640.36
MW-6	10/09/07		39.82	44.15	4.33		3,640.38
MW-6	10/17/07		40.55	40.83	0.28		3,640.05
MW-6	10/26/07		39.98	43.54	3.56		3,640.29
MW-6	11/05/07		39.88	43.98	4.10		3,640.34
MW-6	11/12/07		39.91	43.99	4.08		3,640.31
MW-6	12/05/07		39.98	43.97	3.99		3,640.25
MW-6	01/03/08		39.66	40.44	0.78		3,640.89
MW-6	01/30/08		40.11	43.81	3.70		3,640.15
MW-6	02/04/08		40.23	43.96	3.73		3,640.03
MW-6	02/12/08		40.15	43.90	3.75		3,640.11
MW-6	03/11/08		39.64	41.79	2.15		3,640.78
MW-6	03/26/08		40.38	43.19	2.81		3,639.97
MW-6	04/02/08		40.90	41.15	0.25		3,639.71
MW-6	04/16/08		40.91	41.23	0.32		3,639.69
MW-6	04/29/08		39.96	41.28	1.32		3,640.54
MW-6	05/07/08		40.60	43.17	2.57		3,639.77
MW-6	06/11/08		41.22	41.47	0.25		3,639.39
MW-6	06/20/08		41.27	41.54	0.27		3,639.33
MW-6	07/24/08		41.98	42.18	0.20		3,638.63
MW-6	08/19/08		41.19	44.28	3.09		3,639.13
MW-6	08/20/08		41.17	44.44	3.27		3,639.13
MW-6	09/02/08		40.95	41.17	0.22		3,639.66
MW-6	11/18/08		40.33	44.63	4.30		3,639.87
MW-6	12/18/08		40.35	44.80	4.45		3,639.84
MW-7	01/23/04	3,679.85		39.64			3,640.21
MW-7	04/29/04			39.29			3,640.56
MW-7	05/12/04			39.29			3,640.56
MW-7	06/03/04			39.27			3,640.58
MW-7	07/12/04			40.42			3,639.43
MW-7	07/19/04			40.68			3,639.17
MW-7	11/08/04			38.66			3,641.19
MW-7	03/31/05			37.07			3,642.78
MW-7	05/13/05			37.10			3,642.75



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-7	05/23/05			37.09			3,642.76
MW-7	05/26/05			37.13			3,642.69
MW-7	06/28/05			37.16			3,642.69
MW-7	08/15/05			37.32			3,642.45
MW-7	08/17/05			37.26			3,642.59
MW-7	11/14/05			37.40			3,642.45
MW-7	01/23/06			38.12			3,641.73
MW-7	03/02/06			37.49			3,642.36
MW-7	06/01/06			38.40			3,641.45
MW-7	08/14/06			39.50			3,640.35
MW-7	11/28/06			38.61			3,641.24
MW-7	12/12/06			38.62			3,641.23
MW-7	01/09/07			38.22			3,641.63
MW-7	02/08/07			38.43			3,641.42
MW-7	02/27/07			38.67			3,641.18
MW-7	03/09/07			38.67			3,641.18
MW-7	03/13/07			38.65			3,641.20
MW-7	03/15/07			38.64			3,641.21
MW-7	03/23/07			38.51			3,641.34
MW-7	03/28/07			38.60			3,641.25
MW-7	04/12/07			38.75			3,641.10
MW-7	04/18/07			38.73			3,641.12
MW-7	05/23/07			38.70			3,641.15
MW-7	06/20/07			38.81			3,641.04
MW-7	07/18/07			38.90			3,640.95
MW-7	09/19/07			38.87			3,640.98
MW-7	11/02/07			38.96			3,640.89
MW-7	11/16/07			38.90			3,640.95
MW-7	12/05/07			38.99			3,640.86
MW-7	01/30/08			39.03			3,640.82
MW-7	03/11/08			39.13			3,640.72
MW-7	04/29/08			39.13			3,640.72
MW-7	05/09/08			39.16			3,640.69
MW-7	06/11/08			39.19			3,640.66
MW-7	06/20/08			39.29			3,640.56
MW-7	08/19/08			39.31			3,640.54
MW-7	08/20/08			39.30			3,640.55
MW-7	12/18/08			39.48			3,640.37



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-8	01/23/04	3,679.07		39.56			3,639.51
MW-8	04/29/04			39.33			3,639.74
MW-8	05/12/04			39.34			3,639.73
MW-8	06/03/04			39.32			3,639.75
MW-8	07/12/04			40.13			3,638.94
MW-8	07/19/04			40.32			3,638.75
MW-8	11/08/04			39.60			3,639.47
MW-8	03/31/05			37.11			3,641.96
MW-8	05/13/05			37.16			3,641.91
MW-8	05/23/05			37.16			3,641.91
MW-8	05/26/05			37.19			3,641.88
MW-8	06/28/05			37.23			3,641.84
MW-8	08/15/05			37.40			3,641.67
MW-8	08/17/05			37.34			3,641.73
MW-8	11/14/05			37.52			3,641.55
MW-8	01/23/06			38.23			3,640.84
MW-8	03/02/06			37.63			3,641.44
MW-8	06/01/06			38.90			3,640.17
MW-8	08/14/06			39.34			3,639.73
MW-8	11/28/06			38.71			3,640.36
MW-8	12/12/06			38.73			3,640.34
MW-8	01/09/07			38.71			3,640.36
MW-8	02/08/07			38.55			3,640.52
MW-8	02/21/07			38.78			3,640.29
MW-8	02/27/07			38.79			3,640.28
MW-8	03/09/07			38.78			3,640.29
MW-8	03/13/07			38.78			3,640.29
MW-8	03/15/07			38.76			3,640.31
MW-8	03/23/07			38.62			3,640.45
MW-8	03/28/07			38.74			3,640.33
MW-8	04/12/07			38.90			3,640.17
MW-8	04/18/07			38.88			3,640.19
MW-8	05/23/07			38.86			3,640.21
MW-8	06/20/07			38.96			3,640.11
MW-8	07/18/07			39.05			3,640.02
MW-8	09/19/07			38.99			3,640.08
MW-8	11/02/07			39.06			3,640.01



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-8	11/16/07			39.06			3,640.01
MW-8	12/05/07			39.09			3,639.98
MW-8	01/30/08			39.11			3,639.96
MW-8	03/11/08			39.24			3,639.83
MW-8	04/29/08			39.27			3,639.80
MW-8	05/09/08			39.26			3,639.81
MW-8	06/11/08			39.30			3,639.77
MW-8	06/20/08			39.40			3,639.67
MW-8	08/19/08			39.41			3,639.66
MW-8	08/20/08			39.41			3,639.66
MW-8	12/18/08			39.57			3,639.50
MW-9	01/23/04	3,678.76		39.91			3,638.85
MW-9	04/29/04			39.68			3,639.08
MW-9	05/12/04			39.69			3,639.07
MW-9	06/03/04			39.67			3,639.09
MW-9	07/12/04			40.34			3,638.42
MW-9	07/19/04			40.44			3,638.32
MW-9	11/08/04			38.84			3,639.92
MW-9	03/31/05			37.48			3,641.28
MW-9	05/13/05			37.54			3,641.22
MW-9	05/23/05			37.55			3,641.21
MW-9	05/26/05			37.59			3,641.17
MW-9	06/28/05			37.64			3,641.12
MW-9	08/15/05			37.82			3,640.94
MW-9	08/17/05			37.77			3,640.99
MW-9	11/14/05			37.95			3,640.81
MW-9	01/23/06			38.65			3,640.11
MW-9	03/02/06			38.05			3,640.71
MW-9	06/01/06			38.73			3,640.03
MW-9	08/14/06			39.57			3,639.19
MW-9	11/28/06			39.12			3,639.64
MW-9	12/12/06			53.10			3,625.66
MW-9	01/09/07			39.14			3,639.62
MW-9	02/08/07			38.97			3,639.79
MW-9	02/21/07			39.22			3,639.54
MW-9	02/27/07			39.21			3,639.55
MW-9	03/09/07			39.21			3,639.55



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-9	03/13/07			39.20			3,639.56
MW-9	03/15/07			39.20			3,639.56
MW-9	03/23/07			39.04			3,639.72
MW-9	03/28/07			39.16			3,639.60
MW-9	04/12/07			39.36			3,639.40
MW-9	04/18/07			39.30			3,639.46
MW-9	05/22/07			39.31			3,639.45
MW-9	06/20/07			39.40			3,639.36
MW-9	07/18/07			39.49			3,639.27
MW-9	09/19/07			39.45			3,639.31
MW-9	11/02/07			39.51			3,639.25
MW-9	11/16/07			39.48			3,639.28
MW-9	12/05/07			39.51			3,639.25
MW-9	01/30/08			39.54			3,639.22
MW-9	03/11/08			39.66			3,639.10
MW-9	04/29/08			39.58			3,639.18
MW-9	05/09/08			39.68			3,639.08
MW-9	06/11/08			39.73			3,639.03
MW-9	06/20/08			39.81			3,638.95
MW-9	08/19/08			39.95			3,638.81
MW-9	08/20/08			39.84			3,638.92
MW-9	12/18/08			40.02			3,638.74
MW-10	01/23/04	3,678.36		39.89			3,638.47
MW-10	04/29/04			39.74			3,638.62
MW-10	05/12/04			39.74			3,638.62
MW-10	06/03/04			39.74			3,638.62
MW-10	07/12/04			40.24			3,638.12
MW-10	07/19/04			40.33			3,638.03
MW-10	11/08/04			38.76			3,639.60
MW-10	03/31/05			37.46			3,640.90
MW-10	05/13/05			37.58			3,640.78
MW-10	05/23/05			37.58			3,640.78
MW-10	05/26/05			37.62			3,640.74
MW-10	06/28/05			37.70			3,640.66
MW-10	08/15/05			37.87			3,640.49
MW-10	08/17/05			37.02			3,641.34
MW-10	11/14/05			38.02			3,640.34



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-10	01/23/06			38.73			3,639.63
MW-10	03/02/06			38.16			3,640.20
MW-10	06/01/06			38.81			3,639.55
MW-10	08/14/06			39.51			3,638.85
MW-10	11/28/06			39.19			3,639.17
MW-10	12/12/06			39.21			3,639.15
MW-10	01/09/07			39.21			3,639.15
MW-10	02/08/07			39.10			3,639.26
MW-10	02/21/07			39.33			3,639.03
MW-10	02/27/07			39.29			3,639.07
MW-10	03/09/07			39.24			3,639.12
MW-10	03/13/07			39.29			3,639.07
MW-10	03/15/07			39.30			3,639.06
MW-10	03/23/07			39.11			3,639.25
MW-10	03/28/07			39.24			3,639.12
MW-10	04/12/07			39.46			3,638.90
MW-10	04/18/07			39.41			3,638.95
MW-10	04/18/07			39.31			3,639.05
MW-10	06/20/07			39.48			3,638.88
MW-10	07/18/07			39.59			3,638.77
MW-10	09/19/07			39.51			3,638.85
MW-10	11/02/07			39.50			3,638.86
MW-10	11/16/07			39.91			3,638.45
MW-10	12/05/07			39.52			3,638.84
MW-10	01/30/08			39.57			3,638.79
MW-10	03/11/08			39.78			3,638.58
MW-10	04/29/08			39.81			3,638.55
MW-10	05/09/08			39.80			3,638.56
MW-10	06/11/08			39.89			3,638.47
MW-10	06/20/08			39.93			3,638.43
MW-10	08/19/08			39.96			3,638.40
MW-10	08/20/08			39.96			3,638.40
MW-10	11/18/08			40.08			3,638.28
MW-10	12/18/08			40.10			3,638.26
MW-11	01/23/04	3,678.03		41.40			3,636.63
MW-11	04/29/04			41.07			3,636.96
MW-11	05/12/04			39.57			3,638.46



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-11	06/03/04			39.61			3,638.42
MW-11	07/12/04			40.04			3,637.99
MW-11	07/19/04			40.10			3,637.93
MW-11	11/08/04			38.66			3,639.37
MW-11	03/31/05			37.25			3,640.78
MW-11	05/13/05			37.40			3,640.63
MW-11	05/23/05			37.34			3,640.69
MW-11	05/26/05			31.45			3,646.58
MW-11	06/28/05			37.54			3,640.49
MW-11	08/15/05			37.60			3,640.43
MW-11	08/17/05			37.61			3,640.42
MW-11	11/14/05			37.80			3,640.23
MW-11	01/23/06			38.58			3,639.45
MW-11	03/02/06			37.97			3,640.06
MW-11	06/01/06			39.15			3,638.88
MW-11	08/14/06			39.33			3,638.70
MW-11	11/28/06			39.00			3,639.03
MW-11	12/12/06			39.06			3,638.97
MW-11	01/09/07			39.06			3,638.97
MW-11	02/08/07			38.91			3,639.12
MW-11	02/21/07			39.11			3,638.92
MW-11	02/27/07			44.87			3,633.16
MW-11	03/09/07			39.17			3,638.86
MW-11	03/13/07			39.13			3,638.90
MW-11	03/15/07			39.16			3,638.87
MW-11	03/23/07			39.01			3,639.02
MW-11	03/28/07			39.05			3,638.98
MW-11	04/12/07			39.34			3,638.69
MW-11	04/18/07			39.25			3,638.78
MW-11	05/22/07			39.24			3,638.79
MW-11	06/20/07			39.30			3,638.73
MW-11	07/18/07			39.42			3,638.61
MW-11	09/19/07			39.55			3,638.48
MW-11	11/02/07			39.37			3,638.66
MW-11	11/16/07			39.46			3,638.57
MW-11	12/05/07			39.47			3,638.56
MW-11	01/30/08			39.51			3,638.52
MW-11	03/11/08			39.56			3,638.47



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-11	04/29/08			39.63			3,638.40
MW-11	05/09/08			39.66			3,638.37
MW-11	06/11/08		40.01	40.49	0.48		3,637.97
MW-11	06/20/08		40.04	40.64	0.60		3,637.93
MW-11	07/22/08		39.61	40.88	1.27		3,638.29
MW-11	08/19/08		40.42	41.04	0.62		3,637.55
MW-11	08/20/08		40.42	41.09	0.67		3,637.54
MW-11	09/02/08		39.78	39.96	0.18		3,638.23
MW-11	11/18/08		39.35	42.46	3.11		3,638.37
MW-11	12/18/08		39.25	43.07	3.82		3,638.40
MW-12	01/23/04	3,679.63	39.49	45.30	5.81		3,639.56
MW-12	03/23/04		38.89	47.39	8.50		3,639.89
MW-12	03/29/04		38.86	47.33	8.47		3,639.92
MW-12	04/29/04		38.86	48.57	9.71		3,639.80
MW-12	05/03/04		38.83	46.63	7.80		3,640.02
MW-12	07/12/04		39.58	47.53	7.95		3,639.26
MW-12	12/09/04		37.50	44.28	6.78		3,641.45
MW-12	02/16/05		36.68	43.87	7.19		3,642.23
MW-12	03/31/05		36.95	42.97	6.02		3,642.08
MW-12	05/13/05		36.83	43.97	7.14		3,642.09
MW-12	05/26/05		36.95	43.71	6.76		3,642.00
MW-12	06/28/05		36.97	44.14	7.17		3,641.94
MW-12	08/15/05		37.25	43.60	6.35		3,641.75
MW-12	11/14/05		37.73	43.51	5.78		3,641.32
MW-12	01/23/06		38.08	44.34	6.26		3,640.92
MW-12	03/02/06		37.71	43.82	6.11		3,641.31
MW-12	06/01/06		38.87	44.25	5.38		3,640.22
MW-12	08/14/06		39.11	45.85	6.74		3,639.85
MW-12	11/28/06		38.64	44.91	6.27		3,640.36
MW-12	12/12/06		38.63	44.92	6.29		3,640.37
MW-12	01/09/07		38.41	44.87	6.46		3,640.57
MW-12	02/08/07		nd	42.02	na		3,636.01
MW-12	03/09/07		38.67	45.13	6.46		3,640.31
MW-12	03/13/07		38.64	45.14	6.50	7.00	3,640.34
MW-12	03/15/07		38.64	45.16	6.52	6.00	3,640.34
MW-12	03/23/07		38.68	45.14	6.46		3,640.30
MW-12	03/28/07		38.68	45.19	6.51		3,640.30



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-12	04/12/07		39.22	44.25	5.03		3,639.91
MW-12	04/18/07		39.96	44.68	4.72		3,639.20
MW-12	05/22/07		39.51	43.75	4.24		3,639.70
MW-12	06/20/07		39.42	43.40	3.98		3,639.81
MW-12	06/28/07		39.47	43.06	3.59		3,639.80
MW-12	07/18/07		39.65	42.80	3.15		3,639.67
MW-12	08/15/07		39.27	43.96	4.69		3,639.89
MW-12	08/22/07		39.50	42.90	3.40		3,639.79
MW-12	08/28/07		39.78	42.04	2.26		3,639.62
MW-12	09/19/07		39.39	43.31	3.92		3,639.85
MW-12	09/25/07		39.29	43.67	4.38		3,639.90
MW-12	10/09/07		39.14	44.79	5.65		3,639.93
MW-12	10/17/07		39.57	42.72	3.15		3,639.75
MW-12	10/26/07		39.21	41.22	2.01		3,640.22
MW-12	11/05/07		39.13	44.61	5.48		3,639.95
MW-12	11/12/07		39.33	44.70	5.37		3,639.76
MW-12	12/05/07		39.34	44.87	5.53		3,639.74
MW-12	01/03/08		39.37	44.14	4.77		3,639.78
MW-12	01/30/08		38.29	44.71	6.42		3,640.70
MW-12	02/04/08		38.35	44.81	6.46		3,640.63
MW-12	02/12/08		38.30	44.75	6.45		3,640.69
MW-12	03/11/08		39.29	45.08	5.79		3,639.76
MW-12	03/26/08		39.44	44.43	4.99		3,639.69
MW-12	04/02/08		39.46	44.87	5.41		3,639.63
MW-12	04/16/08		39.51	44.94	5.43		3,639.58
MW-12	04/29/08		39.76	44.26	4.50		3,639.42
MW-12	05/07/08		39.71	44.76	5.05		3,639.42
MW-12	06/11/08		39.86	45.02	5.16		3,639.25
MW-12	06/20/08		39.88	45.19	5.31		3,639.22
MW-12	07/22/08		39.69	45.50	5.81		3,639.36
MW-12	07/24/08		40.61	46.15	5.54		3,638.47
MW-12	08/19/08		40.08	46.95	6.87		3,638.86
MW-12	08/20/08		40.09	46.98	6.89		3,638.85
MW-12	11/18/08		39.50	45.95	6.45		3,639.49
MW-12	12/18/08		39.52	45.96	6.44		3,639.47
MW-13	01/23/04	3,681.42		39.67			3,641.75
MW-13	04/29/04			39.58			3,641.84



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-13	05/12/04			41.05			3,640.37
MW-13	06/03/04			41.05			3,640.37
MW-13	07/12/04			42.18			3,639.24
MW-13	07/19/04			42.44			3,638.98
MW-13	11/08/04			40.24			3,641.18
MW-13	03/31/05			38.79			3,642.63
MW-13	05/13/05			38.83			3,642.59
MW-13	05/23/05			38.82			3,642.60
MW-13	05/26/05			38.87			3,642.55
MW-13	06/28/05			38.63			3,642.79
MW-13	08/15/05			39.07			3,642.35
MW-13	08/17/05			39.02			3,642.40
MW-13	11/14/05			39.15			3,642.27
MW-13	01/23/06			39.84			3,641.58
MW-13	03/02/06			39.28			3,642.14
MW-13	06/01/06			40.73			3,640.69
MW-13	08/14/06			41.22			3,640.20
MW-13	11/28/06			40.38			3,641.04
MW-13	12/12/06			40.37			3,641.05
MW-13	01/09/07			40.36			3,641.06
MW-13	02/08/07			42.02			3,639.40
MW-13	02/27/07			40.41			3,641.01
MW-13	03/09/07			40.42			3,641.00
MW-13	03/13/07			40.42			3,641.00
MW-13	03/15/07			40.44			3,640.98
MW-13	03/23/07			40.25			3,641.17
MW-13	03/28/07			40.35			3,641.07
MW-13	04/12/07			40.55			3,640.87
MW-13	04/18/07			40.48			3,640.94
MW-13	05/23/07			40.48			3,640.94
MW-13	06/20/07			40.60			3,640.82
MW-13	07/18/07			40.68			3,640.74
MW-13	09/19/07			39.55			3,641.87
MW-13	11/02/07			40.58			3,640.84
MW-13	11/16/07			40.43			3,640.99
MW-13	12/05/07			40.75			3,640.67
MW-13	01/30/08			40.78			3,640.64
MW-13	03/11/08			36.14			3,645.28



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-13	04/29/08			40.92			3,640.50
MW-13	05/09/08			40.94			3,640.48
MW-13	06/11/08			40.98			3,640.44
MW-13	06/20/08			41.08			3,640.34
MW-13	08/19/08			41.10			3,640.32
MW-13	08/20/08			41.09			3,640.33
MW-13	12/18/08			41.26			3,640.16
MW-14	06/03/04	3,679.00	39.16	42.87	3.71		3,639.47
MW-14	07/12/04		39.29	46.46	7.17		3,638.99
MW-14	07/19/04		39.45	46.59	7.14		3,638.84
MW-14	08/26/04		38.92	45.94	7.02		3,639.38
MW-14	12/09/04		37.11	43.08	5.97		3,641.29
MW-14	02/16/05		36.62	42.53	5.91		3,641.79
MW-14	03/31/05		36.34	43.32	6.98		3,641.96
MW-14	05/13/05		36.45	43.34	6.89		3,641.86
MW-14	05/26/05		36.48	45.27	8.79		3,641.64
MW-14	06/28/05		36.54	44.83	8.29		3,641.63
MW-14	08/15/05		37.14	41.59	4.45		3,641.42
MW-14	11/14/05		37.55	41.70	4.15		3,641.04
MW-14	01/23/06		37.85	42.74	4.89		3,640.66
MW-14	03/02/06		37.58	41.71	4.13		3,641.01
MW-14	06/01/06		38.84	41.75	2.91		3,639.87
MW-14	08/14/06		0.00	39.00	39.00		3,675.10
MW-14	11/28/06		38.30	43.55	5.25		3,640.18
MW-14	12/12/06		38.24	44.02	5.78		3,640.18
MW-14	01/09/07		38.21	42.26	4.05		3,640.39
MW-14	02/08/07		38.18	44.27	6.09		3,640.21
MW-14	02/27/07		38.26	44.32	6.06	9.00	3,640.13
MW-14	03/09/07		38.27	44.41	6.14		3,640.12
MW-14	03/13/07		38.20	44.21	6.01		3,640.20
MW-14	03/15/07		38.22	44.20	5.98	6.00	3,640.18
MW-14	03/23/07		38.28	44.22	5.94		3,640.13
MW-14	03/28/07		38.25	44.27	6.02		3,640.15
MW-14	04/12/07		39.41	40.64	1.23		3,639.47
MW-14	04/18/07		39.69	40.01	0.32		3,639.28
MW-14	05/23/07		39.71	40.02	0.31		3,639.26
MW-14	06/20/07		38.96	41.88	2.92		3,639.75



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-14	06/28/07		39.05	41.85	2.80		3,639.67
MW-14	07/18/07		39.58	39.91	0.33		3,639.39
MW-14	08/15/07		39.63	39.87	0.24		3,639.35
MW-14	08/22/07		39.54	40.15	0.61		3,639.40
MW-14	08/28/07		39.39	41.62	2.23		3,639.39
MW-14	09/19/07		39.07	41.79	2.72		3,639.66
MW-14	09/25/07		39.34	40.94	1.60		3,639.50
MW-14	10/09/07		39.44	41.15	1.71		3,639.39
MW-14	10/17/07		39.61	39.80	0.19		3,639.37
MW-14	10/26/07		39.56	39.88	0.32		3,639.41
MW-14	11/05/07		39.08	42.21	3.13		3,639.61
MW-14	11/12/07		38.95	43.05	4.10		3,639.64
MW-14	12/05/07		38.99	43.75	4.76		3,639.53
MW-14	01/03/08		38.94	43.60	4.66		3,639.59
MW-14	01/30/08		39.03	43.88	4.85		3,639.49
MW-14	02/04/08		39.19	44.12	4.93		3,639.32
MW-14	02/12/08		39.06	43.91	4.85		3,639.46
MW-14	03/11/08		39.56	41.27	1.71		3,639.27
MW-14	03/26/08		39.94	40.14	0.20		3,639.04
MW-14	04/02/08		40.13	40.26	0.13		3,638.86
MW-14	04/16/08		39.94	40.25	0.31		3,639.03
MW-14	04/29/08		39.97	40.32	0.35		3,639.00
MW-14	05/07/08		39.39	43.18	3.79		3,639.23
MW-14	06/11/08		40.23	40.49	0.26		3,638.74
MW-14	06/20/08		40.29	40.52	0.23		3,638.69
MW-14	07/24/08		41.00	41.22	0.22		3,637.98
MW-14	08/19/08		39.86	44.75	4.89		3,638.65
MW-14	09/02/08		39.99	40.22	0.23		3,638.99
MW-14	11/18/08		39.15	44.54	5.39		3,639.31
MW-14	12/18/08		39.18	44.61	5.43		3,639.28
MW-15	06/03/04	3,674.92		36.22			3,638.70
MW-15	07/12/04			36.77			3,638.15
MW-15	07/19/04			36.90			3,638.02
MW-15	11/08/04			35.10			3,639.82
MW-15	03/31/05			33.92			3,641.00
MW-15	05/13/05			34.00			3,640.92
MW-15	05/23/05			35.34			3,639.58



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-15	05/26/05			35.38			3,639.54
MW-15	06/28/05			35.46			3,639.46
MW-15	08/15/05			34.32			3,640.60
MW-15	08/17/05			34.29			3,640.63
MW-15	11/14/05			34.47			3,640.45
MW-15	01/23/06			35.17			3,639.75
MW-15	03/02/06			34.60			3,640.32
MW-15	06/01/06			37.18			3,637.74
MW-15	08/10/06			35.62			3,639.30
MW-15	11/28/06			35.63			3,639.29
MW-15	12/12/06			36.92			3,638.00
MW-15	01/09/07			36.93			3,637.99
MW-15	02/27/07		35.16	35.67	0.51	10.00	3,639.71
MW-15	03/09/07		35.16	35.92	0.76		3,639.68
MW-15	03/13/07		35.65	36.01	0.36		3,639.23
MW-15	03/15/07		35.64	36.20	0.56		3,639.22
MW-15	03/23/07		35.68	36.14	0.46		3,639.19
MW-15	03/28/07		35.70	36.21	0.51		3,639.17
MW-15	04/12/07		35.75	36.51	0.76		3,639.09
MW-15	04/18/07		35.70	36.46	0.76		3,639.14
MW-15	05/22/07		35.70	37.04	1.34		3,639.09
MW-15	06/20/07		35.90	37.52	1.62		3,638.86
MW-15	07/18/07		35.60	38.10	2.50		3,639.07
MW-15	08/15/07		35.47	38.56	3.09		3,639.14
MW-15	08/22/07		35.48	38.58	3.10		3,639.13
MW-15	08/28/07		35.59	38.15	2.56		3,639.07
MW-15	09/19/07		35.78	36.98	1.20		3,639.02
MW-15	09/25/07		36.43	37.27	0.84		3,638.41
MW-15	10/09/07		35.61	37.99	2.38		3,639.07
MW-15	10/17/07		35.49	38.36	2.87		3,639.14
MW-15	10/26/07		35.47	38.71	3.24		3,639.13
MW-15	11/05/07		35.46	39.89	4.43		3,639.02
MW-15	11/12/07		35.37	39.18	3.81		3,639.17
MW-15	12/05/07		35.31	39.75	4.44		3,639.17
MW-15	01/03/08		35.31	40.26	4.95		3,639.12
MW-15	01/30/08		35.27	40.47	5.20		3,639.13
MW-15	02/04/08		35.33	40.60	5.27		3,639.06
MW-15	02/12/08		35.28	40.48	5.20		3,639.12



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-15	03/11/08		35.35	40.65	5.30		3,639.04
MW-15	03/26/08		35.40	40.71	5.31		3,638.99
MW-15	04/02/08		35.44	40.74	5.30		3,638.95
MW-15	04/16/08		36.34	36.61	0.27		3,638.55
MW-15	04/29/08		36.43	36.64	0.21		3,638.47
MW-15	05/07/08		36.07	39.29	3.22		3,638.53
MW-15	06/11/08		36.64	36.89	0.25		3,638.26
MW-15	06/20/08		36.69	36.91	0.22		3,638.21
MW-15	07/24/08		36.51	41.53	5.02		3,637.91
MW-15	08/19/08		36.19	41.46	5.27		3,638.20
MW-15	08/20/08		36.19	41.48	5.29		3,638.20
MW-15	09/02/08		36.02	38.35	2.33		3,638.67
MW-15	11/18/08		35.61	40.73	5.12		3,638.80
MW-15	12/18/08		35.64	40.88	5.24		3,638.76
MW-16	06/03/04	3,676.86		37.66			3,639.20
MW-16	07/12/04			38.35			3,638.51
MW-16	07/19/04			38.57			3,638.29
MW-16	11/08/04			36.38			3,640.48
MW-16	03/31/05			35.29			3,641.57
MW-16	05/13/05			35.31			3,641.55
MW-16	05/23/05			35.18			3,641.68
MW-16	05/26/05			34.04			3,642.82
MW-16	06/28/05			34.11			3,642.75
MW-16	08/15/05			35.61			3,641.25
MW-16	08/17/05			35.56			3,641.30
MW-16	11/14/05			35.73			3,641.13
MW-16	01/23/06			36.45			3,640.41
MW-16	03/02/06			35.85			3,641.01
MW-16	06/01/06			35.82			3,641.04
MW-16	08/14/06			37.50			3,639.36
MW-16	11/28/06			37.94			3,638.92
MW-16	12/12/06			35.65			3,641.21
MW-16	01/09/07			35.67			3,641.19
MW-16	03/09/07			36.00			3,640.86
MW-16	03/13/07			36.98			3,639.88
MW-16	03/15/07			36.96			3,639.90
MW-16	03/23/07			36.84			3,640.02



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-16	03/28/07			36.96			3,639.90
MW-16	04/12/07			37.14			3,639.72
MW-16	04/18/07			37.03			3,639.83
MW-16	05/23/07			37.08			3,639.78
MW-16	06/20/07			37.16			3,639.70
MW-16	07/18/07			37.28			3,639.58
MW-16	09/19/07			37.27			3,639.59
MW-16	11/02/07			37.30			3,639.56
MW-16	11/16/07			37.32			3,639.54
MW-16	12/05/07			37.36			3,639.50
MW-16	01/30/08			37.38			3,639.48
MW-16	03/11/08			37.46			3,639.40
MW-16	04/29/08			37.51			3,639.35
MW-16	05/09/08			37.54			3,639.32
MW-16	06/11/08			37.56			3,639.30
MW-16	06/20/08			37.64			3,639.22
MW-16	08/19/08			37.68			3,639.18
MW-16	08/20/08			37.69			3,639.17
MW-16	11/18/08			37.81			3,639.05
MW-16	12/18/08			37.85			3,639.01
MW-17	06/03/04	3,679.01	39.66	42.05	2.39		3,639.11
MW-17	07/12/04		39.39	46.94	7.55		3,638.87
MW-17	07/19/04		39.50	46.97	7.47		3,638.76
MW-17	08/26/04		39.04	46.59	7.55		3,639.22
MW-17	12/09/04		37.11	44.60	7.49		3,641.15
MW-17	02/16/05		37.00	41.07	4.07		3,641.60
MW-17	03/31/05		36.49	44.13	7.64		3,641.76
MW-17	05/13/05		36.52	44.24	7.72		3,641.72
MW-17	05/26/05		36.72	44.28	7.56		3,641.53
MW-17	06/28/05		36.95	44.76	7.81		3,641.28
MW-17	08/15/05		37.25	42.35	5.10		3,641.25
MW-17	11/14/05		37.69	42.33	4.64		3,640.86
MW-17	01/23/06		38.15	43.41	5.26		3,640.33
MW-17	03/02/06		37.59	43.25	5.66		3,640.85
MW-17	06/01/06		38.95	42.48	3.53		3,639.71
MW-17	08/14/06		39.10	44.41	5.31		3,639.38
MW-17	11/28/06		38.49	44.04	5.55		3,639.97



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-17	12/12/06		38.42	44.33	5.91		3,640.00
MW-17	01/09/07		38.42	43.07	4.65		3,640.13
MW-17	02/08/07		38.38	44.95	6.57		3,639.97
MW-17	02/27/07		38.51	45.22	6.71	11.00	3,639.83
MW-17	03/09/07		38.41	45.11	6.70		3,639.93
MW-17	03/13/07		38.39	45.02	6.63		3,639.96
MW-17	03/15/07		38.41	45.01	6.60	6.00	3,639.94
MW-17	03/23/07		38.43	45.11	6.68		3,639.91
MW-17	03/28/07		38.43	45.26	6.83		3,639.90
MW-17	04/12/07		39.06	43.82	4.76		3,639.47
MW-17	04/18/07		39.13	44.32	5.19		3,639.36
MW-17	05/23/07		39.41	43.65	4.24		3,639.18
MW-17	06/20/07		39.52	41.72	2.20		3,639.27
MW-17	06/28/07		39.79	40.75	0.96		3,639.12
MW-17	07/18/07		39.82	40.81	0.99		3,639.09
MW-17	08/15/07		39.92	40.18	0.26		3,639.06
MW-17	08/22/07		39.87	40.17	0.30		3,639.11
MW-17	08/28/07		39.90	40.39	0.49		3,639.06
MW-17	09/25/07		39.78	40.17	0.39		3,639.19
MW-17	10/09/07		39.92	40.38	0.46		3,639.04
MW-17	10/17/07		39.83	40.17	0.34		3,639.15
MW-17	10/26/07		39.91	40.03	0.12		3,639.09
MW-17	11/05/07		39.17	43.19	4.02		3,639.44
MW-17	11/12/07		39.89	40.04	0.15		3,639.11
MW-17	12/05/07		39.75	41.97	2.22		3,639.04
MW-17	01/03/08		39.50	42.39	2.89		3,639.22
MW-17	01/30/08		39.10	44.36	5.26		3,639.38
MW-17	02/04/08		39.21	44.44	5.23		3,639.28
MW-17	02/12/08		39.14	44.38	5.24		3,639.35
MW-17	03/11/08		39.66	42.27	2.61		3,639.09
MW-17	03/26/08		40.22	40.39	0.17		3,638.77
MW-17	04/16/08		40.19	40.60	0.41		3,638.78
MW-17	04/29/08		40.21	40.74	0.51		3,638.73
MW-17	05/07/08		39.49	43.18	3.69		3,639.15
MW-17	06/11/08		40.48	40.90	0.42		3,638.49
MW-17	06/20/08		40.54	40.88	0.34		3,638.44
MW-17	07/24/08		41.05	42.26	1.21		3,637.84
MW-17	08/19/08		39.99	45.73	5.74		3,638.45



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-17	09/02/08		40.27	40.37	0.10		3,638.73
MW-17	11/18/08		39.31	45.25	5.94		3,639.11
MW-17	12/18/08		39.39	45.40	6.01		3,639.02
MW-18	11/28/06			35.64			
MW-18	12/12/06			35.65			
MW-18	01/09/07			35.62			
MW-18	02/08/07			35.50			
MW-18	03/09/07			35.70			
MW-18	03/13/07			35.71			
MW-18	03/15/07			35.70			
MW-18	03/23/07			35.57			
MW-18	03/28/07			36.65			
MW-18	04/12/07			35.83			
MW-18	04/18/07			35.84			
MW-18	05/22/07			35.86			
MW-18	06/20/07			35.86			
MW-18	07/18/07			35.98			
MW-18	09/19/07	3,675.68		35.94			3,639.74
MW-18	11/02/07			35.97			3,639.71
MW-18	12/05/07			36.04			3,639.64
MW-18	01/30/08			36.08			3,639.60
MW-18	03/11/08			36.14			3,639.54
MW-18	04/29/08			38.22			3,637.46
MW-18	05/09/08			36.22			3,639.46
MW-18	06/11/08			36.27			3,639.41
MW-18	06/20/08			36.37			3,639.31
MW-18	08/19/08			36.37			3,639.31
MW-18	08/20/08			36.38			3,639.30
MW-18	11/18/08			36.51			3,639.17
MW-18	12/18/08			36.55			3,639.13
MW-19	11/28/06			35.55			
MW-19	12/12/06			35.55			
MW-19	01/09/07			35.57			
MW-19	02/08/07			35.43			
MW-19	03/09/07			35.65			
MW-19	03/13/07			35.65			



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-19	03/15/07			35.66			
MW-19	03/23/07			35.48			
MW-19	03/28/07			35.54			
MW-19	04/12/07			35.77			
MW-19	04/18/07			35.72			
MW-19	05/23/07			35.71			
MW-19	06/20/07			35.81			
MW-19	07/18/07			35.90			
MW-19	09/19/07	3,674.96		35.87			3,639.09
MW-19	11/02/07			35.90			3,639.06
MW-19	11/16/07			35.96			3,639.00
MW-19	12/05/07			36.56			3,638.40
MW-19	01/30/08			36.59			3,638.37
MW-19	03/11/08			36.06			3,638.90
MW-19	04/29/08			38.14			3,636.82
MW-19	05/09/08			36.15			3,638.81
MW-19	06/11/08			36.20			3,638.76
MW-19	06/20/08			36.28			3,638.68
MW-19	08/19/08			36.33			3,638.63
MW-19	08/20/08			36.32			3,638.64
MW-19	11/18/08			36.44			3,638.52
MW-19	12/18/08			36.48			3,638.48
MW-20	11/28/06			35.61			
MW-20	12/12/06			35.63			
MW-20	01/09/07			35.67			
MW-20	02/08/07			35.53			
MW-20	03/09/07			35.75			
MW-20	03/13/07			35.73			
MW-20	03/15/07			35.70			
MW-20	03/23/07			35.60			
MW-20	03/28/07			35.67			
MW-20	04/12/07			35.87			
MW-20	04/18/07			35.81			
MW-20	05/23/07			35.80			
MW-20	06/20/07			35.90			
MW-20	07/18/07			36.01			
MW-20	09/19/07	3,674.38		35.99			3,638.39
MW-20	11/02/07			36.01			3,638.37



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-20	12/05/07			35.97			3,638.41
MW-20	01/30/08			36.01			3,638.37
MW-20	03/11/08			36.14			3,638.24
MW-20	03/11/08			36.14			3,638.24
MW-20	04/29/08			36.23			3,638.15
MW-20	05/09/08			36.22			3,638.16
MW-20	06/11/08			36.28			3,638.10
MW-20	06/20/08			36.35			3,638.03
MW-20	08/19/08			36.39			3,637.99
MW-20	08/20/08			36.38			3,638.00
MW-20	11/18/08			36.51			3,637.87
MW-20	12/18/08			36.55			3,637.83
MW-21	12/05/07	3,674.38		36.34			3,638.04
MW-21	01/30/08			36.41			3,637.97
MW-21	03/11/08			36.48			3,637.90
MW-21	05/09/08			36.54			3,637.84
MW-21	06/11/08			36.59			3,637.79
MW-21	06/20/08			36.67			3,637.71
MW-21	08/19/08			36.70			3,637.68
MW-21	08/20/08			36.71			3,637.67
MW-21	11/18/08			36.82			3,637.56
MW-21	12/18/08			36.87			3,637.51
MW-22	12/05/07	3,674.07		36.08			3,637.99
MW-22	01/30/08			36.19			3,637.88
MW-22	03/11/08			36.26			3,637.81
MW-22	04/29/08			36.31			3,637.76
MW-22	05/09/08			36.31			3,637.76
MW-22	06/11/08			36.70			3,637.37
MW-22	06/20/08			36.45			3,637.62
MW-22	08/19/08			36.48			3,637.59
MW-22	08/20/08			36.49			3,637.58
MW-22	11/18/08			36.61			3,637.46
MW-22	12/18/08			36.66			3,637.41



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Sample Location	Date	Top of Casing Elevation (feet-amsl)	Depth to PSH (feet-btoc)	Depth to Water (feet-btoc)	PSH Thickness (feet)	PSH Recovered (gallons)	Corrected Groundwater Elevation* (feet-amsl)
MW-23	03/17/08	WELL INSTALLATION					
MW-23	03/25/08						
MW-23	03/29/08			36.08			
MW-23	04/29/08			36.15			
MW-23	05/09/08	3,672.39		36.15			3,636.24
MW-23	06/11/08			36.20			3,636.19
MW-23	06/20/08			36.31			3,636.08
MW-23	08/19/08			36.33			3,636.06
MW-23	08/20/08			36.31			3,636.08
MW-23	11/18/08			36.33			3,636.06
MW-23	12/18/08			36.51			3,635.88
MW-24	03/17/08	WELL INSTALLATION					
MW-24	03/25/08			36.04			
MW-24	03/29/08			36.04			
MW-24	04/29/08			36.04			
MW-24	05/09/08	3,672.79		36.03			3,636.76
MW-24	06/11/08			36.08			3,636.71
MW-24	06/20/08			36.16			3,636.63
MW-24	08/19/08			36.20			3,636.59
MW-24	08/20/08			36.20			3,636.59
MW-24	11/18/08			36.46			3,636.33
MW-24	12/18/08			36.38			3,636.41

Total manual recovery 159.50
 Approximate system recovery 76.60 bbls

PSH - Phase Separated Hydrocarbons na - not applicable

amsl - above mean sea level

btoc - below top of casing

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



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS#2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl benzene	Xylene
MW-1	03/11/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/20/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	08/22/08	14.7	7.36	1.32	1.65
	11/18/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-2	03/11/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/20/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	08/20/08	24.8	11.2	2.58	3.84
	11/18/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-3	03/11/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/20/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	08/21/08	19.6	10.9	2.16	3.09
	11/18/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-4	03/11/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/20/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	08/21/08	44.0	9.98	2.72	4.10
	11/18/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-5	03/11/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/20/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	08/22/08	12.0	10.8	1.78	6.02
	11/18/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-6	03/11/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/20/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	08/21/08	33.1	6.48	2.61	3.84
	11/18/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-7	03/11/08	<0.00100	<0.00100	<0.00100	<0.00100
	06/20/08	Not scheduled to sample 2nd quarter			
	08/20/08	Not scheduled to sample 3rd quarter			
	11/18/08	Not scheduled to sample 4th quarter			
MW-8	03/11/08	0.00540	<0.00100	<0.00100	<0.00100
	06/20/08	Not scheduled to sample 2nd quarter			
	08/20/08	Not scheduled to sample 3rd quarter			
	11/18/08	Not scheduled to sample 4th quarter			
MW-9	03/11/08	<0.00100	<0.00100	<0.00100	<0.00100
	06/20/08	Not scheduled to sample 2nd quarter			
	08/20/08	Not scheduled to sample 3rd quarter			
	11/18/08	Not scheduled to sample 4th quarter			
MW-10	03/11/08	1.69	<0.00500	0.105	0.0122
	06/20/08	3.25	<0.200	0.272	<0.200
	08/21/08	3.90	<0.0200	0.356	<0.0200
	11/18/08	3.35	<0.0200	0.255	<0.0200



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS#2003-00017
NMOCDF REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl benzene	Xylene
MW-11	03/11/08	24.7	1.19	1.66	1.33
	06/20/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	08/22/08	24.7	2.86	1.68	1.13
	11/18/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-12	03/11/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/20/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	08/21/08	24.9	14.8	3.19	4.79
	11/18/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-13	03/11/08	<0.00100	<0.00100	<0.00100	<0.00100
	06/20/08	Not scheduled to sample 2nd quarter			
	08/20/08	Not scheduled to sample 3rd quarter			
	11/18/08	Not scheduled to sample 4th quarter			
MW-14	03/11/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/20/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	08/20/08	34.7	10.8	2.68	3.89
	11/18/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-15	03/11/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/20/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	08/22/08	5.04	2.71	0.593	0.644
	11/18/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-16	03/11/08	0.0124	<0.00100	<0.00100	<0.00100
	06/20/08	<0.00100	<0.00100	<0.00100	<0.00100
	08/21/08	0.00140	<0.00100	<0.00100	<0.00100
	11/18/08	0.00200	<0.00100	<0.00100	<0.00100
MW-17	03/11/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/20/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	08/20/08	39.4	22.0	3.00	4.18
	11/18/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-18	03/11/08	<0.00100	<0.00100	<0.00100	<0.00100
	06/20/08	0.00290	<0.00100	<0.00100	<0.00100
	08/21/08	<0.00100	<0.00100	<0.00100	<0.00100
	11/18/08	<0.00100	<0.00100	<0.00100	<0.00100
MW-19	03/11/08	<0.00500	<0.00500	<0.00500	<0.00500
	06/20/08	<0.00100	<0.00100	<0.00100	<0.00100
	08/21/08	<0.00100	<0.00100	<0.00100	<0.00100
	11/18/08	<0.00100	<0.00100	<0.00100	<0.00100
MW-20	03/11/08	38.9	<0.200	2.17	1.24
	06/20/08	30.7	<0.200	1.61	0.278
	08/21/08	31.0	<0.100	1.74	0.325
	11/18/08	27.3	<0.100	1.72	0.276

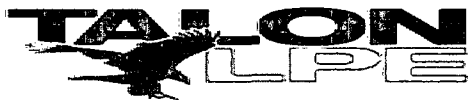


TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS#2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl benzene	Xylene
MW-21	03/11/08	<0.00500	<0.00500	<0.00500	<0.00500
	06/20/08	0.0511	<0.00100	<0.00100	<0.00100
	08/21/08	0.849	<0.0200	<0.0200	0.0238
	11/18/08	1.22	0.0253	0.222	0.0469
MW-22	03/11/08	<0.00100	<0.00100	<0.00100	<0.00100
	06/20/08	0.00450	<0.00100	<0.00100	0.00100
	08/21/08	<0.00100	<0.00100	<0.00100	<0.00100
	11/18/08	0.0148	<0.00100	<0.00100	<0.00100
MW-23	03/25/08	<0.00100	<0.00100	<0.00100	<0.00100
	06/20/08	<0.00100	<0.00100	<0.00100	<0.00100
	08/21/08	<0.00100	<0.00100	<0.00100	<0.00100
	11/18/08	<0.00100	<0.00100	<0.00100	<0.00100
MW-24	03/25/08	<0.00100	<0.00100	<0.00100	<0.00100
	06/20/08	<0.00100	<0.00100	<0.00100	<0.00100
	08/21/08	<0.00500	<0.00500	<0.00500	<0.00500
	11/18/08	<0.00100	<0.00100	<0.00100	<0.00100
NMWQCC Remedial Limits		0.010	0.750	0.750	0.620

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

Monitor wells MW-1 through MW-6, MW-11, MW-12, MW-14, MW-15, and MW-17 were sampled at the request of the NMOCD even though they contain PSH.

TABLE 3
SUMMARY OF SEMI-VOLATILE AND VOLATILE GROUNDWATER
ANALYTICAL DATA
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCDF REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Parameter	Sample Date	MW-23	MW-24	Units
Pyridine	03/25/08	<0.00500	<0.00500	mg/L
N-Nitrosodimethylamine	03/25/08	<0.00500	<0.00500	mg/L
2-Picoline	03/25/08	<0.00500	<0.00500	mg/L
Methyl methanesulfonate	03/25/08	<0.00500	<0.00500	mg/L
Ethyl methanesulfonate	03/25/08	<0.00500	<0.00500	mg/L
Phenol	03/25/08	<0.00500	<0.00500	mg/L
Aniline	03/25/08	<0.00500	<0.00500	mg/L
bis(2-chloroethyl)ether	03/25/08	<0.00500	<0.00500	mg/L
2-Chlorophenol	03/25/08	<0.00500	<0.00500	mg/L
1,3-Dichlorobenzene (meta)	03/25/08	<0.00500	<0.00500	mg/L
1,4-Dichlorobenzene (para)	03/25/08	<0.00500	<0.00500	mg/L
Benzyl alcohol	03/25/08	<0.00500	<0.00500	mg/L
1,2-Dichlorobenzene (ortho)	03/25/08	<0.00500	<0.00500	mg/L
2-Methylphenol	03/25/08	<0.00500	<0.00500	mg/L
bis(2-chloroisopropyl)ether	03/25/08	<0.00500	<0.00500	mg/L
4-Methylphenol / 3-Methylphenol	03/25/08	<0.00500	<0.00500	mg/L
N-Nitrosodi-n-propylamine	03/25/08	<0.00500	<0.00500	mg/L
Hexachloroethane	03/25/08	<0.00500	<0.00500	mg/L
Acetophenone	03/25/08	<0.00500	<0.00500	mg/L
Nitrobenzene	03/25/08	<0.00500	<0.00500	mg/L
N-Nitrosopiperidine	03/25/08	<0.00500	<0.00500	mg/L
Isophorone	03/25/08	<0.00500	<0.00500	mg/L
2-Nitrophenol	03/25/08	<0.00500	<0.00500	mg/L
2,4-Dimethylphenol	03/25/08	<0.00500	<0.00500	mg/L
bis(2-chloroethoxy)methane	03/25/08	<0.00500	<0.00500	mg/L
2,4-Dichlorophenol	03/25/08	<0.00500	<0.00500	mg/L
1,2,4-Trichlorobenzene	03/25/08	<0.00500	<0.00500	mg/L
Benzoic acid	03/25/08	<0.00500	<0.00500	mg/L

TABLE 3
SUMMARY OF SEMI-VOLATILE AND VOLATILE GROUNDWATER
ANALYTICAL DATA
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCDF REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Parameter	Sample Date	MW-23	MW-24	Units
Naphthalene	03/25/08	<0.00500	<0.00500	mg/L
a,a-Dimethylphenethylamine	03/25/08	<0.00500	<0.00500	mg/L
4-Chloroaniline	03/25/08	<0.00500	<0.00500	mg/L
2,6-Dichlorophenol	03/25/08	<0.0100	<0.0100	mg/L
Hexachlorobutadiene	03/25/08	<0.00500	<0.00500	mg/L
N-Nitroso-di-n-butylamine	03/25/08	<0.00500	<0.00500	mg/L
4-Chloro-3-methylphenol	03/25/08	<0.00500	<0.00500	mg/L
2-Methylnaphthalene	03/25/08	<0.00500	<0.00500	mg/L
1-Methylnaphthalene	03/25/08	<0.00500	<0.00500	mg/L
1,2,4,5-Tetrachlorobenzene	03/25/08	<0.00500	<0.00500	mg/L
Hexachlorocyclopentadiene	03/25/08	<0.00500	<0.00500	mg/L
2,4,6-Trichlorophenol	03/25/08	<0.0100	<0.0100	mg/L
2,4,5-Trichlorophenol	03/25/08	<0.00500	<0.00500	mg/L
2-Chloroaphthalene	03/25/08	<0.00500	<0.00500	mg/L
1-Chloronaphthalene	03/25/08	<0.00500	<0.00500	mg/L
2-Nitroaniline	03/25/08	<0.00500	<0.00500	mg/L
Dimethylphthalate	03/25/08	<0.00500	<0.00500	mg/L
Acenaphthylene	03/25/08	<0.00500	<0.00500	mg/L
2,6-Dinitrotoluene	03/25/08	<0.00500	<0.00500	mg/L
3-Nitroaniline	03/25/08	<0.00500	<0.00500	mg/L
Aceaphthene	03/25/08	<0.00500	<0.00500	mg/L
2,4-Dinitrophenol	03/25/08	<0.00500	<0.00500	mg/L
Dibenzofuran	03/25/08	<0.00500	<0.00500	mg/L
Pentachlorobenzene	03/25/08	<0.00500	<0.00500	mg/L
4-Nitrophenol	03/25/08	<0.0250	<0.0250	mg/L

TABLE 3
SUMMARY OF SEMI-VOLATILE AND VOLATILE GROUNDWATER
ANALYTICAL DATA
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Parameter	Sample Date	MW-23	MW-24	Units
2,4-Dinitrotoluene	03/25/08	<0.00500	<0.00500	mg/L
1-Naphthylamine	03/25/08	<0.00500	<0.00500	mg/L
2,3,4,6-Tetrachlorophenol	03/25/08	<0.0100	<0.0100	mg/L
2-Naphthylamine	03/25/08	<0.00500	<0.00500	mg/L
Fluorene	03/25/08	<0.00500	<0.00500	mg/L
4-chlorophenyl-phenylether	03/25/08	<0.00500	<0.00500	mg/L
Diethylphthalate	03/25/08	<0.00500	<0.00500	mg/L
4-Nitroaniline	03/25/08	<0.00500	<0.00500	mg/L
diphenylhydrazine	03/25/08	<0.00500	<0.00500	mg/L
4,6-Dinitro-2-methylphenol	03/25/08	<0.00500	<0.00500	mg/L
diphenylhydrazine	03/25/08	<0.00500	<0.00500	mg/L
4,6-Dinitro-2-methylphenol	03/25/08	<0.00500	<0.00500	mg/L
Diphenylamine	03/25/08	<0.00500	<0.00500	mg/L
4-Bromophenyl-phenylether	03/25/08	<0.00500	<0.00500	mg/L
Phenacetin	03/25/08	<0.00500	<0.00500	mg/L
Hexachlorobenzene	03/25/08	<0.00500	<0.00500	mg/L
4-Aminobiphenyl	03/25/08	<0.00500	<0.00500	mg/L
Pentachlorophenol	03/25/08	<0.0100	<0.0100	mg/L
Anthracene	03/25/08	<0.00500	<0.00500	mg/L
Pentachloronitrobenzene	03/25/08	<0.00500	<0.00500	mg/L
Pronamide	03/25/08	<0.00500	<0.00500	mg/L
Phenanthrene	03/25/08	<0.00500	<0.00500	mg/L
Di-n-butylphthalate	03/25/08	<0.00500	<0.00500	mg/L
Fluoranthene	03/25/08	<0.00500	<0.00500	mg/L
Benzidine	03/25/08	<0.0250	<0.0250	mg/L
Pyrene	03/25/08	<0.00500	<0.00500	mg/L

TABLE 3
SUMMARY OF SEMI-VOLATILE AND VOLATILE GROUNDWATER
ANALYTICAL DATA
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Parameter	Sample Date	MW-23	MW-24	Units
p-Dimthylaminoazobenzene	03/25/08	<0.00500	<0.00500	mg/L
Butylebenzylphthalae	03/25/08	<0.00500	<0.00500	mg/L
Benzo(a)anthracene	03/25/08	<0.00500	<0.00500	mg/L
3,3-Dichlorobenzidine	03/25/08	<0.00500	<0.00500	mg/L
Chrysene	03/25/08	<0.00500	<0.00500	mg/L
bis(2-ethylhexyl)phthalate	03/25/08	<0.00500	<0.00500	mg/L
Di-n-octylphthalate	03/25/08	<0.00500	<0.00500	mg/L
Benzo(b)fluoranthene	03/25/08	<0.00500	<0.00500	mg/L
Benzo(k)fluoranthene	03/25/08	<0.00500	<0.00500	mg/L
7,12-Dimethylbenz(a)anthracene	03/25/08	<0.00500	<0.00500	mg/L
Benzo(a)pyrene	03/25/08	<0.00500	<0.00500	mg/L
3-Mthylcholanthrene	03/25/08	<0.00500	<0.00500	mg/L
Dibenzo(a,j)acridine	03/25/08	<0.00500	<0.00500	mg/L
Indeno(1,2,3-cd)pyrene	03/25/08	<0.00500	<0.00500	mg/L
Dibenzo(a,h)anthracene	03/25/08	<0.00500	<0.00500	mg/L
Benzo(g,h,i)perylene	03/25/08	<0.00500	<0.00500	mg/L
Bromochloromethane	03/25/08	<0.001	<0.001	mg/L
Dichlorodifluoromethane	03/25/08	<0.001	<0.001	mg/L
Chloroethane (methyl chloride)	03/25/08	<0.001	<0.001	mg/L
Vinyl Chloride	03/25/08	<0.001	<0.001	mg/L
Bromomethane (methyl iodide)	03/25/08	<0.005	<0.005	mg/L
Chloroethane	03/25/08	<0.001	<0.001	mg/L
Trichlorofluoromethane	03/25/08	<0.001	<0.001	mg/L
Acetone	03/25/08	<0.010	<0.010	mg/L
Iodomethane (methyl iodide)	03/25/08	<0.005	<0.005	mg/L
Carbon Disulfide	03/25/08	<0.001	<0.001	mg/L
Acrylonitrile	03/25/08	<0.001	<0.001	mg/L
2-Butanone (MEK)	03/25/08	<0.005	<0.005	mg/L
4-Mthyl-2-pentanone (MIBK)	03/25/08	<0.005	<0.005	mg/L

TABLE 3
SUMMARY OF SEMI-VOLATILE AND VOLATILE GROUNDWATER
ANALYTICAL DATA
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCDF REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Parameter	Sample Date	MW-23	MW-24	Units
2-Hexanone	03/25/08	<0.005	<0.005	mg/L
trans 1,4-Dichloro-2-butene	03/25/08	<0.010	<0.010	mg/L
1,1-Dichloroethene	03/25/08	<0.001	<0.001	mg/L
Methylene chloride	03/25/08	<0.005	<0.005	mg/L
MTBE	03/25/08	<0.001	<0.001	mg/L
trans-1,2-Dichloroethene	03/25/08	<0.001	<0.001	mg/L
1,1-Dichloroethane	03/25/08	<0.001	<0.001	mg/L
cis-1,2-Dichloroethene	03/25/08	<0.001	<0.001	mg/L
2,2-Dichloropropane	03/25/08	<0.001	<0.001	mg/L
1,2-Dichloroethane (EDC)	03/25/08	<0.001	<0.001	mg/L
Chloroform	03/25/08	<0.001	<0.001	mg/L
1,1,1-Trichloroethane	03/25/08	<0.001	<0.001	mg/L
1,1-Dichloropropene	03/25/08	<0.001	<0.001	mg/L
Benzene	03/25/08	<0.001	<0.001	mg/L
Carbon Tetrachloride	03/25/08	<0.001	<0.001	mg/L
1,2-Dichloropropane	03/25/08	<0.001	<0.001	mg/L
Trichloroethene (TCE)	03/25/08	<0.001	<0.001	mg/L
Dibromomethane (methylene bromide)	03/25/08	<0.001	<0.001	mg/L
Bromodichloromethane	03/25/08	<0.001	<0.001	mg/L
2-Chloroethyl vinyl ether	03/25/08	<0.005	<0.005	mg/L
cis-1,3-Dichloropropene	03/25/08	<0.001	<0.001	mg/L
trans-1,3-Dichloropropene	03/25/08	<0.001	<0.001	mg/L
Toluene	03/25/08	<0.001	<0.001	mg/L
1,1,2-Trichloroethane	03/25/08	<0.001	<0.001	mg/L
1,3-Dichloropropane	03/25/08	<0.001	<0.001	mg/L
Dibromochloromethane	03/25/08	<0.001	<0.001	mg/L
1,2-Dibromoethane (EDB)	03/25/08	<0.001	<0.001	mg/L

TABLE 3
SUMMARY OF SEMI-VOLATILE AND VOLATILE GROUNDWATER
ANALYTICAL DATA
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

Parameter	Sample Date	MW-23	MW-24	Units
Tetrachloroethene (PCE)	03/25/08	<0.001	<0.001	mg/L
Chlorobenzene	03/25/08	<0.001	<0.001	mg/L
1,1,1,2-Tetrachloroethane	03/25/08	<0.001	<0.001	mg/L
Ethylbenzene	03/25/08	<0.001	<0.001	mg/L
m,p-Xylene	03/25/08	<0.001	<0.001	mg/L
Bromoform	03/25/08	<0.001	<0.001	mg/L
Styrene	03/25/08	<0.001	<0.001	mg/L
o-Xylene	03/25/08	<0.001	<0.001	mg/L
1,1,2,2-Tetrachloroethane	03/25/08	<0.001	<0.001	mg/L
2-Chlorotoluene	03/25/08	<0.001	<0.001	mg/L
1,2,3-Trichloropropane	03/25/08	<0.001	<0.001	mg/L
Isopropylbenzene	03/25/08	<0.001	<0.001	mg/L
Bromobenzene	03/25/08	<0.001	<0.001	mg/L
n-Propylbenzene	03/25/08	<0.001	<0.001	mg/L
1,3,5-Trimethylebenzene	03/25/08	<0.001	<0.001	mg/L
tert-Butylbenzene	03/25/08	<0.001	<0.001	mg/L
1,2,4-Trimethylbenzene	03/25/08	<0.001	<0.001	mg/L
1,4-Dichlorobenzene (para)	03/25/08	<0.001	<0.001	mg/L
sec-Butylbenzene	03/25/08	<0.001	<0.001	mg/L
1,3-Dichlorobenzene (meta)	03/25/08	<0.001	<0.001	mg/L
p-Isopropyltoluene	03/25/08	<0.001	<0.001	mg/L
4-Chlorotoluene	03/25/08	<0.001	<0.001	mg/L
1,2-Dichlorobenzene (ortho)	03/25/08	<0.001	<0.001	mg/L
n-Butylbenzene	03/25/08	<0.001	<0.001	mg/L
1,2-Dibromo-3-chloropropane	03/25/08	<0.005	<0.005	mg/L
1,2,3-Trichlorobenzene	03/25/08	<0.005	<0.005	mg/L
1,2,4-Trichlorobenzene	03/25/08	<0.005	<0.005	mg/L
Naphthalene	03/25/08	<0.005	<0.005	mg/L
Hexachlorobutadiene	03/25/08	<0.005	<0.005	mg/L



TABLE 4
SUMMARY OF EUNICE WATER WELL#6
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

PARAM	Sample Date	Result	NMWQCC MCL	EPA MCL
Total Silver	03/31/08	<0.00500 mg/L	0.05 mg/L	
Total Aluminum	03/31/08	<0.0500 mg/L	5.0 mg/L	
Total Arsenic	03/31/08	0.0130 mg/L	0.1 mg/L	
Total Barium	03/31/08	0.0550 mg/L	1.0 mg/L	
Total Beryllium	03/31/08	<0.00200 mg/L		0.004 mg/L
Total Cadmium	03/31/08	<0.00100 mg/L	0.01 mg/L	
Chloride	03/31/08	41.5 mg/L	250 mg/L	
Corrosivity	03/31/08	non-corrosive mm/yr		
pH	03/31/08	7.48 s.u.	6-9	
Total Chromium	03/31/08	<0.00100 mg/L	0.05 mg/L	
Total Copper	03/31/08	<0.00500 mg/L	1.0 mg/L	
Total Iron	03/31/08	0.0340 mg/L	1.0 mg/L	
Fluoride	03/31/08	1.26 mg/L	1.6 mg/L	
Free Cyanide	03/31/08	<0.0100 mg/L	0.2 mg/L	
Total Mercury	03/31/08	<0.000200 mg/L	0.002 mg/L	
Total Manganese	03/31/08	<0.00250 mg/L	0.2 mg/L	
Nitrite-N	03/31/08	<1.00 mg/L		1.0 mg/L
Nitrate-N	03/31/08	3.50 mg/L	10.0 mg/L	
Benzo(a)pyrene	03/31/08	<0.0002000 mg/L	0.0007 mg/L	
Total Lead	03/31/08	<0.00500 mg/L	0.05 mg/L	
Total Antimony	03/31/08	<0.0200 mg/L		0.006 mg/L
Total Selenium	03/31/08	<0.0100 mg/L	0.05 mg/L	
Sulfate	03/31/08	66.7 mg/L	600 mg/L	
Surfactants	03/31/08	<0.100 MBAS mg/L		
Total Dissolved Solids	03/31/08	364.0 mg/L	1000 mg/L	
Total Thallium	03/31/08	<0.0200 mg/L		0.002 mg/L
Vinyl Chloride	03/31/08	<0.00100 mg/L	0.001 mg/L	
1,1-Dichloroethylene	03/31/08	<0.00100 mg/L	0.005 mg/L	
Mythylene chloride	03/31/08	<0.00500 mg/L	0.1 mg/L	
trans-1,2-Dichloroethylene	03/31/08	<0.00100 mg/L		0.1 mg/L
cis-1,2-Dichloroethylene	03/31/08	<0.00100 mg/L		0.07 mg/L



TABLE 4
SUMMARY OF EUNICE WATER WELL#6
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

PARAM	Sample Date	Result	NMWQCC MCL	EPA MCL
1,2-Dichloroethane (EDC)	03/31/08	<0.00100 mg/L	0.01 mg/L	
Benzene	03/31/08	<0.00100 mg/L	0.01 mg/L	
Carbon Tetrachloride	03/31/08	<0.00100 mg/L	0.01 mg/L	
1,2-Dichloropropane	03/31/08	<0.00100 mg/L		0.005 mg/L
Trichloroethylene (TCE)	03/31/08	<0.00100 mg/L		0.005 mg/L
Toluene	03/31/08	<0.00100 mg/L	0.75 mg/L	
1,1,2-Trichloroethane	03/31/08	<0.00100 mg/L	0.01 mg/L	
Tetrachloroethylene (PCE)	03/31/08	<0.00100 mg/L		0.005 mg/L
Chlorobenzene	03/31/08	<0.00100 mg/L		0.1 mg/L
Ethylbenzene	03/31/08	<0.00100 mg/L	0.75 mg/L	
m,p-Xylene	03/31/08	<0.00100 mg/L		
Styrene	03/31/08	<0.00100 mg/L		0.1 mg/L
o-Xylene	03/31/08	<0.00100 mg/L		
1,4-Dichlorobenzene (para)	03/31/08	<0.00100 mg/L		0.075 mg/L
1,2-Dichlorobenzene (ortho)	03/31/08	<0.00100 mg/L		0.6 mg/L
1,2,4-Trichlorobenzene	03/31/08	<0.00500 mg/L		0.07 mg/L
Total Zinc	03/31/08	<0.00700 mg/L	10 mg/L	
Odor ²	03/31/08	no detectable odor		
Color	03/31/08	3 HU		

¹ **Bolded** values are in excess of the New Mexico Water Quality Control Commission Ground Water Standards

² No Detectable Odor corresponding to odor thresholds of 1,4,17, & 70



TABLE 5
SUMMARY OF GENERAL CHEMISTRY AND METALS IN GROUNDWATER
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

All concentrations are in mg/L

Parameter	Sample Date	MW-23	MW-24	NMWQCC MCL
Total Aluminum	06/20/08	5.49	4.19	5.0
Hydroxide Alkalinity	06/20/08	<1.00	<1.00	
Carbonate Alkalinity	06/20/08	<1.00	<1.00	
Bicarbonate Alkalinity	06/20/08	198	238	
Total Alkalinity	06/20/08	198	238	
Total Boron	06/20/08	0.229	0.365	0.75
Dissolved Calcium	06/20/08	107	55.7	
Dissolved Potassium	06/20/08	5.01	3.89	
Dissolved Magnesium	06/20/08	19.1	10.7	
Dissolved Sodium	06/20/08	61.3	134	
Total Cobalt	06/20/08	<0.00200	<0.00200	0.05
Total Copper	06/20/08	<0.00500	<0.00500	1.0
Total Iron	06/20/08	3.35	2.39	1.0
Chloride	06/20/08	87.6	58.7	250
Fluoride	06/20/08	2.72	2.71	1.6
PO4 - P	06/20/08	<2.50	<2.50	
Sulfate	06/20/08	158.0	154	600
Total Manganese	06/20/08	0.0430	0.0280	0.2
Total Molybdenum	06/20/08	<0.0100	<0.0100	1.0
Total Nickel	06/20/08	0.00600	<0.00500	0.2
Total Silver	06/20/08	<0.00500	<0.00500	0.05
Total Arsenic	06/20/08	<0.00500	<0.00500	0.1
Total Barium	06/20/08	0.167	0.0760	1.0
Total Cadmium	06/20/08	<0.00100	<0.00100	0.1
Total Chromium	06/20/08	0.0110	<0.00100	0.05
Total Mercury	06/20/08	<0.000200	<0.000200	0.002
Total Lead	06/20/08	<0.00500	<0.00500	0.05
Total Selenium	06/20/08	<0.0100	<0.0100	0.05
Total Zinc	06/20/08	0.0710	0.0200	10.0
Nitrate - N	06/20/08	3.70	5.27	10.0

¹ *Bolded values are in excess of the NMWQCC Ground Water Standards*

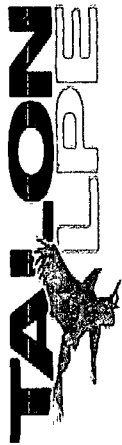


TABLE 6
SUMMARY OF GROUNDWATER POLY-AROMATIC
HYDROCARBON (PAH) ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

All concentrations are in mg/L

Sample Location	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]-anthracene	Benzo[a]-pyrene	Benzo[b]-fluoranthene	Benzo[ghi]perylene	Benzo[k]-fluoranthene	Chrysene	Dibenz[a,h]-anthracene	Dibenzofuran	Fluoranthene	Indeno[1,2,3-cd]-pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
MW-10	08/21/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000254	<0.000200	<0.000200	0.00181	<0.000200	<0.000200	<0.000200	<0.000200
MW-16	08/21/08	<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
MW-18	08/21/08	<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
MW-19	08/21/08	<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
MW-20	08/21/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00207	0.00125	<0.000200	0.0232	0.0139	0.0323	0.00114	<0.000200
MW-21	08/21/08	<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	0.00116	<0.000200	<0.000200	0.000202	<0.000200
MW-22	08/21/08	<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
MW-23	08/21/08	<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
MW-24	08/21/08	<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
NMWQCC Remedial Limits						0.007											0.030		

¹ Bolded values are in excess of the NMWQCC Remediation Thresholds

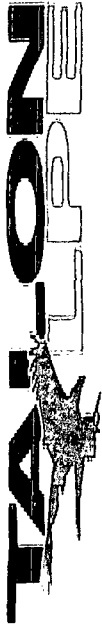


TABLE 7

SUMMARY OF PSH MONITOR WELLS GROUNDWATER POLY-AROMATIC
HYDROCARBON (PAH) ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SRS# 2003-00017
NMOCD REF. # AP-054
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER PLAINS047SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	TPH DRO	TPH GRO	Total TPH	Acenaphthene	Acenaphthylene	Anthracene	Benz[a]-anthracene	Benz[a]-pyrene	Benz[b]-fluoranthene	Benz[g,h,i]-perylene	Benzo[k]-fluoranthene	Chrysene	Dibenz[a,h]-anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno[1,2,3-cd]-pyrene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Phenanthrene	Pyrene
MW-1	08/22/08	14.7	7.36	1.32	1.65	<5.00	32.2	32.2	<0.000200	<0.000200	<0.000200	<0.000200	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00340	<0.000200	0.00272	<0.000200	0.0400	0.0386	0.0445	0.00249	<0.000200
MW-2	08/20/08	24.8	11.2	2.58	3.84	12.6	91.6	104.2	<0.000200	<0.000200	<0.000200	<0.000200	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00689	<0.000200	0.00603	<0.000200	0.0662	0.0640	0.0725	0.00709	0.000206
MW-3	08/21/08	19.6	10.9	2.16	3.09	5.78	84.6	90.38	<0.000200	<0.000200	<0.000200	<0.000200	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00406	<0.000200	0.00323	<0.000200	0.0436	0.0412	0.0537	0.00346	0.000212
MW-4	08/21/08	44.0	9.98	2.72	4.10	17.9	140	157.9	<0.000200	<0.000200	<0.000200	<0.000200	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.0146	<0.000200	0.0137	<0.000200	0.127	0.126	0.102	0.0176	0.00108
MW-5	08/22/08	12.0	10.8	1.78	6.02	<5.0	60.9	60.9	<0.000200	<0.000200	<0.000200	<0.000200	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00244	<0.000200	0.00206	<0.000200	0.0272	0.0263	0.0262	0.00190	<0.000200
MW-6	08/21/08	33.1	6.48	2.61	3.84	<5.00	95.6	95.6	<0.000200	<0.000200	<0.000200	<0.000200	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00272	<0.000200	0.00215	<0.000200	0.0316	0.0301	0.0494	0.00195	<0.000200
MW-11	08/22/08	24.7	2.86	1.68	1.13	<5.00	16.4	16.4	<0.000200	<0.000200	<0.000200	<0.000200	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00250	<0.000200	0.00172	<0.000200	0.0310	0.0246	0.0416	0.00132	<0.000200
MW-12	08/21/08	24.9	14.8	3.19	4.79	82.4	103	185.4	<0.000200	<0.000200	<0.000200	<0.000200	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00772	<0.000200	0.00735	<0.000200	0.0630	0.0642	0.0413	0.00999	0.000659
MW-14	08/20/08	34.7	10.8	2.68	3.89	6.53	118	124.53	<0.000200	<0.000200	<0.000200	<0.000200	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00437	<0.000200	0.00334	<0.000200	0.0448	0.0428	0.0639	0.00358	<0.000200
MW-15	08/22/08	5.04	2.71	0.593	0.644	6.01	12.7	18.71	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00201	<0.000200	0.00167	<0.000200	0.0208	0.0202	0.0239	0.00167	<0.000200
MW-17	08/20/08	39.4	22.0	3.00	4.18	55.7	152	207.7	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.0108	<0.000200	0.00992	<0.000200	0.0983	0.0962	0.0927	0.0121	0.000648
NMWQCC Remedial Limits		0.01	0.75	0.75	0.62								0.0007												0.030		

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

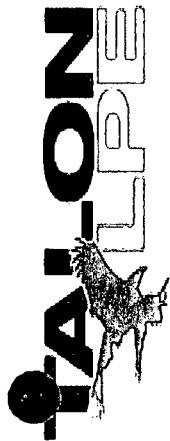


TABLE 8
SUMMARY OF SOIL ANALYTICAL DATA
PLAINS PIPELINE, L.P.
HOBBS JUNCTION MAINLINE - SR# 2003-00017
NMCD REF# AP-054
LEA COUNTY, NEW MEXICO
TALON/LE PROJECT NUMBER PLAINS047SPL

Location	Depth (feet)	SAMPLE I.D.	Sample Date	Soil Status	Lithology	PID analyses (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Sulfate (mg/Kg)	Chloride (mg/Kg)
MW1 (BH1) (PSH) ^a	2	SEHM21303BH1-2	12-Feb-99	In Situ	Caliche	--	169	981	562	942	2,650	21,400	31,700	53,100	21.8	52.3
	5	SEHM21303BH1-5	12-Feb-99	In Situ	Caliche	--	38.8	177	107	164	487	3,950	6,070	10,020	--	--
	10	SEHM21303BH1-10	12-Feb-99	In Situ	Caliche	--	44.6	196	113	176	529	2,650	3,860	6,510	--	--
	15	SEHM21303BH1-15	12-Feb-99	In Situ	Caliche	--	27.3	142	98.4	156	424	3,940	6,710	10,650	--	--
	20	SEHM21303BH1-20	12-Feb-99	In Situ	Caliche	--	10.6	84.5	66.3	111	272	2,990	5,870	8,860	--	--
MW2 (PSH)	25	SEHM21303BH1-25	12-Feb-99	In Situ	Tan Sand	--	9.75	95.5	94.2	150	349	2,820	5,760	8,580	--	--
	5	SEHM8503MW2-5	04-Aug-99	In Situ	Caliche	--	--	--	--	--	--	--	--	--	--	--
	10	SEHM8503MW2-10	04-Aug-99	In Situ	Caliche	--	--	--	--	--	--	--	--	--	--	--
	15	SEHM8503MW2-15	04-Aug-99	In Situ	Caliche	--	--	--	--	--	--	--	--	--	--	--
	20	SEHM8503MW2-20	04-Aug-99	In Situ	Caliche	--	--	--	--	--	--	--	--	--	--	--
	25	SEHM8503MW2-25	04-Aug-99	In Situ	Tan Sand	--	--	--	--	--	--	--	--	--	--	--
	30	SEHM8503MW2-30	04-Aug-99	In Situ	Tan Sand	--	--	--	--	--	--	--	--	--	--	--
	35	SEHM8503MW2-35	04-Aug-99	In Situ	Tan Sand	--	--	--	--	--	--	--	--	--	--	--
	40	SEHM8503MW2-40	04-Aug-99	In Situ	Tan Sand	--	--	--	--	--	--	--	--	--	--	--
	5	SEHM8503MW3-5	04-Aug-99	In Situ	Tan Caliche Sand	978	--	--	--	--	--	--	--	--	--	--
MW3 (PSH)	10	SEHM8503MW3-10	04-Aug-99	In Situ	Brown Caliche Sand	990	--	--	--	--	--	--	--	--	--	--
	15	SEHM8503MW3-15	04-Aug-99	In Situ	Brown Caliche Sand	1,040	--	--	--	--	--	--	--	--	--	--
	20	SEHM8503MW3-20	04-Aug-99	In Situ	Tan Sand	1,247	--	--	--	--	--	--	--	--	--	--
	25	SEHM8503MW3-25	04-Aug-99	In Situ	Brown Caliche Sand	1,800	--	--	--	--	--	--	--	--	--	--
	30	SEHM8503MW3-30	04-Aug-99	In Situ	Brown Sand	1,450	--	--	--	--	--	--	--	--	--	--
	35	SEHM8503MW3-35	04-Aug-99	In Situ	Fine Brown Sand	1,576	--	--	--	--	--	--	--	--	--	--
	40	SEHM8503MW3-40	04-Aug-99	In Situ	Fine Brown Sand	1,860	--	--	--	--	--	--	--	--	--	--
	5	SEHM8503MW4-5	04-Aug-99	In Situ	Brown Sand	850	--	--	--	--	--	--	--	--	--	--
	10	SEHM8503MW4-10	04-Aug-99	In Situ	Brown Sand	506	--	--	--	--	--	--	--	--	--	--
	15	SEHM8503MW4-15	04-Aug-99	In Situ	Brown Caliche Sand	710	--	--	--	--	--	--	--	--	--	--
MW4 (PSH)	20	SEHM8503MW4-20	04-Aug-99	In Situ	Brown Sand	770	--	--	--	--	--	--	--	--	--	--
	25	SEHM8503MW4-25	04-Aug-99	In Situ	Brown Sand	690	--	--	--	--	--	--	--	--	--	--
	30	SEHM8503MW4-30	04-Aug-99	In Situ	Brown Sand	750	--	--	--	--	--	--	--	--	--	--
	35	SEHM8503MW4-35	04-Aug-99	In Situ	Fine Brown Sand	900	--	--	--	--	--	--	--	--	--	--
	40	SEHM8503MW4-40	04-Aug-99	In Situ	Fine Brown Oily Sand	1,350	--	--	--	--	--	--	--	--	--	--

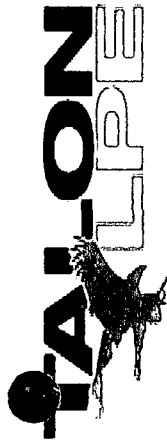


TABLE 8

SUMMARY OF SOIL ANALYTICAL DATA

PLAINS PIPELINE, L.P.

HOBBS JUNCTION MAINLINE - SRS# 2003-00017

NMOC REF# AP-054

LEA COUNTY, NEW MEXICO

TALON/LEA PROJECT NUMBER PLAINS047SPL

Location	Depth (feet)	SAMPLE I.D.	Sample Date	Soil Status	Lithology	PID analyses (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH (as gasoline) (mg/kg)	TPH (as diesel) (mg/kg)	Total TPH (mg/kg)	Sulfate (mg/kg)	Chloride (mg/kg)
MW5 (PSH)	5	SEHM8603MW5-5	05-Aug-99	In Situ	Tan Caliche Sand	6.7	-	-	-	-	-	-	-	-	-	-
	10	SEHM8603MW5-10	05-Aug-99	In Situ	Tan Caliche Sand	13.4	-	-	-	-	-	-	-	-	-	-
	15	SEHM8603MW5-15	05-Aug-99	In Situ	Tan Caliche Sand	30.7	-	-	-	-	-	-	-	-	-	-
	20	SEHM8603MW5-20	05-Aug-99	In Situ	Tan Sand	37.4	-	-	-	-	-	-	-	-	-	-
	25	SEHM8603MW5-25	05-Aug-99	In Situ	Brown Sand	18.6	-	-	-	-	-	-	-	-	-	-
	30	SEHM8603MW5-30	05-Aug-99	In Situ	Tan Caliche Sand	15	-	-	-	-	-	-	-	-	-	-
	35	SEHM8603MW5-35	05-Aug-99	In Situ	Brown Sand	1,880	-	-	-	-	-	-	-	-	-	-
	40	SEHM8603MW5-40	05-Aug-99	In Situ	Fine Brown Oily Sand	1,900	-	-	-	-	-	-	-	-	-	-
MW6 (PSH)	5	SEHM8603MW6-5	05-Aug-99	In Situ	Tan Caliche Sand	14.5	-	-	-	-	-	-	-	-	-	-
	10	SEHM8603MW6-10	05-Aug-99	In Situ	Tan Caliche Sand	62.7	-	-	-	-	-	-	-	-	-	-
	15	SEHM8603MW6-15	05-Aug-99	In Situ	Tan Caliche Sand	70.4	-	-	-	-	-	-	-	-	-	-
	20	SEHM8603MW6-20	05-Aug-99	In Situ	Tan Sand	36.9	-	-	-	-	-	-	-	-	-	-
	25	SEHM8603MW6-25	05-Aug-99	In Situ	Tan Sand	39.4	-	-	-	-	-	-	-	-	-	-
	30	SEHM8603MW6-30	05-Aug-99	In Situ	Tan Sand	27.5	-	-	-	-	-	-	-	-	-	-
	35	SEHM8603MW6-35	05-Aug-99	In Situ	Brown Sand	1,150	-	-	-	-	-	-	-	-	-	-
	40	SEHM8603MW6-40	05-Aug-99	In Situ	Fine Brown Oily Sand	2,400	-	-	-	-	-	-	-	-	-	-
MW7	23	SSL11904MW7	18-Jan-00	In Situ	Tan Caliche Sand	1.8	-	-	-	-	-	-	-	-	-	-
	40	SSL11904MW7	18-Jan-00	In Situ	Brown Wet Sand	0.6	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
MW8	23	SSL11904MW8	18-Jan-00	In Situ	Brown Sand	5.2	-	-	-	-	-	-	-	-	-	-
	40	SSL11904MW8	18-Jan-00	In Situ	Brown Wet Sand	13.6	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
MW9	23	SSL11904MW9	18-Jan-00	In Situ	Brown Sand	5.8	-	-	-	-	-	-	-	-	-	-
	40	SSL11904MW9	18-Jan-00	In Situ	Brown Wet Sand	10.1	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
MW10	23	SSL12004MW10	19-Jan-00	In Situ	Red Brown Sand	5.2	-	-	-	-	-	-	-	-	-	-
	40	SSL12004MW10	19-Jan-00	In Situ	Red Brown Wet Sand	9.8	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
MW11	23	SSL012004MW11	19-Jan-00	In Situ	Tan Sand	4.8	-	-	-	-	-	-	-	-	-	-
	40	SSL012004MW11	19-Jan-00	In Situ	Red Brown Wet Sand	9.6	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
MW12	23	SSL012004MW12	19-Jan-00	In Situ	Tan Caliche Sand	21.9	-	-	-	-	-	-	-	-	-	-
(PSH)	40	SSL012004MW12	19-Jan-00	In Situ	Red Brown Sand	456	8.84	98.0	54.2	94.3	255	1,910	3,490	5,400	-	-
MW13	23	SSL012004MW13	19-Jan-00	In Situ	Tan Caliche Sand	11.4	-	-	-	-	-	-	-	-	-	-
	40	SSL012004MW13	19-Jan-00	In Situ	Red Brown Wet Sand	7	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-

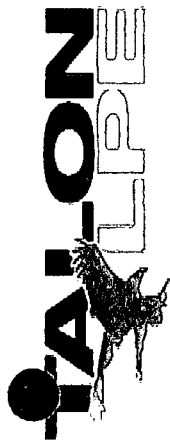


TABLE 8

SUMMARY OF SOIL ANALYTICAL DATA

PLAINS PIPELINE, L.P.

HOBBS JUNCTION MAINLINE - SRS# 2003-00017

NMOC REF# AP-054

LEA COUNTY, NEW MEXICO

TALON/LPE PROJECT NUMBER PLAINS047SPL

Location	Depth (feet)	SAMPLE I.D.	Sample Date	Soil Status	Lithology	PID analyses (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Sulfate (mg/Kg)	Chloride (mg/Kg)
MW14 (PSH)	3	LSHJM5-24-04MW14 (3'-5')	23-May-00	In Situ	Caliche	81.8	-	-	-	-	-	-	-	-	-	-
	8	LSHJM5-24-04MW14 (8'-10')	23-May-00	In Situ	Caliche	33.4	-	-	-	-	-	-	-	-	-	-
	13	LSHJM5-24-04MW14 (13'-15')	23-May-00	In Situ	Caliche	23.8	-	-	-	-	-	-	-	-	-	-
	18	LSHJM5-24-04MW14 (18'-20')	23-May-00	In Situ	Caliche	102	-	-	-	-	-	-	-	-	-	-
	23	LSHJM5-24-04MW14 (23'-25')	23-May-00	In Situ	Tan Sand	73.3	-	-	-	-	-	-	-	-	-	-
	28	LSHJM5-24-04MW14 (28'-30')	23-May-00	In Situ	Tan Sand	170	-	-	-	-	-	-	-	-	-	-
	33	LSHJM5-24-04MW14 (33'-35')	23-May-00	In Situ	Tan Sand	76.7	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
	38	LSHJM5-24-04MW14 (38'-40')	23-May-00	In Situ	Tan Sand	394	-	-	-	-	-	-	-	-	-	-
	43	LSHJM5-24-04MW14 (43'-45')	23-May-00	In Situ	Tan Sand	58.3	-	-	-	-	-	-	-	-	-	-
	40	LSHJM5-26-04MW15 (3'-5')	25-May-00	In Situ	Caliche	7.7	-	-	-	-	-	-	-	-	-	-
MW15	8	LSHJM5-26-04MW15 (8'-10')	25-May-00	In Situ	Caliche	0	-	-	-	-	-	-	-	-	-	-
	13	LSHJM5-26-04MW15 (13'-15')	25-May-00	In Situ	Caliche	0	-	-	-	-	-	-	-	-	-	-
	18	LSHJM5-26-04MW15 (18'-20')	25-May-00	In Situ	Caliche	0	-	-	-	-	-	-	-	-	-	-
	23	LSHJM5-26-04MW15 (23'-25')	25-May-00	In Situ	Tan Sand	0	-	-	-	-	-	-	-	-	-	-
	28	LSHJM5-26-04MW15 (28'-30')	25-May-00	In Situ	Tan Sand	4.5	-	-	-	-	-	-	-	-	-	-
	33	LSHJM5-26-04MW15 (33'-35')	25-May-00	In Situ	Tan Caliche Sand	32.5	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
	38	LSHJM5-26-04MW15 (38'-40')	25-May-00	In Situ	Tan Sand	0	-	-	-	-	-	-	-	-	-	-
	43	LSHJM5-26-04MW15 (43'-45')	25-May-00	In Situ	Tan Sand	8.1	-	-	-	-	-	-	-	-	-	-
	3	LSHJM5-26-04MW16 (3'-5')	25-May-00	In Situ	Caliche	0	-	-	-	-	-	-	-	-	-	-
	8	LSHJM5-26-04MW16 (8'-10')	25-May-00	In Situ	Caliche	36.9	-	-	-	-	-	-	-	-	-	-
MW16	13	LSHJM5-26-04MW16 (13'-15')	25-May-00	In Situ	Caliche	0.3	-	-	-	-	-	-	-	-	-	-
	18	LSHJM5-26-04MW16 (18'-20')	25-May-00	In Situ	Caliche	0	-	-	-	-	-	-	-	-	-	-
	23	LSHJM5-26-04MW16 (23'-25')	25-May-00	In Situ	Tan Caliche Sand	117	-	-	-	-	-	-	-	-	-	-
	28	LSHJM5-26-04MW16 (28'-30')	25-May-00	In Situ	Tan Caliche Sand	287	-	-	-	-	-	-	-	-	-	-
	33	LSHJM5-26-04MW16 (33'-35')	25-May-00	In Situ	Tan Sand	413	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
	38	LSHJM5-26-04MW16 (38'-40')	25-May-00	In Situ	Tan Sand	436	-	-	-	-	-	-	-	-	-	-
	40	LSHJM5-26-04MW16 (43'-45')	25-May-00	In Situ	Tan Sand	180	-	-	-	-	-	-	-	-	-	-
	3	LSHJM5-24-04MW17 (3'-5')	23-May-00	In Situ	Caliche	4.1	-	-	-	-	-	-	-	-	-	-
	8	LSHJM5-24-04MW17 (8'-10')	23-May-00	In Situ	Caliche	10.9	-	-	-	-	-	-	-	-	-	-
	13	LSHJM5-24-04MW17 (13'-15')	23-May-00	In Situ	Caliche	6.5	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
MW17 (PSH)	18	LSHJM5-24-04MW17 (18'-20')	23-May-00	In Situ	Caliche	5.6	-	-	-	-	-	-	-	-	-	-
	23	LSHJM5-24-04MW17 (23'-25')	23-May-00	In Situ	Tan Sand	13.2	-	-	-	-	-	-	-	-	-	-
	28	LSHJM5-26-04MW17 (28'-30')	25-May-00	In Situ	Tan Sand	130	-	-	-	-	-	-	-	-	-	-
	34	LSHJM5-26-04MW17 (34'-36')	25-May-00	In Situ	Tan Sand	1,189	19.1	86.8	49.8	73.1	229	1,880	3,110	4,990	-	-
	38	LSHJM5-26-04MW17 (38'-40')	25-May-00	In Situ	Tan Sand	387	-	-	-	-	-	-	-	-	-	-
	40	LSHJM5-26-04MW17 (43'-45')	25-May-00	In Situ	Tan Sand	107	-	-	-	-	-	-	-	-	-	-
	3	LSHJM5-26-04MW18 (3'-5')	25-May-00	In Situ	Caliche	4.1	-	-	-	-	-	-	-	-	-	-
	8	LSHJM5-26-04MW18 (8'-10')	25-May-00	In Situ	Caliche	10.9	-	-	-	-	-	-	-	-	-	-
	13	LSHJM5-26-04MW18 (13'-15')	25-May-00	In Situ	Caliche	6.5	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5	-	-
	18	LSHJM5-26-04MW18 (18'-20')	25-May-00	In Situ	Caliche	5.6	-	-	-	-	-	-	-	-	-	-

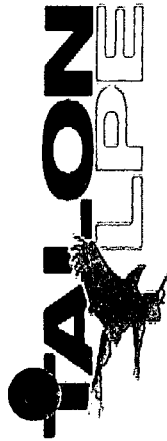


TABLE 8
SUMMARY OF SOIL ANALYTICAL DATA
PLAINS PIPELINE, L.P.

HOBBS JUNCTION MAINLINE - SRS# 2003-00017

NMOCD REF# AP-054

LEA COUNTY, NEW MEXICO

TALON/LPE PROJECT NUMBER PLAINS047SPL

Location	Depth (feet)	SAMPLE I.D.	Sample Date	Soil Status	Lithology	PID analyses (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Sulfate (mg/Kg)	Chloride (mg/Kg)
MW-21	35	MW-21 35'	05-Dec-07	In Situ	Light Brown Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0	<50.0		
MW-21	55	MW-21 55'	05-Dec-07	In Situ	Light Brown Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0	<50.0		
MW-22	35	MW-22 35'	05-Dec-07	In Situ	Light Brown Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0	<50.0		
MW-22	50	MW-22 50'	05-Dec-07	In Situ	Light Brown Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0	<50.0		
MW-23	5	MW-23 5'	17-Mar-08	In Situ	Tan Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	2.18	<50.0	2.18		
MW-23	20	MW-23 20'	17-Mar-08	In Situ	Tan Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0	<50.0		
MW-23	35	MW-23 35'	17-Mar-08	In Situ	Tan Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0	<50.0		
MW-24	5	MW-24 5'	17-Mar-08	In Situ	Tan Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0	<50.0		
MW-24	20	MW-24 20'	17-Mar-08	In Situ	Tan Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0	<50.0		
MW-24	35	MW-24 35'	17-Mar-08	In Situ	Tan Sand	0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.00	<50.0	<50.0		
NMOCD Remedial Thresholds																
											50			100	600 ^A	250 ^A

Bolded values are in excess of NMOCD Remedial Thresholds

^A Chloride and Sulfate residuals may not be capable of impacting local groundwater above the NMWQC groundwater standards 250 and 600 mg/L, respectively.

^B Indicates Phase Separated Hydrocarbons (PSH) detected during drilling activities.

APPENDIX C

Laboratory Analytical Data Reports and Chain of Custody Documentation



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Analytical and Quality Control Report

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

Report Date: March 19, 2008

Work Order: 8031211



Project Location: Hobbs, NM
Project Name: Junction Mainline
Project Number: Plains047SPL
SRS #: 2003-00017

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
153289	MW #10	water	2008-03-11	14:17	2008-03-12
153290	MW #9	water	2008-03-11	14:21	2008-03-12
153291	MW #8	water	2008-03-11	14:25	2008-03-12
153292	MW #7	water	2008-03-11	14:29	2008-03-12
153293	MW #11	water	2008-03-11	15:05	2008-03-12
153294	MW #21	water	2008-03-11	14:55	2008-03-12
153295	MW #22	water	2008-03-11	15:10	2008-03-12
153296	MW #20	water	2008-03-11	14:58	2008-03-12
153297	MW #19	water	2008-03-11	15:28	2008-03-12
153298	MW #16	water	2008-03-11	14:41	2008-03-12
153299	MW #13	water	2008-03-11	14:35	2008-03-12
153300	MW #18	water	2008-03-11	14:50	2008-03-12

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

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blair Leftwich

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 153289 - MW #10

Analysis: BTEX
QC Batch: 46566
Prep Batch: 40022

Analytical Method: S 8021B
Date Analyzed: 2008-03-15
Sample Preparation: 2008-03-14

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		1.69	mg/L	5	0.00100
Toluene		<0.00500	mg/L	5	0.00100
Ethylbenzene		0.105	mg/L	5	0.00100
Xylene		0.0122	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.528	mg/L	5	0.500	106	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.280	mg/L	5	0.500	56	40.1 - 136

Sample: 153289 - MW #10

Analysis: Total BTEX
QC Batch: 46566
Prep Batch: 40022

Analytical Method: S 8021B
Date Analyzed: 2008-03-15
Sample Preparation: 2008-03-14

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

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		1.81	mg/L	5	0.00100

Sample: 153290 - MW #9

Analysis: BTEX
QC Batch: 46566
Prep Batch: 40022

Analytical Method: S 8021B
Date Analyzed: 2008-03-15
Sample Preparation: 2008-03-14

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0671	mg/L	1	0.100	67	40.1 - 136

Sample: 153290 - MW #9

Analysis: Total BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46566	Date Analyzed: 2008-03-15	Analyzed By: DC
Prep Batch: 40022	Sample Preparation: 2008-03-14	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		<0.00100	mg/L	1	0.00100

Sample: 153291 - MW #8

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46566	Date Analyzed: 2008-03-15	Analyzed By: DC
Prep Batch: 40022	Sample Preparation: 2008-03-14	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00540	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0768	mg/L	1	0.100	77	40.1 - 136

Sample: 153291 - MW #8

Analysis: Total BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46566	Date Analyzed: 2008-03-15	Analyzed By: DC
Prep Batch: 40022	Sample Preparation: 2008-03-14	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		0.00540	mg/L	1	0.00100

Sample: 153292 - MW #7

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46566	Date Analyzed: 2008-03-15	Analyzed By: DC
Prep Batch: 40022	Sample Preparation: 2008-03-14	Prepared By: DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0674	mg/L	1	0.100	67	40.1 - 136

Sample: 153292 - MW #7

Analysis: Total BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46566 Date Analyzed: 2008-03-15 Analyzed By: DC
Prep Batch: 40022 Sample Preparation: 2008-03-14 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		<0.00100	mg/L	1	0.00100

Sample: 153293 - MW #11

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		24.7	mg/L	100	0.00100
Toluene		1.19	mg/L	100	0.00100
Ethylbenzene		1.66	mg/L	100	0.00100
Xylene		1.33	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.7	mg/L	100	10.0	107	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		8.52	mg/L	100	10.0	85	40.1 - 136

Sample: 153293 - MW #11

Analysis: Total BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		28.9	mg/L	100	0.00100

Sample: 153294 - MW #21

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.511	mg/L	5	0.500	102	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.433	mg/L	5	0.500	87	40.1 - 136

Sample: 153294 - MW #21

Analysis: Total BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		<0.00500	mg/L	5	0.00100

Sample: 153295 - MW #22

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0730	mg/L	1	0.100	73	40.1 - 136

Sample: 153295 - MW #22

Analysis: Total BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		<0.00100	mg/L	1	0.00100

Sample: 153296 - MW #20

Analysis: BTEX
QC Batch: 46633
Prep Batch: 40116

Analytical Method: S 8021B
Date Analyzed: 2008-03-18
Sample Preparation: 2008-03-18

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		38.9	mg/L	200	0.00100
Toluene		<0.200	mg/L	200	0.00100
Ethylbenzene		2.17	mg/L	200	0.00100
Xylene		1.24	mg/L	200	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		20.8	mg/L	200	20.0	104	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		16.4	mg/L	200	20.0	82	40.1 - 136

Sample: 153296 - MW #20

Analysis: Total BTEX
QC Batch: 46633
Prep Batch: 40116

Analytical Method: S 8021B
Date Analyzed: 2008-03-18
Sample Preparation: 2008-03-18

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

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		42.3	mg/L	200	0.00100

Sample: 153297 - MW #19

Analysis: BTEX
QC Batch: 46633
Prep Batch: 40116

Analytical Method: S 8021B
Date Analyzed: 2008-03-18
Sample Preparation: 2008-03-18

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.522	mg/L	5	0.500	104	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.301	mg/L	5	0.500	60	40.1 - 136

Sample: 153297 - MW #19

Analysis: Total BTEX
QC Batch: 46633
Prep Batch: 40116

Analytical Method: S 8021B
Date Analyzed: 2008-03-18
Sample Preparation: 2008-03-18

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

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		<0.00500	mg/L	5	0.00100

Sample: 153298 - MW #16

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0124	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0426	mg/L	1	0.100	43	40.1 - 136

Sample: 153298 - MW #16

Analysis: Total BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		0.0124	mg/L	1	0.00100

Sample: 153299 - MW #13

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 46610 Date Analyzed: 2008-03-17 Analyzed By: DC
Prep Batch: 40073 Sample Preparation: 2008-03-17 Prepared By: DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0429	mg/L	1	0.100	43	40.1 - 136

Sample: 153299 - MW #13

Analysis: Total BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46610	Date Analyzed: 2008-03-17	Analyzed By: DC
Prep Batch: 40073	Sample Preparation: 2008-03-17	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		<0.00100	mg/L	1	0.00100

Sample: 153300 - MW #18

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46610	Date Analyzed: 2008-03-17	Analyzed By: DC
Prep Batch: 40073	Sample Preparation: 2008-03-17	Prepared By: DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0431	mg/L	1	0.100	43	40.1 - 136

Sample: 153300 - MW #18

Analysis: Total BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 46610	Date Analyzed: 2008-03-17	Analyzed By: DC
Prep Batch: 40073	Sample Preparation: 2008-03-17	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Total BTEX		<0.00100	mg/L	1	0.00100

Method Blank (1) QC Batch: 46566

QC Batch: 46566	Date Analyzed: 2008-03-15	Analyzed By: DC
Prep Batch: 40022	QC Preparation: 2008-03-14	Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	69.1 - 122.3

Method Blank (1) QC Batch: 46610

QC Batch: 46610
Prep Batch: 40073

Date Analyzed: 2008-03-17
QC Preparation: 2008-03-17

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0832	mg/L	1	0.100	83	69.1 - 122.3

Method Blank (1) QC Batch: 46633

QC Batch: 46633
Prep Batch: 40116

Date Analyzed: 2008-03-18
QC Preparation: 2008-03-18

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.109	mg/L	1	0.100	109	69.1 - 122.3

Laboratory Control Spike (LCS-1)

QC Batch: 46566
Prep Batch: 40022

Date Analyzed: 2008-03-15
QC Preparation: 2008-03-14

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.106	mg/L	1	0.100	<0.00110	106	84 - 119.7

continued ...

¹MS/MSD benzene out of range. Use LCS/LCSD to show method is in control. •

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Toluene	0.108	mg/L	1	0.100	<0.00100	108	84.9 - 118.2
Ethylbenzene	0.109	mg/L	1	0.100	<0.00100	109	84.4 - 118.6
Xylene	0.334	mg/L	1	0.300	<0.00290	111	84.8 - 117.8

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.105	mg/L	1	0.100	<0.00110	105	84 - 119.7	1	20
Toluene	0.106	mg/L	1	0.100	<0.00100	106	84.9 - 118.2	2	20
Ethylbenzene	0.107	mg/L	1	0.100	<0.00100	107	84.4 - 118.6	2	20
Xylene	0.328	mg/L	1	0.300	<0.00290	109	84.8 - 117.8	2	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.105	0.105	mg/L	1	0.100	105	105	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.105	0.104	mg/L	1	0.100	105	104	67.7 - 126.3

Laboratory Control Spike (LCS-1)

QC Batch: 46610
Prep Batch: 40073

Date Analyzed: 2008-03-17
QC Preparation: 2008-03-17

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.102	mg/L	1	0.100	<0.00110	102	84 - 119.7
Toluene	0.104	mg/L	1	0.100	<0.00100	104	84.9 - 118.2
Ethylbenzene	0.104	mg/L	1	0.100	<0.00100	104	84.4 - 118.6
Xylene	0.316	mg/L	1	0.300	<0.00290	105	84.8 - 117.8

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.102	mg/L	1	0.100	<0.00110	102	84 - 119.7	0	20
Toluene	0.103	mg/L	1	0.100	<0.00100	103	84.9 - 118.2	1	20
Ethylbenzene	0.104	mg/L	1	0.100	<0.00100	104	84.4 - 118.6	0	20
Xylene	0.317	mg/L	1	0.300	<0.00290	106	84.8 - 117.8	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)	0.105	0.105	mg/L	1	0.100	105	105	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0866	0.0876	mg/L	1	0.100	87	88	67.7 - 126.3

Laboratory Control Spike (LCS-1)

QC Batch: 46633
Prep Batch: 40116

Date Analyzed: 2008-03-18
QC Preparation: 2008-03-18

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.112	mg/L	1	0.100	<0.00110	112	84 - 119.7
Toluene	0.113	mg/L	1	0.100	<0.00100	113	84.9 - 118.2
Ethylbenzene	0.115	mg/L	1	0.100	<0.00100	115	84.4 - 118.6
Xylene	0.352	mg/L	1	0.300	<0.00290	117	84.8 - 117.8

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.109	mg/L	1	0.100	<0.00110	109	84 - 119.7	3	20
Toluene	0.110	mg/L	1	0.100	<0.00100	110	84.9 - 118.2	3	20
Ethylbenzene	0.112	mg/L	1	0.100	<0.00100	112	84.4 - 118.6	3	20
Xylene	0.346	mg/L	1	0.300	<0.00290	115	84.8 - 117.8	2	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.109	0.108	mg/L	1	0.100	109	108	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.110	0.109	mg/L	1	0.100	110	109	67.7 - 126.3

Matrix Spike (MS-1) Spiked Sample: 153373

QC Batch: 46610
Prep Batch: 40073

Date Analyzed: 2008-03-17
QC Preparation: 2008-03-17

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	11.1	mg/L	50	5.00	5.3987	114	77.5 - 121.1
Toluene	5.20	mg/L	50	5.00	0.075	102	78.8 - 119.6
Ethylbenzene	5.07	mg/L	50	5.00	0.0987	99	77.9 - 120.5
Xylene	14.8	mg/L	50	15.0	0.5208	95	78.3 - 119.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	10.8	mg/L	50	5.00	5.3987	108	77.5 - 121.1	3	20
Toluene	4.86	mg/L	50	5.00	0.075	96	78.8 - 119.6	7	20
Ethylbenzene	4.83	mg/L	50	5.00	0.0987	95	77.9 - 120.5	5	20
Xylene	14.3	mg/L	50	15.0	0.5208	92	78.3 - 119.4	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	5.02	5.05	mg/L	50	5	100	101	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	² ³ 2.73	2.82	mg/L	50	5	55	56	59.4 - 127.3

²BFB out of control limits; TFT shows method to be in control.

³BFB out of control limits; TFT shows method to be in control.

Matrix Spike (MS-1) Spiked Sample: 153297

QC Batch: 46633
Prep Batch: 40116

Date Analyzed: 2008-03-18
QC Preparation: 2008-03-18

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.503	mg/L	5	0.500	<0.00550	101	77.5 - 121.1
Toluene	0.500	mg/L	5	0.500	<0.00500	100	78.8 - 119.6
Ethylbenzene	0.486	mg/L	5	0.500	<0.00500	97	77.9 - 120.5
Xylene	1.41	mg/L	5	1.50	<0.0145	94	78.3 - 119.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.501	mg/L	5	0.500	<0.00550	100	77.5 - 121.1	0	20
Toluene	0.501	mg/L	5	0.500	<0.00500	100	78.8 - 119.6	0	20
Ethylbenzene	0.491	mg/L	5	0.500	<0.00500	98	77.9 - 120.5	1	20
Xylene	1.43	mg/L	5	1.50	<0.0145	95	78.3 - 119.4	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.525	0.519	mg/L	5	0.5	105	104	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	0.293	0.298	mg/L	5	0.5	59	60	59.4 - 127.3

Standard (ICV-1)

QC Batch: 46566

Date Analyzed: 2008-03-15

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.103	103	85 - 115	2008-03-15
Toluene		mg/L	0.100	0.104	104	85 - 115	2008-03-15
Ethylbenzene		mg/L	0.100	0.105	105	85 - 115	2008-03-15
Xylene		mg/L	0.300	0.324	108	85 - 115	2008-03-15

Standard (CCV-1)

QC Batch: 46566

Date Analyzed: 2008-03-15

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.112	112	85 - 115	2008-03-15
Toluene		mg/L	0.100	0.112	112	85 - 115	2008-03-15
Ethylbenzene		mg/L	0.100	0.109	109	85 - 115	2008-03-15
Xylene		mg/L	0.300	0.312	104	85 - 115	2008-03-15

⁴BFB out of control limits; TFT shows method to be in control.

Standard (ICV-1)

QC Batch: 46610

Date Analyzed: 2008-03-17

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.100	100	85 - 115	2008-03-17
Toluene		mg/L	0.100	0.101	101	85 - 115	2008-03-17
Ethylbenzene		mg/L	0.100	0.0999	100	85 - 115	2008-03-17
Xylene		mg/L	0.300	0.298	99	85 - 115	2008-03-17

Standard (CCV-1)

QC Batch: 46610

Date Analyzed: 2008-03-17

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0999	100	85 - 115	2008-03-17
Toluene		mg/L	0.100	0.0996	100	85 - 115	2008-03-17
Ethylbenzene		mg/L	0.100	0.0980	98	85 - 115	2008-03-17
Xylene		mg/L	0.300	0.286	95	85 - 115	2008-03-17

Standard (ICV-1)

QC Batch: 46633

Date Analyzed: 2008-03-18

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.106	106	85 - 115	2008-03-18
Toluene		mg/L	0.100	0.109	109	85 - 115	2008-03-18
Ethylbenzene		mg/L	0.100	0.114	114	85 - 115	2008-03-18
Xylene	⁵	mg/L	0.300	0.350	117	85 - 115	2008-03-18

Standard (CCV-1)

QC Batch: 46633

Date Analyzed: 2008-03-18

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.100	100	85 - 115	2008-03-18
Toluene		mg/L	0.100	0.0995	100	85 - 115	2008-03-18
Ethylbenzene		mg/L	0.100	0.0964	96	85 - 115	2008-03-18
Xylene		mg/L	0.300	0.278	93	85 - 115	2008-03-18

⁵Xylene outside of control limits on ICV. ICV component average is 0.1130 which is within acceptable range. This is acceptable by Method 8000.

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contact Person:

E-mail: Camille Reynolds-Plains
5smith@talonlpe.com

voice to:

different from above) Plains Camille Reynolds

object #:

Project Name:

PLAINS 047 SPL SRS 2003-00017 Junction Mainline

object Location (including state):

Sampler Signature:

Cibola Chung

Hobbs, NM

LAB # (AB USE ONLY)	FIELD CODE	# CONTAINERS	MATRIX			PRESERVATIVE METHOD					SAMPLING	
			WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE
53289	MW #10	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
290	MW #9	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
291	MW #8	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
292	MW #7	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
293	MW #11	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
294	MW #21	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
295	MW #22	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
296	MW #20	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
297	MW #19	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
298	MW #16	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
299	MW #13	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Inquired by: Date: Time: Received by: Date: Time:

Cibola Chung 3-12-08 0700

Inquired by: Date: Time: Received by: Date: Time:

Cibola Chung 3-12-08 0700

Inquired by: Date: Time: Received by: Date: Time:

Cibola Chung 3-12-08 0700

Inquired by: Date: Time: Received by: Date: Time:

Cibola Chung 3-12-08 0700

Inquired by: Date: Time: Received by: Date: Time:

Cibola Chung 3-12-08 0700

Inquired by: Date: Time: Received by: Date: Time:

Cibola Chung 3-12-08 0700

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	BTX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Fm(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCBs 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard
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REMARKS:

LAB USE ONLY

All tests. Midland

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

Intact: ☒ Y ☐ N
 Headspace: ☒ Y ☐ N
 Temp: 30 °C
 Log-in-Review:

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

ORIGINAL COPY



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Analytical and Quality Control Report

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

Report Date: March 26, 2008

Work Order: 8032420



Project Location: Hobbs, NM
Project Name: Hobbs Junction Mainline
Project Number: Plains047SPL
SRS#: SRS#2003-00017

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
154490	MW-23 5'	soil	2008-03-17	11:31	2008-03-24
154491	MW-23 20'	soil	2008-03-17	11:43	2008-03-24
154492	MW-23 35'	soil	2008-03-17	11:53	2008-03-24
154493	MW-24 5'	soil	2008-03-17	15:04	2008-03-24
154494	MW-24 20'	soil	2008-03-17	15:14	2008-03-24
154495	MW-24 35'	soil	2008-03-17	15:23	2008-03-24

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

This report consists of a total of 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 154490 - MW-23 5'

Analysis: BTEX, Total BTEX
QC Batch: 46818
Prep Batch: 40266

Analytical Method: S 8021B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	¹	1.12	mg/Kg	1	1.00	112	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.16	mg/Kg	1	1.00	116	66.7 - 153.3

Sample: 154490 - MW-23 5'

Analysis: TPH DRO
QC Batch: 46817
Prep Batch: 40273

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		92.6	mg/Kg	1	100	93	10 - 250.4

Sample: 154490 - MW-23 5'

Analysis: TPH GRO
QC Batch: 46823
Prep Batch: 40266

Analytical Method: S 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	^B	2.18	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.988	mg/Kg	1	1.00	99	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	1	1.00	100	74.9 - 140.5

¹ High surrogate recovery. Sample non-detect, result bias high.

Sample: 154491 - MW-23 20'

Analysis: BTEX, Total BTEX
QC Batch: 46818
Prep Batch: 40266

Analytical Method: S 8021B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	²	1.12	mg/Kg	1	1.00	112	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.16	mg/Kg	1	1.00	116	66.7 - 153.3

Sample: 154491 - MW-23 20'

Analysis: TPH DRO
QC Batch: 46817
Prep Batch: 40273

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		83.1	mg/Kg	1	100	83	10 - 250.4

Sample: 154491 - MW-23 20'

Analysis: TPH GRO
QC Batch: 46823
Prep Batch: 40266

Analytical Method: S 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.988	mg/Kg	1	1.00	99	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	1	1.00	102	74.9 - 140.5

²High surrogate recovery. Sample non-detect, result bias high.

Sample: 154492 - MW-23 35'

Analysis: BTEX, Total BTEX
QC Batch: 46818
Prep Batch: 40266

Analytical Method: S 8021B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	³	1.12	mg/Kg	1	1.00	112	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.16	mg/Kg	1	1.00	116	66.7 - 153.3

Sample: 154492 - MW-23 35'

Analysis: TPH DRO
QC Batch: 46817
Prep Batch: 40273

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		84.4	mg/Kg	1	100	84	10 - 250.4

Sample: 154492 - MW-23 35'

Analysis: TPH GRO
QC Batch: 46823
Prep Batch: 40266

Analytical Method: S 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.970	mg/Kg	1	1.00	97	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	1	1.00	100	74.9 - 140.5

³High surrogate recovery. Sample non-detect, result bias high.

Sample: 154493 - MW-24 5'

Analysis: BTEX, Total BTEX
QC Batch: 46818
Prep Batch: 40266

Analytical Method: S 8021B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	⁴	1.12	mg/Kg	1	1.00	112	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.15	mg/Kg	1	1.00	115	66.7 - 153.3

Sample: 154493 - MW-24 5'

Analysis: TPH DRO
QC Batch: 46817
Prep Batch: 40273

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		82.1	mg/Kg	1	100	82	10 - 250.4

Sample: 154493 - MW-24 5'

Analysis: TPH GRO
QC Batch: 46823
Prep Batch: 40266

Analytical Method: S 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.967	mg/Kg	1	1.00	97	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		0.982	mg/Kg	1	1.00	98	74.9 - 140.5

⁴High surrogate recovery. Sample non-detect, result bias high.

Sample: 154494 - MW-24 20'

Analysis: BTEX, Total BTEX
QC Batch: 46818
Prep Batch: 40266

Analytical Method: S 8021B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	⁵	1.12	mg/Kg	1	1.00	112	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.15	mg/Kg	1	1.00	115	66.7 - 153.3

Sample: 154494 - MW-24 20'

Analysis: TPH DRO
QC Batch: 46817
Prep Batch: 40273

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		72.6	mg/Kg	1	100	73	10 - 250.4

Sample: 154494 - MW-24 20'

Analysis: TPH GRO
QC Batch: 46823
Prep Batch: 40266

Analytical Method: S 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.973	mg/Kg	1	1.00	97	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		0.976	mg/Kg	1	1.00	98	74.9 - 140.5

⁵High surrogate recovery. Sample non-detect, result bias high.

Sample: 154495 - MW-24 35'

Analysis: BTEX, Total BTEX
QC Batch: 46818
Prep Batch: 40266

Analytical Method: S 8021B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	⁶	1.11	mg/Kg	1	1.00	111	89 - 107.2
4-Bromofluorobenzene (4-BFB)		1.15	mg/Kg	1	1.00	115	66.7 - 153.3

Sample: 154495 - MW-24 35'

Analysis: TPH DRO
QC Batch: 46817
Prep Batch: 40273

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		89.6	mg/Kg	1	100	90	10 - 250.4

Sample: 154495 - MW-24 35'

Analysis: TPH GRO
QC Batch: 46823
Prep Batch: 40266

Analytical Method: S 8015B
Date Analyzed: 2008-03-25
Sample Preparation: 2008-03-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.989	mg/Kg	1	1.00	99	84.4 - 101.7
4-Bromofluorobenzene (4-BFB)		0.998	mg/Kg	1	1.00	100	74.9 - 140.5

⁶High surrogate recovery. Sample non-detect, result bias high.

Method Blank (1) QC Batch: 46817

QC Batch: 46817
Prep Batch: 40273

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: LD
Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		<15.8	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		93.9	mg/Kg	1	100	94	30.9 - 146.4

Method Blank (1) QC Batch: 46818

QC Batch: 46818
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.0110	mg/Kg	0.01
Toluene		<0.0109	mg/Kg	0.01
Ethylbenzene		<0.0109	mg/Kg	0.01
Xylene		<0.0331	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	1	1.00	113	82.3 - 121.6
4-Bromofluorobenzene (4-BFB)		1.09	mg/Kg	1	1.00	109	72 - 123

Method Blank (1) QC Batch: 46823

QC Batch: 46823
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
GRO		0.685	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.987	mg/Kg	1	1.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.927	mg/Kg	1	1.00	93	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 46817
Prep Batch: 40273

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: LD
Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	297	mg/Kg	1	250	<15.8	119	27.8 - 152.1

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	300	mg/Kg	1	250	<15.8	120	27.8 - 152.1	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
n-Triacontane	122	120	mg/Kg	1	100	122	120	38 - 130.4

Laboratory Control Spike (LCS-1)

QC Batch: 46818
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.08	mg/Kg	1	1.00	<0.0110	108	72.7 - 129.8
Toluene	1.09	mg/Kg	1	1.00	<0.0109	109	71.6 - 129.6
Ethylbenzene	1.10	mg/Kg	1	1.00	<0.0109	110	70.8 - 129.7
Xylene	3.37	mg/Kg	1	3.00	<0.0331	112	70.9 - 129.4

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.978	mg/Kg	1	1.00	<0.0110	98	72.7 - 129.8	10	20
Toluene	0.983	mg/Kg	1	1.00	<0.0109	98	71.6 - 129.6	10	20
Ethylbenzene	0.998	mg/Kg	1	1.00	<0.0109	100	70.8 - 129.7	10	20
Xylene	3.07	mg/Kg	1	3.00	<0.0331	102	70.9 - 129.4	9	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)	1.14	1.14	mg/Kg	1	1.00	114	114	82.9 - 122.8
4-Bromofluorobenzene (4-BFB)	1.15	1.16	mg/Kg	1	1.00	115	116	73.8 - 122.4

Laboratory Control Spike (LCS-1)

QC Batch: 46823
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.70	mg/Kg	1	10.0	0.685	80	69.6 - 97.3

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.70	mg/Kg	1	10.0	0.685	90	69.6 - 97.3	11	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)	1.07	1.05	mg/Kg	1	1.00	107	105	70 - 130
4-Bromofluorobenzene (4-BFB)	1.03	1.03	mg/Kg	1	1.00	103	103	70 - 130

Matrix Spike (MS-1) Spiked Sample: 154490

QC Batch: 46817
Prep Batch: 40273

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: LD
Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	370	mg/Kg	1	250	<15.8	148	18 - 179.5

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	298	mg/Kg	1	250	<15.8	119	18 - 179.5	22	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	128	128	mg/Kg	1	100	128	128	34.1 - 158

Matrix Spike (MS-1) Spiked Sample: 154498

QC Batch: 46818
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	⁸ 2.20	mg/Kg	1	1.00	<0.0110	220	58.6 - 165.2
Toluene	⁹ 2.26	mg/Kg	1	1.00	<0.0109	226	64.2 - 153.8
Ethylbenzene	¹⁰ 2.33	mg/Kg	1	1.00	<0.0109	233	61.6 - 159.4
Xylene	¹¹ 6.84	mg/Kg	1	3.00	<0.0331	228	64.4 - 155.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	¹² 1.62	mg/Kg	1	1.00	<0.0110	162	58.6 - 165.2	30	20

continued ...

⁷MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

⁸Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

⁹Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹⁰Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

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

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

matrix spikes continued ...

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Toluene	¹³	1.65	mg/Kg	1	1.00	<0.0109	165	64.2 - 153.8	31	20
Ethylbenzene	¹⁴	1.66	mg/Kg	1	1.00	<0.0109	166	61.6 - 159.4	34	20
Xylene	¹⁵	5.03	mg/Kg	1	3.00	<0.0331	168	64.4 - 155.3	30	20

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

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)		1.12	1.13	mg/Kg	1	1	112	113	76.5 - 127.9
4-Bromofluorobenzene (4-BFB)		1.16	1.17	mg/Kg	1	1	116	117	72 - 127.8

Matrix Spike (MS-1) Spiked Sample: 154498

QC Batch: 46823
Prep Batch: 40266

Date Analyzed: 2008-03-25
QC Preparation: 2008-03-25

Analyzed By: DC
Prepared By: DC

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	¹⁶	17.3	mg/Kg	1	10.0	<0.171	173	22.3 - 134.6

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	¹⁷	23.0	mg/Kg	1	10.0	<0.171	230	22.3 - 134.6	28	20

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

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)		0.975	0.978	mg/Kg	1	1	98	98	68.4 - 113.1
4-Bromofluorobenzene (4-BFB)		1.05	1.12	mg/Kg	1	1	105	112	66.7 - 134.3

Standard (ICV-1)

QC Batch: 46817

Date Analyzed: 2008-03-25

Analyzed By: LD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	281	112	85 - 115	2008-03-25

Standard (CCV-1)

QC Batch: 46817

Date Analyzed: 2008-03-25

Analyzed By: LD

¹³Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹⁴Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹⁵Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹⁶Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

¹⁷Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	266	106	85 - 115	2008-03-25

Standard (ICV-1)

QC Batch: 46818

Date Analyzed: 2008-03-25

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.109	109	85 - 115	2008-03-25
Toluene		mg/Kg	0.100	0.111	111	85 - 115	2008-03-25
Ethylbenzene		mg/Kg	0.100	0.114	114	85 - 115	2008-03-25
Xylene		mg/Kg	0.300	0.346	115	85 - 115	2008-03-25

Standard (CCV-1)

QC Batch: 46818

Date Analyzed: 2008-03-25

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.110	110	85 - 115	2008-03-25
Toluene		mg/Kg	0.100	0.110	110	85 - 115	2008-03-25
Ethylbenzene		mg/Kg	0.100	0.112	112	85 - 115	2008-03-25
Xylene		mg/Kg	0.300	0.343	114	85 - 115	2008-03-25

Standard (ICV-1)

QC Batch: 46823

Date Analyzed: 2008-03-25

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.978	98	85 - 115	2008-03-25

Standard (CCV-1)

QC Batch: 46823

Date Analyzed: 2008-03-25

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.05	105	85 - 115	2008-03-25



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

Analytical and Quality Control Report

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

Report Date: April 17, 2008

Work Order: 8032711



Project Location: Hobbs, NM
Project Name: Junction Mainline
Project Number: Plains047SPL
SRS #: 2003-00017

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
154838	MW-23	water	2008-03-25	12:18	2008-03-25
154839	MW-24	water	2008-03-25	12:41	2008-03-25

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

This report consists of a total of 23 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 154838 - MW-23

Analysis: Semivolatiles
QC Batch: 47137
Prep Batch: 40542

Analytical Method: S 8270C
Date Analyzed: 2008-04-04
Sample Preparation: 2008-04-01

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

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.00500	mg/L	1	0.00500
N-Nitrosodimethylamine		<0.00500	mg/L	1	0.00500
2-Picoline		<0.00500	mg/L	1	0.00500
Methyl methanesulfonate		<0.00500	mg/L	1	0.00500
Ethyl methanesulfonate		<0.00500	mg/L	1	0.00500
Phenol		<0.00500	mg/L	1	0.00500
Aniline		<0.00500	mg/L	1	0.00500
bis(2-chloroethyl)ether		<0.00500	mg/L	1	0.00500
2-Chlorophenol		<0.00500	mg/L	1	0.00500
1,3-Dichlorobenzene (meta)		<0.00500	mg/L	1	0.00500
1,4-Dichlorobenzene (para)		<0.00500	mg/L	1	0.00500
Benzyl alcohol		<0.00500	mg/L	1	0.00500
1,2-Dichlorobenzene (ortho)		<0.00500	mg/L	1	0.00500
2-Methylphenol		<0.00500	mg/L	1	0.00500
bis(2-chloroisopropyl)ether		<0.00500	mg/L	1	0.00500
4-Methylphenol / 3-Methylphenol		<0.00500	mg/L	1	0.00500
N-Nitrosodi-n-propylamine		<0.00500	mg/L	1	0.00500
Hexachloroethane		<0.00500	mg/L	1	0.00500
Acetophenone		<0.00500	mg/L	1	0.00500
Nitrobenzene		<0.00500	mg/L	1	0.00500
N-Nitrosopiperidine		<0.00500	mg/L	1	0.00500
Isophorone		<0.00500	mg/L	1	0.00500
2-Nitrophenol		<0.00500	mg/L	1	0.00500
2,4-Dimethylphenol		<0.00500	mg/L	1	0.00500
bis(2-chloroethoxy)methane		<0.00500	mg/L	1	0.00500
2,4-Dichlorophenol		<0.00500	mg/L	1	0.00500
1,2,4-Trichlorobenzene		<0.00500	mg/L	1	0.00500
Benzoic acid		<0.00500	mg/L	1	0.00500
Naphthalene		<0.00500	mg/L	1	0.00500
a,a-Dimethylphenethylamine		<0.00500	mg/L	1	0.00500
4-Chloroaniline		<0.00500	mg/L	1	0.00500
2,6-Dichlorophenol		<0.0100	mg/L	1	0.0100
Hexachlorobutadiene		<0.00500	mg/L	1	0.00500
N-Nitroso-di-n-butylamine		<0.00500	mg/L	1	0.00500
4-Chloro-3-methylphenol		<0.00500	mg/L	1	0.00500
2-Methylnaphthalene		<0.00500	mg/L	1	0.00500
1-Methylnaphthalene		<0.00500	mg/L	1	0.00500
1,2,4,5-Tetrachlorobenzene		<0.00500	mg/L	1	0.00500
Hexachlorocyclopentadiene		<0.00500	mg/L	1	0.00500
2,4,6-Trichlorophenol		<0.0100	mg/L	1	0.0100
2,4,5-Trichlorophenol		<0.00500	mg/L	1	0.00500
2-Chloronaphthalene		<0.00500	mg/L	1	0.00500
1-Chloronaphthalene		<0.00500	mg/L	1	0.00500
2-Nitroaniline		<0.00500	mg/L	1	0.00500

continued ...

sample 154838 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dimethylphthalate		<0.00500	mg/L	1	0.00500
Acenaphthylene		<0.00500	mg/L	1	0.00500
2,6-Dinitrotoluene		<0.00500	mg/L	1	0.00500
3-Nitroaniline		<0.00500	mg/L	1	0.00500
Acenaphthene		<0.00500	mg/L	1	0.00500
2,4-Dinitrophenol		<0.00500	mg/L	1	0.00500
Dibenzofuran		<0.00500	mg/L	1	0.00500
Pentachlorobenzene		<0.00500	mg/L	1	0.00500
4-Nitrophenol		<0.0250	mg/L	1	0.0250
2,4-Dinitrotoluene		<0.00500	mg/L	1	0.00500
1-Naphthylamine		<0.00500	mg/L	1	0.00500
2,3,4,6-Tetrachlorophenol		<0.0100	mg/L	1	0.0100
2-Naphthylamine		<0.00500	mg/L	1	0.00500
Fluorene		<0.00500	mg/L	1	0.00500
4-Chlorophenyl-phenylether		<0.00500	mg/L	1	0.00500
Diethylphthalate		<0.00500	mg/L	1	0.00500
4-Nitroaniline		<0.00500	mg/L	1	0.00500
Diphenylhydrazine		<0.00500	mg/L	1	0.00500
4,6-Dinitro-2-methylphenol		<0.00500	mg/L	1	0.00500
Diphenylamine		<0.00500	mg/L	1	0.00500
4-Bromophenyl-phenylether		<0.00500	mg/L	1	0.00500
Phenacetin		<0.00500	mg/L	1	0.00500
Hexachlorobenzene		<0.00500	mg/L	1	0.00500
4-Aminobiphenyl		<0.00500	mg/L	1	0.00500
Pentachlorophenol		<0.0100	mg/L	1	0.0100
Anthracene		<0.00500	mg/L	1	0.00500
Pentachloronitrobenzene		<0.00500	mg/L	1	0.00500
Pronamide		<0.00500	mg/L	1	0.00500
Phenanthrene		<0.00500	mg/L	1	0.00500
Di-n-butylphthalate		<0.00500	mg/L	1	0.00500
Fluoranthene		<0.00500	mg/L	1	0.00500
Benzidine		<0.0250	mg/L	1	0.0250
Pyrene		<0.00500	mg/L	1	0.00500
p-Dimethylaminoazobenzene		<0.00500	mg/L	1	0.00500
Butylbenzylphthalate		<0.00500	mg/L	1	0.00500
Benzo(a)anthracene		<0.00500	mg/L	1	0.00500
3,3-Dichlorobenzidine		<0.00500	mg/L	1	0.00500
Chrysene		<0.00500	mg/L	1	0.00500
bis(2-ethylhexyl)phthalate		<0.00500	mg/L	1	0.00500
Di-n-octylphthalate		<0.00500	mg/L	1	0.00500
Benzo(b)fluoranthene		<0.00500	mg/L	1	0.00500
Benzo(k)fluoranthene		<0.00500	mg/L	1	0.00500
7,12-Dimethylbenz(a)anthracene		<0.00500	mg/L	1	0.00500
Benzo(a)pyrene		<0.00500	mg/L	1	0.00500
3-Methylcholanthrene		<0.00500	mg/L	1	0.00500
Dibenzo(a,j)acridine		<0.00500	mg/L	1	0.00500
Indeno(1,2,3-cd)pyrene		<0.00500	mg/L	1	0.00500
Dibenzo(a,h)anthracene		<0.00500	mg/L	1	0.00500
Benzo(g,h,i)perylene		<0.00500	mg/L	1	0.00500

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.0155	mg/L	1	0.0800	19	10 - 84.7
Phenol-d5		0.0109	mg/L	1	0.0800	14	10 - 54.9
Nitrobenzene-d5		0.0478	mg/L	1	0.0800	60	10 - 202
2-Fluorobiphenyl		0.0551	mg/L	1	0.0800	69	10 - 199
2,4,6-Tribromophenol		0.0513	mg/L	1	0.0800	64	10 - 141
Terphenyl-d14		0.0752	mg/L	1	0.0800	94	10 - 160

Sample: 154838 - MW-23

Analysis: Volatiles
QC Batch: 47115
Prep Batch: 40517

Analytical Method: S 8260B
Date Analyzed: 2008-04-03
Sample Preparation: 2008-04-03

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

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<1.00	µg/L	1	1.00
Dichlorodifluoromethane		<1.00	µg/L	1	1.00
Chloromethane (methyl chloride)		<1.00	µg/L	1	1.00
Vinyl Chloride		<1.00	µg/L	1	1.00
Bromomethane (methyl bromide)		<5.00	µg/L	1	5.00
Chloroethane		<1.00	µg/L	1	1.00
Trichlorofluoromethane		<1.00	µg/L	1	1.00
Acetone		<10.0	µg/L	1	10.0
Iodomethane (methyl iodide)		<5.00	µg/L	1	5.00
Carbon Disulfide		<1.00	µg/L	1	1.00
Acrylonitrile		<1.00	µg/L	1	1.00
2-Butanone (MEK)		<5.00	µg/L	1	5.00
4-Methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5.00
2-Hexanone		<5.00	µg/L	1	5.00
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10.0
1,1-Dichloroethene		<1.00	µg/L	1	1.00
Methylene chloride		<5.00	µg/L	1	5.00
MTBE		<1.00	µg/L	1	1.00
trans-1,2-Dichloroethene		<1.00	µg/L	1	1.00
1,1-Dichloroethane		<1.00	µg/L	1	1.00
cis-1,2-Dichloroethene		<1.00	µg/L	1	1.00
2,2-Dichloropropane		<1.00	µg/L	1	1.00
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1.00
Chloroform		<1.00	µg/L	1	1.00
1,1,1-Trichloroethane		<1.00	µg/L	1	1.00
1,1-Dichloropropene		<1.00	µg/L	1	1.00
Benzene		<1.00	µg/L	1	1.00
Carbon Tetrachloride		<1.00	µg/L	1	1.00
1,2-Dichloropropane		<1.00	µg/L	1	1.00
Trichloroethene (TCE)		<1.00	µg/L	1	1.00
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1.00
Bromodichloromethane		<1.00	µg/L	1	1.00
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5.00
cis-1,3-Dichloropropene		<1.00	µg/L	1	1.00
trans-1,3-Dichloropropene		<1.00	µg/L	1	1.00

continued ...

sample 154838 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<1.00	µg/L	1	1.00
1,1,2-Trichloroethane		<1.00	µg/L	1	1.00
1,3-Dichloropropane		<1.00	µg/L	1	1.00
Dibromochloromethane		<1.00	µg/L	1	1.00
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1.00
Tetrachloroethene (PCE)		<1.00	µg/L	1	1.00
Chlorobenzene		<1.00	µg/L	1	1.00
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
Bromoform		<1.00	µg/L	1	1.00
Styrene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1.00
2-Chlorotoluene		<1.00	µg/L	1	1.00
1,2,3-Trichloropropane		<1.00	µg/L	1	1.00
Isopropylbenzene		<1.00	µg/L	1	1.00
Bromobenzene		<1.00	µg/L	1	1.00
n-Propylbenzene		<1.00	µg/L	1	1.00
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1.00
tert-Butylbenzene		<1.00	µg/L	1	1.00
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1.00
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1.00
sec-Butylbenzene		<1.00	µg/L	1	1.00
1,3-Dichlorobenzene (meta)		<1.00	µg/L	1	1.00
p-Isopropyltoluene		<1.00	µg/L	1	1.00
4-Chlorotoluene		<1.00	µg/L	1	1.00
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1.00
n-Butylbenzene		<1.00	µg/L	1	1.00
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5.00
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5.00
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5.00
Naphthalene		<5.00	µg/L	1	5.00
Hexachlorobutadiene		<5.00	µg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.1	µg/L	1	50.0	98	89.8 - 111
Toluene-d8		49.7	µg/L	1	50.0	99	93.2 - 108
4-Bromofluorobenzene (4-BFB)		47.8	µg/L	1	50.0	96	88.4 - 103

Sample: 154839 - MW-24

Analysis: Semivolatiles
QC Batch: 47137
Prep Batch: 40542

Analytical Method: S 8270C
Date Analyzed: 2008-04-04
Sample Preparation: 2008-04-01

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

Parameter	Flag	RL Result	Units	Dilution	RL
Pyridine		<0.00500	mg/L	1	0.00500
N-Nitrosodimethylamine		<0.00500	mg/L	1	0.00500
2-Picoline		<0.00500	mg/L	1	0.00500
Methyl methanesulfonate		<0.00500	mg/L	1	0.00500
Ethyl methanesulfonate		<0.00500	mg/L	1	0.00500
Phenol		<0.00500	mg/L	1	0.00500
Aniline		<0.00500	mg/L	1	0.00500
bis(2-chloroethyl)ether		<0.00500	mg/L	1	0.00500
2-Chlorophenol		<0.00500	mg/L	1	0.00500
1,3-Dichlorobenzene (meta)		<0.00500	mg/L	1	0.00500
1,4-Dichlorobenzene (para)		<0.00500	mg/L	1	0.00500
Benzyl alcohol		<0.00500	mg/L	1	0.00500
1,2-Dichlorobenzene (ortho)		<0.00500	mg/L	1	0.00500
2-Methylphenol		<0.00500	mg/L	1	0.00500
bis(2-chloroisopropyl)ether		<0.00500	mg/L	1	0.00500
4-Methylphenol / 3-Methylphenol		<0.00500	mg/L	1	0.00500
N-Nitrosodi-n-propylamine		<0.00500	mg/L	1	0.00500
Hexachloroethane		<0.00500	mg/L	1	0.00500
Acetophenone		<0.00500	mg/L	1	0.00500
Nitrobenzene		<0.00500	mg/L	1	0.00500
N-Nitrosopiperidine		<0.00500	mg/L	1	0.00500
Isophorone		<0.00500	mg/L	1	0.00500
2-Nitrophenol		<0.00500	mg/L	1	0.00500
2,4-Dimethylphenol		<0.00500	mg/L	1	0.00500
bis(2-chloroethoxy)methane		<0.00500	mg/L	1	0.00500
2,4-Dichlorophenol		<0.00500	mg/L	1	0.00500
1,2,4-Trichlorobenzene		<0.00500	mg/L	1	0.00500
Benzoic acid		<0.00500	mg/L	1	0.00500
Naphthalene		<0.00500	mg/L	1	0.00500
a,a-Dimethylphenethylamine		<0.00500	mg/L	1	0.00500
4-Chloroaniline		<0.00500	mg/L	1	0.00500
2,6-Dichlorophenol		<0.0100	mg/L	1	0.0100
Hexachlorobutadiene		<0.00500	mg/L	1	0.00500
N-Nitroso-di-n-butylamine		<0.00500	mg/L	1	0.00500
4-Chloro-3-methylphenol		<0.00500	mg/L	1	0.00500
2-Methylnaphthalene		<0.00500	mg/L	1	0.00500
1-Methylnaphthalene		<0.00500	mg/L	1	0.00500
1,2,4,5-Tetrachlorobenzene		<0.00500	mg/L	1	0.00500
Hexachlorocyclopentadiene		<0.00500	mg/L	1	0.00500
2,4,6-Trichlorophenol		<0.0100	mg/L	1	0.0100
2,4,5-Trichlorophenol		<0.00500	mg/L	1	0.00500
2-Chloronaphthalene		<0.00500	mg/L	1	0.00500
1-Chloronaphthalene		<0.00500	mg/L	1	0.00500
2-Nitroaniline		<0.00500	mg/L	1	0.00500
Dimethylphthalate		<0.00500	mg/L	1	0.00500
Acenaphthylene		<0.00500	mg/L	1	0.00500
2,6-Dinitrotoluene		<0.00500	mg/L	1	0.00500
3-Nitroaniline		<0.00500	mg/L	1	0.00500
Acenaphthene		<0.00500	mg/L	1	0.00500
2,4-Dinitrophenol		<0.00500	mg/L	1	0.00500
Dibenzofuran		<0.00500	mg/L	1	0.00500

continued ...

sample 154839 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Pentachlorobenzene		<0.00500	mg/L	1	0.00500
4-Nitrophenol		<0.0250	mg/L	1	0.0250
2,4-Dinitrotoluene		<0.00500	mg/L	1	0.00500
1-Naphthylamine		<0.00500	mg/L	1	0.00500
2,3,4,6-Tetrachlorophenol		<0.0100	mg/L	1	0.0100
2-Naphthylamine		<0.00500	mg/L	1	0.00500
Fluorene		<0.00500	mg/L	1	0.00500
4-Chlorophenyl-phenylether		<0.00500	mg/L	1	0.00500
Diethylphthalate		<0.00500	mg/L	1	0.00500
4-Nitroaniline		<0.00500	mg/L	1	0.00500
Diphenylhydrazine		<0.00500	mg/L	1	0.00500
4,6-Dinitro-2-methylphenol		<0.00500	mg/L	1	0.00500
Diphenylamine		<0.00500	mg/L	1	0.00500
4-Bromophenyl-phenylether		<0.00500	mg/L	1	0.00500
Phenacetin		<0.00500	mg/L	1	0.00500
Hexachlorobenzene		<0.00500	mg/L	1	0.00500
4-Aminobiphenyl		<0.00500	mg/L	1	0.00500
Pentachlorophenol		<0.0100	mg/L	1	0.0100
Anthracene		<0.00500	mg/L	1	0.00500
Pentachloronitrobenzene		<0.00500	mg/L	1	0.00500
Pronamide		<0.00500	mg/L	1	0.00500
Phenanthrene		<0.00500	mg/L	1	0.00500
Di-n-butylphthalate		<0.00500	mg/L	1	0.00500
Fluoranthene		<0.00500	mg/L	1	0.00500
Benzidine		<0.0250	mg/L	1	0.0250
Pyrene		<0.00500	mg/L	1	0.00500
p-Dimethylaminoazobenzene		<0.00500	mg/L	1	0.00500
Butylbenzylphthalate		<0.00500	mg/L	1	0.00500
Benzo(a)anthracene		<0.00500	mg/L	1	0.00500
3,3-Dichlorobenzidine		<0.00500	mg/L	1	0.00500
Chrysene		<0.00500	mg/L	1	0.00500
bis(2-ethylhexyl)phthalate		<0.00500	mg/L	1	0.00500
Di-n-octylphthalate		<0.00500	mg/L	1	0.00500
Benzo(b)fluoranthene		<0.00500	mg/L	1	0.00500
Benzo(k)fluoranthene		<0.00500	mg/L	1	0.00500
7,12-Dimethylbenz(a)anthracene		<0.00500	mg/L	1	0.00500
Benzo(a)pyrene		<0.00500	mg/L	1	0.00500
3-Methylcholanthrene		<0.00500	mg/L	1	0.00500
Dibenzo(a,j)acridine		<0.00500	mg/L	1	0.00500
Indeno(1,2,3-cd)pyrene		<0.00500	mg/L	1	0.00500
Dibenzo(a,h)anthracene		<0.00500	mg/L	1	0.00500
Benzo(g,h,i)perylene		<0.00500	mg/L	1	0.00500

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.0156	mg/L	1	0.0800	20	10 - 84.7
Phenol-d5		0.0112	mg/L	1	0.0800	14	10 - 54.9
Nitrobenzene-d5		0.0493	mg/L	1	0.0800	62	10 - 202
2-Fluorobiphenyl		0.0547	mg/L	1	0.0800	68	10 - 199

continued ...

sample continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,6-Tribromophenol		0.0433	mg/L	1	0.0800	54	10 - 141
Terphenyl-d14		0.0704	mg/L	1	0.0800	88	10 - 160

Sample: 154839 - MW-24

Analysis: Volatiles
QC Batch: 47115
Prep Batch: 40517Analytical Method: S 8260B
Date Analyzed: 2008-04-03
Sample Preparation: 2008-04-03Prep Method: S 5030B
Analyzed By: KB
Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<1.00	µg/L	1	1.00
Dichlorodifluoromethane		<1.00	µg/L	1	1.00
Chloromethane (methyl chloride)		<1.00	µg/L	1	1.00
Vinyl Chloride		<1.00	µg/L	1	1.00
Bromomethane (methyl bromide)		<5.00	µg/L	1	5.00
Chloroethane		<1.00	µg/L	1	1.00
Trichlorofluoromethane		<1.00	µg/L	1	1.00
Acetone		<10.0	µg/L	1	10.0
Iodomethane (methyl iodide)		<5.00	µg/L	1	5.00
Carbon Disulfide		<1.00	µg/L	1	1.00
Acrylonitrile		<1.00	µg/L	1	1.00
2-Butanone (MEK)		<5.00	µg/L	1	5.00
4-Methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5.00
2-Hexanone		<5.00	µg/L	1	5.00
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10.0
1,1-Dichloroethene		<1.00	µg/L	1	1.00
Methylene chloride		<5.00	µg/L	1	5.00
MTBE		<1.00	µg/L	1	1.00
trans-1,2-Dichloroethene		<1.00	µg/L	1	1.00
1,1-Dichloroethane		<1.00	µg/L	1	1.00
cis-1,2-Dichloroethene		<1.00	µg/L	1	1.00
2,2-Dichloropropane		<1.00	µg/L	1	1.00
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1.00
Chloroform		<1.00	µg/L	1	1.00
1,1,1-Trichloroethane		<1.00	µg/L	1	1.00
1,1-Dichloropropene		<1.00	µg/L	1	1.00
Benzene		<1.00	µg/L	1	1.00
Carbon Tetrachloride		<1.00	µg/L	1	1.00
1,2-Dichloropropane		<1.00	µg/L	1	1.00
Trichloroethene (TCE)		<1.00	µg/L	1	1.00
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1.00
Bromodichloromethane		<1.00	µg/L	1	1.00
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5.00
cis-1,3-Dichloropropene		<1.00	µg/L	1	1.00
trans-1,3-Dichloropropene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
1,1,2-Trichloroethane		<1.00	µg/L	1	1.00
1,3-Dichloropropane		<1.00	µg/L	1	1.00

continued ...

sample 154839 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibromochloromethane		<1.00	µg/L	1	1.00
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1.00
Tetrachloroethene (PCE)		<1.00	µg/L	1	1.00
Chlorobenzene		<1.00	µg/L	1	1.00
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
Bromoform		<1.00	µg/L	1	1.00
Styrene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1.00
2-Chlorotoluene		<1.00	µg/L	1	1.00
1,2,3-Trichloropropane		<1.00	µg/L	1	1.00
Isopropylbenzene		<1.00	µg/L	1	1.00
Bromobenzene		<1.00	µg/L	1	1.00
n-Propylbenzene		<1.00	µg/L	1	1.00
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1.00
tert-Butylbenzene		<1.00	µg/L	1	1.00
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1.00
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1.00
sec-Butylbenzene		<1.00	µg/L	1	1.00
1,3-Dichlorobenzene (meta)		<1.00	µg/L	1	1.00
p-Isopropyltoluene		<1.00	µg/L	1	1.00
4-Chlorotoluene		<1.00	µg/L	1	1.00
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1.00
n-Butylbenzene		<1.00	µg/L	1	1.00
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5.00
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5.00
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5.00
Naphthalene		<5.00	µg/L	1	5.00
Hexachlorobutadiene		<5.00	µg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.2	µg/L	1	50.0	98	89.8 - 111
Toluene-d8		49.8	µg/L	1	50.0	100	93.2 - 108
4-Bromofluorobenzene (4-BFB)		47.9	µg/L	1	50.0	96	88.4 - 103

Method Blank (1) QC Batch: 47115

QC Batch: 47115
Prep Batch: 40517

Date Analyzed: 2008-04-03
QC Preparation: 2008-04-03

Analyzed By: KB
Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
Bromochloromethane		<0.197	µg/L	1
Dichlorodifluoromethane		<0.672	µg/L	1
Chloromethane (methyl chloride)		<0.542	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Vinyl Chloride		<0.516	µg/L	1
Bromomethane (methyl bromide)		<0.446	µg/L	5
Chloroethane		<0.656	µg/L	1
Trichlorofluoromethane		<0.538	µg/L	1
Acetone		<1.10	µg/L	10
Iodomethane (methyl iodide)		<0.214	µg/L	5
Carbon Disulfide		<0.294	µg/L	1
Acrylonitrile		<0.442	µg/L	1
2-Butanone (MEK)		<0.420	µg/L	5
4-Methyl-2-pentanone (MIBK)		<0.407	µg/L	5
2-Hexanone		<0.486	µg/L	5
trans 1,4-Dichloro-2-butene		<0.463	µg/L	10
1,1-Dichloroethene		<0.237	µg/L	1
Methylene chloride		<0.312	µg/L	5
MTBE		<0.318	µg/L	1
trans-1,2-Dichloroethene		<0.217	µg/L	1
1,1-Dichloroethane		<0.202	µg/L	1
cis-1,2-Dichloroethene		<0.309	µg/L	1
2,2-Dichloropropane		<0.318	µg/L	1
1,2-Dichloroethane (EDC)		<0.292	µg/L	1
Chloroform		<0.234	µg/L	1
1,1,1-Trichloroethane		<0.257	µg/L	1
1,1-Dichloropropene		<0.286	µg/L	1
Benzene		<0.319	µg/L	1
Carbon Tetrachloride		<0.223	µg/L	1
1,2-Dichloropropane		<0.266	µg/L	1
Trichloroethene (TCE)		<0.235	µg/L	1
Dibromomethane (methylene bromide)		<0.341	µg/L	1
Bromodichloromethane		<0.291	µg/L	1
2-Chloroethyl vinyl ether		<0.293	µg/L	5
cis-1,3-Dichloropropene		<0.207	µg/L	1
trans-1,3-Dichloropropene		<0.293	µg/L	1
Toluene		<0.268	µg/L	1
1,1,2-Trichloroethane		<0.329	µg/L	1
1,3-Dichloropropane		<0.316	µg/L	1
Dibromochloromethane		<0.290	µg/L	1
1,2-Dibromoethane (EDB)		<0.229	µg/L	1
Tetrachloroethene (PCE)		<0.233	µg/L	1
Chlorobenzene		<0.276	µg/L	1
1,1,1,2-Tetrachloroethane		<0.226	µg/L	1
Ethylbenzene		<0.245	µg/L	1
m,p-Xylene		<0.517	µg/L	1
Bromoform		<0.175	µg/L	1
Styrene		<0.239	µg/L	1
o-Xylene		<0.247	µg/L	1
1,1,2,2-Tetrachloroethane		<0.223	µg/L	1
2-Chlorotoluene		<0.235	µg/L	1
1,2,3-Trichloropropane		<0.230	µg/L	1
Isopropylbenzene		<0.226	µg/L	1
Bromobenzene		<0.245	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
n-Propylbenzene		<0.234	µg/L	1
1,3,5-Trimethylbenzene		<0.261	µg/L	1
tert-Butylbenzene		<0.281	µg/L	1
1,2,4-Trimethylbenzene		<0.285	µg/L	1
1,4-Dichlorobenzene (para)		<0.307	µg/L	1
sec-Butylbenzene		<0.312	µg/L	1
1,3-Dichlorobenzene (meta)		<0.284	µg/L	1
p-Isopropyltoluene		<0.244	µg/L	1
4-Chlorotoluene		<0.257	µg/L	1
1,2-Dichlorobenzene (ortho)		<0.294	µg/L	1
n-Butylbenzene		<0.339	µg/L	1
1,2-Dibromo-3-chloropropane		<0.780	µg/L	5
1,2,3-Trichlorobenzene		<0.736	µg/L	5
1,2,4-Trichlorobenzene		<0.432	µg/L	5
Naphthalene		<0.475	µg/L	5
Hexachlorobutadiene		<1.02	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.2	µg/L	1	50.0	98	89.8 - 111
Toluene-d8		50.5	µg/L	1	50.0	101	93.2 - 108
4-Bromofluorobenzene (4-BFB)		48.9	µg/L	1	50.0	98	88.4 - 103

Method Blank (1) QC Batch: 47137

QC Batch: 47137
Prep Batch: 40542

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-01

Analyzed By: DS
Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
Pyridine		<0.00188	mg/L	0.005
N-Nitrosodimethylamine		<0.00180	mg/L	0.005
2-Picoline		<0.00181	mg/L	0.005
Methyl methanesulfonate		<0.00220	mg/L	0.005
Ethyl methanesulfonate		<0.00260	mg/L	0.005
Phenol		<0.00231	mg/L	0.005
Aniline		<0.00200	mg/L	0.005
bis(2-chloroethyl)ether		<0.00180	mg/L	0.005
2-Chlorophenol		<0.00190	mg/L	0.005
1,3-Dichlorobenzene (meta)		<0.00181	mg/L	0.005
1,4-Dichlorobenzene (para)		<0.00179	mg/L	0.005
Benzyl alcohol		<0.00244	mg/L	0.005
1,2-Dichlorobenzene (ortho)		<0.00173	mg/L	0.005
2-Methylphenol		<0.00230	mg/L	0.005
bis(2-chloroisopropyl)ether		<0.00209	mg/L	0.005
4-Methylphenol / 3-Methylphenol		<0.00229	mg/L	0.005
N-Nitrosodi-n-propylamine		<0.00236	mg/L	0.005
Hexachloroethane		<0.00189	mg/L	0.005
Acetophenone		<0.00211	mg/L	0.005

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Nitrobenzene		<0.00192	mg/L	0.005
N-Nitrosopiperidine		<0.00208	mg/L	0.005
Isophorone		<0.00206	mg/L	0.005
2-Nitrophenol		<0.00189	mg/L	0.005
2,4-Dimethylphenol		<0.00209	mg/L	0.005
bis(2-chloroethoxy)methane		<0.00216	mg/L	0.005
2,4-Dichlorophenol		<0.00192	mg/L	0.005
1,2,4-Trichlorobenzene		<0.00176	mg/L	0.005
Benzoic acid		<0.00765	mg/L	0.005
Naphthalene		<0.00187	mg/L	0.005
a,a-Dimethylphenethylamine		<0.00146	mg/L	0.005
4-Chloroaniline		<0.00210	mg/L	0.005
2,6-Dichlorophenol		<0.00199	mg/L	0.01
Hexachlorobutadiene		<0.00186	mg/L	0.005
N-Nitroso-di-n-butylamine		<0.00214	mg/L	0.005
4-Chloro-3-methylphenol		<0.00182	mg/L	0.005
2-Methylnaphthalene		<0.00206	mg/L	0.005
1-Methylnaphthalene		<0.00205	mg/L	0.005
1,2,4,5-Tetrachlorobenzene		<0.00211	mg/L	0.005
Hexachlorocyclopentadiene		<0.00175	mg/L	0.005
2,4,6-Trichlorophenol		<0.00200	mg/L	0.01
2,4,5-Trichlorophenol		<0.00176	mg/L	0.005
2-Chloronaphthalene		<0.00200	mg/L	0.005
1-Chloronaphthalene		<0.00259	mg/L	0.005
2-Nitroaniline		<0.00167	mg/L	0.005
Dimethylphthalate		<0.00160	mg/L	0.005
Acenaphthylene		<0.00201	mg/L	0.005
2,6-Dinitrotoluene		<0.00158	mg/L	0.005
3-Nitroaniline		<0.00166	mg/L	0.005
Acenaphthene		<0.00191	mg/L	0.005
2,4-Dinitrophenol		<0.000621	mg/L	0.005
Dibenzofuran		<0.00185	mg/L	0.005
Pentachlorobenzene		<0.00189	mg/L	0.005
4-Nitrophenol		<0.00156	mg/L	0.025
2,4-Dinitrotoluene		<0.00187	mg/L	0.005
1-Naphthylamine		<0.00149	mg/L	0.005
2,3,4,6-Tetrachlorophenol		<0.00162	mg/L	0.01
2-Naphthylamine		<0.00157	mg/L	0.005
Fluorene		<0.00182	mg/L	0.005
4-Chlorophenyl-phenylether		<0.00188	mg/L	0.005
Diethylphthalate		<0.00182	mg/L	0.005
4-Nitroaniline		<0.00182	mg/L	0.005
Diphenylhydrazine		<0.00184	mg/L	0.005
4,6-Dinitro-2-methylphenol		<0.00109	mg/L	0.005
Diphenylamine		<0.00193	mg/L	0.005
4-Bromophenyl-phenylether		<0.00179	mg/L	0.005
Phenacetin		<0.00190	mg/L	0.005
Hexachlorobenzene		<0.00193	mg/L	0.005
4-Aminobiphenyl		<0.00185	mg/L	0.005
Pentachlorophenol		<0.00130	mg/L	0.01

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Anthracene		<0.00190	mg/L	0.005
Pentachloronitrobenzene		<0.00187	mg/L	0.005
Pronamide		<0.00182	mg/L	0.005
Phenanthrene		<0.00186	mg/L	0.005
Di-n-butylphthalate		<0.00180	mg/L	0.005
Fluoranthene		<0.00184	mg/L	0.005
Benzidine		<0.00156	mg/L	0.025
Pyrene		<0.00165	mg/L	0.005
p-Dimethylaminoazobenzene		<0.00145	mg/L	0.005
Butylbenzylphthalate		<0.00165	mg/L	0.005
Benzo(a)anthracene		<0.00157	mg/L	0.005
3,3-Dichlorobenzidine		<0.00162	mg/L	0.005
Chrysene		<0.00162	mg/L	0.005
bis(2-ethylhexyl)phthalate		<0.00171	mg/L	0.005
Di-n-octylphthalate		<0.00136	mg/L	0.005
Benzo(b)fluoranthene		<0.00160	mg/L	0.005
Benzo(k)fluoranthene		<0.00179	mg/L	0.005
7,12-Dimethylbenz(a)anthracene		<0.00152	mg/L	0.005
Benzo(a)pyrene		<0.00161	mg/L	0.005
3-Methylcholanthrene		<0.00147	mg/L	0.005
Dibenzo(a,j)acridine		<0.00154	mg/L	0.005
Indeno(1,2,3-cd)pyrene		<0.00160	mg/L	0.005
Dibenzo(a,h)anthracene		<0.00180	mg/L	0.005
Benzo(g,h,i)perylene		<0.00166	mg/L	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.0187	mg/L	1	0.0800	23	10 - 66.9
Phenol-d5		0.0125	mg/L	1	0.0800	16	10 - 50.7
Nitrobenzene-d5		0.0529	mg/L	1	0.0800	66	10 - 124
2-Fluorobiphenyl		0.0548	mg/L	1	0.0800	68	10 - 127
2,4,6-Tribromophenol		0.0445	mg/L	1	0.0800	56	10 - 138
Terphenyl-d14		0.0688	mg/L	1	0.0800	86	10 - 143

Laboratory Control Spike (LCS-1)

QC Batch: 47115
Prep Batch: 40517

Date Analyzed: 2008-04-03
QC Preparation: 2008-04-03

Analyzed By: KB
Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	51.1	µg/L	1	50.0	<0.197	102	91.8 - 112
Dichlorodifluoromethane	52.4	µg/L	1	50.0	<0.672	105	40.7 - 133
Chloromethane (methyl chloride)	49.3	µg/L	1	50.0	<0.542	99	61.4 - 130
Vinyl Chloride	52.5	µg/L	1	50.0	<0.516	105	65.4 - 127
Bromomethane (methyl bromide)	51.5	µg/L	1	50.0	<0.446	103	61 - 140
Chloroethane	51.7	µg/L	1	50.0	<0.656	103	72.1 - 121
Trichlorofluoromethane	53.2	µg/L	1	50.0	<0.538	106	77.1 - 116

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Acetone	56.5	µg/L	1	50.0	<1.10	113	10 - 169
Iodomethane (methyl iodide)	51.9	µg/L	1	50.0	<0.214	104	84.4 - 118
Carbon Disulfide	52.3	µg/L	1	50.0	<0.294	105	84.7 - 116
Acrylonitrile	48.5	µg/L	1	50.0	<0.442	97	88.5 - 119
2-Butanone (MEK)	56.9	µg/L	1	50.0	<0.420	114	38.2 - 134
4-Methyl-2-pentanone (MIBK)	52.7	µg/L	1	50.0	<0.407	105	90.4 - 114
2-Hexanone	59.9	µg/L	1	50.0	<0.486	120	47 - 145
trans 1,4-Dichloro-2-butene	51.8	µg/L	1	50.0	<0.463	104	75.5 - 133
1,1-Dichloroethene	51.9	µg/L	1	50.0	<0.237	104	86.8 - 110
Methylene chloride	49.5	µg/L	1	50.0	<0.312	99	84.4 - 114
MTBE	49.1	µg/L	1	50.0	<0.318	98	88.3 - 115
trans-1,2-Dichloroethene	50.3	µg/L	1	50.0	<0.217	101	89.1 - 109
1,1-Dichloroethane	51.2	µg/L	1	50.0	<0.202	102	85 - 114
cis-1,2-Dichloroethene	50.5	µg/L	1	50.0	<0.309	101	91.2 - 109
2,2-Dichloropropane	44.1	µg/L	1	50.0	<0.318	88	63.4 - 132
1,2-Dichloroethane (EDC)	49.9	µg/L	1	50.0	<0.292	100	82.2 - 113
Chloroform	50.0	µg/L	1	50.0	<0.234	100	86.5 - 111
1,1,1-Trichloroethane	49.1	µg/L	1	50.0	<0.257	98	89.7 - 109
1,1-Dichloropropene	49.5	µg/L	1	50.0	<0.286	99	89.7 - 110
Benzene	49.7	µg/L	1	50.0	<0.319	99	87.6 - 107
Carbon Tetrachloride	49.1	µg/L	1	50.0	<0.223	98	92.1 - 111
1,2-Dichloropropane	50.5	µg/L	1	50.0	<0.266	101	91.8 - 111
Trichloroethene (TCE)	51.6	µg/L	1	50.0	<0.235	103	85.4 - 113
Dibromomethane (methylene bromide)	50.2	µg/L	1	50.0	<0.341	100	93.2 - 108
Bromodichloromethane	50.8	µg/L	1	50.0	<0.291	102	93.6 - 113
2-Chloroethyl vinyl ether	51.9	µg/L	1	50.0	<0.293	104	91.8 - 111
cis-1,3-Dichloropropene	51.0	µg/L	1	50.0	<0.207	102	94.6 - 117
trans-1,3-Dichloropropene	51.7	µg/L	1	50.0	<0.293	103	90.2 - 119
Toluene	49.9	µg/L	1	50.0	<0.268	100	91.3 - 110
1,1,2-Trichloroethane	50.9	µg/L	1	50.0	<0.329	102	94.3 - 106
1,3-Dichloropropane	50.6	µg/L	1	50.0	<0.316	101	92.2 - 108
Dibromochloromethane	53.2	µg/L	1	50.0	<0.290	106	92.1 - 122
1,2-Dibromoethane (EDB)	52.5	µg/L	1	50.0	<0.229	105	98.2 - 106
Tetrachloroethene (PCE)	57.8	µg/L	1	50.0	<0.233	116	20.2 - 156
Chlorobenzene	51.0	µg/L	1	50.0	<0.276	102	92.9 - 103
1,1,1,2-Tetrachloroethane	50.9	µg/L	1	50.0	<0.226	102	99.3 - 105
Ethylbenzene	49.8	µg/L	1	50.0	<0.245	100	90.5 - 107
m,p-Xylene	99.0	µg/L	1	100	<0.517	99	89.5 - 111
Bromoform	55.2	µg/L	1	50.0	<0.175	110	84.2 - 144
Styrene	49.2	µg/L	1	50.0	<0.239	98	94.3 - 113
o-Xylene	49.9	µg/L	1	50.0	<0.247	100	91.2 - 112
1,1,2,2-Tetrachloroethane	51.2	µg/L	1	50.0	<0.223	102	74.9 - 133
2-Chlorotoluene	48.9	µg/L	1	50.0	<0.235	98	87.4 - 110
1,2,3-Trichloropropane	51.9	µg/L	1	50.0	<0.230	104	86.6 - 114
Isopropylbenzene	50.1	µg/L	1	50.0	<0.226	100	87.6 - 115
Bromobenzene	49.6	µg/L	1	50.0	<0.245	99	91.3 - 105
n-Propylbenzene	49.2	µg/L	1	50.0	<0.234	98	84.4 - 113
1,3,5-Trimethylbenzene	49.3	µg/L	1	50.0	<0.261	99	89.3 - 109
tert-Butylbenzene	50.0	µg/L	1	50.0	<0.281	100	93.2 - 106
1,2,4-Trimethylbenzene	49.7	µg/L	1	50.0	<0.285	99	89.6 - 115

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,4-Dichlorobenzene (para)	51.4	µg/L	1	50.0	<0.307	103	88.4 - 106
sec-Butylbenzene	50.1	µg/L	1	50.0	<0.312	100	87.2 - 113
1,3-Dichlorobenzene (meta)	51.4	µg/L	1	50.0	<0.284	103	91.1 - 109
p-Isopropyltoluene	50.8	µg/L	1	50.0	<0.244	102	92.2 - 109
4-Chlorotoluene	49.7	µg/L	1	50.0	<0.257	99	89 - 110
1,2-Dichlorobenzene (ortho)	52.4	µg/L	1	50.0	<0.294	105	91.3 - 110
n-Butylbenzene	52.6	µg/L	1	50.0	<0.339	105	86.8 - 113
1,2-Dibromo-3-chloropropane	49.2	µg/L	1	50.0	<0.780	98	72.3 - 130
1,2,3-Trichlorobenzene	52.8	µg/L	1	50.0	<0.736	106	81.2 - 202
1,2,4-Trichlorobenzene	51.8	µg/L	1	50.0	<0.432	104	65 - 145
Naphthalene	51.9	µg/L	1	50.0	<0.475	104	84.5 - 150
Hexachlorobutadiene	52.1	µg/L	1	50.0	<1.02	104	70.2 - 133

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
Bromochloromethane	50.7	µg/L	1	50.0	<0.197	101	91.8 - 112	1	20
Dichlorodifluoromethane	51.0	µg/L	1	50.0	<0.672	102	40.7 - 133	3	20
Chloromethane (methyl chloride)	49.0	µg/L	1	50.0	<0.542	98	61.4 - 130	1	20
Vinyl Chloride	51.0	µg/L	1	50.0	<0.516	102	65.4 - 127	3	20
Bromomethane (methyl bromide)	49.8	µg/L	1	50.0	<0.446	100	61 - 140	3	20
Chloroethane	51.0	µg/L	1	50.0	<0.656	102	72.1 - 121	1	20
Trichlorofluoromethane	51.4	µg/L	1	50.0	<0.538	103	77.1 - 116	3	20
Acetone	55.1	µg/L	1	50.0	<1.10	110	10 - 169	2	20
Iodomethane (methyl iodide)	51.7	µg/L	1	50.0	<0.214	103	84.4 - 118	0	20
Carbon Disulfide	51.9	µg/L	1	50.0	<0.294	104	84.7 - 116	1	20
Acrylonitrile	49.1	µg/L	1	50.0	<0.442	98	88.5 - 119	1	20
2-Butanone (MEK)	54.9	µg/L	1	50.0	<0.420	110	38.2 - 134	4	20
4-Methyl-2-pentanone (MIBK)	52.0	µg/L	1	50.0	<0.407	104	90.4 - 114	1	20
2-Hexanone	59.9	µg/L	1	50.0	<0.486	120	47 - 145	0	20
trans 1,4-Dichloro-2-butene	51.3	µg/L	1	50.0	<0.463	103	75.5 - 133	1	20
1,1-Dichloroethene	51.2	µg/L	1	50.0	<0.237	102	86.8 - 110	1	20
Methylene chloride	49.6	µg/L	1	50.0	<0.312	99	84.4 - 114	0	20
MTBE	49.7	µg/L	1	50.0	<0.318	99	88.3 - 115	1	20
trans-1,2-Dichloroethene	49.8	µg/L	1	50.0	<0.217	100	89.1 - 109	1	20
1,1-Dichloroethane	51.1	µg/L	1	50.0	<0.202	102	85 - 114	0	20
cis-1,2-Dichloroethene	50.4	µg/L	1	50.0	<0.309	101	91.2 - 109	0	20
2,2-Dichloropropane	44.4	µg/L	1	50.0	<0.318	89	63.4 - 132	1	20
1,2-Dichloroethane (EDC)	49.7	µg/L	1	50.0	<0.292	99	82.2 - 113	0	20
Chloroform	50.1	µg/L	1	50.0	<0.234	100	86.5 - 111	0	20
1,1,1-Trichloroethane	49.7	µg/L	1	50.0	<0.257	99	89.7 - 109	1	20
1,1-Dichloropropene	50.7	µg/L	1	50.0	<0.286	101	89.7 - 110	2	20
Benzene	50.6	µg/L	1	50.0	<0.319	101	87.6 - 107	2	20
Carbon Tetrachloride	50.2	µg/L	1	50.0	<0.223	100	92.1 - 111	2	20
1,2-Dichloropropane	51.4	µg/L	1	50.0	<0.266	103	91.8 - 111	2	20
Trichloroethene (TCE)	54.1	µg/L	1	50.0	<0.235	108	85.4 - 113	5	20
Dibromomethane (methylene bromide)	51.0	µg/L	1	50.0	<0.341	102	93.2 - 108	2	20
Bromodichloromethane	51.3	µg/L	1	50.0	<0.291	103	93.6 - 113	1	20
2-Chloroethyl vinyl ether	54.2	µg/L	1	50.0	<0.293	108	91.8 - 111	4	20
cis-1,3-Dichloropropene	51.8	µg/L	1	50.0	<0.207	104	94.6 - 117	2	20

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
trans-1,3-Dichloropropene	52.6	µg/L	1	50.0	<0.293	105	90.2 - 119	2	20
Toluene	50.5	µg/L	1	50.0	<0.268	101	91.3 - 110	1	20
1,1,2-Trichloroethane	50.8	µg/L	1	50.0	<0.329	102	94.3 - 106	0	20
1,3-Dichloropropane	50.1	µg/L	1	50.0	<0.316	100	92.2 - 108	1	20
Dibromochloromethane	52.7	µg/L	1	50.0	<0.290	105	92.1 - 122	1	20
1,2-Dibromoethane (EDB)	52.1	µg/L	1	50.0	<0.229	104	98.2 - 106	1	20
Tetrachloroethene (PCE)	61.9	µg/L	1	50.0	<0.233	124	20.2 - 156	7	20
Chlorobenzene	50.8	µg/L	1	50.0	<0.276	102	92.9 - 103	0	20
1,1,1,2-Tetrachloroethane	51.0	µg/L	1	50.0	<0.226	102	99.3 - 105	0	20
Ethylbenzene	49.5	µg/L	1	50.0	<0.245	99	90.5 - 107	1	20
m,p-Xylene	99.0	µg/L	1	100	<0.517	99	89.5 - 111	0	20
Bromoform	55.2	µg/L	1	50.0	<0.175	110	84.2 - 144	0	20
Styrene	49.3	µg/L	1	50.0	<0.239	99	94.3 - 113	0	20
o-Xylene	49.8	µg/L	1	50.0	<0.247	100	91.2 - 112	0	20
1,1,2,2-Tetrachloroethane	48.5	µg/L	1	50.0	<0.223	97	74.9 - 133	5	20
2-Chlorotoluene	48.6	µg/L	1	50.0	<0.235	97	87.4 - 110	1	20
1,2,3-Trichloropropane	51.7	µg/L	1	50.0	<0.230	103	86.6 - 114	0	20
Isopropylbenzene	49.4	µg/L	1	50.0	<0.226	99	87.6 - 115	1	20
Bromobenzene	49.1	µg/L	1	50.0	<0.245	98	91.3 - 105	1	20
n-Propylbenzene	48.9	µg/L	1	50.0	<0.234	98	84.4 - 113	1	20
1,3,5-Trimethylbenzene	48.8	µg/L	1	50.0	<0.261	98	89.3 - 109	1	20
tert-Butylbenzene	49.8	µg/L	1	50.0	<0.281	100	93.2 - 106	0	20
1,2,4-Trimethylbenzene	49.4	µg/L	1	50.0	<0.285	99	89.6 - 115	1	20
1,4-Dichlorobenzene (para)	51.1	µg/L	1	50.0	<0.307	102	88.4 - 106	1	20
sec-Butylbenzene	49.8	µg/L	1	50.0	<0.312	100	87.2 - 113	1	20
1,3-Dichlorobenzene (meta)	51.2	µg/L	1	50.0	<0.284	102	91.1 - 109	0	20
p-Isopropyltoluene	50.4	µg/L	1	50.0	<0.244	101	92.2 - 109	1	20
4-Chlorotoluene	49.7	µg/L	1	50.0	<0.257	99	89 - 110	0	20
1,2-Dichlorobenzene (ortho)	52.0	µg/L	1	50.0	<0.294	104	91.3 - 110	1	20
n-Butylbenzene	52.3	µg/L	1	50.0	<0.339	105	86.8 - 113	1	20
1,2-Dibromo-3-chloropropane	49.4	µg/L	1	50.0	<0.780	99	72.3 - 130	0	20
1,2,3-Trichlorobenzene	51.2	µg/L	1	50.0	<0.736	102	81.2 - 202	3	20
1,2,4-Trichlorobenzene	50.3	µg/L	1	50.0	<0.432	101	65 - 145	3	20
Naphthalene	50.6	µg/L	1	50.0	<0.475	101	84.5 - 150	2	20
Hexachlorobutadiene	51.4	µg/L	1	50.0	<1.02	103	70.2 - 133	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
Dibromofluoromethane	50.0	50.3	µg/L	1	50.0	100	101	89.5 - 107
Toluene-d8	49.6	50.0	µg/L	1	50.0	99	100	92.6 - 102
4-Bromofluorobenzene (4-BFB)	50.0	50.6	µg/L	1	50.0	100	101	95.2 - 103

Laboratory Control Spike (LCS-1)

QC Batch: 47137
Prep Batch: 40542

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-01

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Phenol	0.0177	mg/L	1	0.0800	0	22	10 - 46.1
2-Chlorophenol	0.0528	mg/L	1	0.0800	0	66	10 - 123
1,4-Dichlorobenzene (para)	0.0516	mg/L	1	0.0800	0	64	10 - 118
N-Nitrosodi-n-propylamine	0.0901	mg/L	1	0.0800	0	113	10 - 132
1,2,4-Trichlorobenzene	0.0709	mg/L	1	0.0800	0	89	10 - 130
Naphthalene	0.0596	mg/L	1	0.0800	0	74	20.3 - 121
4-Chloro-3-methylphenol	0.0645	mg/L	1	0.0800	0	81	10 - 140
Acenaphthylene	0.0700	mg/L	1	0.0800	0	88	22.3 - 124
Acenaphthene	0.0653	mg/L	1	0.0800	0	82	18.8 - 134
Dibenzofuran	0.0671	mg/L	1	0.0800	0	84	37.5 - 102
4-Nitrophenol	0.00807	mg/L	1	0.0800	0	10	10 - 135
2,4-Dinitrotoluene	0.0618	mg/L	1	0.0800	0	77	13.6 - 152
Fluorene	0.0602	mg/L	1	0.0800	0	75	29.7 - 114
Pentachlorophenol	0.0529	mg/L	1	0.0800	0	66	10 - 144
Anthracene	0.0720	mg/L	1	0.0800	0	90	48.2 - 118
Phenanthrene	0.0698	mg/L	1	0.0800	0	87	45.5 - 121
Fluoranthene	0.0929	mg/L	1	0.0800	0	116	42.7 - 126
Pyrene	0.0673	mg/L	1	0.0800	0	84	26.8 - 155
Benzo(a)anthracene	0.0666	mg/L	1	0.0800	0	83	60.2 - 97.3
Chrysene	0.0654	mg/L	1	0.0800	0	82	56 - 92.4
Benzo(b)fluoranthene	0.0677	mg/L	1	0.0800	0	85	73.9 - 102
Benzo(k)fluoranthene	0.0722	mg/L	1	0.0800	0	90	45.6 - 143
Benzo(a)pyrene	0.0774	mg/L	1	0.0800	0	97	54.8 - 122
Indeno(1,2,3-cd)pyrene	0.0899	mg/L	1	0.0800	0	112	61.4 - 118
Dibenzo(a,h)anthracene	0.0876	mg/L	1	0.0800	0	110	64.9 - 118
Benzo(g,h,i)perylene	0.0861	mg/L	1	0.0800	0	108	46.8 - 129

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
Phenol	0.0183	mg/L	1	0.0800	0	23	10 - 46.1	3	20
2-Chlorophenol	0.0522	mg/L	1	0.0800	0	65	10 - 123	1	20
1,4-Dichlorobenzene (para)	0.0508	mg/L	1	0.0800	0	64	10 - 118	2	20
N-Nitrosodi-n-propylamine	0.0892	mg/L	1	0.0800	0	112	10 - 132	1	20
1,2,4-Trichlorobenzene	0.0714	mg/L	1	0.0800	0	89	10 - 130	1	20
Naphthalene	0.0599	mg/L	1	0.0800	0	75	20.3 - 121	0	20
4-Chloro-3-methylphenol	0.0649	mg/L	1	0.0800	0	81	10 - 140	1	20
Acenaphthylene	0.0710	mg/L	1	0.0800	0	89	22.3 - 124	1	20
Acenaphthene	0.0667	mg/L	1	0.0800	0	83	18.8 - 134	2	20
Dibenzofuran	0.0674	mg/L	1	0.0800	0	84	37.5 - 102	0	20
4-Nitrophenol	0.00827	mg/L	1	0.0800	0	10	10 - 135	2	20
2,4-Dinitrotoluene	0.0623	mg/L	1	0.0800	0	78	13.6 - 152	1	20
Fluorene	0.0602	mg/L	1	0.0800	0	75	29.7 - 114	0	20
Pentachlorophenol	0.0539	mg/L	1	0.0800	0	67	10 - 144	2	20
Anthracene	0.0728	mg/L	1	0.0800	0	91	48.2 - 118	1	20
Phenanthrene	0.0712	mg/L	1	0.0800	0	89	45.5 - 121	2	20
Fluoranthene	0.0955	mg/L	1	0.0800	0	119	42.7 - 126	3	20
Pyrene	0.0671	mg/L	1	0.0800	0	84	26.8 - 155	0	20
Benzo(a)anthracene	0.0665	mg/L	1	0.0800	0	83	60.2 - 97.3	0	20
Chrysene	0.0651	mg/L	1	0.0800	0	81	56 - 92.4	0	20
Benzo(b)fluoranthene	0.0682	mg/L	1	0.0800	0	85	73.9 - 102	1	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzo(k)fluoranthene	0.0730	mg/L	1	0.0800	0	91	45.6 - 143	1	20
Benzo(a)pyrene	0.0780	mg/L	1	0.0800	0	98	54.8 - 122	1	20
Indeno(1,2,3-cd)pyrene	0.0919	mg/L	1	0.0800	0	115	61.4 - 118	2	20
Dibenzo(a,h)anthracene	0.0895	mg/L	1	0.0800	0	112	64.9 - 118	2	20
Benzo(g,h,i)perylene	0.0880	mg/L	1	0.0800	0	110	46.8 - 129	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
2-Fluorophenol	0.0248	0.0241	mg/L	1	0.0800	31	30	10 - 109
Phenol-d5	0.0198	0.0196	mg/L	1	0.0800	25	24	10 - 61.5
Nitrobenzene-d5	0.0772	0.0780	mg/L	1	0.0800	96	98	10 - 139
2-Fluorobiphenyl	0.0945	0.0960	mg/L	1	0.0800	118	120	10 - 139
2,4,6-Tribromophenol	0.0865	0.0857	mg/L	1	0.0800	108	107	10 - 161
Terphenyl-d14	0.0777	0.0778	mg/L	1	0.0800	97	97	10 - 144

Matrix Spike (MS-1) Spiked Sample: 155082

QC Batch: 47115
Prep Batch: 40517Date Analyzed: 2008-04-03
QC Preparation: 2008-04-03Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	50.0	µg/L	1	50.0	<0.197	100	82.3 - 118
Dichlorodifluoromethane	41.7	µg/L	1	50.0	<0.672	83	24.2 - 131
Chloromethane (methyl chloride)	44.1	µg/L	1	50.0	<0.542	88	69.6 - 118
Vinyl Chloride	43.9	µg/L	1	50.0	<0.516	88	80.8 - 107
Bromomethane (methyl bromide)	45.2	µg/L	1	50.0	<0.446	90	74.8 - 126
Chloroethane	45.5	µg/L	1	50.0	<0.656	91	74.6 - 124
Trichlorofluoromethane	44.7	µg/L	1	50.0	<0.538	89	66.8 - 115
Acetone	1 64.5	µg/L	1	50.0	<1.10	129	15 - 80.4
Iodomethane (methyl iodide)	48.1	µg/L	1	50.0	<0.214	96	75.2 - 114
Carbon Disulfide	42.8	µg/L	1	50.0	<0.294	86	69 - 121
Acrylonitrile	48.1	µg/L	1	50.0	<0.442	96	69.6 - 135
2-Butanone (MEK)	2 70.1	µg/L	1	50.0	<0.420	140	28.1 - 108
4-Methyl-2-pentanone (MIBK)	3 79.1	µg/L	1	50.0	<0.407	158	81.5 - 117
2-Hexanone	4 108	µg/L	1	50.0	<0.486	216	44.6 - 122
trans 1,4-Dichloro-2-butene	50.9	µg/L	1	50.0	<0.463	102	48.3 - 128
1,1-Dichloroethene	45.0	µg/L	1	50.0	1.01	88	74.7 - 112
Methylene chloride	46.5	µg/L	1	50.0	<0.312	93	74.8 - 120
MTBE	48.2	µg/L	1	50.0	<0.318	96	73.5 - 125
trans-1,2-Dichloroethene	44.1	µg/L	1	50.0	<0.217	88	81.3 - 115
1,1-Dichloroethane	46.3	µg/L	1	50.0	0.37	92	76.8 - 122
cis-1,2-Dichloroethene	46.3	µg/L	1	50.0	<0.309	93	81 - 116
2,2-Dichloropropane	26.8	µg/L	1	50.0	<0.318	54	21.1 - 110

continued ...

¹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.³Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.⁴Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	
1,2-Dichloroethane (EDC)	49.1	µg/L	1	50.0	<0.292	98	73.6 - 125	
Chloroform	47.0	µg/L	1	50.0	0.82	92	74 - 122	
1,1,1-Trichloroethane	44.7	µg/L	1	50.0	<0.257	89	73.4 - 119	
1,1-Dichloropropene	41.7	µg/L	1	50.0	<0.286	83	73.8 - 119	
Benzene	43.9	µg/L	1	50.0	<0.319	88	80.2 - 114	
Carbon Tetrachloride	44.2	µg/L	1	50.0	<0.223	88	83.6 - 111	
1,2-Dichloropropane	45.4	µg/L	1	50.0	<0.266	91	79.4 - 121	
Trichloroethene (TCE)	46.0	µg/L	1	50.0	2.04	88	78.8 - 106	
Dibromomethane (methylene bromide)	50.0	µg/L	1	50.0	<0.341	100	88 - 114	
Bromodichloromethane	47.7	µg/L	1	50.0	<0.291	95	80.3 - 121	
2-Chloroethyl vinyl ether	5	<0.293	µg/L	1	50.0	<0.293	0	79.4 - 121
cis-1,3-Dichloropropene	44.5	µg/L	1	50.0	<0.207	89	74.3 - 118	
trans-1,3-Dichloropropene	46.4	µg/L	1	50.0	<0.293	93	69.2 - 121	
Toluene	6	43.1	µg/L	1	50.0	<0.268	86	87.5 - 112
1,1,2-Trichloroethane	50.2	µg/L	1	50.0	<0.329	100	89.1 - 110	
1,3-Dichloropropane	50.9	µg/L	1	50.0	<0.316	102	88.1 - 113	
Dibromochloromethane	52.9	µg/L	1	50.0	<0.290	106	84 - 121	
1,2-Dibromoethane (EDB)	53.9	µg/L	1	50.0	<0.229	108	89.1 - 111	
Tetrachloroethene (PCE)	31.1	µg/L	1	50.0	<0.233	62	42.9 - 72.6	
Chlorobenzene	46.2	µg/L	1	50.0	<0.276	92	75.2 - 114	
1,1,1,2-Tetrachloroethane	49.1	µg/L	1	50.0	<0.226	98	87.7 - 113	
Ethylbenzene	42.8	µg/L	1	50.0	<0.245	86	74.6 - 118	
m,p-Xylene	86.6	µg/L	1	100	<0.517	87	72.9 - 120	
Bromoform	58.5	µg/L	1	50.0	<0.175	117	79.2 - 135	
Styrene	36.7	µg/L	1	50.0	<0.239	73	41.7 - 137	
o-Xylene	44.7	µg/L	1	50.0	<0.247	89	74.1 - 123	
1,1,2,2-Tetrachloroethane	57.6	µg/L	1	50.0	<0.223	115	80.7 - 131	
2-Chlorotoluene	42.6	µg/L	1	50.0	<0.235	85	71.6 - 117	
1,2,3-Trichloropropane	53.8	µg/L	1	50.0	<0.230	108	78.4 - 109	
Isopropylbenzene	42.4	µg/L	1	50.0	<0.226	85	72.4 - 118	
Bromobenzene	45.8	µg/L	1	50.0	<0.245	92	72.7 - 115	
n-Propylbenzene	40.9	µg/L	1	50.0	<0.234	82	69.1 - 117	
1,3,5-Trimethylbenzene	41.9	µg/L	1	50.0	<0.261	84	70.6 - 116	
tert-Butylbenzene	41.6	µg/L	1	50.0	<0.281	83	77.1 - 113	
1,2,4-Trimethylbenzene	42.2	µg/L	1	50.0	<0.285	84	76.5 - 118	
1,4-Dichlorobenzene (para)	45.8	µg/L	1	50.0	<0.307	92	80.6 - 106	
sec-Butylbenzene	40.3	µg/L	1	50.0	<0.312	81	74 - 113	
1,3-Dichlorobenzene (meta)	45.6	µg/L	1	50.0	<0.284	91	81.4 - 109	
p-Isopropyltoluene	41.1	µg/L	1	50.0	<0.244	82	74.6 - 114	
4-Chlorotoluene	43.4	µg/L	1	50.0	<0.257	87	71.3 - 117	
1,2-Dichlorobenzene (ortho)	47.5	µg/L	1	50.0	<0.294	95	87 - 104	
n-Butylbenzene	40.3	µg/L	1	50.0	<0.339	81	65.7 - 115	
1,2-Dibromo-3-chloropropane	55.2	µg/L	1	50.0	<0.780	110	45.5 - 132	
1,2,3-Trichlorobenzene	44.9	µg/L	1	50.0	<0.736	90	10 - 200	
1,2,4-Trichlorobenzene	42.5	µg/L	1	50.0	<0.432	85	26.5 - 139	
Naphthalene	52.8	µg/L	1	50.0	<0.475	106	10 - 203	
Hexachlorobutadiene	39.1	µg/L	1	50.0	<1.02	78	50.9 - 108	

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

⁵Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.⁶Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Bromochloromethane	51.2	µg/L	1	50.0	<0.197	102	82.3 - 118	2	20
Dichlorodifluoromethane	47.4	µg/L	1	50.0	<0.672	95	24.2 - 131	13	20
Chloromethane (methyl chloride)	44.9	µg/L	1	50.0	<0.542	90	69.6 - 118	2	20
Vinyl Chloride	45.9	µg/L	1	50.0	<0.516	92	80.8 - 107	4	20
Bromomethane (methyl bromide)	45.0	µg/L	1	50.0	<0.446	90	74.8 - 126	0	20
Chloroethane	46.9	µg/L	1	50.0	<0.656	94	74.6 - 124	3	20
Trichlorofluoromethane	49.5	µg/L	1	50.0	<0.538	99	66.8 - 115	10	20
Acetone	70.6	µg/L	1	50.0	<1.10	141	15 - 80.4	9	20
Iodomethane (methyl iodide)	50.6	µg/L	1	50.0	<0.214	101	75.2 - 114	5	20
Carbon Disulfide	48.0	µg/L	1	50.0	<0.294	96	69 - 121	11	20
Acrylonitrile	52.5	µg/L	1	50.0	<0.442	105	69.6 - 135	9	20
2-Butanone (MEK)	75.4	µg/L	1	50.0	<0.420	151	28.1 - 108	7	20
4-Methyl-2-pentanone (MIBK)	83.7	µg/L	1	50.0	<0.407	167	81.5 - 117	6	20
2-Hexanone	113	µg/L	1	50.0	<0.486	226	44.6 - 122	4	20
trans 1,4-Dichloro-2-butene	53.8	µg/L	1	50.0	<0.463	108	48.3 - 128	6	20
1,1-Dichloroethene	51.0	µg/L	1	50.0	1.01	100	74.7 - 112	12	20
Methylene chloride	48.0	µg/L	1	50.0	<0.312	96	74.8 - 120	3	20
MTBE	52.6	µg/L	1	50.0	<0.318	105	73.5 - 125	9	20
trans-1,2-Dichloroethene	48.2	µg/L	1	50.0	<0.217	96	81.3 - 115	9	20
1,1-Dichloroethane	49.6	µg/L	1	50.0	0.37	98	76.8 - 122	7	20
cis-1,2-Dichloroethene	48.9	µg/L	1	50.0	<0.309	98	81 - 116	6	20
2,2-Dichloropropane	29.0	µg/L	1	50.0	<0.318	58	21.1 - 110	8	20
1,2-Dichloroethane (EDC)	49.4	µg/L	1	50.0	<0.292	99	73.6 - 125	1	20
Chloroform	49.3	µg/L	1	50.0	0.82	97	74 - 122	5	20
1,1,1-Trichloroethane	49.0	µg/L	1	50.0	<0.257	98	73.4 - 119	9	20
1,1-Dichloropropene	48.1	µg/L	1	50.0	<0.286	96	73.8 - 119	14	20
Benzene	47.9	µg/L	1	50.0	<0.319	96	80.2 - 114	9	20
Carbon Tetrachloride	49.7	µg/L	1	50.0	<0.223	99	83.6 - 111	12	20
1,2-Dichloropropane	48.2	µg/L	1	50.0	<0.266	96	79.4 - 121	6	20
Trichloroethene (TCE)	51.7	µg/L	1	50.0	2.04	99	78.8 - 106	12	20
Dibromomethane (methylene bromide)	52.0	µg/L	1	50.0	<0.341	104	88 - 114	4	20
Bromodichloromethane	50.7	µg/L	1	50.0	<0.291	101	80.3 - 121	6	20
2-Chloroethyl vinyl ether	<0.293	µg/L	1	50.0	<0.293	0	79.4 - 121	0	20
cis-1,3-Dichloropropene	47.0	µg/L	1	50.0	<0.207	94	74.3 - 118	6	20
trans-1,3-Dichloropropene	49.2	µg/L	1	50.0	<0.293	98	69.2 - 121	6	20
Toluene	48.6	µg/L	1	50.0	<0.268	97	87.5 - 112	12	20
1,1,2-Trichloroethane	51.4	µg/L	1	50.0	<0.329	103	89.1 - 110	2	20
1,3-Dichloropropane	52.3	µg/L	1	50.0	<0.316	105	88.1 - 113	3	20
Dibromochloromethane	54.8	µg/L	1	50.0	<0.290	110	84 - 121	4	20
1,2-Dibromoethane (EDB)	55.3	µg/L	1	50.0	<0.229	111	89.1 - 111	3	20
Tetrachloroethene (PCE)	34.8	µg/L	1	50.0	<0.233	70	42.9 - 72.6	11	20
Chlorobenzene	50.2	µg/L	1	50.0	<0.276	100	75.2 - 114	8	20

continued ...

⁷Matrix spike recovery out of control limits due to matrix interference. RPD within RPD limits. Use LCS/LCSD to demonstrate analysis is under control.

⁸Matrix spike recovery out of control limits due to matrix interference. RPD within RPD limits. Use LCS/LCSD to demonstrate analysis is under control. •

⁹Matrix spike recovery out of control limits due to matrix interference. RPD within RPD limits. Use LCS/LCSD to demonstrate analysis is under control. •

¹⁰Matrix spike recovery out of control limits due to matrix interference. RPD within RPD limits. Use LCS/LCSD to demonstrate analysis is under control. •

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

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	51.7	µg/L	1	50.0	<0.226	103	87.7 - 113	5	20
Ethylbenzene	47.7	µg/L	1	50.0	<0.245	95	74.6 - 118	11	20
m,p-Xylene	96.0	µg/L	1	100	<0.517	96	72.9 - 120	10	20
Bromoform	61.1	µg/L	1	50.0	<0.175	122	79.2 - 135	4	20
Styrene	39.9	µg/L	1	50.0	<0.239	80	41.7 - 137	8	20
o-Xylene	48.8	µg/L	1	50.0	<0.247	98	74.1 - 123	9	20
1,1,2,2-Tetrachloroethane	60.6	µg/L	1	50.0	<0.223	121	80.7 - 131	5	20
2-Chlorotoluene	46.6	µg/L	1	50.0	<0.235	93	71.6 - 117	9	20
1,2,3-Trichloropropane	56.6	µg/L	1	50.0	<0.230	113	78.4 - 109	5	20
Isopropylbenzene	47.5	µg/L	1	50.0	<0.226	95	72.4 - 118	11	20
Bromobenzene	49.1	µg/L	1	50.0	<0.245	98	72.7 - 115	7	20
n-Propylbenzene	46.0	µg/L	1	50.0	<0.234	92	69.1 - 117	12	20
1,3,5-Trimethylbenzene	46.3	µg/L	1	50.0	<0.261	93	70.6 - 116	10	20
tert-Butylbenzene	46.8	µg/L	1	50.0	<0.281	94	77.1 - 113	12	20
1,2,4-Trimethylbenzene	46.3	µg/L	1	50.0	<0.285	93	76.5 - 118	9	20
1,4-Dichlorobenzene (para)	50.1	µg/L	1	50.0	<0.307	100	80.6 - 106	9	20
sec-Butylbenzene	45.5	µg/L	1	50.0	<0.312	91	74 - 113	12	20
1,3-Dichlorobenzene (meta)	49.7	µg/L	1	50.0	<0.284	99	81.4 - 109	9	20
p-Isopropyltoluene	46.1	µg/L	1	50.0	<0.244	92	74.6 - 114	12	20
4-Chlorotoluene	47.3	µg/L	1	50.0	<0.257	95	71.3 - 117	9	20
1,2-Dichlorobenzene (ortho)	51.3	µg/L	1	50.0	<0.294	103	87 - 104	8	20
n-Butylbenzene	45.8	µg/L	1	50.0	<0.339	92	65.7 - 115	13	20
1,2-Dibromo-3-chloropropane	60.7	µg/L	1	50.0	<0.780	121	45.5 - 132	10	20
1,2,3-Trichlorobenzene	52.6	µg/L	1	50.0	<0.736	105	10 - 200	16	20
1,2,4-Trichlorobenzene	48.5	µg/L	1	50.0	<0.432	97	26.5 - 139	13	20
Naphthalene	59.7	µg/L	1	50.0	<0.475	119	10 - 203	12	20
Hexachlorobutadiene	45.6	µg/L	1	50.0	<1.02	91	50.9 - 108	15	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Dibromofluoromethane	49.8	49.9	µg/L	1	50	100	100	91.5 - 112
Toluene-d8	48.5	48.1	µg/L	1	50	97	96	90.6 - 105
4-Bromofluorobenzene (4-BFB)	50.1	49.7	µg/L	1	50	100	99	88.7 - 112

Standard (CCV-1)

QC Batch: 47115

Date Analyzed: 2008-04-03

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromochloromethane		µg/L	50.0	48.4	97	70 - 130	2008-04-03
Dichlorodifluoromethane		µg/L	50.0	49.5	99	70 - 130	2008-04-03
Chloromethane (methyl chloride)		µg/L	50.0	46.5	93	70 - 130	2008-04-03
Vinyl Chloride		µg/L	50.0	48.7	97	80 - 120	2008-04-03
Bromomethane (methyl bromide)		µg/L	50.0	48.9	98	70 - 130	2008-04-03
Chloroethane		µg/L	50.0	49.8	100	70 - 130	2008-04-03

continued ...

¹²MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Trichlorofluoromethane		µg/L	50.0	50.4	101	70 - 130	2008-04-03
Acetone		µg/L	50.0	47.8	96	70 - 130	2008-04-03
Iodomethane (methyl iodide)		µg/L	50.0	49.3	99	70 - 130	2008-04-03
Carbon Disulfide		µg/L	50.0	49.6	99	70 - 130	2008-04-03
Acrylonitrile		µg/L	50.0	46.6	93	70 - 130	2008-04-03
2-Butanone (MEK)		µg/L	50.0	53.0	106	70 - 130	2008-04-03
4-Methyl-2-pentanone (MIBK)		µg/L	50.0	49.5	99	70 - 130	2008-04-03
2-Hexanone		µg/L	50.0	57.2	114	70 - 130	2008-04-03
trans 1,4-Dichloro-2-butene		µg/L	50.0	50.0	100	70 - 130	2008-04-03
1,1-Dichloroethene		µg/L	50.0	48.6	97	80 - 120	2008-04-03
Methylene chloride		µg/L	50.0	46.8	94	70 - 130	2008-04-03
MTBE		µg/L	50.0	48.7	97	70 - 130	2008-04-03
trans-1,2-Dichloroethene		µg/L	50.0	47.8	96	70 - 130	2008-04-03
1,1-Dichloroethane		µg/L	50.0	48.7	97	70 - 130	2008-04-03
cis-1,2-Dichloroethene		µg/L	50.0	48.3	97	70 - 130	2008-04-03
2,2-Dichloropropane		µg/L	50.0	44.9	90	70 - 130	2008-04-03
1,2-Dichloroethane (EDC)		µg/L	50.0	47.2	94	70 - 130	2008-04-03
Chloroform		µg/L	50.0	47.7	95	80 - 120	2008-04-03
1,1,1-Trichloroethane		µg/L	50.0	47.8	96	70 - 130	2008-04-03
1,1-Dichloropropene		µg/L	50.0	48.0	96	70 - 130	2008-04-03
Benzene		µg/L	50.0	47.5	95	70 - 130	2008-04-03
Carbon Tetrachloride		µg/L	50.0	47.5	95	70 - 130	2008-04-03
1,2-Dichloropropane		µg/L	50.0	48.4	97	80 - 120	2008-04-03
Trichloroethene (TCE)		µg/L	50.0	49.3	99	70 - 130	2008-04-03
Dibromomethane (methylene bromide)		µg/L	50.0	48.3	97	70 - 130	2008-04-03
Bromodichloromethane		µg/L	50.0	48.6	97	70 - 130	2008-04-03
2-Chloroethyl vinyl ether		µg/L	50.0	49.9	100	70 - 130	2008-04-03
cis-1,3-Dichloropropene		µg/L	50.0	49.2	98	70 - 130	2008-04-03
trans-1,3-Dichloropropene		µg/L	50.0	50.0	100	70 - 130	2008-04-03
Toluene		µg/L	50.0	47.4	95	80 - 120	2008-04-03
1,1,2-Trichloroethane		µg/L	50.0	48.2	96	70 - 130	2008-04-03
1,3-Dichloropropane		µg/L	50.0	48.0	96	70 - 130	2008-04-03
Dibromochloromethane		µg/L	50.0	50.0	100	70 - 130	2008-04-03
1,2-Dibromoethane (EDB)		µg/L	50.0	49.6	99	70 - 130	2008-04-03
Tetrachloroethene (PCE)		µg/L	50.0	54.4	109	70 - 130	2008-04-03
Chlorobenzene		µg/L	50.0	48.1	96	80 - 120	2008-04-03
1,1,1,2-Tetrachloroethane		µg/L	50.0	48.6	97	70 - 130	2008-04-03
Ethylbenzene		µg/L	50.0	47.3	95	80 - 120	2008-04-03
m,p-Xylene		µg/L	100	94.6	95	70 - 130	2008-04-03
Bromoform		µg/L	50.0	52.1	104	70 - 130	2008-04-03
Styrene		µg/L	50.0	46.8	94	70 - 130	2008-04-03
o-Xylene		µg/L	50.0	47.5	95	70 - 130	2008-04-03
1,1,2,2-Tetrachloroethane		µg/L	50.0	48.4	97	70 - 130	2008-04-03
2-Chlorotoluene		µg/L	50.0	46.5	93	70 - 130	2008-04-03
1,2,3-Trichloropropane		µg/L	50.0	49.7	99	70 - 130	2008-04-03
Isopropylbenzene		µg/L	50.0	47.3	95	70 - 130	2008-04-03
Bromobenzene		µg/L	50.0	47.1	94	70 - 130	2008-04-03
n-Propylbenzene		µg/L	50.0	47.0	94	70 - 130	2008-04-03
1,3,5-Trimethylbenzene		µg/L	50.0	46.8	94	70 - 130	2008-04-03

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
tert-Butylbenzene		µg/L	50.0	47.6	95	70 - 130	2008-04-03
1,2,4-Trimethylbenzene		µg/L	50.0	47.2	94	70 - 130	2008-04-03
1,4-Dichlorobenzene (para)		µg/L	50.0	48.6	97	70 - 130	2008-04-03
sec-Butylbenzene		µg/L	50.0	47.6	95	70 - 130	2008-04-03
1,3-Dichlorobenzene (meta)		µg/L	50.0	48.9	98	70 - 130	2008-04-03
p-Isopropyltoluene		µg/L	50.0	48.4	97	70 - 130	2008-04-03
4-Chlorotoluene		µg/L	50.0	47.3	95	70 - 130	2008-04-03
1,2-Dichlorobenzene (ortho)		µg/L	50.0	49.8	100	70 - 130	2008-04-03
n-Butylbenzene		µg/L	50.0	50.1	100	70 - 130	2008-04-03
1,2-Dibromo-3-chloropropane		µg/L	50.0	46.5	93	70 - 130	2008-04-03
1,2,3-Trichlorobenzene		µg/L	50.0	48.8	98	70 - 130	2008-04-03
1,2,4-Trichlorobenzene		µg/L	50.0	48.0	96	70 - 130	2008-04-03
Naphthalene		µg/L	50.0	48.1	96	70 - 130	2008-04-03
Hexachlorobutadiene		µg/L	50.0	49.5	99	70 - 130	2008-04-03

Standard (CCV-1)

QC Batch: 47137

Date Analyzed: 2008-04-04

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol		mg/L	60.0	61.4	102	80 - 120	2008-04-04
1,4-Dichlorobenzene (para)		mg/L	60.0	59.8	100	80 - 120	2008-04-04
2-Nitrophenol		mg/L	60.0	66.4	111	80 - 120	2008-04-04
2,4-Dichlorophenol		mg/L	60.0	63.1	105	80 - 120	2008-04-04
Hexachlorobutadiene		mg/L	60.0	63.6	106	80 - 120	2008-04-04
4-Chloro-3-methylphenol		mg/L	60.0	48.8	81	80 - 120	2008-04-04
2,4,6-Trichlorophenol		mg/L	60.0	69.3	116	80 - 120	2008-04-04
Acenaphthene		mg/L	60.0	55.3	92	80 - 120	2008-04-04
Diphenylamine		mg/L	60.0	56.2	94	80 - 120	2008-04-04
Pentachlorophenol		mg/L	60.0	51.4	86	80 - 120	2008-04-04
Fluoranthene		mg/L	60.0	68.6	114	80 - 120	2008-04-04
Di-n-octylphthalate		mg/L	60.0	49.6	83	80 - 120	2008-04-04
Benzo(a)pyrene		mg/L	60.0	62.1	104	80 - 120	2008-04-04

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		56.9	mg/L	1	60.0	95	80 - 120
Phenol-d5		62.1	mg/L	1	60.0	104	80 - 120
Nitrobenzene-d5		67.3	mg/L	1	60.0	112	80 - 120
2-Fluorobiphenyl	13	73.3	mg/L	1	60.0	122	80 - 120
2,4,6-Tribromophenol		69.2	mg/L	1	60.0	115	80 - 120
Terphenyl-d14		65.8	mg/L	1	60.0	110	80 - 120

¹³2-Fluorobiphenyl outside of control limits on CCV(ICV). CCV(ICV) component average is 103% which is within acceptable range. This is acceptable by Method 8000.

TraceAnalysis, Inc.

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Company Name:

Talon LPE
(Street, City, Zip)

Address: 2901 Rankin Hwy

Contact Person: SPANNA Smith
E-mail: Spanna.Reynolds@talonlpe.com

Invoice to:

(If different from above)

Project #:

SR 5# PLANS 0479PL
2003-00017

Project Location (including state):

HOBBS, NM

Project Name:

Intersection Mainline

Sampler Signature:

Cindy Chung

Phone #:

432 522-2133

Fax #:

ANALYSIS REQUEST
(Circle or Specify Method No.)

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

2901 Rankin Hwy															E-mail: <u>Cherie Reynolds</u>																
Contact Person: <u>Shanna Smith</u>															<u>Smith@talonpc.com</u>																
Invoice to:																															
(If different from above)																															
Project #: <u>SR 5# PLAINS 0475PL</u>															Project Name: <u>Tunction Mainline</u>																
<u>1085, NM</u>															Sampler Signature: <u>[Signature]</u>																
Project Location (including state):																															
FIELD CODE															# CONTAINERS			Volume / Amount			MATRIX				PRESERVATIVE METHOD					SAMPLING	

Relinquished by: *Cindy Chung* Date: 3-25-08 Time: 6:30 pm Received by: *Cindy Chung* Date: 3-25-08 Time: 18:30

Relinquished by: *Cindy Chung* Date: 3-25-08 Time: 17:00 Received by: *Cindy Chung* Date: 3-25-08 Time: 18:30

Relinquished by: *Cindy Chung* Date: 3-25-08 Time: 17:00 Received by: *Cindy Chung* Date: 3-25-08 Time: 18:30

LAB USE ONLY

Initial: *CY/AN*
Headspace: *Y/N*
Temp: *4*
Log-in/Review: *TL*

REMARKS:

all tests - sublock

- ☐ 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 # *Came-in/Container* *P3073928*

TRACE ANALYSIS, INC.

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Analytical and Quality Control Report

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

Report Date: May 6, 2008

Work Order: 8033118



Project Location: Hobbs, NM
Project Name: Hobbs Junction Mainline
Project Number: Plains047SPL
SRS#: SRS#2003-00017

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
155151	#6	water	2008-03-31	14:45	2008-03-31

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

This report consists of a total of 50 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Hobbs Junction Mainline were received by TraceAnalysis, Inc. on 2008-03-31 and assigned to work order 8033118. Samples for work order 8033118 were received intact without headspace and at a temperature of 4.0 deg C.

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

Test	Method
Ag, Total	S 6010B
Al, Total	S 6010B
As, Total	S 6010B
Ba, Total	S 6010B
Be, Total	S 6010B
Cd, Total	S 6010B
Chloride (IC)	E 300.0
Corrosivity	S 1110
Cr, Total	S 6010B
Cu, Total	S 6010B
Fe, Total	S 6010B
Fluoride (IC)	E 300.0
Free Cyanide	E 9213
Hg, Total	S 7470A
Mn, Total	S 6010B
NO2 (IC)	E 300.0
NO3 (IC)	E 300.0
PAH	S 8270C
Pb, Total	S 6010B
Sb, Total	S 6010B
Se, Total	S 6010B
SO4 (IC)	E 300.0
Surfactants	SM 5540C
TDS	SM 2540C
Tl, Total	S 6010B
Volatiles	S 8260B
Zn, Total	S 6010B

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 8033118 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 155151 - #6

Analysis: Ag, Total
QC Batch: 47095
Prep Batch: 40490

Analytical Method: S 6010B
Date Analyzed: 2008-04-04
Sample Preparation: 2008-04-03

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.00500	mg/L	1	0.00500

Sample: 155151 - #6

Analysis: Al, Total
QC Batch: 47095
Prep Batch: 40490

Analytical Method: S 6010B
Date Analyzed: 2008-04-04
Sample Preparation: 2008-04-03

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Aluminum		<0.0500	mg/L	1	0.0500

Sample: 155151 - #6

Analysis: As, Total
QC Batch: 47095
Prep Batch: 40490

Analytical Method: S 6010B
Date Analyzed: 2008-04-04
Sample Preparation: 2008-04-03

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Arsenic		0.0130	mg/L	1	0.00500

Sample: 155151 - #6

Analysis: Ba, Total
QC Batch: 47095
Prep Batch: 40490

Analytical Method: S 6010B
Date Analyzed: 2008-04-04
Sample Preparation: 2008-04-03

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Barium		0.0550	mg/L	1	0.00100

Sample: 155151 - #6

Analysis: Be, Total
QC Batch: 47095
Prep Batch: 40490

Analytical Method: S 6010B
Date Analyzed: 2008-04-04
Sample Preparation: 2008-04-03

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Beryllium		<0.00200	mg/L	1	0.00200

Sample: 155151 - #6

Analysis: Cd, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 47095 Date Analyzed: 2008-04-04 Analyzed By: RR
Prep Batch: 40490 Sample Preparation: 2008-04-03 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Cadmium		<0.00100	mg/L	1	0.00100

Sample: 155151 - #6

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 47026 Date Analyzed: 2008-04-01 Analyzed By: ER
Prep Batch: 40447 Sample Preparation: 2008-04-01 Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		41.5	mg/L	5	0.500

Sample: 155151 - #6

Analysis: Corrosivity Analytical Method: S 1110 Prep Method: N/A
QC Batch: 47580 Date Analyzed: 2008-04-18 Analyzed By: ER
Prep Batch: 40915 Sample Preparation: 2008-04-18 Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Corrosivity		non-corrosive	mm/yr	1	0.00
pH		7.48	s.u.	1	0.00

Sample: 155151 - #6

Analysis: Cr, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 47095 Date Analyzed: 2008-04-04 Analyzed By: RR
Prep Batch: 40490 Sample Preparation: 2008-04-03 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Chromium		<0.00100	mg/L	1	0.00100

Sample: 155151 - #6

Analysis: Cu, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 47095 Date Analyzed: 2008-04-04 Analyzed By: RR
Prep Batch: 40490 Sample Preparation: 2008-04-03 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Copper		<0.00500	mg/L	1	0.00500

Sample: 155151 - #6

Analysis: Fe, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 47095 Date Analyzed: 2008-04-04 Analyzed By: RR
Prep Batch: 40490 Sample Preparation: 2008-04-03 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Iron		0.0340	mg/L	1	0.0100

Sample: 155151 - #6

Analysis: Fluoride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 47026 Date Analyzed: 2008-04-01 Analyzed By: ER
Prep Batch: 40447 Sample Preparation: 2008-04-01 Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		1.26	mg/L	5	0.200

Sample: 155151 - #6

Analysis: Free Cyanide Analytical Method: E 9213 Prep Method: N/A
QC Batch: 47550 Date Analyzed: 2008-04-08 Analyzed By: BP
Prep Batch: 40886 Sample Preparation: 2008-04-07 Prepared By: BP

Parameter	Flag	RL Result	Units	Dilution	RL
Free Cyanide		<0.0100	mg/L	1	0.0100

Sample: 155151 - #6

Analysis: Hg, Total Analytical Method: S 7470A Prep Method: N/A
QC Batch: 47227 Date Analyzed: 2008-04-08 Analyzed By: TP
Prep Batch: 40584 Sample Preparation: 2008-04-08 Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Mercury		<0.000200	mg/L	1	0.000200

Sample: 155151 - #6

Analysis: Mn, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 47095 Date Analyzed: 2008-04-04 Analyzed By: RR
Prep Batch: 40490 Sample Preparation: 2008-04-03 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Manganese		<0.00250	mg/L	1	0.00250

Sample: 155151 - #6

Analysis: NO2 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 47026 Date Analyzed: 2008-04-01 Analyzed By: ER
Prep Batch: 40447 Sample Preparation: 2008-04-01 Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrite-N		<1.00	mg/L	5	0.200

Sample: 155151 - #6

Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 47026 Date Analyzed: 2008-04-01 Analyzed By: ER
Prep Batch: 40447 Sample Preparation: 2008-04-01 Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		3.50	mg/L	5	0.200

Sample: 155151 - #6

Analysis: PAH Analytical Method: S 8270C Prep Method: S 3510C
QC Batch: 47240 Date Analyzed: 2008-04-08 Analyzed By: DS
Prep Batch: 40627 Sample Preparation: 2008-04-04 Prepared By: DS

Comment: Only report Benzo-a- pyrene

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0626	mg/L	1	0.0800	78	37.4 - 123
2-Fluorobiphenyl		0.0624	mg/L	1	0.0800	78	34.3 - 130
Terphenyl-d14		0.0692	mg/L	1	0.0800	86	10 - 252

Report Date: May 6, 2008
Plains047SPL

Work Order: 8033118
Hobbs Junction Mainline

Page Number: 7 of 50
Hobbs, NM

Sample: 155151 - #6

Analysis: Pb, Total
QC Batch: 47095
Prep Batch: 40490

Analytical Method: S 6010B
Date Analyzed: 2008-04-04
Sample Preparation: 2008-04-03

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Lead		<0.00500	mg/L	1	0.00500

Sample: 155151 - #6

Analysis: Sb, Total
QC Batch: 47095
Prep Batch: 40490

Analytical Method: S 6010B
Date Analyzed: 2008-04-04
Sample Preparation: 2008-04-03

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Antimony		<0.0200	mg/L	1	0.0200

Sample: 155151 - #6

Analysis: Se, Total
QC Batch: 47095
Prep Batch: 40490

Analytical Method: S 6010B
Date Analyzed: 2008-04-04
Sample Preparation: 2008-04-03

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Selenium		<0.0100	mg/L	1	0.0100

Sample: 155151 - #6

Analysis: SO4 (IC)
QC Batch: 47026
Prep Batch: 40447

Analytical Method: E 300.0
Date Analyzed: 2008-04-01
Sample Preparation: 2008-04-01

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

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		66.7	mg/L	5	1.00

Sample: 155151 - #6

Analysis: Surfactants
QC Batch: 47167
Prep Batch: 40563

Analytical Method: SM 5540C
Date Analyzed: 2008-04-02
Sample Preparation: 2008-04-02

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

Parameter	Flag	RL Result	Units	Dilution	RL
Surfactants		<0.100	MBAS mg/L	1	0.100

Sample: 155151 - #6

Analysis: TDS	Analytical Method: SM 2540C	Prep Method: N/A
QC Batch: 47119	Date Analyzed: 2008-04-04	Analyzed By: AR
Prep Batch: 40522	Sample Preparation: 2008-04-02	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		364.0	mg/L	1	10.00

Sample: 155151 - #6

Analysis: TI, Total	Analytical Method: S 6010B	Prep Method: S 3010A
QC Batch: 47095	Date Analyzed: 2008-04-04	Analyzed By: RR
Prep Batch: 40490	Sample Preparation: 2008-04-03	Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Thallium		<0.0200	mg/L	1	0.0200

Sample: 155151 - #6

Analysis: Volatiles	Analytical Method: S 8260B	Prep Method: S 5030B
QC Batch: 47140	Date Analyzed: 2008-04-04	Analyzed By: KB
Prep Batch: 40543	Sample Preparation: 2008-04-04	Prepared By: KB

Comment: See attached list for specifics.

Parameter	Flag	RL Result	Units	Dilution	RL
Vinyl Chloride		<1.00	µg/L	1	1.00
1,1-Dichloroethene		<1.00	µg/L	1	1.00
Methylene chloride		<5.00	µg/L	1	5.00
trans-1,2-Dichloroethene		<1.00	µg/L	1	1.00
cis-1,2-Dichloroethene		<1.00	µg/L	1	1.00
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1.00
1,1,1-Trichloroethane		<1.00	µg/L	1	1.00
Benzene		<1.00	µg/L	1	1.00
Carbon Tetrachloride		<1.00	µg/L	1	1.00
1,2-Dichloropropane		<1.00	µg/L	1	1.00
Trichloroethene (TCE)		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
1,1,2-Trichloroethane		<1.00	µg/L	1	1.00
Tetrachloroethene (PCE)		<1.00	µg/L	1	1.00
Chlorobenzene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
Styrene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1.00
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1.00

continued ...

sample 155151 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.8	µg/L	1	50.0	98	89.8 - 111
Toluene-d8		49.4	µg/L	1	50.0	99	93.2 - 108
4-Bromofluorobenzene (4-BFB)		47.1	µg/L	1	50.0	94	88.4 - 103

Sample: 155151 - #6

Analysis: Zn, Total	Analytical Method: S 6010B	Prep Method: S 3010A
QC Batch: 47095	Date Analyzed: 2008-04-04	Analyzed By: RR
Prep Batch: 40490	Sample Preparation: 2008-04-03	Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc		<0.00700	mg/L	1	0.00700

Method Blank (1) QC Batch: 47026

QC Batch: 47026	Date Analyzed: 2008-04-01	Analyzed By: ER
Prep Batch: 40447	QC Preparation: 2008-04-01	Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.172	mg/L	0.5

Method Blank (1) QC Batch: 47026

QC Batch: 47026	Date Analyzed: 2008-04-01	Analyzed By: ER
Prep Batch: 40447	QC Preparation: 2008-04-01	Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Fluoride		<0.0889	mg/L	0.2

Method Blank (1) QC Batch: 47026

QC Batch: 47026	Date Analyzed: 2008-04-01	Analyzed By: ER
Prep Batch: 40447	QC Preparation: 2008-04-01	Prepared By: ER

Report Date: May 6, 2008
Plains047SPL

Work Order: 8033118
Hobbs Junction Mainline

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Hobbs, NM

Parameter	Flag	MDL Result	Units	RL
Nitrite-N		<0.0709	mg/L	0.2

Method Blank (1) QC Batch: 47026

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Nitrate-N		<0.0805	mg/L	0.2

Method Blank (1) QC Batch: 47026

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Sulfate		<0.344	mg/L	1

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Silver		<0.00210	mg/L	0.005

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Aluminum		<0.0228	mg/L	0.05

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Arsenic		<0.00430	mg/L	0.005

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Barium		<0.00170	mg/L	0.001

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Beryllium		<0.00220	mg/L	0.002

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Cadmium		<0.00140	mg/L	0.001

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Chromium		<0.000900	mg/L	0.001

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Copper		<0.00140	mg/L	0.005

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Iron		<0.00690	mg/L	0.01

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Manganese		<0.000600	mg/L	0.0025

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Lead		<0.00320	mg/L	0.005

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Antimony		<0.0166	mg/L	0.02

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

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Parameter	Flag	MDL Result	Units	RL
Total Selenium		<0.0131	mg/L	0.01

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Thallium		<0.0189	mg/L	0.02

Method Blank (1) QC Batch: 47095

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Zinc		<0.00710	mg/L	0.007

Method Blank (1) QC Batch: 47119

QC Batch: 47119
Prep Batch: 40522

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-02

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Total Dissolved Solids		12.00	mg/L	10

Method Blank (1) QC Batch: 47140

QC Batch: 47140
Prep Batch: 40543

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-04

Analyzed By: KB
Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
Bromochloromethane		<0.197	µg/L	1
Dichlorodifluoromethane		<0.672	µg/L	1
Chloromethane (methyl chloride)		<0.542	µg/L	1
Vinyl Chloride		<0.516	µg/L	1
Bromomethane (methyl bromide)		<0.446	µg/L	5
Chloroethane		<0.656	µg/L	1

continued ...

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Parameter	Flag	MDL Result	Units	RL
Trichlorofluoromethane		<0.538	µg/L	1
Acetone		<1.10	µg/L	10
Iodomethane (methyl iodide)		<0.214	µg/L	5
Carbon Disulfide		<0.294	µg/L	1
Acrylonitrile		<0.442	µg/L	1
2-Butanone (MEK)		<0.420	µg/L	5
4-Methyl-2-pentanone (MIBK)		<0.407	µg/L	5
2-Hexanone		<0.486	µg/L	5
trans 1,4-Dichloro-2-butene		<0.463	µg/L	10
1,1-Dichloroethene		<0.237	µg/L	1
Methylene chloride		<0.312	µg/L	5
MTBE		<0.318	µg/L	1
trans-1,2-Dichloroethene		<0.217	µg/L	1
1,1-Dichloroethane		<0.202	µg/L	1
cis-1,2-Dichloroethene		<0.309	µg/L	1
2,2-Dichloropropane		<0.318	µg/L	1
1,2-Dichloroethane (EDC)		<0.292	µg/L	1
Chloroform		<0.234	µg/L	1
1,1,1-Trichloroethane		<0.257	µg/L	1
1,1-Dichloropropene		<0.286	µg/L	1
Benzene		<0.319	µg/L	1
Carbon Tetrachloride		<0.223	µg/L	1
1,2-Dichloropropane		<0.266	µg/L	1
Trichloroethene (TCE)		<0.235	µg/L	1
Dibromomethane (methylene bromide)		<0.341	µg/L	1
Bromodichloromethane		<0.291	µg/L	1
2-Chloroethyl vinyl ether		<0.293	µg/L	5
cis-1,3-Dichloropropene		<0.207	µg/L	1
trans-1,3-Dichloropropene		<0.293	µg/L	1
Toluene		<0.268	µg/L	1
1,1,2-Trichloroethane		<0.329	µg/L	1
1,3-Dichloropropane		<0.316	µg/L	1
Dibromochloromethane		<0.290	µg/L	1
1,2-Dibromoethane (EDB)		<0.229	µg/L	1
Tetrachloroethene (PCE)		<0.233	µg/L	1
Chlorobenzene		<0.276	µg/L	1
1,1,1,2-Tetrachloroethane		<0.226	µg/L	1
Ethylbenzene		<0.245	µg/L	1
m,p-Xylene		<0.517	µg/L	1
Bromoform		<0.175	µg/L	1
Styrene		<0.239	µg/L	1
o-Xylene		<0.247	µg/L	1
1,1,2,2-Tetrachloroethane		<0.223	µg/L	1
2-Chlorotoluene		<0.235	µg/L	1
1,2,3-Trichloropropane		<0.230	µg/L	1
Isopropylbenzene		<0.226	µg/L	1
Bromobenzene		<0.245	µg/L	1
n-Propylbenzene		<0.234	µg/L	1
1,3,5-Trimethylbenzene		<0.261	µg/L	1
tert-Butylbenzene		<0.281	µg/L	1

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Parameter	Flag	MDL Result	Units	RL
1,2,4-Trimethylbenzene		<0.285	µg/L	1
1,4-Dichlorobenzene (para)		<0.307	µg/L	1
sec-Butylbenzene		<0.312	µg/L	1
1,3-Dichlorobenzene (meta)		<0.284	µg/L	1
p-Isopropyltoluene		<0.244	µg/L	1
4-Chlorotoluene		<0.257	µg/L	1
1,2-Dichlorobenzene (ortho)		<0.294	µg/L	1
n-Butylbenzene		<0.339	µg/L	1
1,2-Dibromo-3-chloropropane		3.14	µg/L	5
1,2,3-Trichlorobenzene		2.63	µg/L	5
1,2,4-Trichlorobenzene		2.71	µg/L	5
Naphthalene		3.19	µg/L	5
Hexachlorobutadiene		<1.02	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.2	µg/L	1	50.0	96	89.8 - 111
Toluene-d8		49.6	µg/L	1	50.0	99	93.2 - 108
4-Bromofluorobenzene (4-BFB)		47.7	µg/L	1	50.0	95	88.4 - 103

Method Blank (1) QC Batch: 47167

QC Batch: 47167
Prep Batch: 40563

Date Analyzed: 2008-04-02
QC Preparation: 2008-04-02

Analyzed By: ER
Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Surfactants		0.00	MBAS mg/L	0.1

Method Blank (1) QC Batch: 47227

QC Batch: 47227
Prep Batch: 40584

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-08

Analyzed By: TP
Prepared By: TP

Parameter	Flag	MDL Result	Units	RL
Total Mercury		<0.0000251	mg/L	0.0002

Method Blank (1) QC Batch: 47240

QC Batch: 47240
Prep Batch: 40627

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-04

Analyzed By: DS
Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000241	mg/L	0.0002

continued ...

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Parameter	Flag	MDL Result	Units	RL
2-Methylnaphthalene		<0.0000751	mg/L	0.0002
1-Methylnaphthalene		<0.0000281	mg/L	0.0002
Acenaphthylene		<0.0000415	mg/L	0.0002
Acenaphthene		<0.0000218	mg/L	0.0002
Dibenzofuran		<0.0000416	mg/L	0.0002
Fluorene		<0.0000437	mg/L	0.0002
Anthracene		<0.000125	mg/L	0.0002
Phenanthrene		<0.000129	mg/L	0.0002
Fluoranthene		<0.000142	mg/L	0.0002
Pyrene		<0.000155	mg/L	0.0002
Benzo(a)anthracene		<0.000125	mg/L	0.0002
Chrysene		<0.000105	mg/L	0.0002
Benzo(b)fluoranthene		<0.0000607	mg/L	0.0002
Benzo(k)fluoranthene		<0.0000690	mg/L	0.0002
Benzo(a)pyrene		<0.0000466	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000283	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000244	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000171	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0552	mg/L	1	0.0800	69	37.4 - 123
2-Fluorobiphenyl		0.0518	mg/L	1	0.0800	65	34.3 - 130
Terphenyl-d14		0.0600	mg/L	1	0.0800	75	10 - 252

Method Blank (1) QC Batch: 47550

QC Batch: 47550
Prep Batch: 40886

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-07

Analyzed By: BP
Prepared By: BP

Parameter	Flag	MDL Result	Units	RL
Free Cyanide		<0.00500	mg/L	0.01

Duplicates (1)

QC Batch: 47119
Prep Batch: 40522

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-02

Analyzed By: AR
Prepared By: AR

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	362.0	364.0	mg/L	1	1	20

Laboratory Control Spike (LCS-1)

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.8	mg/L	1	12.5	<0.172	102	90 - 110

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
Chloride	13.4	mg/L	1	12.5	<0.172	107	90 - 110	5	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.30	mg/L	1	2.50	<0.0889	92	90 - 110

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
Fluoride	2.68	mg/L	1	2.50	<0.0889	107	90 - 110	15	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrite-N	2.40	mg/L	1	2.50	<0.0709	96	90 - 110

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
Nitrite-N	2.62	mg/L	1	2.50	<0.0709	105	90 - 110	9	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N	2.71	mg/L	1	2.50	<0.0805	108	90 - 110

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
Nitrate-N	2.74	mg/L	1	2.50	<0.0805	110	90 - 110	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	13.6	mg/L	1	12.5	<0.344	109	90 - 110

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
Sulfate	13.7	mg/L	1	12.5	<0.344	110	90 - 110	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	0.129	mg/L	1	0.125	<0.00210	103	86.7 - 113

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
Total Silver	0.130	mg/L	1	0.125	<0.00210	104	86.7 - 113	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Aluminum	0.930	mg/L	1	1.00	<0.0228	93	85 - 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
Total Aluminum	0.931	mg/L	1	1.00	<0.0228	93	85 - 106	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Arsenic	0.502	mg/L	1	0.500	<0.00430	100	85 - 112

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
Total Arsenic	0.508	mg/L	1	0.500	<0.00430	102	85 - 112	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Barium	1.05	mg/L	1	1.00	<0.00170	105	86.9 - 115

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
Total Barium	1.06	mg/L	1	1.00	<0.00170	106	86.9 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Beryllium	0.0257	mg/L	1	0.0250	<0.00220	103	85 - 109

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
Total Beryllium	0.0258	mg/L	1	0.0250	<0.00220	103	85 - 109	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Cadmium	0.260	mg/L	1	0.250	<0.00140	104	85.2 - 115

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
Total Cadmium	0.259	mg/L	1	0.250	<0.00140	104	85.2 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Chromium	0.103	mg/L	1	0.100	<0.000900	103	86 - 115

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
Total Chromium	0.103	mg/L	1	0.100	<0.000900	103	86 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper	0.123	mg/L	1	0.125	<0.00140	98	85.6 - 113

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
Total Copper	0.123	mg/L	1	0.125	<0.00140	98	85.6 - 113	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron	0.521	mg/L	1	0.500	<0.00690	104	86.9 - 115

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
Total Iron	0.545	mg/L	1	0.500	<0.00690	109	86.9 - 115	4	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese	0.259	mg/L	1	0.250	<0.000600	104	85.4 - 115		

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
Total Manganese	0.258	mg/L	1	0.250	<0.000600	103	85.4 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Lead	0.506	mg/L	1	0.500	<0.00320	101	87.9 - 112		

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
Total Lead	0.524	mg/L	1	0.500	<0.00320	105	87.9 - 112	4	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Antimony	0.246	mg/L	1	0.250	<0.0166	98	85 - 111		

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
Total Antimony	0.244	mg/L	1	0.250	<0.0166	98	85 - 111	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Selenium	0.453	mg/L	1	0.500	<0.0131	91	85 - 109

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
Total Selenium	0.445	mg/L	1	0.500	<0.0131	89	85 - 109	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Thallium	0.522	mg/L	1	0.500	<0.0189	104	89.4 - 115

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
Total Thallium	0.520	mg/L	1	0.500	<0.0189	104	89.4 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	0.236	mg/L	1	0.250	<0.00710	94	85 - 113

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
Total Zinc	0.234	mg/L	1	0.250	<0.00710	94	85 - 113	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47140
Prep Batch: 40543

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-04

Analyzed By: KB
Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	50.3	µg/L	1	50.0	<0.197	101	91.8 - 112
Dichlorodifluoromethane	50.6	µg/L	1	50.0	<0.672	101	40.7 - 133
Chloromethane (methyl chloride)	46.8	µg/L	1	50.0	<0.542	94	61.4 - 130
Vinyl Chloride	48.6	µg/L	1	50.0	<0.516	97	65.4 - 127
Bromomethane (methyl bromide)	51.2	µg/L	1	50.0	<0.446	102	61 - 140
Chloroethane	50.1	µg/L	1	50.0	<0.656	100	72.1 - 121
Trichlorofluoromethane	52.6	µg/L	1	50.0	<0.538	105	77.1 - 116
Acetone	115	µg/L	1	50.0	<1.10	230	10 - 169
Iodomethane (methyl iodide)	50.4	µg/L	1	50.0	<0.214	101	84.4 - 118
Carbon Disulfide	42.8	µg/L	1	50.0	<0.294	86	84.7 - 116
Acrylonitrile	45.9	µg/L	1	50.0	<0.442	92	88.5 - 119
2-Butanone (MEK)	94.2	µg/L	1	50.0	<0.420	188	38.2 - 134
4-Methyl-2-pentanone (MIBK)	53.8	µg/L	1	50.0	<0.407	108	90.4 - 114
2-Hexanone	92.8	µg/L	1	50.0	<0.486	186	47 - 145
trans 1,4-Dichloro-2-butene	50.7	µg/L	1	50.0	<0.463	101	75.5 - 133
1,1-Dichloroethene	52.4	µg/L	1	50.0	<0.237	105	86.8 - 110
Methylene chloride	47.6	µg/L	1	50.0	<0.312	95	84.4 - 114
MTBE	42.0	µg/L	1	50.0	<0.318	84	88.3 - 115
trans-1,2-Dichloroethene	48.9	µg/L	1	50.0	<0.217	98	89.1 - 109
1,1-Dichloroethane	48.5	µg/L	1	50.0	<0.202	97	85 - 114
cis-1,2-Dichloroethene	48.8	µg/L	1	50.0	<0.309	98	91.2 - 109
2,2-Dichloropropane	38.5	µg/L	1	50.0	<0.318	77	63.4 - 132
1,2-Dichloroethane (EDC)	48.1	µg/L	1	50.0	<0.292	96	82.2 - 113
Chloroform	49.2	µg/L	1	50.0	<0.234	98	86.5 - 111
1,1,1-Trichloroethane	44.2	µg/L	1	50.0	<0.257	88	89.7 - 109
1,1-Dichloropropene	48.4	µg/L	1	50.0	<0.286	97	89.7 - 110
Benzene	47.8	µg/L	1	50.0	<0.319	96	87.6 - 107
Carbon Tetrachloride	45.8	µg/L	1	50.0	<0.223	92	92.1 - 111
1,2-Dichloropropane	48.3	µg/L	1	50.0	<0.266	97	91.8 - 111
Trichloroethene (TCE)	50.5	µg/L	1	50.0	<0.235	101	85.4 - 113
Dibromomethane (methylene bromide)	49.4	µg/L	1	50.0	<0.341	99	93.2 - 108
Bromodichloromethane	49.9	µg/L	1	50.0	<0.291	100	93.6 - 113
2-Chloroethyl vinyl ether	49.4	µg/L	1	50.0	<0.293	99	91.8 - 111
cis-1,3-Dichloropropene	50.4	µg/L	1	50.0	<0.207	101	94.6 - 117
trans-1,3-Dichloropropene	51.2	µg/L	1	50.0	<0.293	102	90.2 - 119
Toluene	48.2	µg/L	1	50.0	<0.268	96	91.3 - 110
1,1,2-Trichloroethane	48.8	µg/L	1	50.0	<0.329	98	94.3 - 106
1,3-Dichloropropane	48.5	µg/L	1	50.0	<0.316	97	92.2 - 108
Dibromochloromethane	52.0	µg/L	1	50.0	<0.290	104	92.1 - 122
1,2-Dibromoethane (EDB)	51.4	µg/L	1	50.0	<0.229	103	98.2 - 106
Tetrachloroethene (PCE)	45.4	µg/L	1	50.0	<0.233	91	20.2 - 156
Chlorobenzene	49.8	µg/L	1	50.0	<0.276	100	92.9 - 103
1,1,1,2-Tetrachloroethane	50.4	µg/L	1	50.0	<0.226	101	99.3 - 105
Ethylbenzene	47.6	µg/L	1	50.0	<0.245	95	90.5 - 107
m,p-Xylene	95.7	µg/L	1	100	<0.517	96	89.5 - 111
Bromoform	55.3	µg/L	1	50.0	<0.175	111	84.2 - 144

continued ...

- ¹ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •
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- ⁶ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Styrene	48.0	µg/L	1	50.0	<0.239	96	94.3 - 113
o-Xylene	48.1	µg/L	1	50.0	<0.247	96	91.2 - 112
1,1,2,2-Tetrachloroethane	51.1	µg/L	1	50.0	<0.223	102	74.9 - 133
2-Chlorotoluene	48.2	µg/L	1	50.0	<0.235	96	87.4 - 110
1,2,3-Trichloropropane	50.9	µg/L	1	50.0	<0.230	102	86.6 - 114
Isopropylbenzene	49.4	µg/L	1	50.0	<0.226	99	87.6 - 115
Bromobenzene	48.6	µg/L	1	50.0	<0.245	97	91.3 - 105
n-Propylbenzene	48.8	µg/L	1	50.0	<0.234	98	84.4 - 113
1,3,5-Trimethylbenzene	48.3	µg/L	1	50.0	<0.261	97	89.3 - 109
tert-Butylbenzene	49.5	µg/L	1	50.0	<0.281	99	93.2 - 106
1,2,4-Trimethylbenzene	48.5	µg/L	1	50.0	<0.285	97	89.6 - 115
1,4-Dichlorobenzene (para)	50.7	µg/L	1	50.0	<0.307	101	88.4 - 106
sec-Butylbenzene	49.1	µg/L	1	50.0	<0.312	98	87.2 - 113
1,3-Dichlorobenzene (meta)	51.1	µg/L	1	50.0	<0.284	102	91.1 - 109
p-Isopropyltoluene	50.3	µg/L	1	50.0	<0.244	101	92.2 - 109
4-Chlorotoluene	49.2	µg/L	1	50.0	<0.257	98	89 - 110
1,2-Dichlorobenzene (ortho)	51.1	µg/L	1	50.0	<0.294	102	91.3 - 110
n-Butylbenzene	51.2	µg/L	1	50.0	<0.339	102	86.8 - 113
1,2-Dibromo-3-chloropropane	45.5	µg/L	1	50.0	3.14	91	72.3 - 130
1,2,3-Trichlorobenzene	47.1	µg/L	1	50.0	2.63	94	81.2 - 202
1,2,4-Trichlorobenzene	48.6	µg/L	1	50.0	2.71	97	65 - 145
Naphthalene	46.4	µg/L	1	50.0	3.19	93	84.5 - 150
Hexachlorobutadiene	49.8	µg/L	1	50.0	<1.02	100	70.2 - 133

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
Bromochloromethane	51.5	µg/L	1	50.0	<0.197	103	91.8 - 112	2	20
Dichlorodifluoromethane	49.1	µg/L	1	50.0	<0.672	98	40.7 - 133	3	20
Chloromethane (methyl chloride)	44.5	µg/L	1	50.0	<0.542	89	61.4 - 130	5	20
Vinyl Chloride	46.7	µg/L	1	50.0	<0.516	93	65.4 - 127	4	20
Bromomethane (methyl bromide)	49.3	µg/L	1	50.0	<0.446	99	61 - 140	4	20
Chloroethane	47.7	µg/L	1	50.0	<0.656	95	72.1 - 121	5	20
Trichlorofluoromethane	50.7	µg/L	1	50.0	<0.538	101	77.1 - 116	4	20
Acetone	103	µg/L	1	50.0	<1.10	206	10 - 169	11	20
Iodomethane (methyl iodide)	51.3	µg/L	1	50.0	<0.214	103	84.4 - 118	2	20
Carbon Disulfide	43.8	µg/L	1	50.0	<0.294	88	84.7 - 116	2	20
Acrylonitrile	46.7	µg/L	1	50.0	<0.442	93	88.5 - 119	2	20
2-Butanone (MEK)	94.4	µg/L	1	50.0	<0.420	189	38.2 - 134	0	20
4-Methyl-2-pentanone (MIBK)	55.4	µg/L	1	50.0	<0.407	111	90.4 - 114	3	20
2-Hexanone	92.2	µg/L	1	50.0	<0.486	184	47 - 145	1	20
trans 1,4-Dichloro-2-butene	50.8	µg/L	1	50.0	<0.463	102	75.5 - 133	0	20
1,1-Dichloroethene	53.7	µg/L	1	50.0	<0.237	107	86.8 - 110	2	20
Methylene chloride	48.6	µg/L	1	50.0	<0.312	97	84.4 - 114	2	20
MTBE	42.2	µg/L	1	50.0	<0.318	84	88.3 - 115	0	20
trans-1,2-Dichloroethene	49.7	µg/L	1	50.0	<0.217	99	89.1 - 109	2	20

continued ...

⁷ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •

⁸ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •

⁹ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •

¹⁰ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
1,1-Dichloroethane	49.7	µg/L	1	50.0	<0.202	99	85 - 114	2	20
cis-1,2-Dichloroethene	49.9	µg/L	1	50.0	<0.309	100	91.2 - 109	2	20
2,2-Dichloropropane	37.9	µg/L	1	50.0	<0.318	76	63.4 - 132	2	20
1,2-Dichloroethane (EDC)	49.0	µg/L	1	50.0	<0.292	98	82.2 - 113	2	20
Chloroform	50.5	µg/L	1	50.0	<0.234	101	86.5 - 111	3	20
1,1,1-Trichloroethane	44.3	µg/L	1	50.0	<0.257	89	89.7 - 109	0	20
1,1-Dichloropropene	51.4	µg/L	1	50.0	<0.286	103	89.7 - 110	6	20
Benzene	50.4	µg/L	1	50.0	<0.319	101	87.6 - 107	5	20
Carbon Tetrachloride	47.3	µg/L	1	50.0	<0.223	95	92.1 - 111	3	20
1,2-Dichloropropane	51.2	µg/L	1	50.0	<0.266	102	91.8 - 111	6	20
Trichloroethene (TCE)	52.7	µg/L	1	50.0	<0.235	105	85.4 - 113	4	20
Dibromomethane (methylene bromide)	52.2	µg/L	1	50.0	<0.341	104	93.2 - 108	6	20
Bromodichloromethane	52.5	µg/L	1	50.0	<0.291	105	93.6 - 113	5	20
2-Chloroethyl vinyl ether	50.5	µg/L	1	50.0	<0.293	101	91.8 - 111	2	20
cis-1,3-Dichloropropene	52.6	µg/L	1	50.0	<0.207	105	94.6 - 117	4	20
trans-1,3-Dichloropropene	53.6	µg/L	1	50.0	<0.293	107	90.2 - 119	5	20
Toluene	50.7	µg/L	1	50.0	<0.268	101	91.3 - 110	5	20
1,1,2-Trichloroethane	50.4	µg/L	1	50.0	<0.329	101	94.3 - 106	3	20
1,3-Dichloropropane	50.2	µg/L	1	50.0	<0.316	100	92.2 - 108	3	20
Dibromochloromethane	54.0	µg/L	1	50.0	<0.290	108	92.1 - 122	4	20
1,2-Dibromoethane (EDB)	53.2	µg/L	1	50.0	<0.229	106	98.2 - 106	3	20
Tetrachloroethene (PCE)	47.0	µg/L	1	50.0	<0.233	94	20.2 - 156	4	20
Chlorobenzene	51.4	µg/L	1	50.0	<0.276	103	92.9 - 103	3	20
1,1,1,2-Tetrachloroethane	51.9	µg/L	1	50.0	<0.226	104	99.3 - 105	3	20
Ethylbenzene	49.2	µg/L	1	50.0	<0.245	98	90.5 - 107	3	20
m,p-Xylene	98.2	µg/L	1	100	<0.517	98	89.5 - 111	3	20
Bromoform	56.8	µg/L	1	50.0	<0.175	114	84.2 - 144	3	20
Styrene	49.5	µg/L	1	50.0	<0.239	99	94.3 - 113	3	20
o-Xylene	49.3	µg/L	1	50.0	<0.247	99	91.2 - 112	2	20
1,1,2,2-Tetrachloroethane	51.7	µg/L	1	50.0	<0.223	103	74.9 - 133	1	20
2-Chlorotoluene	49.3	µg/L	1	50.0	<0.235	99	87.4 - 110	2	20
1,2,3-Trichloropropane	51.6	µg/L	1	50.0	<0.230	103	86.6 - 114	1	20
Isopropylbenzene	50.6	µg/L	1	50.0	<0.226	101	87.6 - 115	2	20
Bromobenzene	49.8	µg/L	1	50.0	<0.245	100	91.3 - 105	2	20
n-Propylbenzene	50.1	µg/L	1	50.0	<0.234	100	84.4 - 113	3	20
1,3,5-Trimethylbenzene	49.4	µg/L	1	50.0	<0.261	99	89.3 - 109	2	20
tert-Butylbenzene	50.3	µg/L	1	50.0	<0.281	101	93.2 - 106	2	20
1,2,4-Trimethylbenzene	49.4	µg/L	1	50.0	<0.285	99	89.6 - 115	2	20
1,4-Dichlorobenzene (para)	51.7	µg/L	1	50.0	<0.307	103	88.4 - 106	2	20
sec-Butylbenzene	50.5	µg/L	1	50.0	<0.312	101	87.2 - 113	3	20
1,3-Dichlorobenzene (meta)	52.1	µg/L	1	50.0	<0.284	104	91.1 - 109	2	20
p-Isopropyltoluene	51.3	µg/L	1	50.0	<0.244	103	92.2 - 109	2	20
4-Chlorotoluene	50.8	µg/L	1	50.0	<0.257	102	89 - 110	3	20
1,2-Dichlorobenzene (ortho)	51.9	µg/L	1	50.0	<0.294	104	91.3 - 110	2	20
n-Butylbenzene	51.7	µg/L	1	50.0	<0.339	103	86.8 - 113	1	20
1,2-Dibromo-3-chloropropane	45.4	µg/L	1	50.0	3.14	91	72.3 - 130	0	20
1,2,3-Trichlorobenzene	46.9	µg/L	1	50.0	2.63	94	81.2 - 202	0	20
1,2,4-Trichlorobenzene	48.8	µg/L	1	50.0	2.71	98	65 - 145	0	20
Naphthalene	46.4	µg/L	1	50.0	3.19	93	84.5 - 150	0	20

continued ...

¹¹ Spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Hexachlorobutadiene	50.4	µg/L	1	50.0	<1.02	101	70.2 - 133	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
Dibromofluoromethane	50.3	50.2	µg/L	1	50.0	101	100	89.5 - 107
Toluene-d8	48.6	49.1	µg/L	1	50.0	97	98	92.6 - 102
4-Bromofluorobenzene (4-BFB)	49.8	50.2	µg/L	1	50.0	100	100	95.2 - 103

Laboratory Control Spike (LCS-1)

QC Batch: 47167
Prep Batch: 40563

Date Analyzed: 2008-04-02
QC Preparation: 2008-04-02

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Surfactants	1.09	MBAS mg/L	1	1.00	0	109	69.5 - 126

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Surfactants	1.02	MBAS mg/L	1	1.00	0	102	69.5 - 126	7	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47227
Prep Batch: 40584

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-08

Analyzed By: TP
Prepared By: TP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.00104	mg/L	1	0.00100	<0.0000251	104	89.6 - 111

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury	0.00105	mg/L	1	0.00100	<0.0000251	105	89.6 - 111	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 47240
Prep Batch: 40627

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-04

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0433	mg/L	1	0.0800	<0.0000241	54	10 - 141
2-Methylnaphthalene	0.0567	mg/L	1	0.0800	<0.0000751	71	50 - 150
1-Methylnaphthalene	0.0526	mg/L	1	0.0800	<0.0000281	66	50 - 150
Acenaphthylene	0.0532	mg/L	1	0.0800	<0.0000415	66	10 - 152
Acenaphthene	0.0526	mg/L	1	0.0800	<0.0000218	66	10 - 151
Dibenzofuran	0.0557	mg/L	1	0.0800	<0.0000416	70	10 - 148
Fluorene	0.0547	mg/L	1	0.0800	<0.0000437	68	10 - 172
Anthracene	0.0593	mg/L	1	0.0800	<0.000126	74	22.5 - 172
Phenanthrene	0.0599	mg/L	1	0.0800	<0.000129	75	19.6 - 172
Fluoranthene	0.0781	mg/L	1	0.0800	<0.000142	98	17.3 - 187
Pyrene	0.0569	mg/L	1	0.0800	<0.000155	71	14.9 - 199
Benzo(a)anthracene	0.0541	mg/L	1	0.0800	<0.000125	68	19.4 - 185
Chrysene	0.0561	mg/L	1	0.0800	<0.000105	70	18.4 - 188
Benzo(b)fluoranthene	0.0651	mg/L	1	0.0800	<0.0000607	81	10 - 193
Benzo(k)fluoranthene	0.0662	mg/L	1	0.0800	<0.0000690	83	27.8 - 196
Benzo(a)pyrene	0.0726	mg/L	1	0.0800	<0.0000466	91	12.4 - 205
Indeno(1,2,3-cd)pyrene	0.0909	mg/L	1	0.0800	<0.0000283	114	10 - 198
Dibenzo(a,h)anthracene	0.0882	mg/L	1	0.0800	<0.0000244	110	10 - 172
Benzo(g,h,i)perylene	0.0851	mg/L	1	0.0800	<0.0000171	106	10 - 186

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene	0.0448	mg/L	1	0.0800	<0.0000241	56	10 - 141	3	20
2-Methylnaphthalene	0.0589	mg/L	1	0.0800	<0.0000751	74	50 - 150	4	20
1-Methylnaphthalene	0.0555	mg/L	1	0.0800	<0.0000281	69	50 - 150	5	20
Acenaphthylene	0.0561	mg/L	1	0.0800	<0.0000415	70	10 - 152	5	20
Acenaphthene	0.0558	mg/L	1	0.0800	<0.0000218	70	10 - 151	6	20
Dibenzofuran	0.0591	mg/L	1	0.0800	<0.0000416	74	10 - 148	6	20
Fluorene	0.0588	mg/L	1	0.0800	<0.0000437	74	10 - 172	7	20
Anthracene	0.0622	mg/L	1	0.0800	<0.000126	78	22.5 - 172	5	20
Phenanthrene	0.0633	mg/L	1	0.0800	<0.000129	79	19.6 - 172	6	20
Fluoranthene	0.0808	mg/L	1	0.0800	<0.000142	101	17.3 - 187	3	20
Pyrene	0.0592	mg/L	1	0.0800	<0.000155	74	14.9 - 199	4	20
Benzo(a)anthracene	0.0563	mg/L	1	0.0800	<0.000125	70	19.4 - 185	4	20
Chrysene	0.0586	mg/L	1	0.0800	<0.000105	73	18.4 - 188	4	20
Benzo(b)fluoranthene	0.0654	mg/L	1	0.0800	<0.0000607	82	10 - 193	0	20
Benzo(k)fluoranthene	0.0669	mg/L	1	0.0800	<0.0000690	84	27.8 - 196	1	20
Benzo(a)pyrene	0.0730	mg/L	1	0.0800	<0.0000466	91	12.4 - 205	0	20
Indeno(1,2,3-cd)pyrene	0.0909	mg/L	1	0.0800	<0.0000283	114	10 - 198	0	20
Dibenzo(a,h)anthracene	0.0901	mg/L	1	0.0800	<0.0000244	113	10 - 172	2	20
Benzo(g,h,i)perylene	0.0870	mg/L	1	0.0800	<0.0000171	109	10 - 186	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Nitrobenzene-d5	0.0544	0.0596	mg/L	1	0.0800	68	74	10 - 165
2-Fluorobiphenyl	0.0486	0.0504	mg/L	1	0.0800	61	63	10 - 157
Terphenyl-d14	0.0662	0.0696	mg/L	1	0.0800	83	87	10 - 220

Laboratory Control Spike (LCS-1)

QC Batch: 47550
Prep Batch: 40886

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-07

Analyzed By: BP
Prepared By: BP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Free Cyanide	0.0500	mg/L	1	0.0500	<0.00500	100	80 - 120

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
Free Cyanide	0.0520	mg/L	1	0.0500	<0.00500	104	80 - 120	4	20

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

Matrix Spike (MS-1) Spiked Sample: 155169

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹² 2710	mg/L	100	1250	920.265	143	78.2 - 120

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
Chloride	¹³ 2530	mg/L	100	1250	920.265	129	78.2 - 120	7	20

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

Matrix Spike (MS-1) Spiked Sample: 155169

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	246	mg/L	100	250	<8.89	97	58.3 - 135

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
Fluoride	249	mg/L	100	250	<8.89	99	58.3 - 135	1	20

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

¹²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Matrix Spike (MS-1) Spiked Sample: 155169

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrite-N	178	mg/L	100	250	<7.09	71	10 - 209

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
Nitrite-N	188	mg/L	100	250	<7.09	75	10 - 209	6	20

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

Matrix Spike (MS-1) Spiked Sample: 155169

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N	¹⁴ 379	mg/L	100	250	10.5501	147	75.8 - 120

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
Nitrate-N	¹⁵ 381	mg/L	100	250	10.5501	148	75.8 - 120	0	20

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

Matrix Spike (MS-1) Spiked Sample: 155169

QC Batch: 47026
Prep Batch: 40447

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	1780	mg/L	100	1250	355.194	114	73.1 - 121

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
Sulfate	1780	mg/L	100	1250	355.194	114	73.1 - 121	0	20

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

¹⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	0.121	mg/L	1	0.125	<0.00210	97	76.1 - 115

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
Total Silver	0.120	mg/L	1	0.125	<0.00210	96	76.1 - 115	1	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Aluminum	0.980	mg/L	1	1.00	<0.0228	98	75 - 117

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
Total Aluminum	1.04	mg/L	1	1.00	<0.0228	104	75 - 117	6	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Arsenic	0.445	mg/L	1	0.500	<0.00430	89	81.6 - 116

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
Total Arsenic	0.445	mg/L	1	0.500	<0.00430	89	81.6 - 116	0	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Barium	0.809	mg/L	1	1.00	0.008	80	75 - 123

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
Total Barium	0.806	mg/L	1	1.00	0.008	80	75 - 123	0	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Beryllium	0.0210	mg/L	1	0.0250	<0.00220	84	75 - 113

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
Total Beryllium	0.0210	mg/L	1	0.0250	<0.00220	84	75 - 113	0	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Cadmium	0.187	mg/L	1	0.250	<0.00140	75	75 - 115

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
Total Cadmium	0.195	mg/L	1	0.250	<0.00140	78	75 - 115	4	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Chromium	0.100	mg/L	1	0.100	0.022	78	75 - 125

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
Total Chromium	0.0990	mg/L	1	0.100	0.022	77	75 - 125	1	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper	0.115	mg/L	1	0.125	<0.00140	92	81 - 112

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
Total Copper	0.115	mg/L	1	0.125	<0.00140	92	81 - 112	0	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron	0.454	mg/L	1	0.500	<0.00690	91	75 - 125

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
Total Iron	0.486	mg/L	1	0.500	<0.00690	97	75 - 125	7	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese	0.193	mg/L	1	0.250	<0.000600	77	75 - 111

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
Total Manganese	0.191	mg/L	1	0.250	<0.000600	76	75 - 111	1	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Lead	0.423	mg/L	1	0.500	<0.00320	85	82.6 - 114

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Lead	0.445	mg/L	1	0.500	<0.00320	89	82.6 - 114	5	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Antimony	0.219	mg/L	1	0.250	<0.0166	88	75 - 112

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
Total Antimony	0.214	mg/L	1	0.250	<0.0166	86	75 - 112	2	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Selenium	0.544	mg/L	1	0.500	0.132	82	75 - 106

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
Total Selenium	0.538	mg/L	1	0.500	0.132	81	75 - 106	1	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Thallium	0.398	mg/L	1	0.500	<0.0189	80	75 - 124

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
Total Thallium	0.396	mg/L	1	0.500	<0.0189	79	75 - 124	0	20

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

Matrix Spike (MS-1) Spiked Sample: 155080

QC Batch: 47095
Prep Batch: 40490

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-03

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	0.199	mg/L	1	0.250	<0.00710	80	76.9 - 111

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
Total Zinc	0.215	mg/L	1	0.250	<0.00710	86	76.9 - 111	8	20

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

Matrix Spike (MS-1) Spiked Sample: 155638

QC Batch: 47140
Prep Batch: 40543

Date Analyzed: 2008-04-04
QC Preparation: 2008-04-04

Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	49.8	µg/L	1	50.0	<0.197	100	82.3 - 118
Dichlorodifluoromethane	45.1	µg/L	1	50.0	<0.672	90	24.2 - 131
Chloromethane (methyl chloride)	41.0	µg/L	1	50.0	<0.542	82	69.6 - 118
Vinyl Chloride	41.9	µg/L	1	50.0	<0.516	84	80.8 - 107
Bromomethane (methyl bromide)	46.9	µg/L	1	50.0	<0.446	94	74.8 - 126
Chloroethane	42.9	µg/L	1	50.0	<0.656	86	74.6 - 124
Trichlorofluoromethane	48.4	µg/L	1	50.0	<0.538	97	66.8 - 115
Acetone	¹⁶ 54.6	µg/L	1	50.0	<1.10	109	15 - 80.4
Iodomethane (methyl iodide)	48.0	µg/L	1	50.0	<0.214	96	75.2 - 114
Carbon Disulfide	36.5	µg/L	1	50.0	<0.294	73	69 - 121
Acrylonitrile	43.3	µg/L	1	50.0	<0.442	87	69.6 - 135
2-Butanone (MEK)	¹⁷ 62.1	µg/L	1	50.0	<0.420	124	28.1 - 108
4-Methyl-2-pentanone (MIBK)	58.7	µg/L	1	50.0	<0.407	117	81.5 - 117
2-Hexanone	¹⁸ 73.5	µg/L	1	50.0	<0.486	147	44.6 - 122
trans 1,4-Dichloro-2-butene	48.4	µg/L	1	50.0	<0.463	97	48.3 - 128

continued ...

¹⁶Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •

¹⁷Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •

¹⁸Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethene	50.4	µg/L	1	50.0	<0.237	101	74.7 - 112
Methylene chloride	45.8	µg/L	1	50.0	<0.312	92	74.8 - 120
MTBE	36.9	µg/L	1	50.0	<0.318	74	73.5 - 125
trans-1,2-Dichloroethene	44.6	µg/L	1	50.0	<0.217	89	81.3 - 115
1,1-Dichloroethane	52.1	µg/L	1	50.0	6.25	92	76.8 - 122
cis-1,2-Dichloroethene	47.0	µg/L	1	50.0	<0.309	94	81 - 116
2,2-Dichloropropane	30.6	µg/L	1	50.0	<0.318	61	21.1 - 110
1,2-Dichloroethane (EDC)	47.2	µg/L	1	50.0	<0.292	94	73.6 - 125
Chloroform	48.3	µg/L	1	50.0	0.78	95	74 - 122
1,1,1-Trichloroethane	43.2	µg/L	1	50.0	1.63	83	73.4 - 119
1,1-Dichloropropene	47.5	µg/L	1	50.0	<0.286	95	73.8 - 119
Benzene	47.1	µg/L	1	50.0	<0.319	94	80.2 - 114
Carbon Tetrachloride	44.6	µg/L	1	50.0	<0.223	89	83.6 - 111
1,2-Dichloropropane	46.9	µg/L	1	50.0	<0.266	94	79.4 - 121
Trichloroethene (TCE)	50.7	µg/L	1	50.0	0.82	100	78.8 - 106
Dibromomethane (methylene bromide)	50.9	µg/L	1	50.0	<0.341	102	88 - 114
Bromodichloromethane	50.6	µg/L	1	50.0	<0.291	101	80.3 - 121
2-Chloroethyl vinyl ether	¹⁹ <0.293	µg/L	1	50.0	<0.293	0	79.4 - 121
cis-1,3-Dichloropropene	49.2	µg/L	1	50.0	<0.207	98	74.3 - 118
trans-1,3-Dichloropropene	50.4	µg/L	1	50.0	<0.293	101	69.2 - 121
Toluene	48.4	µg/L	1	50.0	<0.268	97	87.5 - 112
1,1,2-Trichloroethane	48.0	µg/L	1	50.0	<0.329	96	89.1 - 110
1,3-Dichloropropane	48.3	µg/L	1	50.0	<0.316	97	88.1 - 113
Dibromochloromethane	51.9	µg/L	1	50.0	<0.290	104	84 - 121
1,2-Dibromoethane (EDB)	51.1	µg/L	1	50.0	<0.229	102	89.1 - 111
Tetrachloroethene (PCE)	34.5	µg/L	1	50.0	<0.233	69	42.9 - 72.6
Chlorobenzene	48.8	µg/L	1	50.0	<0.276	98	75.2 - 114
1,1,1,2-Tetrachloroethane	50.3	µg/L	1	50.0	<0.226	101	87.7 - 113
Ethylbenzene	46.2	µg/L	1	50.0	<0.245	92	74.6 - 118
m,p-Xylene	93.4	µg/L	1	100	<0.517	93	72.9 - 120
Bromoform	55.5	µg/L	1	50.0	<0.175	111	79.2 - 135
Styrene	45.1	µg/L	1	50.0	<0.239	90	41.7 - 137
o-Xylene	46.9	µg/L	1	50.0	<0.247	94	74.1 - 123
1,1,2,2-Tetrachloroethane	51.5	µg/L	1	50.0	<0.223	103	80.7 - 131
2-Chlorotoluene	46.6	µg/L	1	50.0	<0.235	93	71.6 - 117
1,2,3-Trichloropropane	50.4	µg/L	1	50.0	<0.230	101	78.4 - 109
Isopropylbenzene	47.7	µg/L	1	50.0	<0.226	95	72.4 - 118
Bromobenzene	47.5	µg/L	1	50.0	<0.245	95	72.7 - 115
n-Propylbenzene	46.8	µg/L	1	50.0	<0.234	94	69.1 - 117
1,3,5-Trimethylbenzene	46.2	µg/L	1	50.0	<0.261	92	70.6 - 116
tert-Butylbenzene	47.4	µg/L	1	50.0	<0.281	95	77.1 - 113
1,2,4-Trimethylbenzene	46.0	µg/L	1	50.0	<0.285	92	76.5 - 118
1,4-Dichlorobenzene (para)	48.7	µg/L	1	50.0	<0.307	97	80.6 - 106
sec-Butylbenzene	45.9	µg/L	1	50.0	<0.312	92	74 - 113
1,3-Dichlorobenzene (meta)	49.1	µg/L	1	50.0	<0.284	98	81.4 - 109
p-Isopropyltoluene	46.8	µg/L	1	50.0	<0.244	94	74.6 - 114
4-Chlorotoluene	47.4	µg/L	1	50.0	<0.257	95	71.3 - 117
1,2-Dichlorobenzene (ortho)	49.7	µg/L	1	50.0	<0.294	99	87 - 104
n-Butylbenzene	46.1	µg/L	1	50.0	<0.339	92	65.7 - 115

continued ...

¹⁹Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. •

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,2-Dibromo-3-chloropropane	43.3	µg/L	1	50.0	3.14	80	45.5 - 132
1,2,3-Trichlorobenzene	34.6	µg/L	1	50.0	<0.736	69	10 - 200
1,2,4-Trichlorobenzene	41.6	µg/L	1	50.0	<0.432	83	26.5 - 139
Naphthalene	37.9	µg/L	1	50.0	<0.475	76	10 - 203
Hexachlorobutadiene	43.4	µg/L	1	50.0	<1.02	87	50.9 - 108

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
Bromochloromethane	51.1	µg/L	1	50.0	<0.197	102	82.3 - 118	3	20
Dichlorodifluoromethane	44.0	µg/L	1	50.0	<0.672	88	24.2 - 131	2	20
Chloromethane (methyl chloride)	42.6	µg/L	1	50.0	<0.542	85	69.6 - 118	4	20
Vinyl Chloride	42.0	µg/L	1	50.0	<0.516	84	80.8 - 107	0	20
Bromomethane (methyl bromide)	47.5	µg/L	1	50.0	<0.446	95	74.8 - 126	1	20
Chloroethane	45.2	µg/L	1	50.0	<0.656	90	74.6 - 124	5	20
Trichlorofluoromethane	48.4	µg/L	1	50.0	<0.538	97	66.8 - 115	0	20
Acetone	53.1	µg/L	1	50.0	<1.10	106	15 - 80.4	3	20
Iodomethane (methyl iodide)	48.8	µg/L	1	50.0	<0.214	98	75.2 - 114	2	20
Carbon Disulfide	34.4	µg/L	1	50.0	<0.294	69	69 - 121	6	20
Acrylonitrile	45.2	µg/L	1	50.0	<0.442	90	69.6 - 135	4	20
2-Butanone (MEK)	61.8	µg/L	1	50.0	<0.420	124	28.1 - 108	0	20
4-Methyl-2-pentanone (MIBK)	60.7	µg/L	1	50.0	<0.407	121	81.5 - 117	3	20
2-Hexanone	76.5	µg/L	1	50.0	<0.486	153	44.6 - 122	4	20
trans 1,4-Dichloro-2-butene	48.9	µg/L	1	50.0	<0.463	98	48.3 - 128	1	20
1,1-Dichloroethene	52.0	µg/L	1	50.0	<0.237	104	74.7 - 112	3	20
Methylene chloride	46.8	µg/L	1	50.0	<0.312	94	74.8 - 120	2	20
MTBE	39.2	µg/L	1	50.0	<0.318	78	73.5 - 125	6	20
trans-1,2-Dichloroethene	45.3	µg/L	1	50.0	<0.217	91	81.3 - 115	2	20
1,1-Dichloroethane	54.1	µg/L	1	50.0	6.25	96	76.8 - 122	4	20
cis-1,2-Dichloroethene	48.8	µg/L	1	50.0	<0.309	98	81 - 116	4	20
2,2-Dichloropropane	31.2	µg/L	1	50.0	<0.318	62	21.1 - 110	2	20
1,2-Dichloroethane (EDC)	48.2	µg/L	1	50.0	<0.292	96	73.6 - 125	2	20
Chloroform	48.4	µg/L	1	50.0	0.78	95	74 - 122	0	20
1,1,1-Trichloroethane	44.1	µg/L	1	50.0	1.63	85	73.4 - 119	2	20
1,1-Dichloropropene	47.6	µg/L	1	50.0	<0.286	95	73.8 - 119	0	20
Benzene	47.4	µg/L	1	50.0	<0.319	95	80.2 - 114	1	20
Carbon Tetrachloride	44.4	µg/L	1	50.0	<0.223	89	83.6 - 111	0	20
1,2-Dichloropropane	47.3	µg/L	1	50.0	<0.266	95	79.4 - 121	1	20
Trichloroethene (TCE)	50.2	µg/L	1	50.0	0.82	99	78.8 - 106	1	20
Dibromomethane (methylene bromide)	50.3	µg/L	1	50.0	<0.341	101	88 - 114	1	20
Bromodichloromethane	49.8	µg/L	1	50.0	<0.291	100	80.3 - 121	2	20
2-Chloroethyl vinyl ether	<0.293	µg/L	1	50.0	<0.293	0	79.4 - 121	0	20
cis-1,3-Dichloropropene	48.2	µg/L	1	50.0	<0.207	96	74.3 - 118	2	20
trans-1,3-Dichloropropene	49.2	µg/L	1	50.0	<0.293	98	69.2 - 121	2	20
Toluene	47.7	µg/L	1	50.0	<0.268	95	87.5 - 112	1	20
1,1,2-Trichloroethane	49.3	µg/L	1	50.0	<0.329	99	89.1 - 110	3	20

continued ...

²⁰Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •²¹Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •²²Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •²³Matrix spike recovery outside control limits. Majority of recoveries within limits showing analysis to be in control. RPD within limits. •²⁴Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. •

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,3-Dichloropropane	49.9	µg/L	1	50.0	<0.316	100	88.1 - 113	3	20
Dibromochloromethane	52.9	µg/L	1	50.0	<0.290	106	84 - 121	2	20
1,2-Dibromoethane (EDB)	52.7	µg/L	1	50.0	<0.229	105	89.1 - 111	3	20
Tetrachloroethene (PCE)	35.6	µg/L	1	50.0	<0.233	71	42.9 - 72.6	3	20
Chlorobenzene	49.8	µg/L	1	50.0	<0.276	100	75.2 - 114	2	20
1,1,1,2-Tetrachloroethane	50.4	µg/L	1	50.0	<0.226	101	87.7 - 113	0	20
Ethylbenzene	47.3	µg/L	1	50.0	<0.245	95	74.6 - 118	2	20
m,p-Xylene	94.7	µg/L	1	100	<0.517	95	72.9 - 120	1	20
Bromoform	56.3	µg/L	1	50.0	<0.175	113	79.2 - 135	1	20
Styrene	45.2	µg/L	1	50.0	<0.239	90	41.7 - 137	0	20
o-Xylene	47.9	µg/L	1	50.0	<0.247	96	74.1 - 123	2	20
1,1,2,2-Tetrachloroethane	52.5	µg/L	1	50.0	<0.223	105	80.7 - 131	2	20
2-Chlorotoluene	48.2	µg/L	1	50.0	<0.235	96	71.6 - 117	3	20
1,2,3-Trichloropropane	52.0	µg/L	1	50.0	<0.230	104	78.4 - 109	3	20
Isopropylbenzene	49.4	µg/L	1	50.0	<0.226	99	72.4 - 118	4	20
Bromobenzene	49.0	µg/L	1	50.0	<0.245	98	72.7 - 115	3	20
n-Propylbenzene	48.5	µg/L	1	50.0	<0.234	97	69.1 - 117	4	20
1,3,5-Trimethylbenzene	48.0	µg/L	1	50.0	<0.261	96	70.6 - 116	4	20
tert-Butylbenzene	48.5	µg/L	1	50.0	<0.281	97	77.1 - 113	2	20
1,2,4-Trimethylbenzene	47.4	µg/L	1	50.0	<0.285	95	76.5 - 118	3	20
1,4-Dichlorobenzene (para)	50.7	µg/L	1	50.0	<0.307	101	80.6 - 106	4	20
sec-Butylbenzene	48.0	µg/L	1	50.0	<0.312	96	74 - 113	4	20
1,3-Dichlorobenzene (meta)	50.7	µg/L	1	50.0	<0.284	101	81.4 - 109	3	20
p-Isopropyltoluene	48.8	µg/L	1	50.0	<0.244	98	74.6 - 114	4	20
4-Chlorotoluene	49.5	µg/L	1	50.0	<0.257	99	71.3 - 117	4	20
1,2-Dichlorobenzene (ortho)	51.0	µg/L	1	50.0	<0.294	102	87 - 104	3	20
n-Butylbenzene	48.8	µg/L	1	50.0	<0.339	98	65.7 - 115	6	20
1,2-Dibromo-3-chloropropane	48.9	µg/L	1	50.0	3.14	92	45.5 - 132	12	20
1,2,3-Trichlorobenzene	43.9	µg/L	1	50.0	<0.736	88	10 - 200	24	20
1,2,4-Trichlorobenzene	47.5	µg/L	1	50.0	<0.432	95	26.5 - 139	13	20
Naphthalene	45.6	µg/L	1	50.0	<0.475	91	10 - 203	18	20
Hexachlorobutadiene	47.4	µg/L	1	50.0	<1.02	95	50.9 - 108	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
Dibromofluoromethane	49.9	49.7	µg/L	1	50	100	99	91.5 - 112
Toluene-d8	47.8	48.0	µg/L	1	50	96	96	90.6 - 105
4-Bromofluorobenzene (4-BFB)	48.7	48.7	µg/L	1	50	97	97	88.7 - 112

Matrix Spike (MS-1) Spiked Sample: 155151

QC Batch: 47167
Prep Batch: 40563

Date Analyzed: 2008-04-02
QC Preparation: 2008-04-02

Analyzed By: ER
Prepared By: ER

continued ...

²⁵RPD outside control limits. Use LCS/LCSD to show analysis is under control. •

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Surfactants	0.920	MBAS mg/L	1	1.00	0.065	86	10 - 168

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
Surfactants	0.876	MBAS mg/L	1	1.00	0.065	81	10 - 168	5	20

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

Matrix Spike (MS-1) Spiked Sample: 155146

QC Batch: 47227
Prep Batch: 40584

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-08

Analyzed By: TP
Prepared By: TP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.00109	mg/L	1	0.00100	<0.0000251	109	75 - 125

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
Total Mercury	0.00108	mg/L	1	0.00100	<0.0000251	108	75 - 125	1	20

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

Matrix Spike (MS-1) Spiked Sample: 155151

QC Batch: 47550
Prep Batch: 40886

Date Analyzed: 2008-04-08
QC Preparation: 2008-04-07

Analyzed By: BP
Prepared By: BP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Free Cyanide	0.0520	mg/L	1	0.0500	<0.00500	104	80 - 120

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
Free Cyanide	0.0480	mg/L	1	0.0500	<0.00500	96	80 - 120	8	20

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

Standard (ICV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	13.4	107	90 - 110	2008-04-01

Standard (ICV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.34	94	90 - 110	2008-04-01

Standard (ICV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrite-N		mg/L	2.50	2.70	108	90 - 110	2008-04-01

Standard (ICV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.71	108	90 - 110	2008-04-01

Standard (ICV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	13.6	109	90 - 110	2008-04-01

Standard (CCV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	13.3	106	90 - 110	2008-04-01

Standard (CCV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.66	106	90 - 110	2008-04-01

Standard (CCV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrite-N		mg/L	2.50	2.66	106	90 - 110	2008-04-01

Standard (CCV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.67	107	90 - 110	2008-04-01

Standard (CCV-1)

QC Batch: 47026

Date Analyzed: 2008-04-01

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	13.4	107	90 - 110	2008-04-01

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.125	100	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		mg/L	1.00	0.985	98	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1.00	0.997	100	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Barium		mg/L	1.00	1.02	102	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Beryllium		mg/L	1.00	0.972	97	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cadmium		mg/L	1.00	1.03	103	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Chromium		mg/L	1.00	1.01	101	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		mg/L	1.00	0.998	100	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		mg/L	1.00	0.998	100	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		mg/L	1.00	0.989	99	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Lead		mg/L	1.00	0.995	100	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Antimony		mg/L	1.00	0.984	98	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Selenium		mg/L	1.00	0.966	97	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Thallium		mg/L	1.00	1.00	100	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/L	1.00	0.995	100	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.130	104	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		mg/L	1.00	0.997	100	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1.00	1.00	100	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Barium		mg/L	1.00	1.03	103	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Beryllium		mg/L	1.00	1.00	100	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cadmium		mg/L	1.00	1.05	105	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Chromium		mg/L	1.00	1.02	102	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		mg/L	1.00	1.02	102	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		mg/L	1.00	1.02	102	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		mg/L	1.00	1.00	100	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Lead		mg/L	1.00	1.02	102	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Antimony		mg/L	1.00	1.00	100	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Selenium		mg/L	1.00	0.975	98	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Thallium		mg/L	1.00	1.02	102	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47095

Date Analyzed: 2008-04-04

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/L	1.00	1.01	101	90 - 110	2008-04-04

Standard (ICV-1)

QC Batch: 47119

Date Analyzed: 2008-04-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	979.0	98	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47119

Date Analyzed: 2008-04-04

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1001	100	90 - 110	2008-04-04

Standard (CCV-1)

QC Batch: 47140

Date Analyzed: 2008-04-04

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromochloromethane		µg/L	50.0	46.9	94	70 - 130	2008-04-04
Dichlorodifluoromethane		µg/L	50.0	46.8	94	70 - 130	2008-04-04
Chloromethane (methyl chloride)		µg/L	50.0	40.4	81	70 - 130	2008-04-04
Vinyl Chloride		µg/L	50.0	41.4	83	80 - 120	2008-04-04
Bromomethane (methyl bromide)		µg/L	50.0	45.3	91	70 - 130	2008-04-04
Chloroethane		µg/L	50.0	44.1	88	70 - 130	2008-04-04
Trichlorofluoromethane		µg/L	50.0	48.5	97	70 - 130	2008-04-04
Acetone	²⁶	µg/L	50.0	98.3	197	70 - 130	2008-04-04
Iodomethane (methyl iodide)		µg/L	50.0	46.3	93	70 - 130	2008-04-04
Carbon Disulfide		µg/L	50.0	38.8	78	70 - 130	2008-04-04
Acrylonitrile		µg/L	50.0	40.8	82	70 - 130	2008-04-04
2-Butanone (MEK)	²⁷	µg/L	50.0	82.1	164	70 - 130	2008-04-04
4-Methyl-2-pentanone (MIBK)		µg/L	50.0	49.0	98	70 - 130	2008-04-04

continued ...

²⁶ Acetone outside of control limits on CCV(ICV). CCV(ICV) component average is 95 which is within acceptable range. This is acceptable by Method 8000.

²⁷ 2-Butanone outside of control limits on CCV(ICV). CCV(ICV) component average is 95 which is within acceptable range. This is acceptable by Method 8000.

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
2-Hexanone	28	µg/L	50.0	82.4	165	70 - 130	2008-04-04
trans 1,4-Dichloro-2-butene		µg/L	50.0	46.4	93	70 - 130	2008-04-04
1,1-Dichloroethene		µg/L	50.0	48.1	96	80 - 120	2008-04-04
Methylene chloride		µg/L	50.0	43.6	87	70 - 130	2008-04-04
MTBE		µg/L	50.0	38.0	76	70 - 130	2008-04-04
trans-1,2-Dichloroethene		µg/L	50.0	44.9	90	70 - 130	2008-04-04
1,1-Dichloroethane		µg/L	50.0	44.0	88	70 - 130	2008-04-04
cis-1,2-Dichloroethene		µg/L	50.0	44.6	89	70 - 130	2008-04-04
2,2-Dichloropropane		µg/L	50.0	35.5	71	70 - 130	2008-04-04
1,2-Dichloroethane (EDC)		µg/L	50.0	45.2	90	70 - 130	2008-04-04
Chloroform		µg/L	50.0	45.8	92	80 - 120	2008-04-04
1,1,1-Trichloroethane		µg/L	50.0	40.8	82	70 - 130	2008-04-04
1,1-Dichloropropene		µg/L	50.0	45.7	91	70 - 130	2008-04-04
Benzene		µg/L	50.0	44.7	89	70 - 130	2008-04-04
Carbon Tetrachloride		µg/L	50.0	44.0	88	70 - 130	2008-04-04
1,2-Dichloropropane		µg/L	50.0	45.0	90	80 - 120	2008-04-04
Trichloroethene (TCE)		µg/L	50.0	47.5	95	70 - 130	2008-04-04
Dibromomethane (methylene bromide)		µg/L	50.0	47.4	95	70 - 130	2008-04-04
Bromodichloromethane		µg/L	50.0	47.4	95	70 - 130	2008-04-04
2-Chloroethyl vinyl ether		µg/L	50.0	46.0	92	70 - 130	2008-04-04
cis-1,3-Dichloropropene		µg/L	50.0	47.7	95	70 - 130	2008-04-04
trans-1,3-Dichloropropene		µg/L	50.0	48.8	98	70 - 130	2008-04-04
Toluene		µg/L	50.0	45.6	91	80 - 120	2008-04-04
1,1,2-Trichloroethane		µg/L	50.0	45.3	91	70 - 130	2008-04-04
1,3-Dichloropropane		µg/L	50.0	45.5	91	70 - 130	2008-04-04
Dibromochloromethane		µg/L	50.0	49.0	98	70 - 130	2008-04-04
1,2-Dibromoethane (EDB)		µg/L	50.0	47.9	96	70 - 130	2008-04-04
Tetrachloroethene (PCE)		µg/L	50.0	36.7	73	70 - 130	2008-04-04
Chlorobenzene		µg/L	50.0	46.7	93	80 - 120	2008-04-04
1,1,1,2-Tetrachloroethane		µg/L	50.0	47.9	96	70 - 130	2008-04-04
Ethylbenzene		µg/L	50.0	44.8	90	80 - 120	2008-04-04
m,p-Xylene		µg/L	100	90.1	90	70 - 130	2008-04-04
Bromoform		µg/L	50.0	51.4	103	70 - 130	2008-04-04
Styrene		µg/L	50.0	45.2	90	70 - 130	2008-04-04
o-Xylene		µg/L	50.0	45.5	91	70 - 130	2008-04-04
1,1,2,2-Tetrachloroethane		µg/L	50.0	47.8	96	70 - 130	2008-04-04
2-Chlorotoluene		µg/L	50.0	44.4	89	70 - 130	2008-04-04
1,2,3-Trichloropropane		µg/L	50.0	46.5	93	70 - 130	2008-04-04
Isopropylbenzene		µg/L	50.0	45.3	91	70 - 130	2008-04-04
Bromobenzene		µg/L	50.0	44.7	89	70 - 130	2008-04-04
n-Propylbenzene		µg/L	50.0	45.0	90	70 - 130	2008-04-04
1,3,5-Trimethylbenzene		µg/L	50.0	44.6	89	70 - 130	2008-04-04
tert-Butylbenzene		µg/L	50.0	45.6	91	70 - 130	2008-04-04
1,2,4-Trimethylbenzene		µg/L	50.0	44.9	90	70 - 130	2008-04-04
1,4-Dichlorobenzene (para)		µg/L	50.0	46.9	94	70 - 130	2008-04-04
sec-Butylbenzene		µg/L	50.0	45.2	90	70 - 130	2008-04-04
1,3-Dichlorobenzene (meta)		µg/L	50.0	47.1	94	70 - 130	2008-04-04

continued ...

²⁸2-Hexanone outside of control limits on CCV(ICV). CCV(ICV) component average is 95 which is within acceptable range. This is acceptable by Method 8000.

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
p-Isopropyltoluene		µg/L	50.0	46.5	93	70 - 130	2008-04-04
4-Chlorotoluene		µg/L	50.0	45.3	91	70 - 130	2008-04-04
1,2-Dichlorobenzene (ortho)		µg/L	50.0	47.2	94	70 - 130	2008-04-04
n-Butylbenzene		µg/L	50.0	47.1	94	70 - 130	2008-04-04
1,2-Dibromo-3-chloropropane		µg/L	50.0	40.5	81	70 - 130	2008-04-04
1,2,3-Trichlorobenzene		µg/L	50.0	41.1	82	70 - 130	2008-04-04
1,2,4-Trichlorobenzene		µg/L	50.0	43.1	86	70 - 130	2008-04-04
Naphthalene		µg/L	50.0	40.6	81	70 - 130	2008-04-04
Hexachlorobutadiene		µg/L	50.0	45.7	91	70 - 130	2008-04-04

Standard (ICV-1)

QC Batch: 47167

Date Analyzed: 2008-04-02

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Surfactants		MBAS mg/L	1.00	1.11	111	85 - 115	2008-04-02

Standard (CCV-1)

QC Batch: 47167

Date Analyzed: 2008-04-02

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Surfactants		MBAS mg/L	1.00	1.13	113	85 - 115	2008-04-02

Standard (ICV-1)

QC Batch: 47227

Date Analyzed: 2008-04-08

Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.000922	92	90 - 110	2008-04-08

Standard (CCV-1)

QC Batch: 47227

Date Analyzed: 2008-04-08

Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.00108	108	80 - 120	2008-04-08

Standard (CCV-1)

QC Batch: 47240

Date Analyzed: 2008-04-08

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	58.9	98	80 - 120	2008-04-08
2-Methylnaphthalene		mg/L	60.0	61.3	102	80 - 120	2008-04-08
1-Methylnaphthalene		mg/L	60.0	60.8	101	80 - 120	2008-04-08
Acenaphthylene		mg/L	60.0	57.4	96	80 - 120	2008-04-08
Acenaphthene		mg/L	60.0	58.0	97	80 - 120	2008-04-08
Dibenzofuran		mg/L	60.0	63.6	106	80 - 120	2008-04-08
Fluorene		mg/L	60.0	62.2	104	80 - 120	2008-04-08
Anthracene		mg/L	60.0	57.9	96	80 - 120	2008-04-08
Phenanthrene		mg/L	60.0	60.0	100	80 - 120	2008-04-08
Fluoranthene		mg/L	60.0	69.3	116	80 - 120	2008-04-08
Pyrene		mg/L	60.0	60.7	101	80 - 120	2008-04-08
Benzo(a)anthracene		mg/L	60.0	56.8	95	80 - 120	2008-04-08
Chrysene		mg/L	60.0	57.2	95	80 - 120	2008-04-08
Benzo(b)fluoranthene		mg/L	60.0	58.9	98	80 - 120	2008-04-08
Benzo(k)fluoranthene		mg/L	60.0	60.2	100	80 - 120	2008-04-08
Benzo(a)pyrene		mg/L	60.0	64.4	107	80 - 120	2008-04-08
Indeno(1,2,3-cd)pyrene	²⁹	mg/L	60.0	79.3	132	80 - 120	2008-04-08
Dibenzo(a,h)anthracene	³⁰	mg/L	60.0	80.6	134	80 - 120	2008-04-08
Benzo(g,h,i)perylene	³¹	mg/L	60.0	77.4	129	80 - 120	2008-04-08

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		71.5	mg/L	1	60.0	119	80 - 120
2-Fluorobiphenyl		70.1	mg/L	1	60.0	117	80 - 120
Terphenyl-d14		68.9	mg/L	1	60.0	115	80 - 120

Standard (ICV-1)

QC Batch: 47550

Date Analyzed: 2008-04-08

Analyzed By: BP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Free Cyanide		mg/L	0.100	0.108	108	90 - 110	2008-04-08

Standard (CCV-1)

QC Batch: 47550

Date Analyzed: 2008-04-08

Analyzed By: BP

²⁹Indeno(1,2,3-cd)pyrene outside of control limits on CCV(ICV). CCV(ICV) component average is 107% which is within acceptable range. This is acceptable by Method 8000.

³⁰Dibenzo(a,h)anthracene outside of control limits on CCV(ICV). CCV(ICV) component average is 107% which is within acceptable range. This is acceptable by Method 8000.

³¹Benzo(g,h,i)perylene outside of control limits on CCV(ICV). CCV(ICV) component average is 107% which is within acceptable range. This is acceptable by Method 8000.

Report Date: May 6, 2008
Plains047SPL

Work Order: 8033118
Hobbs Junction Mainline

Page Number: 50 of 50
Hobbs, NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Free Cyanide		mg/L	0.100	0.106	106	90 - 110	2008-04-08

SEC ✓	Manganese - Metals
SEC ✓	Odor - WC
SEC ✓	pH - WC
SEC ✓	Silver - Metals
SEC	Sulfate - WC
SEC ✓	Total Dissolved Solids - WC
SEC	Zinc - Metals
SQC	1,2-Dibromo-3-chloropropane (DBCP)
SOC	2,4,5-TP (Silvex)
SOC	2,4-D
SOC	Acrylamide
SOC	Alachlor
SOC	Atrazine
SOC	Benzo(a)pyrene (PAHs)
SOC	Carbofuran
SOC	Chlordane
SOC	Dalapon
SOC	Di(2-ethylhexyl) adipate
SOC	Di(2-ethylhexyl) phthalate
SOC	Dinoseb
SOC	Dioxin (2,3,7,8-TCDD)
SOC	Diquat
SOC	Endothall
SOC	Endrin
SOC	Epichlorohydrin
SOC	Ethylene dibromide
SOC	Glyphosate
SOC	Heptachlor
SOC	Heptachlor epoxide
SOC	Hexachlorobenzene
SOC	Hexachlorocyclopentadiene
SOC	Lindane
SOC	Methoxychlor
SOC	Oxamyl (Vydate)
SOC	Pentachlorophenol
SOC	Picloram
SOC	Polychlorinated biphenyls (PCBs)
SOC	Simazine
SOC	Toxaphene
VOC	1,1,1-Trichloroethane
VOC	1,1,2-Trichloroethane
VOC	1,1-Dichloroethylene
VOC	1,2,4-Trichlorobenzene
VOC	1,2-Dichloroethane
VOC	1,2-Dichloropropane
VOC	Benzene
VOC	Carbon tetrachloride
VOC	Chlorobenzene

Group	Contaminant
D	Chloramines (as Cl ₂)
D	Chlorine (as Cl ₂)
D	Chlorine dioxide (as ClO ₂)
DBP	Bromate
DBP	Chlorite
DBP	Halacetic acids (HAA5)
DBP	Total Trihalomethanes (TTHMs)
IOC	Antimony - Metals
IOC ✓	Arsenic - Metals
IOG	Asbestos (fibers > 10 micrometers)
IOC	Barium - Metals
IOC	Beryllium - Metals
IOC	Cadmium - Metals
IOC	Chromium (total) - Metals
IOC	Copper - Metals
IOC	Cyanide (as free cyanide) - WC
IOC	Fluoride - WC
IOC	Lead - Metals
IOC	Mercury (inorganic) - Metals
IOC	Nitrate (measured as Nitrogen) - WC
IOC	Nitrite (measured as Nitrogen) - WC
IOC	Selenium - Metals
IOC	Thallium - Metals
M	Cryptosporidium
M	Giardia lamblia
M	Heterotrophic plate count (HPC)
M	Legionella
M	Total Coliforms (including fecal coliform and E. coli)
M	Turbidity
M	Viruses (enteric)
RAD	Alpha particles
RAD	Beta particles and photon emitters
RAD	Radium 226 and Radium 228 (combined)
RAD	Uranium
SEC	Aluminum - Metals
SEC	Chloride - WC
SEC	Color - WC
SEC	Copper - Metals
SEC	Corrosivity - WC
SEC	Fluoride - WC
SEC	Foaming Agents - WC (Surfactants)
SEC	Iron - Metals

VOC

IOC

SEC

Benzo-a-pyrone

VOC	cis-1,2-Dichloroethylene
VOC	Dichloromethane
VOC	Ethylbenzene
VOC	o-Dichlorobenzene
VOC	p-Dichlorobenzene
VOC	Styrene
VOC	Tetrachloroethylene
VOC	Toluene
VOC	trans-1,2-Dichloroethylene
VOC	Trichloroethylene
VOC	Vinyl chloride
VOC	Xylenes (total)

LAB Order ID #

8033118

Page 1 of 1

TraceAnalysis, Inc.

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Company Name:

Talon/Pe

Address: (Street, City, Zip)

2901 Rader Hwy.

Contact Person:

Shana Smith

Invoice to:

(If different from above) PLAINS SRS# 2003-00017

Project #:

PLAINS0473PR

Project Location (including state):

Hobbs, NM

Phone #:

(432) 522-2133

Fax #:

E-mail:

SSmith@talonpe.com

Project Name:

Jaxxon Mainline

Sampler Signature:

Carl Yeasels

LAB #

LAB USE ONLY

FIELD CODE

CONTAINERS

Volume / Amount

WATER
SOIL
AIR
SLUDGE

MATRIX

PRESERVATIVE

SAMPLING

HCl
HNO₃
H₂SO₄
NaOH
ICE
NONEDATE
TIME

MTBE 8021B / 602 / 8260B / 624

BTEX 8021B / 602 / 8260B / 624

TPH 418.1 / TX1005 / TX1005 Ext(C35)

TPH 8015 GRO / DRO / TVHC

PAH 8270C / 625

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C / 625

PCB's 8082 / 608

Pesticides 8081A / 608

BOD, TSS, pH

Moisture Content

Net Chemistry
Benzof(a)pyrene

Turn Around Time if different from standard

Hold

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB #	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX	PRESERVATIVE	SAMPLING	DATE	TIME	LAB USE ONLY
15151	#4	3	Vol	X	X	X	3/31/08	1445	
	#4	1	Soil	X	X	X	3/31/08	1445	
	#4	2	liter	X	X	X	3/31/08	1445	
	#4	1	liter	X	X	X	3/31/08	1445	

Relinquished by: Company: Date: Time: Temp °C:

Received by: Company: Date: Time: Temp °C:

Relinquished by: Company: Date: Time: Temp °C:

Received by: Company: Date: Time: Temp °C:

Relinquished by: Company: Date: Time: Temp °C:

Received by: Company: Date: Time: Temp °C:

REMARKS:

* See Attached List for Analysis

(1 sample)

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting

Units Are Needed

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

Carrier # com-in

LS P80333921

SEC ✓	Manganese - Metals
SEC ✓	Odor - WC
SEC ✓	pH - WC
SEC ✓	Silver - Metals
SEC	Sulfate - WC
SEC ✓	Total Dissolved Solids - WC
SEC	Zinc - Metals
SOC	1,2-Dibromo-3-chloropropane (DBCP)
SOC	2,4,5-TP (Silvex)
SOC	2,4-D
SOC	Acrylamide
SOC	Alachlor
SOC	Atrazine
SOC	Benzo(a)pyrene (PAHs)
SOC	Carbofuran
SOC	Chlordane
SOC	Dalapon
SOC	Di(2-ethylhexyl) adipate
SOC	Di(2-ethylhexyl) phthalate
SOC	Dinoseb
SOC	Dioxin (2,3,7,8-TCDD)
SOC	Diquat
SOC	Endothall
SOC	Endrin
SOC	Epichlorohydrin
SOC	Ethylene dibromide
SOC	Glyphosate
SOC	Heptachlor
SOC	Heptachlor epoxide
SOC	Hexachlorobenzene
SOC	Hexachlorocyclopentadiene
SOC	Lindane
SOC	Methoxychlor
SOC	Oxamyl (Vydate)
SOC	Pentachlorophenol
SOC	Picloram
SOC	Polychlorinated biphenyls (PCBs)
SOC	Simazine
SOC	Toxaphene
VOC	1,1,1-Trichloroethane
VOC	1,1,2-Trichloroethane
VOC	1,1-Dichloroethylene
VOC	1,2,4-Trichlorobenzene
VOC	1,2-Dichloroethane
VOC	1,2-Dichloropropane
VOC	Benzene
VOC	Carbon tetrachloride
VOC	Chlorobenzene

VOC	cis-1,2-Dichloroethylene
VOC	Dichloromethane
VOC	Ethylbenzene
VOC	o-Dichlorobenzene
VOC	p-Dichlorobenzene
VOC	Styrene
VOC	Tetrachloroethylene
VOC	Toluene
VOC	trans-1,2-Dichloroethylene
VOC	Trichloroethylene
VOC	Vinyl chloride
VOC	Xylenes (total)

Group	Contaminant
D	Chloramines (as Cl ₂)
D	Chlorine (as Cl ₂)
D	Chlorine dioxide (as ClO ₂)
DBP	Bromate
DBP	Chlorite
DBP	Haloacetic acids (HAA5)
DBP	Total Trihalomethanes (TTHMs)
IOC	Antimony - Metals
IOC ✓	Arsenic - Metals
IOC	Asbestos (fibers > 10 micrometers)
IOC	Barium - Metals
IOC	Beryllium - Metals
IOC	Cadmium - Metals
IOC	Chromium (total) - Metals
IOC	Copper - Metals
IOC	Cyanide (as free cyanide) - WC
IOC	Fluoride - WC
IOC	Lead - Metals
IOC	Mercury (inorganic) - Metals
IOC	Nitrate (measured as Nitrogen) - WC
IOC	Nitrite (measured as Nitrogen) - WC
IOC	Selenium - Metals
IOC	Thallium - Metals
M	Cryptosporidium
M	Giardia lamblia
M	Heterotrophic plate count (HPC)
M	Legionella
M	Total Coliforms (including fecal coliform and E. coli)
M	Turbidity
M	Viruses (enteric)
RAD	Alpha particles
RAD	Beta particles and photon emitters
RAD	Radium 226 and Radium 228 (combined)
RAD	Uranium
SEC	Aluminum - Metals
SEC	Chloride - WC
SEC	Color - WC
SEC	Copper - Metals
SEC	Corrosivity - WC
SEC	Fluoride - WC
SEC	Foaming Agents - WC (Surfactants)
SEC	Iron - Metals

VOC

IOC

SEC

Benzo-a-pyrone



806-797-4325 P.O. BOX 64489 LUBBOCK, TX 79464-4489
806-669-6821 P.O. BOX 2439 PAMPA, TX 79066-2439

April 17, 2008

ANALYSIS OF WATER SAMPLE

For Trace Analysis, Inc.

Sample Date 3/31/08
Sampled By Trace or Designate
Analysis Dates 4/17/08
Analysis By Neil Ray

Lab # 9262
Sample Id. Water
Trace: 155151-12

Odor^(a)
(ASTM D 1292)

No detectable Odor

Color^(b)
(APHA 2120 C)

3 HU

Comments:

(a) - Analyses was conducted on four sample aliquots and one blank; dilutions prepared with deionized water, corresponding to odor thresholds of 1, 4, 17, & 70 respectively. No odor was collectively determined from a panel of three testers. Only an extremely subtle smoky odor was noted by one observer prior to dilution.

(b) - Sample date exceeds hold time of 24 hours

Analysis By: Neil Ray

Distribution:

Trace Analysis
1-Liz Givens; Lubbock, TX
1-FAX to Liz @ (806) 794-1298



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

NELAP Certifications

Lubbock T104704219-08-TX El Paso T104704221-08-TX Midland T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: July 8, 2008

Work Order: 8062306



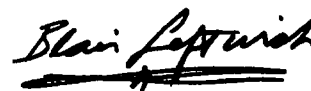
Project Location: Hobbs, NM
Project Name: Hobbs Junction Mainline
Project Number: PLAINS047SPL
SRS#: 2003-00017

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
164322	MW-10	water	2008-06-20	12:48	2008-06-20
164323	MW-16	water	2008-06-20	13:15	2008-06-20
164324	MW-18	water	2008-06-20	13:20	2008-06-20
164325	MW-19	water	2008-06-20	13:10	2008-06-20
164326	MW-20	water	2008-06-20	13:03	2008-06-20
164327	MW-21	water	2008-06-20	13:06	2008-06-20
164328	MW-22	water	2008-06-20	13:00	2008-06-20
164329	MW-23	water	2008-06-20	13:33	2008-06-20
164330	MW-24	water	2008-06-20	13:41	2008-06-20
164642	MW-23	water	2008-06-25	10:39	2008-06-20
164643	MW-24	water	2008-06-25	10:25	2008-06-20

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

This report consists of a total of 42 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich", with a horizontal line drawn underneath it.

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Hobbs Junction Mainline were received by TraceAnalysis, Inc. on 2008-06-20 and assigned to work order 8062306. Samples for work order 8062306 were received intact without headspace and at a temperature of 3.7 deg C.

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

Test	Method
Ag, Total	S 6010B
Alkalinity	SM 2320B
Al, Total	S 6010B
As, Total	S 6010B
Ba, Total	S 6010B
BTEX	S 8021B
B, Total	S 6010B
Ca, Dissolved	S 6010B
Cd, Total	S 6010B
Chloride (IC)	E 300.0
Co, Total	S 6010B
Cr, Total	S 6010B
Cu, Total	S 6010B
Fe, Total	S 6010B
Fluoride (IC)	E 300.0
Hg, Total	S 7470A
K, Dissolved	S 6010B
Mg, Dissolved	S 6010B
Mn, Total	S 6010B
Mo, Total	S 6010B
Na, Dissolved	S 6010B
Ni, Total	S 6010B
NO3 (IC)	E 300.0
Pb, Total	S 6010B
PO4 (IC)	E 300.0
Se, Total	S 6010B
SO4 (IC)	E 300.0
Zn, Total	S 6010B

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 8062306 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: July 8, 2008
PLAINS047SPL

Work Order: 8062306
Hobbs Junction Mainline

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Hobbs, NM

Analytical Report

Sample: 164322 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 49786
Prep Batch: 42696

Analytical Method: S 8021B
Date Analyzed: 2008-06-26
Sample Preparation: 2008-06-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		3.25	mg/L	200	0.00100
Toluene		<0.200	mg/L	200	0.00100
Ethylbenzene		0.272	mg/L	200	0.00100
Xylene		<0.200	mg/L	200	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		20.4	mg/L	200	20.0	102	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		20.0	mg/L	200	20.0	100	52 - 124.1

Sample: 164323 - MW-16

Laboratory: Midland
Analysis: BTEX
QC Batch: 49786
Prep Batch: 42696

Analytical Method: S 8021B
Date Analyzed: 2008-06-26
Sample Preparation: 2008-06-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0984	mg/L	1	0.100	98	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0974	mg/L	1	0.100	97	52 - 124.1

Sample: 164324 - MW-18

Laboratory: Midland
Analysis: BTEX
QC Batch: 49700
Prep Batch: 42680

Analytical Method: S 8021B
Date Analyzed: 2008-06-24
Sample Preparation: 2008-06-24

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

Report Date: July 8, 2008
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Hobbs Junction Mainline

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00290	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)		0.0964	mg/L	1	0.100	96	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0960	mg/L	1	0.100	96	52 - 124.1

Sample: 164325 - MW-19

Laboratory: Midland

Analysis: BTEX

QC Batch: 49700

Prep Batch: 42680

Analytical Method: S 8021B

Date Analyzed: 2008-06-24

Sample Preparation: 2008-06-24

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0938	mg/L	1	0.100	94	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0934	mg/L	1	0.100	93	52 - 124.1

Sample: 164326 - MW-20

Laboratory: Midland

Analysis: BTEX

QC Batch: 49786

Prep Batch: 42696

Analytical Method: S 8021B

Date Analyzed: 2008-06-26

Sample Preparation: 2008-06-25

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		30.7	mg/L	200	0.00100
Toluene		<0.200	mg/L	200	0.00100
Ethylbenzene		1.61	mg/L	200	0.00100
Xylene		0.278	mg/L	200	0.00100

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Hobbs Junction Mainline

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Hobbs, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		19.8	mg/L	200	20.0	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		19.4	mg/L	200	20.0	97	52 - 124.1

Sample: 164327 - MW-21

Laboratory: Midland

Analysis: BTEX

QC Batch: 49700

Prep Batch: 42680

Analytical Method: S 8021B

Date Analyzed: 2008-06-24

Sample Preparation: 2008-06-24

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0511	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)		0.0969	mg/L	1	0.100	97	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.113	mg/L	1	0.100	113	52 - 124.1

Sample: 164328 - MW-22

Laboratory: Midland

Analysis: BTEX

QC Batch: 49700

Prep Batch: 42680

Analytical Method: S 8021B

Date Analyzed: 2008-06-24

Sample Preparation: 2008-06-24

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00450	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)		0.0913	mg/L	1	0.100	91	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0923	mg/L	1	0.100	92	52 - 124.1

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Hobbs Junction Mainline

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Hobbs, NM

Sample: 164329 - MW-23

Laboratory: Lubbock
Analysis: Al, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Aluminum		5.49	mg/L	1	0.0500

Sample: 164329 - MW-23

Laboratory: Midland
Analysis: Alkalinity
QC Batch: 49670
Prep Batch: 42658

Analytical Method: SM 2320B
Date Analyzed: 2008-06-23
Sample Preparation: 2008-06-23

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

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		198	mg/L as CaCo3	1	4.00
Total Alkalinity		198	mg/L as CaCo3	1	4.00

Sample: 164329 - MW-23

Laboratory: Lubbock
Analysis: B, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Boron		0.229	mg/L	1	0.00500

Sample: 164329 - MW-23

Laboratory: Midland
Analysis: BTEX
QC Batch: 49700
Prep Batch: 42680

Analytical Method: S 8021B
Date Analyzed: 2008-06-24
Sample Preparation: 2008-06-24

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

Report Date: July 8, 2008
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Hobbs Junction Mainline

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Hobbs, NM

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0975	mg/L	1	0.100	98	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0969	mg/L	1	0.100	97	52 - 124.1

Sample: 164329 - MW-23

Laboratory: Lubbock
Analysis: Cations
QC Batch: 49789
Prep Batch: 42734

Analytical Method: S 6010B
Date Analyzed: 2008-06-26
Sample Preparation: 2008-06-26

Prep Method: S 3005A
Analyzed By: TP
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		107	mg/L	1	1.00
Dissolved Potassium	<i>B</i>	5.01	mg/L	1	1.00
Dissolved Magnesium		19.1	mg/L	1	1.00
Dissolved Sodium		61.3	mg/L	1	1.00

Sample: 164329 - MW-23

Laboratory: Lubbock
Analysis: Co, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Cobalt		<0.00200	mg/L	1	0.00200

Sample: 164329 - MW-23

Laboratory: Lubbock
Analysis: Cu, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Report Date: July 8, 2008
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Hobbs, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Total Copper		<0.00500	mg/L	1	0.00500

Sample: 164329 - MW-23

Laboratory: Lubbock
Analysis: Fe, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Iron		3.35	mg/L	1	0.0100

Sample: 164329 - MW-23

Laboratory: Midland
Analysis: Ion Chromatography
QC Batch: 49668
Prep Batch: 42656
QC Batch: 49865
Prep Batch: 42806

Analytical Method: E 300.0
Date Analyzed: 2008-07-08
Sample Preparation: 2008-07-08
Date Analyzed: 2008-06-30
Sample Preparation: 2008-06-27

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		87.6	mg/L	5	0.500
Fluoride		2.72	mg/L	5	0.200
PO4-P		<2.50	mg/L	5	0.500
Sulfate		158	mg/L	5	0.500

Sample: 164329 - MW-23

Laboratory: Lubbock
Analysis: Mn, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Manganese		0.0430	mg/L	1	0.00250

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Hobbs Junction Mainline

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Hobbs, NM

Sample: 164329 - MW-23

Laboratory: Lubbock
Analysis: Mo, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Molybdenum		<0.0100	mg/L	1	0.0100

Sample: 164329 - MW-23

Laboratory: Lubbock
Analysis: Ni, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Nickel		0.00600	mg/L	1	0.00500

Sample: 164329 - MW-23

Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 49710
Prep Batch: 42662
Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 49781
Prep Batch: 42727

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25
Analytical Method: S 7470A
Date Analyzed: 2008-06-26
Sample Preparation: 2008-06-26

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV
Prep Method: N/A
Analyzed By: TP
Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.00500	mg/L	1	0.00500
Total Arsenic		<0.00500	mg/L	1	0.00500
Total Barium		0.167	mg/L	1	0.00100
Total Cadmium		<0.00100	mg/L	1	0.00100
Total Chromium		0.0110	mg/L	1	0.00100
Total Mercury		<0.000200	mg/L	1	0.000200
Total Lead		<0.00500	mg/L	1	0.00500
Total Selenium		<0.0100	mg/L	1	0.0100

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PLAINS047SPL

Work Order: 8062306
Hobbs Junction Mainline

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Sample: 164329 - MW-23

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc		0.0710	mg/L	1	0.00700

Sample: 164330 - MW-24

Laboratory: Lubbock
Analysis: Al, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Aluminum		4.19	mg/L	1	0.0500

Sample: 164330 - MW-24

Laboratory: Midland
Analysis: Alkalinity
QC Batch: 49670
Prep Batch: 42658

Analytical Method: SM 2320B
Date Analyzed: 2008-06-23
Sample Preparation: 2008-06-23

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

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		238	mg/L as CaCo3	1	4.00
Total Alkalinity		238	mg/L as CaCo3	1	4.00

Sample: 164330 - MW-24

Laboratory: Lubbock
Analysis: B, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Report Date: July 8, 2008
PLAINS047SPL

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Hobbs Junction Mainline

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Hobbs, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Total Boron		0.365	mg/L	1	0.00500

Sample: 164330 - MW-24

Laboratory: Midland
Analysis: BTEX
QC Batch: 49700
Prep Batch: 42680

Analytical Method: S 8021B
Date Analyzed: 2008-06-24
Sample Preparation: 2008-06-24

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0941	mg/L	1	0.100	94	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0940	mg/L	1	0.100	94	52 - 124.1

Sample: 164330 - MW-24

Laboratory: Lubbock
Analysis: Cations
QC Batch: 49789
Prep Batch: 42734

Analytical Method: S 6010B
Date Analyzed: 2008-06-26
Sample Preparation: 2008-06-26

Prep Method: S 3005A
Analyzed By: TP
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		55.7	mg/L	1	1.00
Dissolved Potassium	B	3.89	mg/L	1	1.00
Dissolved Magnesium		10.7	mg/L	1	1.00
Dissolved Sodium		134	mg/L	10	1.00

Sample: 164330 - MW-24

Laboratory: Lubbock
Analysis: Co, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Report Date: July 8, 2008
PLAINS047SPL

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Hobbs Junction Mainline

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Hobbs, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Total Cobalt		<0.00200	mg/L	1	0.00200

Sample: 164330 - MW-24

Laboratory: Lubbock
Analysis: Cu, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 49710 Date Analyzed: 2008-06-25 Analyzed By: RR
Prep Batch: 42662 Sample Preparation: 2008-06-25 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Copper		<0.00500	mg/L	1	0.00500

Sample: 164330 - MW-24

Laboratory: Lubbock
Analysis: Fe, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 49710 Date Analyzed: 2008-06-25 Analyzed By: RR
Prep Batch: 42662 Sample Preparation: 2008-06-25 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Iron		2.39	mg/L	1	0.0100

Sample: 164330 - MW-24

Laboratory: Midland
Analysis: Ion Chromatography Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 49668 Date Analyzed: 2008-07-08 Analyzed By: AR
Prep Batch: 42656 Sample Preparation: 2008-07-08 Prepared By: AR
QC Batch: 49865 Date Analyzed: 2008-06-30 Analyzed By: AR
Prep Batch: 42806 Sample Preparation: 2008-06-27 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		58.7	mg/L	5	0.500
Fluoride		2.71	mg/L	5	0.200
PO4-P		<2.50	mg/L	5	0.500
Sulfate		154	mg/L	5	0.500

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Sample: 164330 - MW-24

Laboratory: Lubbock
Analysis: Mn, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Manganese		0.0280	mg/L	1	0.00250

Sample: 164330 - MW-24

Laboratory: Lubbock
Analysis: Mo, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Molybdenum		<0.0100	mg/L	1	0.0100

Sample: 164330 - MW-24

Laboratory: Lubbock
Analysis: Ni, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Nickel		<0.00500	mg/L	1	0.00500

Sample: 164330 - MW-24

Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 49710
Prep Batch: 42662
Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 49781
Prep Batch: 42727

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Analytical Method: S 7470A
Date Analyzed: 2008-06-26
Sample Preparation: 2008-06-26

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

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Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.00500	mg/L	1	0.00500
Total Arsenic		<0.00500	mg/L	1	0.00500
Total Barium		0.0760	mg/L	1	0.00100
Total Cadmium		<0.00100	mg/L	1	0.00100
Total Chromium		<0.00100	mg/L	1	0.00100
Total Mercury		<0.000200	mg/L	1	0.000200
Total Lead		<0.00500	mg/L	1	0.00500
Total Selenium		<0.0100	mg/L	1	0.0100

Sample: 164330 - MW-24

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 49710
Prep Batch: 42662

Analytical Method: S 6010B
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

Prep Method: S 3010A
Analyzed By: RR
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Total Zinc		0.0200	mg/L	1	0.00700

Sample: 164642 - MW-23

Laboratory: Midland
Analysis: NO3 (IC)
QC Batch: 49741
Prep Batch: 42707

Analytical Method: E 300.0
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		3.70	mg/L	5	0.200

Sample: 164643 - MW-24

Laboratory: Midland
Analysis: NO3 (IC)
QC Batch: 49741
Prep Batch: 42707

Analytical Method: E 300.0
Date Analyzed: 2008-06-25
Sample Preparation: 2008-06-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		5.27	mg/L	5	0.200

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Method Blank (1) QC Batch: 49668

QC Batch: 49668
Prep Batch: 42656

Date Analyzed: 2008-07-08
QC Preparation: 2008-07-08

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.0181	mg/L	0.5
PO4-P		<0.0618	mg/L	0.5
Sulfate		<0.0485	mg/L	0.5

Method Blank (1) QC Batch: 49670

QC Batch: 49670
Prep Batch: 42658

Date Analyzed: 2008-06-23
QC Preparation: 2008-06-23

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.00	mg/L as CaCo3	4
Total Alkalinity		<4.00	mg/L as CaCo3	4

Method Blank (1) QC Batch: 49700

QC Batch: 49700
Prep Batch: 42680

Date Analyzed: 2008-06-24
QC Preparation: 2008-06-24

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000200	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000300	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0993	mg/L	1	0.100	99	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0984	mg/L	1	0.100	98	37.1 - 130.9

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Method Blank (1) QC Batch: 49710

QC Batch: 49710 Date Analyzed: 2008-06-25 Analyzed By: RR
Prep Batch: 42662 QC Preparation: 2008-06-24 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Aluminum		<0.0228	mg/L	0.05

Method Blank (1) QC Batch: 49710

QC Batch: 49710 Date Analyzed: 2008-06-25 Analyzed By: RR
Prep Batch: 42662 QC Preparation: 2008-06-24 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Boron		<0.00440	mg/L	0.005

Method Blank (1) QC Batch: 49710

QC Batch: 49710 Date Analyzed: 2008-06-25 Analyzed By: RR
Prep Batch: 42662 QC Preparation: 2008-06-24 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Cobalt		<0.00220	mg/L	0.002

Method Blank (1) QC Batch: 49710

QC Batch: 49710 Date Analyzed: 2008-06-25 Analyzed By: RR
Prep Batch: 42662 QC Preparation: 2008-06-24 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Copper		<0.00140	mg/L	0.005

Method Blank (1) QC Batch: 49710

QC Batch: 49710 Date Analyzed: 2008-06-25 Analyzed By: RR
Prep Batch: 42662 QC Preparation: 2008-06-24 Prepared By: KV

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Parameter	Flag	MDL Result	Units	RL
Total Iron		<0.00690	mg/L	0.01

Method Blank (1) QC Batch: 49710

QC Batch: 49710 Date Analyzed: 2008-06-25 Analyzed By: RR
Prep Batch: 42662 QC Preparation: 2008-06-24 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Manganese		<0.000600	mg/L	0.0025

Method Blank (1) QC Batch: 49710

QC Batch: 49710 Date Analyzed: 2008-06-25 Analyzed By: RR
Prep Batch: 42662 QC Preparation: 2008-06-24 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Molybdenum		<0.00790	mg/L	0.01

Method Blank (1) QC Batch: 49710

QC Batch: 49710 Date Analyzed: 2008-06-25 Analyzed By: RR
Prep Batch: 42662 QC Preparation: 2008-06-24 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Nickel		<0.00190	mg/L	0.005

Method Blank (1) QC Batch: 49710

QC Batch: 49710 Date Analyzed: 2008-06-25 Analyzed By: RR
Prep Batch: 42662 QC Preparation: 2008-06-24 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Zinc		<0.00710	mg/L	0.007

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Method Blank (1) QC Batch: 49710

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Total Silver		<0.00210	mg/L	0.005
Total Arsenic		<0.00430	mg/L	0.005
Total Barium		<0.00170	mg/L	0.001
Total Cadmium		<0.00140	mg/L	0.001
Total Chromium		<0.000900	mg/L	0.001
Total Lead		<0.00320	mg/L	0.005
Total Selenium		<0.0131	mg/L	0.01

Method Blank (1) QC Batch: 49741

QC Batch: 49741
Prep Batch: 42707

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-25

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Nitrate-N		<0.0106	mg/L	0.2

Method Blank (1) QC Batch: 49781

QC Batch: 49781
Prep Batch: 42727

Date Analyzed: 2008-06-26
QC Preparation: 2008-06-26

Analyzed By: TP
Prepared By: TP

Parameter	Flag	MDL Result	Units	RL
Total Mercury		<0.0000251	mg/L	0.0002

Method Blank (1) QC Batch: 49786

QC Batch: 49786
Prep Batch: 42696

Date Analyzed: 2008-06-26
QC Preparation: 2008-06-25

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000200	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001

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method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Xylene		<0.000300	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0891	mg/L	1	0.100	89	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0886	mg/L	1	0.100	89	37.1 - 130.9

Method Blank (1) QC Batch: 49789

QC Batch: 49789
Prep Batch: 42734

Date Analyzed: 2008-06-26
QC Preparation: 2008-06-26

Analyzed By: TP
Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Dissolved Calcium		<0.175	mg/L	1
Dissolved Potassium		1.18	mg/L	1
Dissolved Magnesium		0.195	mg/L	1
Dissolved Sodium		0.385	mg/L	1

Method Blank (1) QC Batch: 49865

QC Batch: 49865
Prep Batch: 42806

Date Analyzed: 2008-06-30
QC Preparation: 2008-06-27

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Fluoride		<0.0119	mg/L	0.2

Duplicates (1)

QC Batch: 49670
Prep Batch: 42658

Date Analyzed: 2008-06-23
QC Preparation: 2008-06-23

Analyzed By: AR
Prepared By: AR

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	46.0	<1.00	mg/L as CaCo3	1	200	20
Bicarbonate Alkalinity	170	238	mg/L as CaCo3	1	33	20
Total Alkalinity	216	238	mg/L as CaCo3	1	10	20

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Laboratory Control Spike (LCS-1)

QC Batch: 49668
Prep Batch: 42656

Date Analyzed: 2008-07-08
QC Preparation: 2008-07-08

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.1	mg/L	1	12.5	<0.0181	97	90 - 110
PO4-P	11.8	mg/L	1	12.5	<0.0618	94	90 - 110
Sulfate	12.0	mg/L	1	12.5	<0.0485	96	90 - 110

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
Chloride	12.1	mg/L	1	12.5	<0.0181	97	90 - 110	0	
PO4-P	11.9	mg/L	1	12.5	<0.0618	95	90 - 110	1	
Sulfate	11.9	mg/L	1	12.5	<0.0485	95	90 - 110	1	

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

Laboratory Control Spike (LCS-1)

QC Batch: 49700
Prep Batch: 42680

Date Analyzed: 2008-06-24
QC Preparation: 2008-06-24

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.102	mg/L	1	0.100	<0.000200	102	71.7 - 120.5
Toluene	0.0995	mg/L	1	0.100	<0.000200	100	75.4 - 118.8
Ethylbenzene	0.0948	mg/L	1	0.100	<0.000200	95	73.5 - 118
Xylene	0.285	mg/L	1	0.300	<0.000300	95	72.9 - 118.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.101	mg/L	1	0.100	<0.000200	101	71.7 - 120.5	1	20
Toluene	0.101	mg/L	1	0.100	<0.000200	101	75.4 - 118.8	2	20
Ethylbenzene	0.101	mg/L	1	0.100	<0.000200	101	73.5 - 118	6	20
Xylene	0.302	mg/L	1	0.300	<0.000300	101	72.9 - 118.2	6	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0986	0.101	mg/L	1	0.100	99	101	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0986	0.101	mg/L	1	0.100	99	101	43.9 - 132.4

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Laboratory Control Spike (LCS-1)

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Aluminum	0.878	mg/L	1	1.00	<0.0228	88	85 - 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
Total Aluminum	0.871	mg/L	1	1.00	<0.0228	87	85 - 106	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Boron	0.0510	mg/L	1	0.0500	<0.00440	102	85 - 115

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
Total Boron	0.0510	mg/L	1	0.0500	<0.00440	102	85 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Cobalt	0.235	mg/L	1	0.250	<0.00220	94	88.6 - 115

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
Total Cobalt	0.234	mg/L	1	0.250	<0.00220	94	88.6 - 115	0	20

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

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Laboratory Control Spike (LCS-1)

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper	0.116	mg/L	1	0.125	<0.00140	93	85.6 - 113

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
Total Copper	0.115	mg/L	1	0.125	<0.00140	92	85.6 - 113	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron	0.515	mg/L	1	0.500	<0.00690	103	86.9 - 115

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
Total Iron	0.507	mg/L	1	0.500	<0.00690	101	86.9 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese	0.235	mg/L	1	0.250	<0.000600	94	85.4 - 115

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
Total Manganese	0.239	mg/L	1	0.250	<0.000600	96	85.4 - 115	2	20

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

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Laboratory Control Spike (LCS-1)

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Molybdenum	0.521	mg/L	1	0.500	<0.00790	104	85 - 115

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
Total Molybdenum	0.530	mg/L	1	0.500	<0.00790	106	85 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Nickel	0.253	mg/L	1	0.250	<0.00190	101	86.4 - 115

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
Total Nickel	0.255	mg/L	1	0.250	<0.00190	102	86.4 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	0.262	mg/L	1	0.250	<0.00710	105	85 - 113

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
Total Zinc	0.267	mg/L	1	0.250	<0.00710	107	85 - 113	2	20

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

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Laboratory Control Spike (LCS-1)

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	0.118	mg/L	1	0.125	<0.00210	94	86.7 - 113
Total Arsenic	0.461	mg/L	1	0.500	<0.00430	92	85 - 112
Total Barium	0.994	mg/L	1	1.00	<0.00170	99	86.9 - 115
Total Cadmium	0.266	mg/L	1	0.250	<0.00140	106	85.2 - 115
Total Chromium	0.102	mg/L	1	0.100	<0.000900	102	86 - 115
Total Lead	0.499	mg/L	1	0.500	<0.00320	100	87.9 - 112
Total Selenium	0.445	mg/L	1	0.500	<0.0131	89	85 - 109

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
Total Silver	0.119	mg/L	1	0.125	<0.00210	95	86.7 - 113	1	20
Total Arsenic	0.478	mg/L	1	0.500	<0.00430	96	85 - 112	4	20
Total Barium	1.00	mg/L	1	1.00	<0.00170	100	86.9 - 115	1	20
Total Cadmium	0.267	mg/L	1	0.250	<0.00140	107	85.2 - 115	0	20
Total Chromium	0.104	mg/L	1	0.100	<0.000900	104	86 - 115	2	20
Total Lead	0.501	mg/L	1	0.500	<0.00320	100	87.9 - 112	0	20
Total Selenium	0.445	mg/L	1	0.500	<0.0131	89	85 - 109	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 49741
Prep Batch: 42707

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-25

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N	2.30	mg/L	1	2.50	<0.0106	92	90 - 110

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
Nitrate-N	2.46	mg/L	1	2.50	<0.0106	98	90 - 110	7	

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

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Laboratory Control Spike (LCS-1)

QC Batch: 49781
Prep Batch: 42727

Date Analyzed: 2008-06-26
QC Preparation: 2008-06-26

Analyzed By: TP
Prepared By: TP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.000999	mg/L	1	0.00100	<0.0000251	100	89.6 - 111

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
Total Mercury	0.000983	mg/L	1	0.00100	<0.0000251	98	89.6 - 111	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 49786
Prep Batch: 42696

Date Analyzed: 2008-06-26
QC Preparation: 2008-06-25

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0975	mg/L	1	0.100	<0.000200	98	71.7 - 120.5
Toluene	0.0973	mg/L	1	0.100	<0.000200	97	75.4 - 118.8
Ethylbenzene	0.0972	mg/L	1	0.100	<0.000200	97	73.5 - 118
Xylene	0.292	mg/L	1	0.300	<0.000300	97	72.9 - 118.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0921	mg/L	1	0.100	<0.000200	92	71.7 - 120.5	6	20
Toluene	0.0923	mg/L	1	0.100	<0.000200	92	75.4 - 118.8	5	20
Ethylbenzene	0.0926	mg/L	1	0.100	<0.000200	93	73.5 - 118	5	20
Xylene	0.279	mg/L	1	0.300	<0.000300	93	72.9 - 118.2	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0941	0.0903	mg/L	1	0.100	94	90	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0938	0.0907	mg/L	1	0.100	94	91	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 49789
Prep Batch: 42734

Date Analyzed: 2008-06-26
QC Preparation: 2008-06-26

Analyzed By: TP
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Calcium	49.6	mg/L	1	50.0	<0.175	99	89.5 - 114
Dissolved Potassium	48.6	mg/L	1	50.0	1.18	95	87.9 - 115
Dissolved Magnesium	49.4	mg/L	1	50.0	0.195	98	85.7 - 112
Dissolved Sodium	48.3	mg/L	1	50.0	0.385	96	90 - 114

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
Dissolved Calcium	49.6	mg/L	1	50.0	<0.175	99	89.5 - 114	0	20
Dissolved Potassium	49.8	mg/L	1	50.0	1.18	97	87.9 - 115	2	20
Dissolved Magnesium	49.4	mg/L	1	50.0	0.195	98	85.7 - 112	0	20
Dissolved Sodium	49.1	mg/L	1	50.0	0.385	97	90 - 114	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 49865
Prep Batch: 42806

Date Analyzed: 2008-06-30
QC Preparation: 2008-06-27

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.28	mg/L	1	2.50	<0.0119	91	90 - 110

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
Fluoride	2.06	mg/L	1	2.50	<0.0119	82	90 - 110	10	

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

Matrix Spike (MS-1) Spiked Sample: 164330

QC Batch: 49668
Prep Batch: 42656

Date Analyzed: 2008-07-08
QC Preparation: 2008-07-08

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	176	mg/L	5	62.5	58.7	188	90 - 110
PO4-P	118	mg/L	5	62.5	<0.309	189	90 - 110
Sulfate	270	mg/L	5	62.5	154	186	90 - 110

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

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

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

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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
Chloride	⁴	177	mg/L	5	62.5	58.7	189	90 - 110	1	
PO4-P	⁵	117	mg/L	5	62.5	<0.309	187	90 - 110	1	
Sulfate	⁶	270	mg/L	5	62.5	154	186	90 - 110	0	

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

Matrix Spike (MS-1) Spiked Sample: 164186

QC Batch: 49700
Prep Batch: 42680

Date Analyzed: 2008-06-24
QC Preparation: 2008-06-24

Analyzed By: DC
Prepared By: DC

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		48.8	mg/L	200	20.0	30.6712	91	10 - 160.8
Toluene		23.0	mg/L	200	20.0	4.9516	90	10 - 160.7
Ethylbenzene		19.2	mg/L	200	20.0	1.2699	90	10 - 158.3
Xylene		55.9	mg/L	200	60.0	1.9903	90	10 - 158

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		47.5	mg/L	200	20.0	30.6712	84	10 - 160.8	3	20
Toluene		22.5	mg/L	200	20.0	4.9516	88	10 - 160.7	2	20
Ethylbenzene		18.9	mg/L	200	20.0	1.2699	88	10 - 158.3	2	20
Xylene		55.0	mg/L	200	60.0	1.9903	88	10 - 158	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)	19.1	19.3	mg/L	200	20	96	96	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	19.4	19.5	mg/L	200	20	97	98	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 164378

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

⁴MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

⁵MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

⁶MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Aluminum	0.946	mg/L	1	1.00	<0.0228	95	75 - 117

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
Total Aluminum	0.951	mg/L	1	1.00	<0.0228	95	75 - 117	0	20

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

Matrix Spike (MS-1) Spiked Sample: 164378

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Boron	0.0540	mg/L	1	0.0500	<0.00440	108	75 - 125

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
Total Boron	0.0550	mg/L	1	0.0500	<0.00440	110	75 - 125	2	20

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

Matrix Spike (MS-1) Spiked Sample: 164378

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Cobalt	0.252	mg/L	1	0.250	<0.00220	101	75 - 116

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
Total Cobalt	0.252	mg/L	1	0.250	<0.00220	101	75 - 116	0	20

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

Matrix Spike (MS-1) Spiked Sample: 164378

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
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Analyzed By: RR
Prepared By: KV

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper	0.121	mg/L	1	0.125	<0.00140	97	81 - 112

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
Total Copper	0.129	mg/L	1	0.125	<0.00140	103	81 - 112	6	20

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

Matrix Spike (MS-1) Spiked Sample: 164378

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron	0.455	mg/L	1	0.500	<0.00690	91	75 - 125

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
Total Iron	0.485	mg/L	1	0.500	<0.00690	97	75 - 125	6	20

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

Matrix Spike (MS-1) Spiked Sample: 164378

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese	0.234	mg/L	1	0.250	<0.000600	94	75 - 111

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
Total Manganese	0.233	mg/L	1	0.250	<0.000600	93	75 - 111	0	20

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

Matrix Spike (MS-1) Spiked Sample: 164378

QC Batch: 49710
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Date Analyzed: 2008-06-25
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Analyzed By: RR
Prepared By: KV

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Molybdenum	0.498	mg/L	1	0.500	<0.00790	100	75 - 125

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
Total Molybdenum	0.501	mg/L	1	0.500	<0.00790	100	75 - 125	1	20

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

Matrix Spike (MS-1) Spiked Sample: 164378

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Nickel	0.253	mg/L	1	0.250	<0.00190	101	75 - 121

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
Total Nickel	0.251	mg/L	1	0.250	<0.00190	100	75 - 121	1	20

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

Matrix Spike (MS-1) Spiked Sample: 164378

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-24

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	0.251	mg/L	1	0.250	<0.00710	100	76.9 - 111

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
Total Zinc	0.252	mg/L	1	0.250	<0.00710	101	76.9 - 111	0	20

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

Matrix Spike (MS-1) Spiked Sample: 164378

QC Batch: 49710
Prep Batch: 42662

Date Analyzed: 2008-06-25
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Analyzed By: RR
Prepared By: KV

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	0.119	mg/L	1	0.125	<0.00210	95	76.1 - 115
Total Arsenic	0.469	mg/L	1	0.500	<0.00430	94	81.6 - 116
Total Barium	1.04	mg/L	1	1.00	0.048	99	75 - 123
Total Cadmium	0.252	mg/L	1	0.250	<0.00140	101	75 - 115
Total Chromium	0.0990	mg/L	1	0.100	<0.000900	99	75 - 125
Total Lead	0.480	mg/L	1	0.500	<0.00320	96	82.6 - 114
Total Selenium	0.441	mg/L	1	0.500	<0.0131	88	75 - 106

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
Total Silver	0.120	mg/L	1	0.125	<0.00210	96	76.1 - 115	1	20
Total Arsenic	0.469	mg/L	1	0.500	<0.00430	94	81.6 - 116	0	20
Total Barium	1.03	mg/L	1	1.00	0.048	98	75 - 123	1	20
Total Cadmium	0.251	mg/L	1	0.250	<0.00140	100	75 - 115	0	20
Total Chromium	0.0980	mg/L	1	0.100	<0.000900	98	75 - 125	1	20
Total Lead	0.486	mg/L	1	0.500	<0.00320	97	82.6 - 114	1	20
Total Selenium	0.430	mg/L	1	0.500	<0.0131	86	75 - 106	2	20

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

Matrix Spike (MS-1) Spiked Sample: 164643

QC Batch: 49741
Prep Batch: 42707

Date Analyzed: 2008-06-25
QC Preparation: 2008-06-25

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N	17.3	mg/L	5	12.5	5.2694	96	90 - 110

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
Nitrate-N	17.4	mg/L	5	12.5	5.2694	97	90 - 110	1	

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

Matrix Spike (MS-1) Spiked Sample: 164378

QC Batch: 49781
Prep Batch: 42727

Date Analyzed: 2008-06-26
QC Preparation: 2008-06-26

Analyzed By: TP
Prepared By: TP

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.000994	mg/L	1	0.00100	<0.0000251	99	75 - 125

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
Total Mercury	0.00101	mg/L	1	0.00100	<0.0000251	101	75 - 125	2	20

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

Matrix Spike (MS-1) Spiked Sample: 164322

QC Batch: 49786
Prep Batch: 42696

Date Analyzed: 2008-06-26
QC Preparation: 2008-06-25

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	23.8	mg/L	200	20.0	3.25	103	10 - 160.8
Toluene	21.0	mg/L	200	20.0	0.1621	104	10 - 160.7
Ethylbenzene	21.1	mg/L	200	20.0	0.2715	104	10 - 158.3
Xylene	62.5	mg/L	200	60.0	0.0836	104	10 - 158

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	21.9	mg/L	200	20.0	3.25	93	10 - 160.8	8	20
Toluene	19.3	mg/L	200	20.0	0.1621	96	10 - 160.7	8	20
Ethylbenzene	19.4	mg/L	200	20.0	0.2715	96	10 - 158.3	8	20
Xylene	57.6	mg/L	200	60.0	0.0836	96	10 - 158	8	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	20.6	19.2	mg/L	200	20	103	96	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	20.7	19.2	mg/L	200	20	104	96	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 164329

QC Batch: 49789
Prep Batch: 42734

Date Analyzed: 2008-06-26
QC Preparation: 2008-06-26

Analyzed By: TP
Prepared By: KV

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Calcium	156	mg/L	1	50.0	107	98	75 - 125
Dissolved Potassium	52.6	mg/L	1	50.0	5.01	95	79.4 - 125
Dissolved Magnesium	65.7	mg/L	1	50.0	19.1	93	75 - 119
Dissolved Sodium	108	mg/L	1	50.0	61.3	93	75 - 125

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
Dissolved Calcium	158	mg/L	1	50.0	107	102	75 - 125	1	20
Dissolved Potassium	53.7	mg/L	1	50.0	5.01	97	79.4 - 125	2	20
Dissolved Magnesium	66.4	mg/L	1	50.0	19.1	95	75 - 119	1	20
Dissolved Sodium	108	mg/L	1	50.0	61.3	93	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 164330

QC Batch: 49865
Prep Batch: 42806

Date Analyzed: 2008-06-30
QC Preparation: 2008-06-27

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	14.4	mg/L	5	12.5	2.711	94	90 - 110

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
Fluoride	14.5	mg/L	5	12.5	2.711	94	90 - 110	1	

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

Standard (ICV-1)

QC Batch: 49668

Date Analyzed: 2008-07-08

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.9	95	90 - 110	2008-07-08
PO4-P		mg/L	12.5	11.8	94	90 - 110	2008-07-08
Sulfate		mg/L	12.5	11.9	95	90 - 110	2008-07-08

Standard (CCV-1)

QC Batch: 49668

Date Analyzed: 2008-07-08

Analyzed By: AR

Report Date: July 8, 2008
PLAINS047SPL

Work Order: 8062306
Hobbs Junction Mainline

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Hobbs, NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.1	97	90 - 110	2008-07-08
PO4-P		mg/L	12.5	11.8	94	90 - 110	2008-07-08
Sulfate		mg/L	12.5	11.9	95	90 - 110	2008-07-08

Standard (ICV-1)

QC Batch: 49670

Date Analyzed: 2008-06-23

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2008-06-23
Carbonate Alkalinity		mg/L as CaCo3	0.00	196		0 - 200	2008-06-23
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	56.0		0 - 200	2008-06-23
Total Alkalinity		mg/L as CaCo3	250	252	101	90 - 110	2008-06-23

Standard (CCV-1)

QC Batch: 49670

Date Analyzed: 2008-06-23

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2008-06-23
Carbonate Alkalinity		mg/L as CaCo3	0.00	194		0 - 200	2008-06-23
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	61.0		0 - 200	2008-06-23
Total Alkalinity		mg/L as CaCo3	250	255	102	90 - 110	2008-06-23

Standard (ICV-1)

QC Batch: 49700

Date Analyzed: 2008-06-24

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.108	108	85 - 115	2008-06-24
Toluene		mg/L	0.100	0.108	108	85 - 115	2008-06-24
Ethylbenzene		mg/L	0.100	0.108	108	85 - 115	2008-06-24
Xylene		mg/L	0.300	0.324	108	85 - 115	2008-06-24

Standard (CCV-1)

QC Batch: 49700

Date Analyzed: 2008-06-24

Analyzed By: DC

Report Date: July 8, 2008
PLAINS047SPL

Work Order: 8062306
Hobbs Junction Mainline

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0983	98	85 - 115	2008-06-24
Toluene		mg/L	0.100	0.0980	98	85 - 115	2008-06-24
Ethylbenzene		mg/L	0.100	0.0981	98	85 - 115	2008-06-24
Xylene		mg/L	0.300	0.294	98	85 - 115	2008-06-24

Standard (ICV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		mg/L	1.00	0.975	98	90 - 110	2008-06-25

Standard (ICV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Boron		mg/L	1.00	0.991	99	90 - 110	2008-06-25

Standard (ICV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cobalt		mg/L	1.00	0.997	100	90 - 110	2008-06-25

Standard (ICV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		mg/L	1.00	0.973	97	90 - 110	2008-06-25

Report Date: July 8, 2008
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Hobbs Junction Mainline

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Standard (ICV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		mg/L	1.00	0.989	99	90 - 110	2008-06-25

Standard (ICV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		mg/L	1.00	1.04	104	90 - 110	2008-06-25

Standard (ICV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Molybdenum		mg/L	1.00	1.02	102	90 - 110	2008-06-25

Standard (ICV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Nickel		mg/L	1.00	1.03	103	90 - 110	2008-06-25

Standard (ICV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/L	1.00	0.975	98	90 - 110	2008-06-25

Report Date: July 8, 2008
PLAINS047SPL

Work Order: 8062306
Hobbs Junction Mainline

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Hobbs, NM

Standard (ICV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.127	102	90 - 110	2008-06-25
Total Arsenic		mg/L	1.00	1.00	100	90 - 110	2008-06-25
Total Barium		mg/L	1.00	0.978	98	90 - 110	2008-06-25
Total Cadmium		mg/L	1.00	0.993	99	90 - 110	2008-06-25
Total Chromium		mg/L	1.00	0.988	99	90 - 110	2008-06-25
Total Lead		mg/L	1.00	1.01	101	90 - 110	2008-06-25
Total Selenium		mg/L	1.00	0.999	100	90 - 110	2008-06-25

Standard (CCV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		mg/L	1.00	0.977	98	90 - 110	2008-06-25

Standard (CCV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Boron		mg/L	1.00	0.991	99	90 - 110	2008-06-25

Standard (CCV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cobalt		mg/L	1.00	0.985	98	90 - 110	2008-06-25

Standard (CCV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Report Date: July 8, 2008
PLAINS047SPL

Work Order: 8062306
Hobbs Junction Mainline

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		mg/L	1.00	0.981	98	90 - 110	2008-06-25

Standard (CCV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		mg/L	1.00	0.979	98	90 - 110	2008-06-25

Standard (CCV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		mg/L	1.00	1.04	104	90 - 110	2008-06-25

Standard (CCV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Molybdenum		mg/L	1.00	0.978	98	90 - 110	2008-06-25

Standard (CCV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Nickel		mg/L	1.00	1.02	102	90 - 110	2008-06-25

Standard (CCV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Report Date: July 8, 2008
PLAINS047SPL

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Hobbs Junction Mainline

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/L	1.00	0.974	97	90 - 110	2008-06-25

Standard (CCV-1)

QC Batch: 49710

Date Analyzed: 2008-06-25

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.129	103	90 - 110	2008-06-25
Total Arsenic		mg/L	1.00	0.996	100	90 - 110	2008-06-25
Total Barium		mg/L	1.00	0.989	99	90 - 110	2008-06-25
Total Cadmium		mg/L	1.00	0.978	98	90 - 110	2008-06-25
Total Chromium		mg/L	1.00	0.975	98	90 - 110	2008-06-25
Total Lead		mg/L	1.00	0.996	100	90 - 110	2008-06-25
Total Selenium		mg/L	1.00	0.983	98	90 - 110	2008-06-25

Standard (ICV-1)

QC Batch: 49741

Date Analyzed: 2008-06-25

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.36	94	90 - 110	2008-06-25

Standard (CCV-1)

QC Batch: 49741

Date Analyzed: 2008-06-25

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.30	92	90 - 110	2008-06-25

Standard (ICV-1)

QC Batch: 49781

Date Analyzed: 2008-06-26

Analyzed By: TP

Report Date: July 8, 2008
PLAINS047SPL

Work Order: 8062306
Hobbs Junction Mainline

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Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.000959	96	90 - 110	2008-06-26

Standard (CCV-1)

QC Batch: 49781

Date Analyzed: 2008-06-26

Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.000993	99	80 - 120	2008-06-26

Standard (ICV-1)

QC Batch: 49786

Date Analyzed: 2008-06-26

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0938	94	85 - 115	2008-06-26
Toluene		mg/L	0.100	0.0944	94	85 - 115	2008-06-26
Ethylbenzene		mg/L	0.100	0.0931	93	85 - 115	2008-06-26
Xylene		mg/L	0.300	0.281	94	85 - 115	2008-06-26

Standard (CCV-1)

QC Batch: 49786

Date Analyzed: 2008-06-26

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0974	97	85 - 115	2008-06-26
Toluene		mg/L	0.100	0.0965	96	85 - 115	2008-06-26
Ethylbenzene		mg/L	0.100	0.0959	96	85 - 115	2008-06-26
Xylene		mg/L	0.300	0.288	96	85 - 115	2008-06-26

Standard (ICV-1)

QC Batch: 49789

Date Analyzed: 2008-06-26

Analyzed By: TP

Report Date: July 8, 2008
PLAINS047SPL

Work Order: 8062306
Hobbs Junction Mainline

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Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	49.9	100	90 - 110	2008-06-26
Dissolved Potassium		mg/L	50.0	49.8	100	90 - 110	2008-06-26
Dissolved Magnesium		mg/L	50.0	49.8	100	90 - 110	2008-06-26
Dissolved Sodium		mg/L	50.0	49.3	99	90 - 110	2008-06-26

Standard (CCV-1)

QC Batch: 49789

Date Analyzed: 2008-06-26

Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	47.1	94	90 - 110	2008-06-26
Dissolved Potassium		mg/L	50.0	48.3	97	90 - 110	2008-06-26
Dissolved Magnesium		mg/L	50.0	47.1	94	90 - 110	2008-06-26
Dissolved Sodium		mg/L	50.0	46.6	93	90 - 110	2008-06-26

Standard (ICV-1)

QC Batch: 49865

Date Analyzed: 2008-06-30

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.38	95	90 - 110	2008-06-30

Standard (CCV-1)

QC Batch: 49865

Date Analyzed: 2008-06-30

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.28	91	90 - 110	2008-06-30

TraceAnalysis, Inc.

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City/State/Zip: Shanna Smith
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Voice to: PLAINS SRB#2008-00012
Fax #: 432-522-2133
E-mail: ssmith@talon-le.com
Project Name: Camille Reynolds
Project Location (including state): PLAINS 47 SPAL
Hobbs, NM.
Sampler Signature: Hobbs Junction Mainline
Carl Vessels Camille Reynolds

LAB #	LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD						DATE	TIME
					WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE		
4322		MW-10	2	VDA X				X				X		4/20/08	1348
323		MW-16	2	VDA X				X				X		1315	
324		MW-18	2	VDA X				X				X		1320	
325		MW-19	2	VDA X				X				X		1310	
326		MW-20	2	VDA X				X				X		1323	
327		MW-21	2	VDA X				X				X		1306	
328		MW-22	2	VDA X				X				X		1300	
329		MW-23	4	VDA X				X	X			X		1333	
330		MW-24	4	VDA X				X	X			X		1341	

Relinquished by: Shanna Smith Date: 4/20/08 Time: 17:25
Received by: Carl Vessels Date: 6/20/08 Time: 17:25
Relinquished by: _____ Date: _____ Time: _____
Received at Laboratory by: _____ Date: _____ Time: _____

ANALYSIS REQUEST # (Circle or Specify Method, No.)

IC, Al, SO₄, NO₃, PO₄, F

Alkalinity

Metals - Cu, Fe, Mn, Zn, Al, B, Co, Ni, Pb, Se, Hg

Moisture Content

BOD, TSS, pH

Pesticides 8081A / 608

PCBs 8082 / 608

GC/MS Semi. Vol. 8270C / 625

GC/MS Vol. 8260B / 624

RCI

TCLP Pesticides

TCLP Semi Volatiles

TCLP Volatiles

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7

PAH 8270C / 625

TPH 8015 GRO / DRO / TVHC

TPH 418.1 / TX1005 / TX1005 Exit(C35)

MTBE 8021B / 602 / 8260B / 624

BTEX 8021B / 602 / 8260B / 624

LAB USE ONLY

Intact (Y) / (N)

Headspace (Y) / (N)

Temp 5.7

Log-in-Review

REMARKS:

Metals & Cations - Lubbock

BTEX & Aroclors, Alkalinity - Midland

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check if Special Reporting Limits Are Needed



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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
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NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: August 29, 2008

Work Order: 8082027



Project Location: Hobbs, NM
Project Name: Hobbs Junction Mainline
Project Number: Plains047SPL
SRS #: 2003-00017

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
171261	MW-2	water	2008-08-20	13:14	2008-08-20
171262	MW-14	water	2008-08-20	12:45	2008-08-20
171263	MW-17	water	2008-08-20	11:07	2008-08-20

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

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

Handwritten signature of Michael Abel in black ink.

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Hobbs Junction Mainline were received by TraceAnalysis, Inc. on 2008-08-20 and assigned to work order 8082027. Samples for work order 8082027 were received intact without headspace and at a temperature of 3.5 deg. C.

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

Test	Method
BTEX	S 8021B
PAH	S 8270C
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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 8082027 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 171261 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 51724
Prep Batch: 44329

Analytical Method: S 8021B
Date Analyzed: 2008-08-21
Sample Preparation: 2008-08-21

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		24.8	mg/L	100	0.00100
Toluene		11.2	mg/L	100	0.00100
Ethylbenzene		2.58	mg/L	100	0.00100
Xylene		3.84	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		11.0	mg/L	100	10.0	110	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		11.0	mg/L	100	10.0	110	52 - 124.1

Sample: 171261 - MW-2

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51870
Prep Batch: 44482

Analytical Method: S 8270C
Date Analyzed: 2008-08-27
Sample Preparation: 2008-08-26

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0725	mg/L	1	0.000200
2-Methylnaphthalene		0.0640	mg/L	1	0.000200
1-Methylnaphthalene		0.0662	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.00689	mg/L	1	0.000200
Fluorene		0.00603	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.00709	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		0.000206	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200

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sample 171261 continued ...

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0468	mg/L	1	0.0800	58	37.4 - 123
2-Fluorobiphenyl		0.0463	mg/L	1	0.0800	58	34.3 - 130
Terphenyl-d14		0.0617	mg/L	1	0.0800	77	10 - 252

Sample: 171261 - MW-2

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 51696
Prep Batch: 44316

Analytical Method: Mod. 8015B
Date Analyzed: 2008-08-22
Sample Preparation: 2008-08-22

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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		12.6	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	¹	17.3	mg/L	1	10.0	173	70 - 130

Sample: 171261 - MW-2

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 51730
Prep Batch: 44329

Analytical Method: S 8015B
Date Analyzed: 2008-08-21
Sample Preparation: 2008-08-21

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		91.6	mg/L	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.70	mg/L	50	5.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)		4.52	mg/L	50	5.00	90	70 - 130

¹ High surrogate recovery due to peak interference.

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Sample: 171262 - MW-14

Laboratory: Midland
Analysis: BTEX
QC Batch: 51724
Prep Batch: 44329

Analytical Method: S 8021B
Date Analyzed: 2008-08-21
Sample Preparation: 2008-08-21

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		34.7	mg/L	100	0.00100
Toluene		10.8	mg/L	100	0.00100
Ethylbenzene		2.68	mg/L	100	0.00100
Xylene		3.89	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.8	mg/L	100	10.0	108	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		10.6	mg/L	100	10.0	106	52 - 124.1

Sample: 171262 - MW-14

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51870
Prep Batch: 44482

Analytical Method: S 8270C
Date Analyzed: 2008-08-27
Sample Preparation: 2008-08-26

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0639	mg/L	1	0.000200
2-Methylnaphthalene		0.0428	mg/L	1	0.000200
1-Methylnaphthalene		0.0448	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.00437	mg/L	1	0.000200
Fluorene		0.00334	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.00358	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0442	mg/L	1	0.0800	55	37.4 - 123
2-Fluorobiphenyl		0.0492	mg/L	1	0.0800	62	34.3 - 130
Terphenyl-d14		0.0656	mg/L	1	0.0800	82	10 - 252

Sample: 171262 - MW-14

Laboratory: Midland
Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 51696 Date Analyzed: 2008-08-22 Analyzed By: LD
Prep Batch: 44316 Sample Preparation: 2008-08-22 Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		6.53	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	2	13.8	mg/L	1	10.0	138	70 - 130

Sample: 171262 - MW-14

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5030B
QC Batch: 51730 Date Analyzed: 2008-08-21 Analyzed By: DC
Prep Batch: 44329 Sample Preparation: 2008-08-21 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		118	mg/L	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.78	mg/L	100	10.0	98	70 - 130
4-Bromofluorobenzene (4-BFB)		9.08	mg/L	100	10.0	91	70 - 130

Sample: 171263 - MW-17

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 51724 Date Analyzed: 2008-08-21 Analyzed By: DC
Prep Batch: 44329 Sample Preparation: 2008-08-21 Prepared By: DC

²High surrogate recovery due to peak interference.

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		39.4	mg/L	100	0.00100
Toluene		22.0	mg/L	100	0.00100
Ethylbenzene		3.00	mg/L	100	0.00100
Xylene		4.18	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.9	mg/L	100	10.0	109	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		10.9	mg/L	100	10.0	109	52 - 124.1

Sample: 171263 - MW-17

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51870
Prep Batch: 44482

Analytical Method: S 8270C
Date Analyzed: 2008-08-27
Sample Preparation: 2008-08-26

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0927	mg/L	1	0.000200
2-Methylnaphthalene		0.0962	mg/L	1	0.000200
1-Methylnaphthalene		0.0983	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.0108	mg/L	1	0.000200
Fluorene		0.00992	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.0121	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		0.000648	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0523	mg/L	1	0.0800	65	37.4 - 123
2-Fluorobiphenyl		0.0484	mg/L	1	0.0800	60	34.3 - 130
Terphenyl-d14		0.0632	mg/L	1	0.0800	79	10 - 252

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Sample: 171263 - MW-17

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 51696
Prep Batch: 44316

Analytical Method: Mod. 8015B
Date Analyzed: 2008-08-22
Sample Preparation: 2008-08-22

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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		55.7	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	³	23.0	mg/L	1	10.0	230	70 - 130

Sample: 171263 - MW-17

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 51730
Prep Batch: 44329

Analytical Method: S 8015B
Date Analyzed: 2008-08-21
Sample Preparation: 2008-08-21

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		152	mg/L	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.88	mg/L	100	10.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		9.33	mg/L	100	10.0	93	70 - 130

Method Blank (1) QC Batch: 51696

QC Batch: 51696
Prep Batch: 44316

Date Analyzed: 2008-08-22
QC Preparation: 2008-08-22

Analyzed By: LD
Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		<2.44	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		12.9	mg/L	1	10.0	129	70 - 130

³High surrogate recovery due to peak interference.

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Method Blank (1) QC Batch: 51724

QC Batch: 51724
Prep Batch: 44329

Date Analyzed: 2008-08-21
QC Preparation: 2008-08-21

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000500	mg/L	0.001
Toluene		<0.000700	mg/L	0.001
Ethylbenzene		<0.000700	mg/L	0.001
Xylene		<0.00180	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	37.1 - 130.9

Method Blank (1) QC Batch: 51730

QC Batch: 51730
Prep Batch: 44329

Date Analyzed: 2008-08-21
QC Preparation: 2008-08-21

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
GRO		0.0946	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0948	mg/L	1	0.100	95	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0860	mg/L	1	0.100	86	50 - 130

Method Blank (1) QC Batch: 51870

QC Batch: 51870
Prep Batch: 44482

Date Analyzed: 2008-08-27
QC Preparation: 2008-08-26

Analyzed By: DS
Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000730	mg/L	0.0002
2-Methylnaphthalene		<0.0000509	mg/L	0.0002
1-Methylnaphthalene		<0.0000748	mg/L	0.0002
Acenaphthylene		<0.0000767	mg/L	0.0002
Acenaphthene		<0.000142	mg/L	0.0002
Dibenzofuran		<0.0000470	mg/L	0.0002
Fluorene		<0.0000569	mg/L	0.0002

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Parameter	Flag	MDL Result	Units	RL
Anthracene		<0.0000876	mg/L	0.0002
Phenanthrene		<0.0000552	mg/L	0.0002
Fluoranthene		<0.0000954	mg/L	0.0002
Pyrene		<0.0000497	mg/L	0.0002
Benzo(a)anthracene		<0.0000328	mg/L	0.0002
Chrysene		<0.0000990	mg/L	0.0002
Benzo(b)fluoranthene		<0.0000684	mg/L	0.0002
Benzo(k)fluoranthene		<0.0000830	mg/L	0.0002
Benzo(a)pyrene		<0.0000549	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000869	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000605	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000681	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0323	mg/L	1	0.0800	40	10 - 146
2-Fluorobiphenyl		0.0307	mg/L	1	0.0800	38	10 - 141
Terphenyl-d14		0.0658	mg/L	1	0.0800	82	10 - 266

Laboratory Control Spike (LCS-1)

QC Batch: 51696
Prep Batch: 44316

Date Analyzed: 2008-08-22
QC Preparation: 2008-08-22

Analyzed By: LD
Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	22.2	mg/L	1	25.0	<2.44	89	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	23.1	mg/L	1	25.0	<2.44	92	70 - 130	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	10.7	11.7	mg/L	1	10.0	107	117	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 51724
Prep Batch: 44329

Date Analyzed: 2008-08-21
QC Preparation: 2008-08-21

Analyzed By: DC
Prepared By: DC

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.110	mg/L	1	0.100	<0.000500	110	71.7 - 120.5
Toluene	0.109	mg/L	1	0.100	<0.000700	109	75.4 - 118.8
Ethylbenzene	0.108	mg/L	1	0.100	<0.000700	108	73.5 - 118
Xylene	0.321	mg/L	1	0.300	<0.00180	107	72.9 - 118.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.109	mg/L	1	0.100	<0.000500	109	71.7 - 120.5	1	20
Toluene	0.110	mg/L	1	0.100	<0.000700	110	75.4 - 118.8	1	20
Ethylbenzene	0.110	mg/L	1	0.100	<0.000700	110	73.5 - 118	2	20
Xylene	0.327	mg/L	1	0.300	<0.00180	109	72.9 - 118.2	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.106	0.104	mg/L	1	0.100	106	104	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.107	0.104	mg/L	1	0.100	107	104	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 51730
Prep Batch: 44329

Date Analyzed: 2008-08-21
QC Preparation: 2008-08-21

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	0.893	mg/L	1	1.00	0.0946	80	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	0.932	mg/L	1	1.00	0.0946	84	70 - 130	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0949	0.0926	mg/L	1	0.100	95	93	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0876	0.0889	mg/L	1	0.100	88	89	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 51870
Prep Batch: 44482

Date Analyzed: 2008-08-27
QC Preparation: 2008-08-26

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0386	mg/L	1	0.0800	<0.0000730	48	10 - 141
2-Methylnaphthalene	0.0418	mg/L	1	0.0800	<0.0000509	52	50 - 150
1-Methylnaphthalene	0.0417	mg/L	1	0.0800	<0.0000748	52	50 - 150
Acenaphthylene	0.0502	mg/L	1	0.0800	<0.0000767	63	10 - 152
Acenaphthene	0.0478	mg/L	1	0.0800	<0.000142	60	10 - 151
Dibenzofuran	0.0492	mg/L	1	0.0800	<0.0000470	62	10 - 148
Fluorene	0.0528	mg/L	1	0.0800	<0.0000569	66	10 - 172
Anthracene	0.0578	mg/L	1	0.0800	<0.0000876	72	22.5 - 172
Phenanthrene	0.0559	mg/L	1	0.0800	<0.0000552	70	19.6 - 172
Fluoranthene	0.0625	mg/L	1	0.0800	<0.0000954	78	17.3 - 187
Pyrene	0.0621	mg/L	1	0.0800	<0.0000497	78	14.9 - 199
Benzo(a)anthracene	0.0596	mg/L	1	0.0800	<0.0000328	74	19.4 - 185
Chrysene	0.0626	mg/L	1	0.0800	<0.0000990	78	18.4 - 188
Benzo(b)fluoranthene	0.0687	mg/L	1	0.0800	<0.0000684	86	10 - 193
Benzo(k)fluoranthene	0.0821	mg/L	1	0.0800	<0.0000830	103	27.8 - 196
Benzo(a)pyrene	0.0777	mg/L	1	0.0800	<0.0000549	97	12.4 - 205
Indeno(1,2,3-cd)pyrene	0.0842	mg/L	1	0.0800	<0.0000869	105	10 - 198
Dibenzo(a,h)anthracene	0.0808	mg/L	1	0.0800	<0.0000605	101	10 - 172
Benzo(g,h,i)perylene	0.0807	mg/L	1	0.0800	<0.0000681	101	10 - 186

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene	0.0393	mg/L	1	0.0800	<0.0000730	49	10 - 141	2	20
2-Methylnaphthalene	0.0419	mg/L	1	0.0800	<0.0000509	52	50 - 150	0	20
1-Methylnaphthalene	0.0430	mg/L	1	0.0800	<0.0000748	54	50 - 150	3	20
Acenaphthylene	0.0510	mg/L	1	0.0800	<0.0000767	64	10 - 152	2	20
Acenaphthene	0.0484	mg/L	1	0.0800	<0.000142	60	10 - 151	1	20
Dibenzofuran	0.0502	mg/L	1	0.0800	<0.0000470	63	10 - 148	2	20
Fluorene	0.0547	mg/L	1	0.0800	<0.0000569	68	10 - 172	4	20
Anthracene	0.0589	mg/L	1	0.0800	<0.0000876	74	22.5 - 172	2	20
Phenanthrene	0.0568	mg/L	1	0.0800	<0.0000552	71	19.6 - 172	2	20
Fluoranthene	0.0621	mg/L	1	0.0800	<0.0000954	78	17.3 - 187	1	20
Pyrene	0.0629	mg/L	1	0.0800	<0.0000497	79	14.9 - 199	1	20
Benzo(a)anthracene	0.0600	mg/L	1	0.0800	<0.0000328	75	19.4 - 185	1	20
Chrysene	0.0627	mg/L	1	0.0800	<0.0000990	78	18.4 - 188	0	20
Benzo(b)fluoranthene	0.0663	mg/L	1	0.0800	<0.0000684	83	10 - 193	4	20
Benzo(k)fluoranthene	0.0798	mg/L	1	0.0800	<0.0000830	100	27.8 - 196	3	20
Benzo(a)pyrene	0.0755	mg/L	1	0.0800	<0.0000549	94	12.4 - 205	3	20
Indeno(1,2,3-cd)pyrene	0.0829	mg/L	1	0.0800	<0.0000869	104	10 - 198	2	20
Dibenzo(a,h)anthracene	0.0783	mg/L	1	0.0800	<0.0000605	98	10 - 172	3	20
Benzo(g,h,i)perylene	0.0792	mg/L	1	0.0800	<0.0000681	99	10 - 186	2	20

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

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Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Nitrobenzene-d5	0.0431	0.0439	mg/L	1	0.0800	54	55	10 - 165
2-Fluorobiphenyl	0.0445	0.0448	mg/L	1	0.0800	56	56	10 - 157
Terphenyl-d14	0.0650	0.0655	mg/L	1	0.0800	81	82	10 - 220

Matrix Spike (MS-1) Spiked Sample: 171261

QC Batch: 51696
Prep Batch: 44316

Date Analyzed: 2008-08-22
QC Preparation: 2008-08-22

Analyzed By: LD
Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	⁴ 23.2	mg/L	1	25.0	12.6	42	70 - 130

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	⁵ 23.2	mg/L	1	25.0	12.6	42	70 - 130	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
n-Triacontane	13.0	12.7	mg/L	1	10	130	127	70 - 130

Matrix Spike (MS-1) Spiked Sample: 171265

QC Batch: 51724
Prep Batch: 44329

Date Analyzed: 2008-08-21
QC Preparation: 2008-08-21

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.548	mg/L	5	0.500	0.0659	96	10 - 160.8
Toluene	0.483	mg/L	5	0.500	<0.00350	97	10 - 160.7
Ethylbenzene	0.484	mg/L	5	0.500	0.0086	95	10 - 158.3
Xylene	1.43	mg/L	5	1.50	<0.00900	95	10 - 158

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	0.562	mg/L	5	0.500	0.0659	99	10 - 160.8	2	20
Toluene	0.488	mg/L	5	0.500	<0.00350	98	10 - 160.7	1	20

continued ...

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

⁵Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

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matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene	0.495	mg/L	5	0.500	0.0086	97	10 - 158.3	2	20
Xylene	1.46	mg/L	5	1.50	<0.00900	97	10 - 158	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)	0.507	0.530	mg/L	5	0.5	101	106	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	0.527	0.536	mg/L	5	0.5	105	107	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 171261

QC Batch: 51730
Prep Batch: 44329

Date Analyzed: 2008-08-21
QC Preparation: 2008-08-21

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	131	mg/L	50	50.0	91.5831	79	70 - 130

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	139	mg/L	50	50.0	91.5831	95	70 - 130	6	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	4.83	4.98	mg/L	50	5	97	100	70 - 130
4-Bromofluorobenzene (4-BFB)	4.74	4.91	mg/L	50	5	95	98	70 - 130

Standard (ICV-1)

QC Batch: 51696

Date Analyzed: 2008-08-22

Analyzed By: LD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	233	93	85 - 115	2008-08-22

Standard (CCV-1)

QC Batch: 51696

Date Analyzed: 2008-08-22

Analyzed By: LD

Report Date: August 29, 2008
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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	213	85	85 - 115	2008-08-22

Standard (ICV-1)

QC Batch: 51724

Date Analyzed: 2008-08-21

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.113	113	85 - 115	2008-08-21
Toluene		mg/L	0.100	0.113	113	85 - 115	2008-08-21
Ethylbenzene		mg/L	0.100	0.112	112	85 - 115	2008-08-21
Xylene		mg/L	0.300	0.336	112	85 - 115	2008-08-21

Standard (CCV-1)

QC Batch: 51724

Date Analyzed: 2008-08-21

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.114	114	85 - 115	2008-08-21
Toluene		mg/L	0.100	0.114	114	85 - 115	2008-08-21
Ethylbenzene		mg/L	0.100	0.112	112	85 - 115	2008-08-21
Xylene		mg/L	0.300	0.339	113	85 - 115	2008-08-21

Standard (ICV-1)

QC Batch: 51730

Date Analyzed: 2008-08-21

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.973	97	85 - 115	2008-08-21

Standard (CCV-1)

QC Batch: 51730

Date Analyzed: 2008-08-21

Analyzed By: DC

Report Date: August 29, 2008
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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.10	110	85 - 115	2008-08-21

Standard (CCV-1)

QC Batch: 51870

Date Analyzed: 2008-08-27

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	56.3	94	80 - 120	2008-08-27
2-Methylnaphthalene		mg/L	60.0	54.2	90	80 - 120	2008-08-27
1-Methylnaphthalene		mg/L	60.0	54.6	91	80 - 120	2008-08-27
Acenaphthylene		mg/L	60.0	59.2	99	80 - 120	2008-08-27
Acenaphthene		mg/L	60.0	58.1	97	80 - 120	2008-08-27
Dibenzofuran		mg/L	60.0	60.8	101	80 - 120	2008-08-27
Fluorene		mg/L	60.0	65.0	108	80 - 120	2008-08-27
Anthracene		mg/L	60.0	58.9	98	80 - 120	2008-08-27
Phenanthrene		mg/L	60.0	57.0	95	80 - 120	2008-08-27
Fluoranthene		mg/L	60.0	57.4	96	80 - 120	2008-08-27
Pyrene		mg/L	60.0	61.4	102	80 - 120	2008-08-27
Benzo(a)anthracene		mg/L	60.0	55.8	93	80 - 120	2008-08-27
Chrysene		mg/L	60.0	58.0	97	80 - 120	2008-08-27
Benzo(b)fluoranthene		mg/L	60.0	56.5	94	80 - 120	2008-08-27
Benzo(k)fluoranthene		mg/L	60.0	63.4	106	80 - 120	2008-08-27
Benzo(a)pyrene		mg/L	60.0	59.0	98	80 - 120	2008-08-27
Indeno(1,2,3-cd)pyrene		mg/L	60.0	68.9	115	80 - 120	2008-08-27
Dibenzo(a,h)anthracene		mg/L	60.0	68.3	114	80 - 120	2008-08-27
Benzo(g,h,i)perylene		mg/L	60.0	66.4	111	80 - 120	2008-08-27

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		58.2	mg/L	1	60.0	97	80 - 120
2-Fluorobiphenyl		58.3	mg/L	1	60.0	97	80 - 120
Terphenyl-d14		59.7	mg/L	1	60.0	100	80 - 120

Standard (CCV-2)

QC Batch: 51870

Date Analyzed: 2008-08-27

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	55.4	92	80 - 120	2008-08-27

continued ...

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standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
2-Methylnaphthalene		mg/L	60.0	55.3	92	80 - 120	2008-08-27
1-Methylnaphthalene		mg/L	60.0	55.8	93	80 - 120	2008-08-27
Acenaphthylene		mg/L	60.0	58.9	98	80 - 120	2008-08-27
Acenaphthene		mg/L	60.0	57.7	96	80 - 120	2008-08-27
Dibenzofuran		mg/L	60.0	62.0	103	80 - 120	2008-08-27
Fluorene		mg/L	60.0	66.8	111	80 - 120	2008-08-27
Anthracene		mg/L	60.0	58.3	97	80 - 120	2008-08-27
Phenanthrene		mg/L	60.0	56.7	94	80 - 120	2008-08-27
Fluoranthene		mg/L	60.0	55.7	93	80 - 120	2008-08-27
Pyrene		mg/L	60.0	59.3	99	80 - 120	2008-08-27
Benzo(a)anthracene		mg/L	60.0	55.6	93	80 - 120	2008-08-27
Chrysene		mg/L	60.0	57.7	96	80 - 120	2008-08-27
Benzo(b)fluoranthene		mg/L	60.0	56.2	94	80 - 120	2008-08-27
Benzo(k)fluoranthene		mg/L	60.0	61.0	102	80 - 120	2008-08-27
Benzo(a)pyrene		mg/L	60.0	60.5	101	80 - 120	2008-08-27
Indeno(1,2,3-cd)pyrene		mg/L	60.0	67.5	112	80 - 120	2008-08-27
Dibenzo(a,h)anthracene		mg/L	60.0	67.6	113	80 - 120	2008-08-27
Benzo(g,h,i)perylene		mg/L	60.0	67.2	112	80 - 120	2008-08-27

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		56.9	mg/L	1	60.0	95	80 - 120
2-Fluorobiphenyl		54.6	mg/L	1	60.0	91	80 - 120
Terphenyl-d14		58.9	mg/L	1	60.0	98	80 - 120

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[illegible]

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

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Carrier # carry-in

REMARKS:

MARKS:
PAH - Lubbock
BTEx, Dr. Gro-Midland

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



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NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: September 2, 2008

Work Order: 8082208



Project Location: Hobbs, NM
Project Name: Hobbs Junction Mainline
Project Number: Plains047SPL
SRS #: 2003-00017

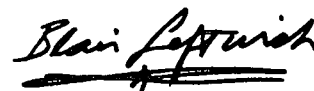
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
171429	MW-3	water	2008-08-21	10:45	2008-08-22
171430	MW-4	water	2008-08-21	09:57	2008-08-22
171431	MW-6	water	2008-08-21	12:25	2008-08-22
171432	MW-10	water	2008-08-21	14:07	2008-08-22
171433	MW-12	water	2008-08-21	15:29	2008-08-22
171434	MW-16	water	2008-08-21	15:15	2008-08-22
171435	MW-18	water	2008-08-21	15:19	2008-08-22
171436	MW-19	water	2008-08-21	14:23	2008-08-22
171437	MW-20	water	2008-08-21	15:09	2008-08-22

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
171438	MW-21	water	2008-08-21	14:50	2008-08-22
171439	MW-22	water	2008-08-21	14:30	2008-08-22
171440	MW-23	water	2008-08-21	14:44	2008-08-22
171441	MW-24	water	2008-08-21	15:00	2008-08-22

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



Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Hobbs Junction Mainline were received by TraceAnalysis, Inc. on 2008-08-22 and assigned to work order 8082208. Samples for work order 8082208 were received intact without headspace and at a temperature of 2.6 deg. C.

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

Test	Method
BTEX	S 8021B
PAH	S 8270C
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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 8082208 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 171429 - MW-3

Laboratory: Midland

Analysis: BTEX

QC Batch: 51932

Prep Batch: 44472

Analytical Method: S 8021B

Date Analyzed: 2008-08-29

Sample Preparation: 2008-08-28

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		19.6	mg/L	100	0.00100
Toluene		10.9	mg/L	100	0.00100
Ethylbenzene		2.16	mg/L	100	0.00100
Xylene		3.09	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.8	mg/L	100	10.0	108	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		11.1	mg/L	100	10.0	111	52 - 124.1

Sample: 171429 - MW-3

Laboratory: Lubbock

Analysis: PAH

QC Batch: 51870

Prep Batch: 44482

Analytical Method: S 8270C

Date Analyzed: 2008-08-27

Sample Preparation: 2008-08-26

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0537	mg/L	1	0.000200
2-Methylnaphthalene		0.0412	mg/L	1	0.000200
1-Methylnaphthalene		0.0436	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.00406	mg/L	1	0.000200
Fluorene		0.00323	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.00346	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		0.000212	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200

continued ...

Report Date: September 2, 2008
Plains047SPL

Work Order: 8082208
Hobbs Junction Mainline

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sample 171429 continued ...

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0390	mg/L	1	0.0800	49	37.4 - 123
2-Fluorobiphenyl		0.0395	mg/L	1	0.0800	49	34.3 - 130
Terphenyl-d14		0.0540	mg/L	1	0.0800	68	10 - 252

Sample: 171429 - MW-3

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 51780
Prep Batch: 44353

Analytical Method: Mod. 8015B
Date Analyzed: 2008-08-25
Sample Preparation: 2008-08-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		5.78	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	¹	13.3	mg/L	1	10.0	133	70 - 130

Sample: 171429 - MW-3

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 51933
Prep Batch: 44472

Analytical Method: S 8015B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-28

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		84.6	mg/L	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/L	10	1.00	102	70 - 130
4-Bromofluorobenzene (4-BFB)		1.13	mg/L	10	1.00	113	70 - 130

¹High surrogate recovery. Sample non-detect, result bias high.

Sample: 171430 - MW-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 51932
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-28

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		44.0	mg/L	100	0.00100
Toluene		9.98	mg/L	100	0.00100
Ethylbenzene		2.72	mg/L	100	0.00100
Xylene		4.10	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.7	mg/L	100	10.0	107	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		10.7	mg/L	100	10.0	107	52 - 124.1

Sample: 171430 - MW-4

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51870
Prep Batch: 44482

Analytical Method: S 8270C
Date Analyzed: 2008-08-27
Sample Preparation: 2008-08-26

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.102	mg/L	1	0.000200
2-Methylnaphthalene	2	0.126	mg/L	1	0.000200
1-Methylnaphthalene	3	0.127	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.0146	mg/L	1	0.000200
Fluorene		0.0137	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.0176	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		0.00108	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200

continued ...

²Estimated concentration value greater than standard range.

³Estimated concentration value greater than standard range.

sample 171430 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0540	mg/L	1	0.0800	68	37.4 - 123
2-Fluorobiphenyl		0.0493	mg/L	1	0.0800	62	34.3 - 130
Terphenyl-d14		0.0632	mg/L	1	0.0800	79	10 - 252

Sample: 171430 - MW-4

Laboratory: Midland
 Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
 QC Batch: 51780 Date Analyzed: 2008-08-25 Analyzed By: LD
 Prep Batch: 44353 Sample Preparation: 2008-08-25 Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		17.9	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	⁴	13.9	mg/L	1	10.0	139	70 - 130

Sample: 171430 - MW-4

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5030B
 QC Batch: 51933 Date Analyzed: 2008-08-29 Analyzed By: DC
 Prep Batch: 44472 Sample Preparation: 2008-08-28 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		140	mg/L	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.79	mg/L	100	10.0	98	70 - 130
4-Bromofluorobenzene (4-BFB)		9.30	mg/L	100	10.0	93	70 - 130

⁴High surrogate recovery due to peak interference.

Sample: 171431 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 51932
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-28

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		33.1	mg/L	100	0.00100
Toluene		6.48	mg/L	100	0.00100
Ethylbenzene		2.61	mg/L	100	0.00100
Xylene		3.84	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.5	mg/L	100	10.0	105	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		10.8	mg/L	100	10.0	108	52 - 124.1

Sample: 171431 - MW-6

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51870
Prep Batch: 44482

Analytical Method: S 8270C
Date Analyzed: 2008-08-27
Sample Preparation: 2008-08-26

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0494	mg/L	1	0.000200
2-Methylnaphthalene		0.0301	mg/L	1	0.000200
1-Methylnaphthalene		0.0316	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.00272	mg/L	1	0.000200
Fluorene		0.00215	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.00195	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200

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sample 171431 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0364	mg/L	1	0.0800	46	37.4 - 123
2-Fluorobiphenyl		0.0411	mg/L	1	0.0800	51	34.3 - 130
Terphenyl-d14		0.0567	mg/L	1	0.0800	71	10 - 252

Sample: 171431 - MW-6

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 51780
Prep Batch: 44353

Analytical Method: Mod. 8015B
Date Analyzed: 2008-08-25
Sample Preparation: 2008-08-25

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

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

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

Sample: 171431 - MW-6

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 51933
Prep Batch: 44472

Analytical Method: S 8015B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-28

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		95.6	mg/L	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.959	mg/L	10	1.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)		1.08	mg/L	10	1.00	108	70 - 130

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Sample: 171432 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 51932
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-28

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		3.90	mg/L	20	0.00100
Toluene		<0.0200	mg/L	20	0.00100
Ethylbenzene		0.356	mg/L	20	0.00100
Xylene		<0.0200	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.20	mg/L	20	2.00	110	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		2.20	mg/L	20	2.00	110	52 - 124.1

Sample: 171432 - MW-10

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51870
Prep Batch: 44482

Analytical Method: S 8270C
Date Analyzed: 2008-08-27
Sample Preparation: 2008-08-26

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	1	0.000200
2-Methylnaphthalene		<0.000200	mg/L	1	0.000200
1-Methylnaphthalene		0.00181	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.000254	mg/L	1	0.000200
Fluorene		<0.000200	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		<0.000200	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200

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sample 171432 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0367	mg/L	1	0.0800	46	37.4 - 123
2-Fluorobiphenyl		0.0348	mg/L	1	0.0800	44	34.3 - 130
Terphenyl-d14		0.0579	mg/L	1	0.0800	72	10 - 252

Sample: 171433 - MW-12

Laboratory: Midland
Analysis: BTEX
QC Batch: 51932
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-28

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		24.9	mg/L	100	0.00100
Toluene		14.8	mg/L	100	0.00100
Ethylbenzene		3.19	mg/L	100	0.00100
Xylene		4.79	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		11.0	mg/L	100	10.0	110	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		11.2	mg/L	100	10.0	112	52 - 124.1

Sample: 171433 - MW-12

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51870
Prep Batch: 44482

Analytical Method: S 8270C
Date Analyzed: 2008-08-27
Sample Preparation: 2008-08-26

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0413	mg/L	1	0.000200
2-Methylnaphthalene		0.0642	mg/L	1	0.000200
1-Methylnaphthalene		0.0630	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200

continued ...

sample 171433 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzofuran		0.00772	mg/L	1	0.000200
Fluorene		0.00735	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.00999	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		0.000659	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	5	0.0130	mg/L	1	0.0800	16	37.4 - 123
2-Fluorobiphenyl	6	0.0112	mg/L	1	0.0800	14	34.3 - 130
Terphenyl-d14		0.0141	mg/L	1	0.0800	18	10 - 252

Sample: 171433 - MW-12

Laboratory: Midland	Analytical Method: Mod. 8015B	Prep Method: N/A
Analysis: TPH DRO	Date Analyzed: 2008-08-25	Analyzed By: LD
QC Batch: 51780	Sample Preparation: 2008-08-25	Prepared By: LD
Prep Batch: 44353		

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		82.4	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	7	40.1	mg/L	1	10.0	401	70 - 130

Sample: 171433 - MW-12

Laboratory: Midland	Analytical Method: S 8015B	Prep Method: S 5030B
Analysis: TPH GRO	Date Analyzed: 2008-08-29	Analyzed By: DC
QC Batch: 51933	Sample Preparation: 2008-08-28	Prepared By: DC
Prep Batch: 44472		

⁵8270 Only - Two basic surrogates are out of control limits. The other basic surrogate shows extraction was performed properly.

⁶8270 Only - Two basic surrogates are out of control limits. The other basic surrogate shows extraction was performed properly.

⁷High surrogate recovery due to peak interference.

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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		103	mg/L	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.81	mg/L	50	5.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)		4.75	mg/L	50	5.00	95	70 - 130

Sample: 171434 - MW-16

Laboratory: Midland
Analysis: BTEX
QC Batch: 51910
Prep Batch: 44517

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00140	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)		0.0965	mg/L	1	0.100	96	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0950	mg/L	1	0.100	95	40.1 - 136

Sample: 171434 - MW-16

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51870
Prep Batch: 44482

Analytical Method: S 8270C
Date Analyzed: 2008-08-27
Sample Preparation: 2008-08-26

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	1	0.000200
2-Methylnaphthalene		<0.000200	mg/L	1	0.000200
1-Methylnaphthalene		<0.000200	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		<0.000200	mg/L	1	0.000200
Fluorene		<0.000200	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200

continued ...

sample 171434 continued ...

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0357	mg/L	1	0.0800	45	37.4 - 123
2-Fluorobiphenyl		0.0373	mg/L	1	0.0800	47	34.3 - 130
Terphenyl-d14		0.0602	mg/L	1	0.0800	75	10 - 252

Sample: 171435 - MW-18

Laboratory: Midland
Analysis: BTEX
QC Batch: 51932
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-28

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	52 - 124.1

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Sample: 171435 - MW-18

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51870
Prep Batch: 44482

Analytical Method: S 8270C
Date Analyzed: 2008-08-27
Sample Preparation: 2008-08-26

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0422	mg/L	1	0.0800	53	37.4 - 123
2-Fluorobiphenyl		0.0452	mg/L	1	0.0800	56	34.3 - 130
Terphenyl-d14		0.0596	mg/L	1	0.0800	74	10 - 252

Sample: 171436 - MW-19

Laboratory: Midland
Analysis: BTEX
QC Batch: 51910
Prep Batch: 44517

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0945	mg/L	1	0.100	94	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0934	mg/L	1	0.100	93	40.1 - 136

Sample: 171436 - MW-19

Laboratory: Lubbock

Analysis: PAH

QC Batch: 51870

Prep Batch: 44482

Analytical Method: S 8270C

Date Analyzed: 2008-08-27

Sample Preparation: 2008-08-26

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0388	mg/L	1	0.0800	48	37.4 - 123
2-Fluorobiphenyl		0.0432	mg/L	1	0.0800	54	34.3 - 130
Terphenyl-d14		0.0544	mg/L	1	0.0800	68	10 - 252

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Sample: 171437 - MW-20

Laboratory: Midland
Analysis: BTEX
QC Batch: 51910
Prep Batch: 44517

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Benzene		31.0	mg/L	100	0.00100
Toluene		<0.100	mg/L	100	0.00100
Ethylbenzene		1.74	mg/L	100	0.00100
Xylene		0.325	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.96	mg/L	100	10.0	100	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		9.57	mg/L	100	10.0	96	40.1 - 136

Sample: 171437 - MW-20

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51870
Prep Batch: 44482

Analytical Method: S 8270C
Date Analyzed: 2008-08-27
Sample Preparation: 2008-08-26

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

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Naphthalene		0.0323	mg/L	1	0.000200
2-Methylnaphthalene		0.0139	mg/L	1	0.000200
1-Methylnaphthalene		0.0232	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.00207	mg/L	1	0.000200
Fluorene		0.00125	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.00114	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200

continued ...

sample 171437 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0401	mg/L	1	0.0800	50	37.4 - 123
2-Fluorobiphenyl		0.0459	mg/L	1	0.0800	57	34.3 - 130
Terphenyl-d14		0.0598	mg/L	1	0.0800	75	10 - 252

Sample: 171438 - MW-21

Laboratory: Midland
Analysis: BTEX
QC Batch: 51910
Prep Batch: 44517

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.849	mg/L	20	0.00100
Toluene		<0.0200	mg/L	20	0.00100
Ethylbenzene		<0.0200	mg/L	20	0.00100
Xylene		0.0238	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.92	mg/L	20	2.00	96	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		1.82	mg/L	20	2.00	91	40.1 - 136

Sample: 171438 - MW-21

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51870
Prep Batch: 44482

Analytical Method: S 8270C
Date Analyzed: 2008-08-27
Sample Preparation: 2008-08-26

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	1	0.000200
2-Methylnaphthalene		<0.000200	mg/L	1	0.000200
1-Methylnaphthalene		0.00116	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200

continued ...

sample 171438 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzofuran		<0.000200	mg/L	1	0.000200
Fluorene		<0.000200	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.000202	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0443	mg/L	1	0.0800	55	37.4 - 123
2-Fluorobiphenyl		0.0443	mg/L	1	0.0800	55	34.3 - 130
Terphenyl-d14		0.0580	mg/L	1	0.0800	72	10 - 252

Sample: 171439 - MW-22

Laboratory: Midland
Analysis: BTEX
QC Batch: 51910
Prep Batch: 44517

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0958	mg/L	1	0.100	96	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0933	mg/L	1	0.100	93	40.1 - 136

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Sample: 171439 - MW-22

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51870
Prep Batch: 44482

Analytical Method: S 8270C
Date Analyzed: 2008-08-27
Sample Preparation: 2008-08-26

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0495	mg/L	1	0.0800	62	37.4 - 123
2-Fluorobiphenyl		0.0504	mg/L	1	0.0800	63	34.3 - 130
Terphenyl-d14		0.0663	mg/L	1	0.0800	83	10 - 252

Sample: 171440 - MW-23

Laboratory: Midland
Analysis: BTEX
QC Batch: 51910
Prep Batch: 44517

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

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

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sample 171440 continued ...

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0953	mg/L	1	0.100	95	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0908	mg/L	1	0.100	91	40.1 - 136

Sample: 171440 - MW-23

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51870
Prep Batch: 44482

Analytical Method: S 8270C
Date Analyzed: 2008-08-27
Sample Preparation: 2008-08-26

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0472	mg/L	1	0.0800	59	37.4 - 123
2-Fluorobiphenyl		0.0486	mg/L	1	0.0800	61	34.3 - 130
Terphenyl-d14		0.0644	mg/L	1	0.0800	80	10 - 252

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Sample: 171441 - MW-24

Laboratory: Midland
Analysis: BTEX
QC Batch: 51910
Prep Batch: 44517

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.486	mg/L	5	0.500	97	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.450	mg/L	5	0.500	90	40.1 - 136

Sample: 171441 - MW-24

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51870
Prep Batch: 44482

Analytical Method: S 8270C
Date Analyzed: 2008-08-27
Sample Preparation: 2008-08-26

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

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

continued ...

sample 171441 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0531	mg/L	1	0.0800	66	37.4 - 123
2-Fluorobiphenyl		0.0526	mg/L	1	0.0800	66	34.3 - 130
Terphenyl-d14		0.0650	mg/L	1	0.0800	81	10 - 252

Method Blank (1) QC Batch: 51780

QC Batch: 51780
Prep Batch: 44353

Date Analyzed: 2008-08-25
QC Preparation: 2008-08-25

Analyzed By: LD
Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		<2.44	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		12.0	mg/L	1	10.0	120	70 - 130

Method Blank (1) QC Batch: 51870

QC Batch: 51870
Prep Batch: 44482

Date Analyzed: 2008-08-27
QC Preparation: 2008-08-26

Analyzed By: DS
Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000730	mg/L	0.0002
2-Methylnaphthalene		<0.0000509	mg/L	0.0002
1-Methylnaphthalene		<0.0000748	mg/L	0.0002
Acenaphthylene		<0.0000767	mg/L	0.0002
Acenaphthene		<0.000142	mg/L	0.0002
Dibenzofuran		<0.0000470	mg/L	0.0002
Fluorene		<0.0000569	mg/L	0.0002
Anthracene		<0.0000876	mg/L	0.0002
Phenanthrene		<0.0000552	mg/L	0.0002
Fluoranthene		<0.0000954	mg/L	0.0002
Pyrene		<0.0000497	mg/L	0.0002
Benzo(a)anthracene		<0.0000328	mg/L	0.0002

continued ...

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method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Chrysene		<0.0000990	mg/L	0.0002
Benzo(b)fluoranthene		<0.0000684	mg/L	0.0002
Benzo(k)fluoranthene		<0.0000830	mg/L	0.0002
Benzo(a)pyrene		<0.0000549	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000869	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000605	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000681	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0323	mg/L	1	0.0800	40	10 - 146
2-Fluorobiphenyl		0.0307	mg/L	1	0.0800	38	10 - 141
Terphenyl-d14		0.0658	mg/L	1	0.0800	82	10 - 266

Method Blank (1) QC Batch: 51910

QC Batch: 51910
Prep Batch: 44517

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-29

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0964	mg/L	1	0.100	96	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0947	mg/L	1	0.100	95	69.1 - 122.3

Method Blank (1) QC Batch: 51932

QC Batch: 51932
Prep Batch: 44472

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-28

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000500	mg/L	0.001
Toluene		<0.000700	mg/L	0.001
Ethylbenzene		<0.000700	mg/L	0.001

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Xylene		<0.00180	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.104	mg/L	1	0.100	104	37.1 - 130.9

Method Blank (1) QC Batch: 51933

QC Batch: 51933
Prep Batch: 44472

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-28

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
GRO		0.0967	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0964	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0889	mg/L	1	0.100	89	50 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 51780
Prep Batch: 44353

Date Analyzed: 2008-08-25
QC Preparation: 2008-08-25

Analyzed By: LD
Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	27.0	mg/L	1	25.0	<2.44	108	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	28.5	mg/L	1	25.0	<2.44	114	70 - 130	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	11.1	11.4	mg/L	1	10.0	111	114	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 51870
Prep Batch: 44482

Date Analyzed: 2008-08-27
QC Preparation: 2008-08-26

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0386	mg/L	1	0.0800	<0.0000730	48	10 - 141
2-Methylnaphthalene	0.0418	mg/L	1	0.0800	<0.0000509	52	50 - 150
1-Methylnaphthalene	0.0417	mg/L	1	0.0800	<0.0000748	52	50 - 150
Acenaphthylene	0.0502	mg/L	1	0.0800	<0.0000767	63	10 - 152
Acenaphthene	0.0478	mg/L	1	0.0800	<0.000142	60	10 - 151
Dibenzofuran	0.0492	mg/L	1	0.0800	<0.0000470	62	10 - 148
Fluorene	0.0528	mg/L	1	0.0800	<0.0000569	66	10 - 172
Anthracene	0.0578	mg/L	1	0.0800	<0.0000876	72	22.5 - 172
Phenanthrene	0.0559	mg/L	1	0.0800	<0.0000552	70	19.6 - 172
Fluoranthene	0.0625	mg/L	1	0.0800	<0.0000954	78	17.3 - 187
Pyrene	0.0621	mg/L	1	0.0800	<0.0000497	78	14.9 - 199
Benzo(a)anthracene	0.0596	mg/L	1	0.0800	<0.0000328	74	19.4 - 185
Chrysene	0.0626	mg/L	1	0.0800	<0.0000990	78	18.4 - 188
Benzo(b)fluoranthene	0.0687	mg/L	1	0.0800	<0.0000684	86	10 - 193
Benzo(k)fluoranthene	0.0821	mg/L	1	0.0800	<0.0000830	103	27.8 - 196
Benzo(a)pyrene	0.0777	mg/L	1	0.0800	<0.0000549	97	12.4 - 205
Indeno(1,2,3-cd)pyrene	0.0842	mg/L	1	0.0800	<0.0000869	105	10 - 198
Dibenzo(a,h)anthracene	0.0808	mg/L	1	0.0800	<0.0000605	101	10 - 172
Benzo(g,h,i)perylene	0.0807	mg/L	1	0.0800	<0.0000681	101	10 - 186

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene	0.0393	mg/L	1	0.0800	<0.0000730	49	10 - 141	2	20
2-Methylnaphthalene	0.0419	mg/L	1	0.0800	<0.0000509	52	50 - 150	0	20
1-Methylnaphthalene	0.0430	mg/L	1	0.0800	<0.0000748	54	50 - 150	3	20
Acenaphthylene	0.0510	mg/L	1	0.0800	<0.0000767	64	10 - 152	2	20
Acenaphthene	0.0484	mg/L	1	0.0800	<0.000142	60	10 - 151	1	20
Dibenzofuran	0.0502	mg/L	1	0.0800	<0.0000470	63	10 - 148	2	20
Fluorene	0.0547	mg/L	1	0.0800	<0.0000569	68	10 - 172	4	20
Anthracene	0.0589	mg/L	1	0.0800	<0.0000876	74	22.5 - 172	2	20
Phenanthrene	0.0568	mg/L	1	0.0800	<0.0000552	71	19.6 - 172	2	20
Fluoranthene	0.0621	mg/L	1	0.0800	<0.0000954	78	17.3 - 187	1	20
Pyrene	0.0629	mg/L	1	0.0800	<0.0000497	79	14.9 - 199	1	20
Benzo(a)anthracene	0.0600	mg/L	1	0.0800	<0.0000328	75	19.4 - 185	1	20
Chrysene	0.0627	mg/L	1	0.0800	<0.0000990	78	18.4 - 188	0	20
Benzo(b)fluoranthene	0.0663	mg/L	1	0.0800	<0.0000684	83	10 - 193	4	20
Benzo(k)fluoranthene	0.0798	mg/L	1	0.0800	<0.0000830	100	27.8 - 196	3	20
Benzo(a)pyrene	0.0755	mg/L	1	0.0800	<0.0000549	94	12.4 - 205	3	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Indeno(1,2,3-cd)pyrene	0.0829	mg/L	1	0.0800	<0.0000869	104	10 - 198	2	20
Dibenzo(a,h)anthracene	0.0783	mg/L	1	0.0800	<0.0000605	98	10 - 172	3	20
Benzo(g,h,i)perylene	0.0792	mg/L	1	0.0800	<0.0000681	99	10 - 186	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Nitrobenzene-d5	0.0431	0.0439	mg/L	1	0.0800	54	55	10 - 165
2-Fluorobiphenyl	0.0445	0.0448	mg/L	1	0.0800	56	56	10 - 157
Terphenyl-d14	0.0650	0.0655	mg/L	1	0.0800	81	82	10 - 220

Laboratory Control Spike (LCS-1)

QC Batch: 51910
Prep Batch: 44517

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-29

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0941	mg/L	1	0.100	<0.00110	94	84 - 119.7
Toluene	0.0927	mg/L	1	0.100	<0.00100	93	84.9 - 118.2
Ethylbenzene	0.0931	mg/L	1	0.100	<0.00100	93	84.4 - 118.6
Xylene	0.269	mg/L	1	0.300	<0.00290	90	84.8 - 117.8

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.101	mg/L	1	0.100	<0.00110	101	84 - 119.7	7	20
Toluene	0.0996	mg/L	1	0.100	<0.00100	100	84.9 - 118.2	7	20
Ethylbenzene	0.0994	mg/L	1	0.100	<0.00100	99	84.4 - 118.6	6	20
Xylene	0.287	mg/L	1	0.300	<0.00290	96	84.8 - 117.8	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)	0.0964	0.0966	mg/L	1	0.100	96	97	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0971	0.0967	mg/L	1	0.100	97	97	67.7 - 126.3

Laboratory Control Spike (LCS-1)

QC Batch: 51932
Prep Batch: 44472

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-28

Analyzed By: DC
Prepared By: DC

Report Date: September 2, 2008
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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.108	mg/L	1	0.100	<0.000500	108	71.7 - 120.5
Toluene	0.107	mg/L	1	0.100	<0.000700	107	75.4 - 118.8
Ethylbenzene	0.106	mg/L	1	0.100	<0.000700	106	73.5 - 118
Xylene	0.319	mg/L	1	0.300	<0.00180	106	72.9 - 118.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.111	mg/L	1	0.100	<0.000500	111	71.7 - 120.5	3	20
Toluene	0.109	mg/L	1	0.100	<0.000700	109	75.4 - 118.8	2	20
Ethylbenzene	0.109	mg/L	1	0.100	<0.000700	109	73.5 - 118	3	20
Xylene	0.325	mg/L	1	0.300	<0.00180	108	72.9 - 118.2	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.107	0.108	mg/L	1	0.100	107	108	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.108	0.108	mg/L	1	0.100	108	108	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 51933
Prep Batch: 44472

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-28

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	0.905	mg/L	1	1.00	0.0967	81	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	0.878	mg/L	1	1.00	0.0967	78	70 - 130	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0980	0.0995	mg/L	1	0.100	98	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0920	0.0940	mg/L	1	0.100	92	94	70 - 130

Matrix Spike (MS-1) Spiked Sample: 171429

QC Batch: 51780
Prep Batch: 44353

Date Analyzed: 2008-08-25
QC Preparation: 2008-08-25

Analyzed By: LD
Prepared By: LD

Report Date: September 2, 2008
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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	26.4	mg/L	1	25.0	5.78	82	70 - 130

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	26.0	mg/L	1	25.0	5.78	81	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
n-Triacontane	12.8	12.6	mg/L	1	10	128	126	70 - 130

Matrix Spike (MS-1) Spiked Sample: 171441

QC Batch: 51910
Prep Batch: 44517

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-29

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.472	mg/L	5	0.500	<0.00550	94	77.5 - 121.1
Toluene	0.467	mg/L	5	0.500	<0.00500	93	78.8 - 119.6
Ethylbenzene	0.472	mg/L	5	0.500	<0.00500	94	77.9 - 120.5
Xylene	1.36	mg/L	5	1.50	<0.0145	91	78.3 - 119.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.485	mg/L	5	0.500	<0.00550	97	77.5 - 121.1	3	20
Toluene	0.481	mg/L	5	0.500	<0.00500	96	78.8 - 119.6	3	20
Ethylbenzene	0.488	mg/L	5	0.500	<0.00500	98	77.9 - 120.5	3	20
Xylene	1.41	mg/L	5	1.50	<0.0145	94	78.3 - 119.4	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)	0.482	0.486	mg/L	5	0.5	96	97	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	0.463	0.464	mg/L	5	0.5	93	93	59.4 - 127.3

Matrix Spike (MS-1) Spiked Sample: 171429

QC Batch: 51932
Prep Batch: 44472

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-28

Analyzed By: DC
Prepared By: DC

Report Date: September 2, 2008
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Hobbs Junction Mainline

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	29.6	mg/L	100	10.0	19.6327	100	10 - 160.8
Toluene	21.3	mg/L	100	10.0	10.9029	104	10 - 160.7
Ethylbenzene	13.0	mg/L	100	10.0	2.1561	108	10 - 158.3
Xylene	35.3	mg/L	100	30.0	3.0877	107	10 - 158

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	31.7	mg/L	100	10.0	19.6327	121	10 - 160.8	7	20
Toluene	22.8	mg/L	100	10.0	10.9029	119	10 - 160.7	7	20
Ethylbenzene	14.0	mg/L	100	10.0	2.1561	118	10 - 158.3	7	20
Xylene	38.4	mg/L	100	30.0	3.0877	118	10 - 158	8	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	10.6	11.0	mg/L	100	10	106	110	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	10.9	11.3	mg/L	100	10	109	113	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 171430

QC Batch: 51933
Prep Batch: 44472

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-28

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	242	mg/L	100	100	140.247	102	70 - 130

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	241	mg/L	100	100	140.247	101	70 - 130	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)	10.1	10.1	mg/L	100	10	101	101	70 - 130
4-Bromofluorobenzene (4-BFB)	10.0	9.80	mg/L	100	10	100	98	70 - 130

Standard (ICV-1)

QC Batch: 51780

Date Analyzed: 2008-08-25

Analyzed By: LD

Report Date: September 2, 2008
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Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	236	94	85 - 115	2008-08-25

Standard (CCV-1)

QC Batch: 51780

Date Analyzed: 2008-08-25

Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	284	114	85 - 115	2008-08-25

Standard (CCV-2)

QC Batch: 51870

Date Analyzed: 2008-08-27

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	55.4	92	80 - 120	2008-08-27
2-Methylnaphthalene		mg/L	60.0	55.3	92	80 - 120	2008-08-27
1-Methylnaphthalene		mg/L	60.0	55.8	93	80 - 120	2008-08-27
Acenaphthylene		mg/L	60.0	58.9	98	80 - 120	2008-08-27
Acenaphthene		mg/L	60.0	57.7	96	80 - 120	2008-08-27
Dibenzofuran		mg/L	60.0	62.0	103	80 - 120	2008-08-27
Fluorene		mg/L	60.0	66.8	111	80 - 120	2008-08-27
Anthracene		mg/L	60.0	58.3	97	80 - 120	2008-08-27
Phenanthrene		mg/L	60.0	56.7	94	80 - 120	2008-08-27
Fluoranthene		mg/L	60.0	55.7	93	80 - 120	2008-08-27
Pyrene		mg/L	60.0	59.3	99	80 - 120	2008-08-27
Benzo(a)anthracene		mg/L	60.0	55.6	93	80 - 120	2008-08-27
Chrysene		mg/L	60.0	57.7	96	80 - 120	2008-08-27
Benzo(b)fluoranthene		mg/L	60.0	56.2	94	80 - 120	2008-08-27
Benzo(k)fluoranthene		mg/L	60.0	61.0	102	80 - 120	2008-08-27
Benzo(a)pyrene		mg/L	60.0	60.5	101	80 - 120	2008-08-27
Indeno(1,2,3-cd)pyrene		mg/L	60.0	67.5	112	80 - 120	2008-08-27
Dibenzo(a,h)anthracene		mg/L	60.0	67.6	113	80 - 120	2008-08-27
Benzo(g,h,i)perylene		mg/L	60.0	67.2	112	80 - 120	2008-08-27

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		56.9	mg/L	1	60.0	95	80 - 120
2-Fluorobiphenyl		54.6	mg/L	1	60.0	91	80 - 120
Terphenyl-d14		58.9	mg/L	1	60.0	98	80 - 120

Standard (ICV-1)

QC Batch: 51910

Date Analyzed: 2008-08-29

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.102	102	85 - 115	2008-08-29
Toluene		mg/L	0.100	0.101	101	85 - 115	2008-08-29
Ethylbenzene		mg/L	0.100	0.103	103	85 - 115	2008-08-29
Xylene		mg/L	0.300	0.299	100	85 - 115	2008-08-29

Standard (CCV-1)

QC Batch: 51910

Date Analyzed: 2008-08-29

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0960	96	85 - 115	2008-08-29
Toluene		mg/L	0.100	0.0950	95	85 - 115	2008-08-29
Ethylbenzene		mg/L	0.100	0.0961	96	85 - 115	2008-08-29
Xylene		mg/L	0.300	0.277	92	85 - 115	2008-08-29

Standard (ICV-1)

QC Batch: 51932

Date Analyzed: 2008-08-29

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.114	114	85 - 115	2008-08-29
Toluene		mg/L	0.100	0.112	112	85 - 115	2008-08-29
Ethylbenzene		mg/L	0.100	0.110	110	85 - 115	2008-08-29
Xylene		mg/L	0.300	0.329	110	85 - 115	2008-08-29

Standard (CCV-1)

QC Batch: 51932

Date Analyzed: 2008-08-29

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.111	111	85 - 115	2008-08-29
Toluene		mg/L	0.100	0.109	109	85 - 115	2008-08-29
Ethylbenzene		mg/L	0.100	0.107	107	85 - 115	2008-08-29

continued ...

Report Date: September 2, 2008
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standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Xylene		mg/L	0.300	0.321	107	85 - 115	2008-08-29

Standard (ICV-1)

QC Batch: 51933

Date Analyzed: 2008-08-29

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.998	100	85 - 115	2008-08-29

Standard (CCV-1)

QC Batch: 51933

Date Analyzed: 2008-08-29

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.06	106	85 - 115	2008-08-29



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NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: September 2, 2008

Work Order: 8082238



Project Location: Hobbs, NM
Project Name: Hobbs Junction Mainline
Project Number: Plains047SPL
SRS#: SRS#2003-00017

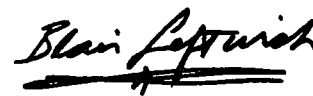
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
171612	MW-15	water	2008-08-22	11:19	2008-08-22
171613	MW-11	water	2008-08-22	12:04	2008-08-22
171614	MW-5	water	2008-08-22	12:56	2008-08-22
171615	MW-1	water	2008-08-22	13:38	2008-08-22

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.

A handwritten signature in cursive script, reading "Blair Leftwich". The signature is written in black ink and is positioned above a horizontal line.

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Hobbs Junction Mainline were received by TraceAnalysis, Inc. on 2008-08-22 and assigned to work order 8082238. Samples for work order 8082238 were received intact without headspace and at a temperature of 4.0 deg. C.

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

Test	Method
BTEX	S 8021B
PAH	S 8270C
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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 8082238 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 171612 - MW-15

Laboratory: Midland
Analysis: BTEX
QC Batch: 51940
Prep Batch: 44537

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		5.04	mg/L	20	0.00100
Toluene		2.71	mg/L	20	0.00100
Ethylbenzene		0.593	mg/L	20	0.00100
Xylene		0.644	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.88	mg/L	20	2.00	94	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		1.64	mg/L	20	2.00	82	40.1 - 136

Sample: 171612 - MW-15

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51891
Prep Batch: 44499

Analytical Method: S 8270C
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0239	mg/L	1	0.000200
2-Methylnaphthalene		0.0202	mg/L	1	0.000200
1-Methylnaphthalene		0.0208	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.00201	mg/L	1	0.000200
Fluorene		0.00167	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.00167	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200

continued ...

sample 171612 continued ...

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0470	mg/L	1	0.0800	59	37.4 - 123
2-Fluorobiphenyl		0.0514	mg/L	1	0.0800	64	34.3 - 130
Terphenyl-d14		0.0589	mg/L	1	0.0800	74	10 - 252

Sample: 171612 - MW-15

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 51780
Prep Batch: 44353

Analytical Method: Mod. 8015B
Date Analyzed: 2008-08-25
Sample Preparation: 2008-08-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		6.01	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	¹	14.2	mg/L	1	10.0	142	70 - 130

Sample: 171612 - MW-15

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 51945
Prep Batch: 44537

Analytical Method: S 8015B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		12.7	mg/L	20	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.86	mg/L	20	2.00	93	70 - 130
4-Bromofluorobenzene (4-BFB)		1.64	mg/L	20	2.00	82	70 - 130

¹High surrogate recovery. Sample non-detect, result bias high.

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Sample: 171613 - MW-11

Laboratory: Midland
Analysis: BTEX
QC Batch: 51940
Prep Batch: 44537

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		24.7	mg/L	100	0.00100
Toluene		2.86	mg/L	100	0.00100
Ethylbenzene		1.68	mg/L	100	0.00100
Xylene		1.13	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.4	mg/L	100	10.0	104	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		10.8	mg/L	100	10.0	108	40.1 - 136

Sample: 171613 - MW-11

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51891
Prep Batch: 44499

Analytical Method: S 8270C
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0416	mg/L	1	0.000200
2-Methylnaphthalene		0.0246	mg/L	1	0.000200
1-Methylnaphthalene		0.0310	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.00250	mg/L	1	0.000200
Fluorene		0.00172	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.00132	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0490	mg/L	1	0.0800	61	37.4 - 123
2-Fluorobiphenyl		0.0543	mg/L	1	0.0800	68	34.3 - 130
Terphenyl-d14		0.0568	mg/L	1	0.0800	71	10 - 252

Sample: 171613 - MW-11

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 51780
Prep Batch: 44353

Analytical Method: Mod. 8015B
Date Analyzed: 2008-08-25
Sample Preparation: 2008-08-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		12.2	mg/L	1	10.0	122	70 - 130

Sample: 171613 - MW-11

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 51945
Prep Batch: 44537

Analytical Method: S 8015B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		16.4	mg/L	20	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.94	mg/L	20	2.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)		1.76	mg/L	20	2.00	88	70 - 130

Sample: 171614 - MW-5

Laboratory: Midland
Analysis: BTEX
QC Batch: 51940
Prep Batch: 44537

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		12.0	mg/L	50	0.00100
Toluene		10.8	mg/L	50	0.00100
Ethylbenzene		1.78	mg/L	50	0.00100
Xylene		6.02	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.74	mg/L	50	5.00	95	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		4.52	mg/L	50	5.00	90	40.1 - 136

Sample: 171614 - MW-5

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51891
Prep Batch: 44499

Analytical Method: S 8270C
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0262	mg/L	1	0.000200
2-Methylnaphthalene		0.0263	mg/L	1	0.000200
1-Methylnaphthalene		0.0272	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.00244	mg/L	1	0.000200
Fluorene		0.00206	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.00190	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0489	mg/L	1	0.0800	61	37.4 - 123
2-Fluorobiphenyl		0.0534	mg/L	1	0.0800	67	34.3 - 130
Terphenyl-d14		0.0591	mg/L	1	0.0800	74	10 - 252

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Sample: 171614 - MW-5

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 51780
Prep Batch: 44353

Analytical Method: Mod. 8015B
Date Analyzed: 2008-08-25
Sample Preparation: 2008-08-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		10.9	mg/L	1	10.0	109	70 - 130

Sample: 171614 - MW-5

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 51945
Prep Batch: 44537

Analytical Method: S 8015B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		60.9	mg/L	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.62	mg/L	50	5.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)		4.50	mg/L	50	5.00	90	70 - 130

Sample: 171615 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 51940
Prep Batch: 44537

Analytical Method: S 8021B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		14.7	mg/L	50	0.00100
Toluene		7.36	mg/L	50	0.00100
Ethylbenzene		1.32	mg/L	50	0.00100
Xylene		1.65	mg/L	50	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.79	mg/L	50	5.00	96	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		4.77	mg/L	50	5.00	95	40.1 - 136

Sample: 171615 - MW-1

Laboratory: Lubbock
Analysis: PAH
QC Batch: 51891
Prep Batch: 44499

Analytical Method: S 8270C
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0445	mg/L	1	0.000200
2-Methylnaphthalene		0.0386	mg/L	1	0.000200
1-Methylnaphthalene		0.0400	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.00340	mg/L	1	0.000200
Fluorene		0.00272	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.00249	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0450	mg/L	1	0.0800	56	37.4 - 123
2-Fluorobiphenyl		0.0486	mg/L	1	0.0800	61	34.3 - 130
Terphenyl-d14		0.0586	mg/L	1	0.0800	73	10 - 252

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Sample: 171615 - MW-1

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 51780
Prep Batch: 44353

Analytical Method: Mod. 8015B
Date Analyzed: 2008-08-25
Sample Preparation: 2008-08-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	²	13.7	mg/L	1	10.0	137	70 - 130

Sample: 171615 - MW-1

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 51945
Prep Batch: 44537

Analytical Method: S 8015B
Date Analyzed: 2008-08-29
Sample Preparation: 2008-08-29

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		32.2	mg/L	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.62	mg/L	50	5.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)		4.71	mg/L	50	5.00	94	70 - 130

Method Blank (1) QC Batch: 51780

QC Batch: 51780
Prep Batch: 44353

Date Analyzed: 2008-08-25
QC Preparation: 2008-08-25

Analyzed By: LD
Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		<2.44	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		12.0	mg/L	1	10.0	120	70 - 130

²High surrogate recovery. Sample non-detect, result bias high.

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Method Blank (1) QC Batch: 51891

QC Batch: 51891
Prep Batch: 44499

Date Analyzed: 2008-08-28
QC Preparation: 2008-08-28

Analyzed By: DS
Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
Naphthalene		0.000170	mg/L	0.0002
2-Methylnaphthalene		<0.0000509	mg/L	0.0002
1-Methylnaphthalene		<0.0000748	mg/L	0.0002
Acenaphthylene		<0.0000767	mg/L	0.0002
Acenaphthene		<0.000142	mg/L	0.0002
Dibenzofuran		<0.0000470	mg/L	0.0002
Fluorene		<0.0000569	mg/L	0.0002
Anthracene		<0.0000876	mg/L	0.0002
Phenanthrene		<0.0000552	mg/L	0.0002
Fluoranthene		<0.0000954	mg/L	0.0002
Pyrene		<0.0000497	mg/L	0.0002
Benzo(a)anthracene		<0.0000328	mg/L	0.0002
Chrysene		<0.0000990	mg/L	0.0002
Benzo(b)fluoranthene		<0.0000684	mg/L	0.0002
Benzo(k)fluoranthene		<0.0000830	mg/L	0.0002
Benzo(a)pyrene		<0.0000549	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000869	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000605	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000681	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0486	mg/L	1	0.0800	61	10 - 146
2-Fluorobiphenyl		0.0449	mg/L	1	0.0800	56	10 - 141
Terphenyl-d14		0.0653	mg/L	1	0.0800	82	10 - 266

Method Blank (1) QC Batch: 51940

QC Batch: 51940
Prep Batch: 44537

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-29

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0950	mg/L	1	0.100	95	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0910	mg/L	1	0.100	91	69.1 - 122.3

Method Blank (1) QC Batch: 51945

QC Batch: 51945
Prep Batch: 44537

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-29

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
GRO		0.0870	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0933	mg/L	1	0.100	93	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0888	mg/L	1	0.100	89	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 51780
Prep Batch: 44353

Date Analyzed: 2008-08-25
QC Preparation: 2008-08-25

Analyzed By: LD
Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	27.0	mg/L	1	25.0	<2.44	108	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	28.5	mg/L	1	25.0	<2.44	114	70 - 130	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	11.1	11.4	mg/L	1	10.0	111	114	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 51891
Prep Batch: 44499

Date Analyzed: 2008-08-28
QC Preparation: 2008-08-28

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0524	mg/L	1	0.0800	0.00017025	65	10 - 141
2-Methylnaphthalene	0.0573	mg/L	1	0.0800	<0.0000509	72	50 - 150
1-Methylnaphthalene	0.0564	mg/L	1	0.0800	<0.0000748	70	50 - 150
Acenaphthylene	0.0656	mg/L	1	0.0800	<0.0000767	82	10 - 152
Acenaphthene	0.0620	mg/L	1	0.0800	<0.000142	78	10 - 151
Dibenzofuran	0.0625	mg/L	1	0.0800	<0.0000470	78	10 - 148
Fluorene	0.0688	mg/L	1	0.0800	<0.0000569	86	10 - 172
Anthracene	0.0661	mg/L	1	0.0800	<0.0000876	83	22.5 - 172
Phenanthrene	0.0664	mg/L	1	0.0800	<0.0000552	83	19.6 - 172
Fluoranthene	0.0717	mg/L	1	0.0800	<0.0000954	90	17.3 - 187
Pyrene	0.0714	mg/L	1	0.0800	<0.0000497	89	14.9 - 199
Benzo(a)anthracene	0.0677	mg/L	1	0.0800	<0.0000328	85	19.4 - 185
Chrysene	0.0705	mg/L	1	0.0800	<0.0000990	88	18.4 - 188
Benzo(b)fluoranthene	0.0658	mg/L	1	0.0800	<0.0000684	82	10 - 193
Benzo(k)fluoranthene	0.0774	mg/L	1	0.0800	<0.0000830	97	27.8 - 196
Benzo(a)pyrene	0.0761	mg/L	1	0.0800	<0.0000549	95	12.4 - 205
Indeno(1,2,3-cd)pyrene	0.0822	mg/L	1	0.0800	<0.0000869	103	10 - 198
Dibenzo(a,h)anthracene	0.0810	mg/L	1	0.0800	<0.0000605	101	10 - 172
Benzo(g,h,i)perylene	0.0813	mg/L	1	0.0800	<0.0000681	102	10 - 186

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene	0.0542	mg/L	1	0.0800	0.00017025	68	10 - 141	3	20
2-Methylnaphthalene	0.0575	mg/L	1	0.0800	<0.0000509	72	50 - 150	0	20
1-Methylnaphthalene	0.0575	mg/L	1	0.0800	<0.0000748	72	50 - 150	2	20
Acenaphthylene	0.0686	mg/L	1	0.0800	<0.0000767	86	10 - 152	4	20
Acenaphthene	0.0647	mg/L	1	0.0800	<0.000142	81	10 - 151	4	20
Dibenzofuran	0.0650	mg/L	1	0.0800	<0.0000470	81	10 - 148	4	20
Fluorene	0.0727	mg/L	1	0.0800	<0.0000569	91	10 - 172	6	20
Anthracene	0.0684	mg/L	1	0.0800	<0.0000876	86	22.5 - 172	3	20
Phenanthrene	0.0690	mg/L	1	0.0800	<0.0000552	86	19.6 - 172	4	20
Fluoranthene	0.0741	mg/L	1	0.0800	<0.0000954	93	17.3 - 187	3	20
Pyrene	0.0769	mg/L	1	0.0800	<0.0000497	96	14.9 - 199	7	20
Benzo(a)anthracene	0.0705	mg/L	1	0.0800	<0.0000328	88	19.4 - 185	4	20
Chrysene	0.0752	mg/L	1	0.0800	<0.0000990	94	18.4 - 188	6	20
Benzo(b)fluoranthene	0.0677	mg/L	1	0.0800	<0.0000684	85	10 - 193	3	20
Benzo(k)fluoranthene	0.0830	mg/L	1	0.0800	<0.0000830	104	27.8 - 196	7	20
Benzo(a)pyrene	0.0799	mg/L	1	0.0800	<0.0000549	100	12.4 - 205	5	20
Indeno(1,2,3-cd)pyrene	0.0867	mg/L	1	0.0800	<0.0000869	108	10 - 198	5	20
Dibenzo(a,h)anthracene	0.0857	mg/L	1	0.0800	<0.0000605	107	10 - 172	6	20
Benzo(g,h,i)perylene	0.0866	mg/L	1	0.0800	<0.0000681	108	10 - 186	6	20

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

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Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Nitrobenzene-d5	0.0583	0.0598	mg/L	1	0.0800	73	75	10 - 165
2-Fluorobiphenyl	0.0578	0.0596	mg/L	1	0.0800	72	74	10 - 157
Terphenyl-d14	0.0724	0.0759	mg/L	1	0.0800	90	95	10 - 220

Laboratory Control Spike (LCS-1)

QC Batch: 51940
Prep Batch: 44537

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-29

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0965	mg/L	1	0.100	<0.00110	96	84 - 119.7
Toluene	0.0971	mg/L	1	0.100	<0.00100	97	84.9 - 118.2
Ethylbenzene	0.0979	mg/L	1	0.100	<0.00100	98	84.4 - 118.6
Xylene	0.284	mg/L	1	0.300	<0.00290	95	84.8 - 117.8

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0967	mg/L	1	0.100	<0.00110	97	84 - 119.7	0	20
Toluene	0.0969	mg/L	1	0.100	<0.00100	97	84.9 - 118.2	0	20
Ethylbenzene	0.0986	mg/L	1	0.100	<0.00100	99	84.4 - 118.6	1	20
Xylene	0.285	mg/L	1	0.300	<0.00290	95	84.8 - 117.8	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)	0.0963	0.0957	mg/L	1	0.100	96	96	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0932	0.0935	mg/L	1	0.100	93	94	67.7 - 126.3

Laboratory Control Spike (LCS-1)

QC Batch: 51945
Prep Batch: 44537

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-29

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	0.920	mg/L	1	1.00	0.087	83	70 - 130

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

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	0.969	mg/L	1	1.00	0.087	88	70 - 130	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.101	0.0964	mg/L	1	0.100	101	96	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0918	0.0920	mg/L	1	0.100	92	92	70 - 130

Matrix Spike (MS-1) Spiked Sample: 171429

QC Batch: 51780
Prep Batch: 44353

Date Analyzed: 2008-08-25
QC Preparation: 2008-08-25

Analyzed By: LD
Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	26.4	mg/L	1	25.0	5.78	82	70 - 130

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	26.0	mg/L	1	25.0	5.78	81	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
n-Triacontane	12.8	12.6	mg/L	1	10	128	126	70 - 130

Matrix Spike (MS-1) Spiked Sample: 172364

QC Batch: 51940
Prep Batch: 44537

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-29

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	³ 0.0661	mg/L	1	0.100	<0.00110	66	77.5 - 121.1
Toluene	⁴ 0.0658	mg/L	1	0.100	<0.00100	66	78.8 - 119.6

continued ...

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

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

matrix spikes continued ...

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Ethylbenzene	⁵	0.0677	mg/L	1	0.100	<0.00100	68	77.9 - 120.5
Xylene	⁶	0.190	mg/L	1	0.300	<0.00290	63	78.3 - 119.4

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	⁷	0.0984	mg/L	1	0.100	<0.00110	98	77.5 - 121.1	39	20
Toluene	⁸	0.0976	mg/L	1	0.100	<0.00100	98	78.8 - 119.6	39	20
Ethylbenzene	⁹	0.0992	mg/L	1	0.100	<0.00100	99	77.9 - 120.5	38	20
Xylene	¹⁰	0.284	mg/L	1	0.300	<0.00290	95	78.3 - 119.4	40	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)		0.0938	0.0948	mg/L	1	0.1	94	95	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)		0.0854	0.0841	mg/L	1	0.1	85	84	59.4 - 127.3

Matrix Spike (MS-1) Spiked Sample: 171614

QC Batch: 51945
Prep Batch: 44537

Date Analyzed: 2008-08-29
QC Preparation: 2008-08-29

Analyzed By: DC
Prepared By: DC

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	¹¹	66.3	mg/L	50	50.0	60.8702	11	70 - 130

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	¹²	67.8	mg/L	50	50.0	60.8702	14	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)		5.07	4.89	mg/L	50	5	101	98	70 - 130

continued ...

⁵Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁶Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁷MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

⁸MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

⁹MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

¹⁰MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

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

¹²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

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matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	4.83	4.87	mg/L	50	5	97	97	70 - 130

Standard (ICV-1)

QC Batch: 51780

Date Analyzed: 2008-08-25

Analyzed By: LD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	236	94	85 - 115	2008-08-25

Standard (CCV-1)

QC Batch: 51780

Date Analyzed: 2008-08-25

Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	284	114	85 - 115	2008-08-25

Standard (CCV-2)

QC Batch: 51780

Date Analyzed: 2008-08-25

Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	281	112	85 - 115	2008-08-25

Standard (CCV-1)

QC Batch: 51891

Date Analyzed: 2008-08-28

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	56.9	95	80 - 120	2008-08-28
2-Methylnaphthalene		mg/L	60.0	54.5	91	80 - 120	2008-08-28
1-Methylnaphthalene		mg/L	60.0	55.1	92	80 - 120	2008-08-28
Acenaphthylene		mg/L	60.0	59.7	100	80 - 120	2008-08-28
Acenaphthene		mg/L	60.0	57.6	96	80 - 120	2008-08-28
Dibenzofuran		mg/L	60.0	61.2	102	80 - 120	2008-08-28

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluorene		mg/L	60.0	65.1	108	80 - 120	2008-08-28
Anthracene		mg/L	60.0	58.5	98	80 - 120	2008-08-28
Phenanthrene		mg/L	60.0	56.6	94	80 - 120	2008-08-28
Fluoranthene		mg/L	60.0	56.7	94	80 - 120	2008-08-28
Pyrene		mg/L	60.0	60.4	101	80 - 120	2008-08-28
Benzo(a)anthracene		mg/L	60.0	55.8	93	80 - 120	2008-08-28
Chrysene		mg/L	60.0	58.2	97	80 - 120	2008-08-28
Benzo(b)fluoranthene		mg/L	60.0	56.7	94	80 - 120	2008-08-28
Benzo(k)fluoranthene		mg/L	60.0	61.6	103	80 - 120	2008-08-28
Benzo(a)pyrene		mg/L	60.0	60.8	101	80 - 120	2008-08-28
Indeno(1,2,3-cd)pyrene		mg/L	60.0	68.6	114	80 - 120	2008-08-28
Dibenzo(a,h)anthracene		mg/L	60.0	67.9	113	80 - 120	2008-08-28
Benzo(g,h,i)perylene		mg/L	60.0	67.0	112	80 - 120	2008-08-28

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		59.2	mg/L	1	60.0	99	80 - 120
2-Fluorobiphenyl		56.7	mg/L	1	60.0	94	80 - 120
Terphenyl-d14		59.3	mg/L	1	60.0	99	80 - 120

Standard (ICV-1)

QC Batch: 51940

Date Analyzed: 2008-08-29

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0916	92	85 - 115	2008-08-29
Toluene		mg/L	0.100	0.0951	95	85 - 115	2008-08-29
Ethylbenzene		mg/L	0.100	0.0944	94	85 - 115	2008-08-29
Xylene		mg/L	0.300	0.274	91	85 - 115	2008-08-29

Standard (CCV-1)

QC Batch: 51940

Date Analyzed: 2008-08-29

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0960	96	85 - 115	2008-08-29
Toluene		mg/L	0.100	0.0949	95	85 - 115	2008-08-29
Ethylbenzene		mg/L	0.100	0.0962	96	85 - 115	2008-08-29

continued ...

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standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Xylene		mg/L	0.300	0.277	92	85 - 115	2008-08-29

Standard (ICV-1)

QC Batch: 51945

Date Analyzed: 2008-08-29

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.08	108	85 - 115	2008-08-29

Standard (CCV-1)

QC Batch: 51945

Date Analyzed: 2008-08-29

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.09	109	85 - 115	2008-08-29

TraceAnalysis, Inc.

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Lubbock, Texas 79424
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email: lab@traceanalysis.com

Company Name: **Talon LPE**
Address: (Street, City, Zip)
Contact Person: **Shanna Smith**
Invoice to: **Shanna Smith**
(If different from above) **SRS 2003 - 00017**
Project #: **PLAIN 30475PL**
Project Location (including state): **Hobbs, NM**
Project Name: **Junction Mainline**
Sampler Signature: **Camille Reynolds**
E-mail: **semit@talonlpe.com**

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBF 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 EX(C35)	PAH 8015 GFO / DRO / TVHC	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCBs 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard
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REMARKS:
BTEX, 8015 - Midland
PAH - Lubbock

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

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
171612	MW - 15	7	LTR VDA	✓				✓				✓		8-22-08	1115
171613	MW - 11	7	LTR VDA	✓				✓				✓		8-22-08	1204
171614	MW - 05	7	LTR VDA	✓				✓				✓		8-22-08	1256
171615	MW - 01	7	LTR VDA	✓				✓				✓		8-22-08	1358

Relinquished by: **Shanna Smith** Date: **8/22/08** Time: **1555**
Received by: **Shanna Smith** Date: **8/22/08** Time: **1555**

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



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296
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

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

Report Date: November 25, 2008

Work Order: 8111909



Project Location: Hobbs, NM
Project Name: Hobbs Junction Mainline
Project Number: Plains047SPL
SRS#: 2003-00017

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
179845	MW-10	water	2008-11-18	13:44	2008-11-19
179846	MW-16	water	2008-11-18	13:51	2008-11-19
179847	MW-18	water	2008-11-18	14:10	2008-11-19
179848	MW-19	water	2008-11-18	14:00	2008-11-19
179849	MW-20	water	2008-11-18	14:35	2008-11-19
179850	MW-21	water	2008-11-18	14:42	2008-11-19
179851	MW-22	water	2008-11-18	14:20	2008-11-19
179852	MW-23	water	2008-11-18	14:15	2008-11-19
179853	MW-24	water	2008-11-18	14:30	2008-11-19

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

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Hobbs Junction Mainline were received by TraceAnalysis, Inc. on 2008-11-19 and assigned to work order 8111909. Samples for work order 8111909 were received intact without headspace and at a temperature of 3.5 deg. C.

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

Test	Method
BTEX	S 8021B

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 8111909 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 179845 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 54502
Prep Batch: 46613

Analytical Method: S 8021B
Date Analyzed: 2008-11-20
Sample Preparation: 2008-11-20

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		3.35	mg/L	20	0.00100
Toluene		<0.0200	mg/L	20	0.00100
Ethylbenzene		0.255	mg/L	20	0.00100
Xylene		<0.0200	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.93	mg/L	20	2.00	96	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		1.87	mg/L	20	2.00	94	52 - 124.1

Sample: 179846 - MW-16

Laboratory: Midland
Analysis: BTEX
QC Batch: 54502
Prep Batch: 46613

Analytical Method: S 8021B
Date Analyzed: 2008-11-20
Sample Preparation: 2008-11-20

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00200	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)		0.0988	mg/L	1	0.100	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0949	mg/L	1	0.100	95	52 - 124.1

Sample: 179847 - MW-18

Laboratory: Midland
Analysis: BTEX
QC Batch: 54505
Prep Batch: 46613

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-20

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0986	mg/L	1	0.100	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0932	mg/L	1	0.100	93	52 - 124.1

Sample: 179848 - MW-19

Laboratory: Midland
Analysis: BTEX
QC Batch: 54505
Prep Batch: 46613

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-20

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0989	mg/L	1	0.100	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0943	mg/L	1	0.100	94	52 - 124.1

Sample: 179849 - MW-20

Laboratory: Midland
Analysis: BTEX
QC Batch: 54551
Prep Batch: 46656

Analytical Method: S 8021B
Date Analyzed: 2008-11-23
Sample Preparation: 2008-11-22

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		27.3	mg/L	100	0.00100
Toluene		<0.100	mg/L	100	0.00100
Ethylbenzene		1.72	mg/L	100	0.00100
Xylene		0.276	mg/L	100	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.69	mg/L	100	10.0	97	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		9.56	mg/L	100	10.0	96	52 - 124.1

Sample: 179850 - MW-21

Laboratory: Midland
Analysis: BTEX
QC Batch: 54505
Prep Batch: 46613

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-20

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		1.22	mg/L	20	0.00100
Toluene		0.0253	mg/L	20	0.00100
Ethylbenzene		0.222	mg/L	20	0.00100
Xylene		0.0469	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.00	mg/L	20	2.00	100	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		1.95	mg/L	20	2.00	98	52 - 124.1

Sample: 179851 - MW-22

Laboratory: Midland
Analysis: BTEX
QC Batch: 54505
Prep Batch: 46613

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-20

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0148	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)		0.0987	mg/L	1	0.100	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0945	mg/L	1	0.100	94	52 - 124.1

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Sample: 179852 - MW-23

Laboratory: Midland

Analysis: BTEX

QC Batch: 54505

Prep Batch: 46613

Analytical Method: S 8021B

Date Analyzed: 2008-11-21

Sample Preparation: 2008-11-20

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0987	mg/L	1	0.100	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0935	mg/L	1	0.100	94	52 - 124.1

Sample: 179853 - MW-24

Laboratory: Midland

Analysis: BTEX

QC Batch: 54505

Prep Batch: 46613

Analytical Method: S 8021B

Date Analyzed: 2008-11-21

Sample Preparation: 2008-11-20

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0941	mg/L	1	0.100	94	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0891	mg/L	1	0.100	89	52 - 124.1

Method Blank (1) QC Batch: 54502

QC Batch: 54502

Prep Batch: 46613

Date Analyzed: 2008-11-20

QC Preparation: 2008-11-20

Analyzed By: AG

Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000800	mg/L	0.001
Toluene		<0.000800	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0937	mg/L	1	0.100	94	37.1 - 130.9

Method Blank (1) QC Batch: 54505

QC Batch: 54505
Prep Batch: 46613

Date Analyzed: 2008-11-21
QC Preparation: 2008-11-20

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000800	mg/L	0.001
Toluene		<0.000800	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0949	mg/L	1	0.100	95	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0909	mg/L	1	0.100	91	37.1 - 130.9

Method Blank (1) QC Batch: 54551

QC Batch: 54551
Prep Batch: 46656

Date Analyzed: 2008-11-23
QC Preparation: 2008-11-22

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000800	mg/L	0.001
Toluene		<0.000800	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0972	mg/L	1	0.100	97	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0949	mg/L	1	0.100	95	37.1 - 130.9

Laboratory Control Spike (LCS-1)

QC Batch: 54502
Prep Batch: 46613

Date Analyzed: 2008-11-20
QC Preparation: 2008-11-20

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.102	mg/L	1	0.100	<0.000800	102	71.7 - 120.5
Toluene	0.100	mg/L	1	0.100	<0.000800	100	75.4 - 118.8
Ethylbenzene	0.0987	mg/L	1	0.100	<0.000500	99	73.5 - 118
Xylene	0.297	mg/L	1	0.300	<0.000900	99	72.9 - 118.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.100	mg/L	1	0.100	<0.000800	100	71.7 - 120.5	2	20
Toluene	0.0998	mg/L	1	0.100	<0.000800	100	75.4 - 118.8	0	20
Ethylbenzene	0.0994	mg/L	1	0.100	<0.000500	99	73.5 - 118	1	20
Xylene	0.300	mg/L	1	0.300	<0.000900	100	72.9 - 118.2	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.102	0.100	mg/L	1	0.100	102	100	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0991	0.0986	mg/L	1	0.100	99	99	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 54505
Prep Batch: 46613

Date Analyzed: 2008-11-21
QC Preparation: 2008-11-20

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0939	mg/L	1	0.100	<0.000800	94	71.7 - 120.5
Toluene	0.0929	mg/L	1	0.100	<0.000800	93	75.4 - 118.8
Ethylbenzene	0.0913	mg/L	1	0.100	<0.000500	91	73.5 - 118
Xylene	0.274	mg/L	1	0.300	<0.000900	91	72.9 - 118.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0944	mg/L	1	0.100	<0.000800	94	71.7 - 120.5	0	20
Toluene	0.0930	mg/L	1	0.100	<0.000800	93	75.4 - 118.8	0	20
Ethylbenzene	0.0921	mg/L	1	0.100	<0.000500	92	73.5 - 118	1	20
Xylene	0.278	mg/L	1	0.300	<0.000900	93	72.9 - 118.2	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0963	0.0947	mg/L	1	0.100	96	95	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0960	0.0953	mg/L	1	0.100	96	95	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 54551
Prep Batch: 46656

Date Analyzed: 2008-11-23
QC Preparation: 2008-11-22

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0966	mg/L	1	0.100	<0.000800	97	71.7 - 120.5
Toluene	0.0955	mg/L	1	0.100	<0.000800	96	75.4 - 118.8
Ethylbenzene	0.0944	mg/L	1	0.100	<0.000500	94	73.5 - 118
Xylene	0.284	mg/L	1	0.300	<0.000900	95	72.9 - 118.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0953	mg/L	1	0.100	<0.000800	95	71.7 - 120.5	1	20
Toluene	0.0948	mg/L	1	0.100	<0.000800	95	75.4 - 118.8	1	20
Ethylbenzene	0.0943	mg/L	1	0.100	<0.000500	94	73.5 - 118	0	20
Xylene	0.285	mg/L	1	0.300	<0.000900	95	72.9 - 118.2	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)	0.0986	0.0975	mg/L	1	0.100	99	98	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0989	0.0989	mg/L	1	0.100	99	99	43.9 - 132.4

Matrix Spike (MS-1) Spiked Sample: 179845

QC Batch: 54502
Prep Batch: 46613

Date Analyzed: 2008-11-20
QC Preparation: 2008-11-20

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	5.39	mg/L	20	2.00	3.3524	102	10 - 160.8
Toluene	1.88	mg/L	20	2.00	<0.0160	94	10 - 160.7
Ethylbenzene	2.09	mg/L	20	2.00	0.2551	92	10 - 158.3
Xylene	5.49	mg/L	20	6.00	<0.0180	92	10 - 158

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

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Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	5.62	mg/L	20	2.00	3.3524	113	10 - 160.8	4	20
Toluene	1.91	mg/L	20	2.00	<0.0160	96	10 - 160.7	2	20
Ethylbenzene	2.19	mg/L	20	2.00	0.2551	97	10 - 158.3	5	20
Xylene	5.72	mg/L	20	6.00	<0.0180	95	10 - 158	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)	1.92	1.94	mg/L	20	2	96	97	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	1.92	1.94	mg/L	20	2	96	97	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 179850

QC Batch: 54505
Prep Batch: 46613

Date Analyzed: 2008-11-21
QC Preparation: 2008-11-20

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	3.22	mg/L	20	2.00	1.2185	100	10 - 160.8
Toluene	1.92	mg/L	20	2.00	0.0253	95	10 - 160.7
Ethylbenzene	2.10	mg/L	20	2.00	0.2215	94	10 - 158.3
Xylene	5.69	mg/L	20	6.00	0.0469	94	10 - 158

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	3.22	mg/L	20	2.00	1.2185	100	10 - 160.8	0	20
Toluene	1.92	mg/L	20	2.00	0.0253	95	10 - 160.7	0	20
Ethylbenzene	2.13	mg/L	20	2.00	0.2215	95	10 - 158.3	1	20
Xylene	5.76	mg/L	20	6.00	0.0469	95	10 - 158	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)	1.98	1.97	mg/L	20	2	99	98	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	1.99	1.98	mg/L	20	2	100	99	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 180146

QC Batch: 54551
Prep Batch: 46656

Date Analyzed: 2008-11-23
QC Preparation: 2008-11-22

Analyzed By: AG
Prepared By: AG

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	13.4	mg/L	100	10.0	3.823	96	10 - 160.8
Toluene	9.32	mg/L	100	10.0	0.1349	92	10 - 160.7
Ethylbenzene	10.9	mg/L	100	10.0	1.2763	96	10 - 158.3
Xylene	28.1	mg/L	100	30.0	0.4713	92	10 - 158

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	13.6	mg/L	100	10.0	3.823	98	10 - 160.8	2	20
Toluene	9.70	mg/L	100	10.0	0.1349	96	10 - 160.7	4	20
Ethylbenzene	10.9	mg/L	100	10.0	1.2763	96	10 - 158.3	0	20
Xylene	29.0	mg/L	100	30.0	0.4713	95	10 - 158	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	9.92	9.81	mg/L	100	10	99	98	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	9.84	9.74	mg/L	100	10	98	97	37.5 - 136

Standard (ICV-1)

QC Batch: 54502

Date Analyzed: 2008-11-20

Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.107	107	85 - 115	2008-11-20
Toluene		mg/L	0.100	0.107	107	85 - 115	2008-11-20
Ethylbenzene		mg/L	0.100	0.107	107	85 - 115	2008-11-20
Xylene		mg/L	0.300	0.321	107	85 - 115	2008-11-20

Standard (CCV-1)

QC Batch: 54502

Date Analyzed: 2008-11-20

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.100	100	85 - 115	2008-11-20
Toluene		mg/L	0.100	0.0987	99	85 - 115	2008-11-20
Ethylbenzene		mg/L	0.100	0.0988	99	85 - 115	2008-11-20
Xylene		mg/L	0.300	0.298	99	85 - 115	2008-11-20

Standard (ICV-1)

QC Batch: 54505

Date Analyzed: 2008-11-21

Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0939	94	85 - 115	2008-11-21
Toluene		mg/L	0.100	0.0931	93	85 - 115	2008-11-21
Ethylbenzene		mg/L	0.100	0.0948	95	85 - 115	2008-11-21
Xylene		mg/L	0.300	0.284	95	85 - 115	2008-11-21

Standard (CCV-1)

QC Batch: 54505

Date Analyzed: 2008-11-21

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0991	99	85 - 115	2008-11-21
Toluene		mg/L	0.100	0.0973	97	85 - 115	2008-11-21
Ethylbenzene		mg/L	0.100	0.0969	97	85 - 115	2008-11-21
Xylene		mg/L	0.300	0.290	97	85 - 115	2008-11-21

Standard (ICV-1)

QC Batch: 54551

Date Analyzed: 2008-11-23

Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0978	98	85 - 115	2008-11-23
Toluene		mg/L	0.100	0.0977	98	85 - 115	2008-11-23
Ethylbenzene		mg/L	0.100	0.0972	97	85 - 115	2008-11-23
Xylene		mg/L	0.300	0.293	98	85 - 115	2008-11-23

Standard (CCV-1)

QC Batch: 54551

Date Analyzed: 2008-11-23

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.102	102	85 - 115	2008-11-23
Toluene		mg/L	0.100	0.0996	100	85 - 115	2008-11-23
Ethylbenzene		mg/L	0.100	0.100	100	85 - 115	2008-11-23

continued ...

Report Date: November 25, 2008
Plains047SPL

Work Order: 8111909
Hobbs Junction Mainline

Page Number: 14 of 14
Hobbs, NM

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Xylene		mg/L	0.300	0.301	100	85 - 115	2008-11-23

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

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

Company Name: Talon/LPE Phone #: (432) 522-2133
Address: (Street, City, Zip) Fax #:
2901 Rankin Hwy.
Contact Person: Shanna Smith E-mail: ssmith@talonlpe.com
Invoice to: JASON HENRY
(If different from above) Daniel Bryant Project Name: SRP# 2003-00017
Project #: PLAIN50478PL 140663 Junction Mainline
Project Location (including state): Hobbes, N.M. Sampler Signature: Carl Vessels / Camilo Chavez

ANALYSIS REQUEST
(Circle or Specify Method No.)

2901 Rankin Hwy. Shanna Smith		Contact Person:		E-mail: <u>ssmith@talonpc.com</u>										
Invoice to: <u>JASON HENRY</u>		Project Name: <u>SPS # 2003-00017</u>												
(If different from above) <u>Daniel Bryant</u>														
Project #: <u>PLAIN0478PL</u>														
Project Location (including state): <u>Hobbs, N.M.</u>														
Sampler Signature: <u>Carl Vessels/Carmito Chavez</u>														
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					DATE	TIME
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE		
179845	MW-10	3	60A	X				X					11/9/88	1344
846	MW-16	3	1	X				X					1357	1410
847	MW-18	3		X				X					1400	1435
848	MW-19	3		X				X					1412	1420
849	MW-20	3		X				X					1415	1430
850	MW-21	3		X				X					1420	
851	MW-22	3		X				X					1415	
852	MW-23	3		X				X					1430	
853	MW-24	3		X				X						

[illegible]

$\frac{1}{2} \leq \frac{1}{3} \leq \frac{1}{4}$

Requisitioned by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp °C:
<i>[Signature]</i>	COMPANY	11/10/08		<i>[Signature]</i>	COMPANY			

202 ft. av 80-61-11
010 Vp
= 1.111

Case No.	Case Name	Date	Time	Temp
1	1/1/08	1/1/08	1:00	100.0

[illegible]

REMARKS:

ALSO BY

email Jason Henry - Plains
Channah Smith

☐ 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.

Carry-in

ORIGINAL COPY

APPENDIX D

Regulatory Documentation

NMOCD Initial 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

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company EOTT Energy Pipeline, LP	Contact Frank Hernandez
Address 5805 East Hwy 80	Telephone No. 915-638-3799
Facility Name Hobbs Junction Mainline	Facility Type 10" Crude Oil Pipeline

Surface Owner State of NM	Mineral Owner NA	Lease No. NA
-------------------------------------	----------------------------	------------------------

LOCATION OF RELEASE

Unit Letter M	Section 26	Township 18S	Range 37E	Feet from South Line 15	Feet from West Line 700	Longitude W103:13:42.01	Latitude N32:42:40.85	County: Lea
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NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 50 bbl	Volume Recovered 24 bbl
Source of Release Steel Pipeline	Date and Hour of Occurrence 1/23/03-8:00 AM	Date and Hour of Discovery 1/23/03-10:45 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Sylvia Dickie - Hobbs NMOCD	
By Whom? Pat McCasland - EPI	Date and Hour 1/23/03-11:35 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.* Corroded pipeline (internal), repaired with clamp		
Describe Area Affected and Cleanup Action Taken.* ~12500-ft² surface area affected; 50-bbl released; 24-bbl of crude recovered. Removal and disposal of contaminated soil above remedial goals was commenced by EPI.		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Frank Hernandez	Approved by District Supervisor:	
Title: District Environmental Supervisor	Approval Date:	Expiration Date:
Date: 1/24/03 Phone: 915-638-3799	Conditions of Approval:	☐ Attached

Attach Additional Sheets If Necessary

EOTT Energy Pipeline, LP**Site Information and Metrics****Incident Date and NMOCD Notified?****1/23/03-10:45 AM****1/23/03-11:35 AM**

SITE: Hobbs Junction Mainline		Assigned Site Reference #: 2003-00017	
Company: EOTT Energy Pipeline, LP			
Street Address: 5805 East Hwy 80			
Mailing Address: PO Box 1660			
City, State, Zip: Midland, TX 79701			
Representative: Frank Hernandez			
Representative Telephone: 915-638-3799			
Telephone:			
Fluid volume released (bbls): 50	Recovered (bbls): 24		
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days.			
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: 2003-00017			
Source of contamination: Steel Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: State of NM			
LSP Dimensions: 500-ft X 50-ft (W-E)			
LSP Area: 12500 -ft ²			
Location of Reference Point (RP):			
Location distance and direction from RP:			
Latitude: N32:42:40.85			
Longitude: W103:13:42.01			
Elevation above mean sea level: 3681 -ft amsl			
Feet from South Section Line: 15			
Feet from West Section Line: 700			
Location - Unit or 1/4 1/4: UL- M SW 1/4 of SW 1/4			
Location - Section: 26			
Location - Township: 18S			
Location - Range: 37E			
Surface water body within 1000' radius of Site: 0			
Surface water body within 1000' radius of Site: 0			
Domestic water wells within 1000' radius of Site: 0			
Domestic water wells within 1000' radius of Site: 0			
Agricultural water wells within 1000' radius of Site: 1			
Agricultural water wells within 1000' radius of Site: 0			
Public water supply wells within 1000' radius of Site: 0			
Public water supply wells within 1000' radius of Site: 0			
Depth (ft) from land surface to ground water (DG): 38			
Depth (ft) of contamination (DC): 5			
Depth (ft) to ground water (DG - DC = DtGW): 33			
1. Ground Water		2. Wellhead Protection Area	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or, <200' from private domestic water source: 20 points	
If Depth to GW 50 to 99 feet: 10 points		If >1000' from water source, or, >200' from private domestic water source: 0 points	
If Depth to GW >100 feet: 0 points			
Ground water Score: 20		Wellhead Protection Area Score: 20	
Site Rank (1+2+3) = 40		Surface Water Score: 0	
Total Site Ranking Score and Acceptable Concentrations			
Parameter	20 or >	10	0
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			